SUPPLEMENTAL PHASE II
COMPREHENSIVE SITE ASSESSMENT
FORMER EVERETT STAGING YARD
WATER-SIDE
EVERETT, MASSACHUSETTS
RELEASE TRACKING NUMBER 3-13341

PREPARED FOR:
Wynn MA, LLC
Medford, Massachusetts

PREPARED BY:
GZA GeoEnvironmental, Inc.
Norwood, Massachusetts

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EXECUTIVE SUMMARY **1**

1.0 INTRODUCTION **2**

2.0 WATER-SIDE BACKGROUND **3**

2.1 SITE HISTORY AND DESCRIPTION 3

2.2 PREVIOUS ENVIRONMENTAL INVESTIGATIONS 4

2.2.1 Ecological Risk Characterization 4

2.2.2 Human Health Risk Characterization 5

2.3 ECOLOGICAL RESOURCE AND HABITAT DESCRIPTIONS 5

2.3.1 Aquatic Habitat of the water-side and Lower Mystic River 5

2.3.2 Shellfish and Benthic Invertebrate Community 6

3.0 FIELD INVESTIGATION **9**

3.1 SURFACE WATER & GROUNDWATER SEEPS 9

3.1.1 Field Program 9

3.1.2 Analytical Results 10

3.2 SEDIMENT 11

3.2.1 Field Program 12

3.2.2 Field Observations and Grain Size Analyses 13

3.2.3 Analytical Results 14

3.2.4 Toxicity Test Results 15

4.0 WATER-SIDE SITE DELINEATION AND RISK-BASED CLEAN-UP GOALS **17**

4.1 WATER-SIDE SITE LIMITS 17

4.1.1 Contaminants with greater than 20 percent Frequency of Detection 18

4.1.2 Contaminant Distribution Maps 19

4.1.3 Delineation of Water-Side Site Boundaries 20

4.1.4 Statistical Analyses: Water-Side Site Compared to Local Conditions 23

4.2 RISK-BASED CLEAN-UP GOALS 27

5.0 DELINEATION OF THE AREA REQUIRING REMEDIATION TO ATTAIN A PERMANENT SOLUTION **28**

5.1 HORIZONTAL EXTENT OF REMEDIATION....28
5.2 DEPTH OF REMEDIATION....28
6.0 HUMAN HEALTH....30
7.0 SUBSTANTIAL HAZARD EVALUATION....31
8.0 CONCLUSION....32
9.0 REFERENCES....33

TABLES

TABLE 1 SURFACE WATER QUALITY FIELD MEASUREMENTS

TABLE 2A SURFACE WATER SEMI-VOLATILE ORGANIC COMPOUND RESULTS

TABLE 2B SURFACE WATER METALS AND EXTRACTABLE PETROLEUM HYDROCARBON RESULTS

TABLE 3A SEDIMENT METALS AND TOTAL ORGANIC CARBON RESULTS

TABLE 3B SEDIMENT POLYCHLORINATED BIPHENYL RESULTS

TABLE 3C SEDIMENT SEMI-VOLATILE ORGANIC COMPOUND RESULTS

TABLE 3D SEDIMENT POLYCYCLIC AROMATIC HYDROCARBON AND EXTRACTABLE PETROLEUM HYDROCARBONS RESULTS

TABLE 3E SEDIMENT VOLATILE ORGANIC COMPOUNDS (VOCS)

TABLE 4A 2013 SEDIMENT TOXICITY TEST RESULTS

TABLE 4B 2015 SEDIMENT TOXICITY TEST RESULTS

TABLE 5 WATER-SIDE (ENTIRE) SHALLOW SEDIMENT SUMMARY STATISTICS

TABLE 6 CONTAMINANTS OF POTENTIAL ECOLOGICAL CONCERN SELECTION TABLE

TABLE 7 PROUCL STATISTICAL ANALYSIS SUMMARY OF RESULTS

TABLE 8A WATER-SIDE SITE SEDIMENT SUMMARY STATISTICS

TABLE 8B OFF-SITE EAST SEDIMENT SUMMARY STATISTICS

TABLE 8C OFF-SITE WEST SEDIMENT SUMMARY STATISTICS

TABLE 8D LOCAL CONDITIONS SEDIMENT SUMMARY STATISTICS

FIGURES

FIGURE 1: LOCUS PLAN

FIGURE 2: SITE PLAN

FIGURE 3: LOCAL CONDITIONS SAMPLE LOCATIONS

FIGURE 4A ARSENIC CONCENTRATIONS IN SEDIMENT

FIGURE 4B LEAD CONCENTRATIONS IN SEDIMENT

FIGURE 4C MERCURY CONCENTRATIONS IN SEDIMENT

FIGURE 4D BIS(2-ETHYLHEXYL)PHTHALATE (DEHP) CONCENTRATIONS IN SEDIMENT

FIGURE 4E POLYCHLORINATED BIPHENYL CONCENTRATIONS IN SEDIMENT

FIGURE 4F EXTRACTABLE PETROLEUM HYDROCARBON CONCENTRATIONS IN SEDIMENT

FIGURE 5A ARSENIC CONCENTRATION DISTRIBUTION IN SHALLOW SEDIMENT

FIGURE 5B LEAD CONCENTRATION DISTRIBUTION IN SHALLOW SEDIMENT

FIGURE 5C MERCURY CONCENTRATION DISTRIBUTION IN SHALLOW SEDIMENT

FIGURE 6A ARSENIC CONCENTRATIONS IN TOXICITY TEST SAMPLES

FIGURE 6B LEAD CONCENTRATIONS IN TOXICITY TEST SAMPLES

FIGURE 6C MERCURY CONCENTRATION IN TOXICITY TEST SAMPLES

FIGURE 7 PROPOSED EXTENT OF SEDIMENT DREDGING

APPENDICES (Enclosed on CD)

APPENDIX A LIMITATIONS

APPENDIX B SURFACE WATER LABORATORY REPORTS

APPENDIX C SEDIMENT LABORATORY REPORTS.

APPENDIX D SEDIMENT SIEVE ANALYSES

APPENDIX E ANALYTICAL DATA - 2013 UPSTREAM SAMPLES

APPENDIX F CORE LOGS

APPENDIX G TOXICITY TEST REPORTS

APPENDIX H SOIL PRECHARACTERIZATION DATA

APPENDIX I STATISTICAL METHODS AND PROUCL RESULTS

APPENDIX J HUMAN HEALTH SCREENING

APPENDIX K COMPREHENSIVE RESPONSE ACTION TRANSMITTAL FORM

APPENDIX L PUBLIC NOTICES

EXECUTIVE SUMMARY

GZA GeoEnvironmental Inc. (GZA) has prepared this Supplemental Phase II Comprehensive Site Assessment (Phase II) for the portion of the Mystic River located adjacent to the Former Everett Staging Yard (Figure 1), which is a disposal site regulated under the Massachusetts Contingency Plan (MCP) identified as Release Tracking Number (RTN) 3-13341. Historic releases of Oil and Hazardous Materials (OHM) at the Former Everett Staging Yard resulted in the contamination of sediments in an embayment of the Mystic River. A previous Stage II Ecological Risk Characterization concluded that contaminants in sediment present a significant risk of harm to the benthic (bottom dwelling) community. The main goals of this Supplemental Phase II were to delineate the limits of the MCP disposal site within the river, and to develop clean-up goals to define what portion of the disposal site within the river would need to be remediated in order to achieve a condition of No Significant Risk as defined by the MCP (310 CMR 40.0006). The embayment and adjacent portions of the Mystic River that may have been impacted by those releases is referred to in this report as the "water-side" portion of the disposal site.

GZA performed an extensive sediment sampling and analysis program for the water-side, and collected sediment samples from locations in the Mystic River that are remote from the Former Everett Staging Yard Site; these remote samples were collected to represent what is referred to in the MCP as Local Conditions (essentially background conditions, as influenced by past human activities) within the river. Based on patterns in contaminant concentrations within the water-side sediments, and on statistical comparisons between water-side data and the Local Conditions samples, GZA identified arsenic, lead and mercury as the main Contaminants of Potential Ecological Concern in sediment associated with the Former Everett Staging Yard Site, and delineated an area of approximately 8.44 acres as the water-side portion of the disposal site.

Selected surficial sediment samples were run for chemical analyses and for 28-day, whole sediment toxicity tests using the marine species *Leptocheirus plumulosus*. The toxicity test results and chemical data were used to develop clean-up goals for arsenic, lead and mercury. Those clean-up goals were then used to delineate an approximately 6.82-acre area of the water-side portion of the disposal site that would need to be remediated to achieve a condition of No Significant Risk.

Although the Phase III study used to select a remedial alternative under the provisions of the MCP has not yet been completed, at the present time it appears that the remediation of the water-side portion of the disposal site will involve dredging and removing surficial sediment, and replacing the dredged sediment with clean sand. Because of the degraded condition of the Mystic River benthic habitat, and the shallow burrowing depths of the benthic species in this stretch of the river, a relatively thin layer of sand would effectively prevent the exposure of these organisms in the sub-tidal portions of the water-side. However, a dredge depth on the order of two feet may be the practical minimum depth of dredging and clean backfill.

GZA also performed a surface water and groundwater seep sampling program. Based on the results of that program, it is GZA's opinion that the discharge of contaminated groundwater has not significantly impacted surface water quality in the Mystic River. Ongoing Release Abatement Measure (RAM) activities being conducted on the upland portion of the disposal site will further reduce the potential for disposal site contaminants to be transported into the Mystic River and associated sediments.

1.0 INTRODUCTION

GZA has prepared this Supplemental Phase II Comprehensive Site Assessment (Phase II) for the portion of the Mystic River located adjacent to the Former Everett Staging Yard (Figure 1). This Supplemental Phase II is subject to the limitations presented in Appendix A. Soil, groundwater, and sediment at the disposal site have been contaminated by historic activities, including the former use of the property as a chemical manufacturing facility. The disposal site is identified by MassDEP as Release Tracking Number (RTN) 3-13341.

GEI Consultants, Inc. (GEI) of Woburn, Massachusetts, submitted a Phase II report for the Everett Staging Yard on February 10, 2012. The Phase II report included a Stage II Environmental Risk Characterization (Stage II ERC) performed by Menzie-Cura & Associates of Winchester, Massachusetts, (Menzie-Cura) in 2006. GEI and Menzie-Cura concluded that at least a portion of the embayment that extends northeastward from the main channel of the Mystic River had been impacted by releases from the Former Everett Staging Yard. Menzie-Cura found that contaminated sediment in the water-side portion of the disposal site presented a significant risk of harm to benthic organisms exposed to that sediment; since a condition of No Significant Risk to the environment could not be demonstrated, a sediment remediation program would be required to mitigate environmental risks. The embayment and proximal portions of the Mystic River that may have been impacted by historic activities on the Former Everett Staging Yard is referred to herein as the "water-side" portion of the disposal site.

GEI and Menzie-Cura based their conclusions on a small data set. Therefore, the delineation of the water-side portion of the disposal site was tentative, and the Stage II ERC was not sufficient to develop risk-based clean-up goals. The objectives of the present Supplemental Phase II are to provide the data necessary to adequately define the boundaries of the water-side portion of the disposal site, and to develop risk-based clean-up goals for ecological receptors. While the GEI and Menzie-Cura work is discussed briefly below, the data from this program were not used directly in this Supplemental Phase II. Given the availability of the substantially larger data set developed by GZA between 2013 and 2015, and the age and small size of the GEI and Menzie-Cura data set, GZA considered the use of the prior data set unnecessary.

RAM activities are currently being performed on the upland portion of the disposal site. The RAM activities are intended to reduce the risks associated with soil and groundwater contamination in three areas of the disposal site identified as the A-5 Area, the CES-2 Area, and the Low pH Area. Soil containing elevated concentrations of arsenic and lead in the A-5 Area will be excavated and disposed of off-site. Elevated concentrations of arsenic in soil and groundwater in the CES-2 Area will be addressed through excavation and disposal of soil off-site. Soil and groundwater in the Low pH Area will be treated using in-situ solidification/stabilization (ISS) to both reduce the ability of groundwater to flow through the Area, and raise the pH to limit the further mobilization of metals from soil to groundwater.

2.0 WATER-SIDE BACKGROUND

The following sections describe the environmental conditions of the water-side portion of the disposal site and Lower Mystic River (i.e., the tidal portion of the Mystic River which is seaward of the Amelia Earhart Dam), and discuss previous investigations conducted by others.

2.1 SITE HISTORY AND DESCRIPTION

The Former Everett Staging Yard was used for chemical manufacturing from the late 1800s until the early or mid-1960s, and buildings associated with chemical manufacturing were razed during the 1960s and 1970s. Releases to the water-side likely occurred over that period of manufacturing, and may have continued after chemical manufacturing ended due to the discharge of contaminated groundwater and the erosion of contaminated soil and other particulate materials. The long history of releases from the Former Everett Staging Yard, combined with multiple historic dredging efforts and the accretion of sediment and eroded soil from the property, resulted in high contaminant levels in both shallow and deeper sediments.

The Former Everett Staging Yard property (the "Wynn property") includes an upland area and a portion of the bed of the Mystic River totaling approximately 35 acres. The upland portion of the Wynn property is an irregularly shaped, approximately 21.75-acre parcel of land (Figure 1) roughly bounded by Alford Street to the east, MBTA railroad tracks to the west, an MBTA bus repair and maintenance facility to the north, and the Mystic River to the south. The Wynn property includes a peninsula of land that extends southerly into the Mystic River, and most of the small embayment located eastward of the peninsula.

To facilitate discussion, different portions of the Wynn property and adjacent areas are referred to in this report as follows:

- disposal site: as described in the MCP at 310 CMR 40.0006(1)(b), the term "disposal site" refers to a place or area where an uncontrolled release of oil and/or hazardous material… has come to be located." For the purpose of this report, "disposal site" refers to the Former Everett Staging Yard disposal site, identified by MassDEP as RTN 3-13341.
- upland property: the entire upland portion of the Wynn property, which is also the upland portion of the disposal site.
- peninsula: the portion of the upland property that extends to the southwest into the Mystic River.
- study area: the portion of the bay and Mystic River below mean high water (MHW), on or adjacent to the Wynn property which may have been significantly impacted by contaminant releases at the upland property. The sediment sampling grid shown on Figure 2 spans the study area.
- water-side site: the water-side portion of the disposal site where contaminants released from the upland property have come to be located in sediment. The water-side site was delineated as discussed in Section 4.0. The water-side site is also referred to as "on-Site" in this document.
- head of the bay: the northeast half of the Wynn property bay, which is visibly wider (in a southeast to northwest direction) than the southwest half of the bay.

- neck of the bay: the southwest half of the bay, which is slightly narrower than the head of the bay.
- mouth of the bay: the southwest limit of the Wynn property bay where it opens to the main channel of the Mystic River.
- southwest shoal: the inter-tidal and sub-tidal portion of the study area off of the southwest shore of the Wynn property peninsula.
- channel: the historically dredged navigational channel (bottom contours generally on the order of -16 to -18 feet NAVD88) which runs along the west side of the neck of the bay to the northwest corner of the head of the bay.



2.2 PREVIOUS ENVIRONMENTAL INVESTIGATIONS

The following sections briefly discuss previous field programs and human health and environmental risk assessments performed for the water-side site.

2.2.1 Ecological Risk Characterization

In 2006, Menzie-Cura performed water quality measurements (temperature, specific conductance, dissolved oxygen, and pH) in the field and concluded that groundwater discharging to the river did not significantly affect surface water quality, and that groundwater contaminants from the upland property would not result in toxic levels of contaminants in surface water. Menzie-Cura estimated a dilution factor for disposal site groundwater discharging to the Mystic River, which was applied to contaminant concentrations in groundwater.

From December 2005 through May 2007, sediment samples were collected from 19 sampling locations within the water-side site by Menzie-Cura, Tetra Tech Rizzo, Inc. of Framingham, Massachusetts (Rizzo), and Williams Environmental Services, Inc. of Lynnfield, Massachusetts. These samples were analyzed for various chemical constituents, including RCRA 8 metals, semi-volatile organic compounds (SVOCs), extractable petroleum hydrocarbons (EPH) with target polycyclic aromatic hydrocarbons (PAHs), polychlorinated biphenyls (PCBs), and volatile organic compounds (VOCs); some of the samples were also analyzed for sediment grain size distribution. Menzie-Cura also collected three sediment samples from the Lower Mystic River downstream of the disposal site to evaluate reference conditions[1]. These samples were analyzed for MCP 14 metals, PAHs, total organic carbon and grain size. GEI delineated a tentative water-side disposal site boundary, as shown on the GEI Phase II Site Plan (Figure 2 in the GEI report), which encompassed 18 of the 19 sediment sample locations. The SED-6 sample from the southwest shoal area, which had relatively low concentrations of arsenic and lead, was not included within the tentative disposal site boundaries.

In the 2006 Stage II ERC report Menzie-Cura listed sediment contaminants of concern as arsenic, barium, beryllium, cadmium, chromium, copper, lead, mercury, nickel, selenium, vanadium, zinc, bis(2-ethylhexyl)phthalate (DEHP), butylbenzlphthalate, di-n-octylphthalate, PCBs, and EPH fractions. The discussion in Section 4.1 below explains why those contaminants were either included or eliminated as sediment contaminants of concern for this Supplemental Phase II.

[1] Referred to in the GEI Phase II as "background," but more appropriately considered "Local Conditions;" see Section 3.2 of this Supplemental Phase II.

To assess the potential risk to benthic invertebrates due to exposure to sediment contaminants, Menzie-Cura submitted five water-side samples and three Mystic river reference samples to a toxicity testing laboratory for 28-day tests using *Leptocheirus plumulosus*; endpoints measured were survival, growth, and reproduction. They also collected soft-shell clams (*Mya arenaria*) for tissue analyses, and compared chemical concentrations in clam tissue to concentrations from the literature that may be associated with toxic effects to benthic invertebrates. Four of the five toxicity test samples showed significantly reduced survival, growth, or reproduction compared to the reference samples. Concentrations of arsenic in soft-shell clam tissue exceeded literature-derived toxicity reference values. Based on these results, Menzie-Cura concluded that contaminants in the sediment presented a significant risk of harm to benthic invertebrates.

Menzie-Cura performed food web assessments for common wildlife species that may feed on benthic invertebrates that have taken up sediment contaminants into their body tissues. Species evaluated were the herring gull (*Larus argentatus*) and raccoon (*Procyon lotor*). Menzie-Cura concluded that sediment contaminants of the water-side do not present a significant risk to wildlife that may feed on benthic invertebrates at the disposal site.

Menzie-Cura developed a list of disposal site-related contaminants of concern by comparing contaminant concentrations in sediment to those in the three reference samples collected from downstream in the Mystic River. GZA performed a detailed evaluation of sediment data, and concluded that arsenic, lead and mercury are the primary contaminants of concern in sediment (see Section 4.1). The contaminant list developed by Menzie-Cura is discussed in Section 4.1 within the context of GZA's evaluation of disposal site-related contaminants of concern.

2.2.2 Human Health Risk Characterization

GEI did not perform a quantitative human health risk assessment as part of its Phase II. GEI considered human access to sediment as limited due to the presence of a partial fence and bulkheads. It also cited an October 11, 2011, Massachusetts Department of Public Health (DPH) P6 fish advisory restricting fish consumption for the stretch of the Mystic River located between the outlet of Lower Mystic Lake and Amelia Earhart Dam (approximately 600 feet upstream of the disposal site) due to contamination by PCBs, and the pesticides dichlorodiphenyltrichloroethane (DDT) and chlordane. Based on the limited access to sediment and the fish advisory for the Mystic River, GEI concluded that human exposure to sediment contaminants was unlikely.

2.3 ECOLOGICAL RESOURCE AND HABITAT DESCRIPTIONS

2.3.1 Aquatic Habitat of the water-side and Lower Mystic River

MassDEP has categorized the Lower Mystic River as a Class SB water body under the Massachusetts Surface Water Quality Standards (314 CMR 4.00). A Class SB water body is a marine surface water classification designated for protection as fish habitat, for other aquatic life and wildlife (including a consideration of their reproduction, migration, growth and other critical functions), and for primary and secondary recreation. The Lower Mystic River is closed to shellfish harvesting due to high bacterial counts.

All of the Inner Boston Harbor/Lower Mystic River is designated as Essential Fish Habitat (EFH) by the National Marine Fisheries Service (NMFS) under the Federal Magnuson Fisheries Conservation and Management Act of 1976. As such, the Lower Mystic River is under the jurisdiction of the New England Fisheries Management Council (NEFMC). According to the NEFMC, the harbor provides EFH for at least one life stage for 23 managed fish species. In addition, the Lower Mystic River may support several fish species that could trigger Massachusetts Department of Marine Fisheries (DMF) Time of Year (TOY) restrictions for dredging and construction activities. Such species include alewife (*Alosa pseudoharengus*), blueback herring (*A. aestivalis*), American shad (*A. sapidissima*), white perch (*Marone americana*), American eel (*Anguilla rastrata*), and Winter Flounder (*Pseudopleuronectus americanus*). TOY restrictions are intended to protect sensitive life stages of fish species including spawning and early development (larval and fry stages).

Since 1989, the Massachusetts Water Resources Authority (MWRA) has monitored water quality parameters in the Inner Boston Harbor and its contributing waters. Data summarized from the two MWRA stations closest to the study area (Station 52, approximately 3,000 feet downstream, and Station 69, approximately 1,000 feet upstream) are indicative of a shallow estuarine habitat, where salinity and temperature fluctuate over wide ranges. Mean salinity values indicate that the area is highly saline most of the time, although salinity fluctuates from nearly freshwater to ocean water salinities. Turbidity is generally low, with some localized events over 50 Nephelometric Turbidity Units (NTU), compared to background values around 5 NTU.

As discussed further below, since approximately 2000, the benthic community of the Lower Mystic River has been the subject of several studies associated with monitoring Confined Aquatic Disposal (CAD) cells for dredged sediments that are contaminated or otherwise unsuitable for open water disposal. As part of that monitoring program, in June 2000, ENSR (2001) performed a survey of the benthic community found in the sand caps placed on the CAD cells and in reference locations in the river outside of the CAD cell footprints. Observations of microbial mats of sulfur-fixing bacteria in the Lower Mystic River were common; these mats are indicators of anoxic (lack of oxygen) conditions at the sediment-water interface. These conditions are likely related to high rates of nitrogen loading and the presence of organic compounds in the water column. Because benthic infauna (i.e., benthic organisms that burrow into the sediment) depend upon oxygenated water at the sediment-water interface, water quality conditions that promote the growth of microorganisms that deplete oxygen in bottom waters negatively impact the development of the benthic community.

2.3.2 Shellfish and Benthic Invertebrate Community

In August 2013, April 2014, and September 2015, GZA biologists conducted detailed shellfish surveys of the inter-tidal and sub-tidal water-side and adjacent portions of the Mystic River. Those surveys were conducted in support of EFH Assessments (GZA, 2015a and 2015b) performed during the Massachusetts Environmental Policy Act (MEPA) review process for the proposed casino development at the Wynn property. The EFH Assessments were prepared to aid the U.S. Army Corps of Engineers and NEFMC in their review of the proposed Wynn Resort development in Everett, which includes dredging in the head of the bay for navigational purposes. The EFH Assessments can also be used to evaluate the

additional work in the water-side site that may be implemented to remediate sediment contamination under the MCP.

In 2013 and 2014 GZA excavated 14 shallow observation plots in the intertidal areas of the southwest shoal, and the north and west shores of the bay to characterize the benthic community. Relatively few viable shellfish were found within the entire inter-tidal area of the water-side site. Only nine individuals of living soft-shell clams (*Mya arenaria*) were found in the inter-tidal area, and all of these individuals were juveniles less than 10 mm in size. One area with a dense concentration of intact dead soft-shell clam shells was observed within the inter-tidal sediments of the southwest shoal area. This concentration of shells appeared to be an intact clam bed of mixed age-classes (i.e., intact articulated bivalve shells, at a uniform depth, with the shell orientation and spacing expected in a living clam bed). The observations of an apparently intact clam bed with 100% mortality of older clams suggests a relatively rapid mortality event within the recent past.

The reason for the apparent rapid die-off of soft-shell clams in the study area is unknown; however, there was a large scale die-off of clams in Boston Harbor in the vicinity of Logan Airport in late Summer or Fall of 2010. That die-off is thought to have been related to the soft-shell clam disease neoplasia[2]. There is evidence to suggest that the susceptibility of soft-shell clams to neoplasia may be increased by exposure to heavy metals, PCBs and PAHs (Bőttger et al., 2013).

In 2015 GZA made observations of soft-shell clams present in the intertidal area of the eastern shore of the bay, and found similar conditions, but with higher densities of living clams; 2% to 10% of the shells observed contained living clams.

Other observations in the inter-tidal zone included live razor clams (*Ensis directus*) and siphon holes, and occasional spent oyster (*Crassostrea virginica*) shells.

To survey the sub-tidal areas, GZA used a camera mounted to a submersible Remotely Operated Vehicle (ROV) to make visual observations, and evaluated six benthic grab samples collected using an Ekman dredge sampler. Living blue mussels (*Mytilus edulis*) were observed on rock and wood attachment sites in intertidal portions of the southwest shoal and near the eastern shore of the bay; however, they were largely absent from the west and north shores of the bay. Viable polychaetes (bloodworms; *Glycera* spp.) were observed within the sediments, but no viable Mollusca species were observed except for some surface snails (Crepidula, Llyanassa, and *Littorina* spp.). Green crabs (*Carcinus maenas*; a non-native species introduced in the 1800s) were present in low numbers in the sub-tidal areas, but again primarily near the Mystic River channel. No sea scallop (*Placopecten magellanicus*) or surf clam (*Spisula solidissima*) (living or spent shells) were found during these surveys.

GZA did not conduct a fish survey, but GZA field personnel did observe several flounder (*Paralichthys* sp.) and sculpin (*Cottus* sp.) during the ROV survey.

During the period from 1998 through 2008, eleven CAD cells were constructed in the greater Boston Inner Harbor area as part of the Boston Harbor Navigation Improvement Project and the Boston Harbor Inner Harbor Dredge Maintenance Project. These CAD cells

[2] A diffuse tumor of the clam circulatory system.

were constructed to contain dredge material that was deemed unsuitable for open water disposal, usually because of elevated levels of sediment contaminants. Eight of those CAD cells were constructed in the Lower Mystic River between the Alford Street (Route 99) bridge and the Tobin Bridge. These CAD cells span a reach of the Lower Mystic River between 0.3 and 1.2 miles seaward from the mouth of the bay. One cell was constructed in the Chelsea River and two were constructed in the Boston Inner Harbor just seaward of the confluence of the Mystic and Chelsea Rivers. Ten of these CAD cells have been capped using sand from dredging operations at the Cape Cod Canal.

The New England District of the U.S. Army Corps of Engineers implements a Disposal Area Monitoring System (DAMOS) that has been monitoring the performance of the Mystic River CAD cells in terms of cap stability, sedimentation over the cap, mixing of cap and ambient sediment, and recolonization by benthic infauna.

These monitoring efforts include video surveys of the sub-tidal sediments within the river. Epi-benthic organisms (those that live on the sediment surface) were commonly observed, including flounder and other small and medium size bottom fish, shrimp and crabs. However, the benthic infaunal community of the Lower Mystic River was found to be highly stressed, and in a persistent state of early succession.

Mixing of surficial sediment from benthic infaunal burrow activities (i.e., bioturbation) was monitored by measuring the depth of reduction-oxidation features (referred to as apparent redox potential discontinuity; aRPD) in the surficial sediment. Burrowing depths and benthic infauna abundance were evaluated by measuring sediment-surface water boundary layer roughness (which can increase with greater infauna activity and by the activity of larger individuals), and direct observations of individual benthic infauna, tubes and feeding voids in the sediment profile. These measurements were performed both within the CAD cell caps, and in nearby reference areas that had not been dredged or capped in the recent past.

During its June 2000 survey, ENSR (2001) noted the low biodiversity of the infaunal community of the Boston Inner Harbor and Lower Mystic River, both in the CAD cell caps and at reference stations. Mean aRPD depths (means calculated for individual cap areas) were 2.44 centimeters (cm) or less. However, because of the degraded state of the benthic environment, ENSR also concluded that the impact of the dredging, filling, and capping associated with the CAD cells was far less than if the Mystic River and Boston Inner Harbor area had provided higher quality benthic habitat conditions.

Surveys of the infaunal community were also conducted in 2004 (ENSR, 2007) and 2009 (USACE, 2012), with results similar to those of the 2000 survey. The 2009 survey found the average aRPD depth was less than 2.6 cm, with a maximum observed depth of 5 cm. These conditions were attributed to periodic low oxygen or anoxic conditions at the sediment-water interface due to nutrient and organic loading in the river, and frequent physical disturbances to the surficial sediment.

The executive summary of the 2009 monitoring report (USACE, 2012) stated:

> "The biological mixing zone, estimated by measuring the oxidized layer at the surface of sediment cores, averaged less than 2.6 cm for both CAD cell stations and reference cores. The shallow biological mixing documented in 2009 supported

earlier findings of harbor-wide conditions limiting benthic recolonization to a state of perpetual early succession throughout the harbor. Very fine layering was also apparent at the surface of both CAD cell and reference cores further supporting the persistence of shallow sediment mixing in Boston Harbor."

In other words, there is strong evidence that the sub-tidal, benthic infaunal communities of the Mystic River and Boston Inner Harbor are in poor condition, based on the surveys performed as part of the Army Corps of Engineer's monitoring efforts for the CAD cells. The poor state of the infaunal community in the Mystic River was attributed to nutrient and organic loading that results in low oxygen or anoxic conditions at the sediment-water interface, and frequent physical disturbances of the surficial sediment.

3.0 FIELD INVESTIGATION

GZA performed a sediment coring and sampling program within the study area in August 2013 and March-April 2015. GZA conducted surface water and groundwater seep sampling in May 2015. The following sections discuss the methods and result of these sampling programs.

3.1 SURFACE WATER & GROUNDWATER SEEPS

Neither GEI nor Menzie-Cura analyzed surface water samples for potential contaminants of concern. To evaluate whether groundwater discharge may be resulting in potentially harmful concentrations of disposal site-related contaminants, GZA collected near-shore surface water samples and samples of groundwater visibly discharging at seeps in the inter-tidal zone.

3.1.1 Field Program

Four near-shore surface water samples and two groundwater seep samples were collected on May 21 and 22, 2015, at the locations shown on Figure 2. Field measurements of temperature, pH, dissolved oxygen, conductivity, and turbidity were made at each sample location.

Samples were collected during low tide. Surface water samples were collected using a peristaltic pump from shallow water (less than one foot deep) near the shore. Samples were collected in a manner that limited the disturbance of the sediment at the collection site, and the entrainment of suspended sediment with the water samples. The samples collected for metals analyses were filtered in the field using a 0.45 micrometer (µm) filter; the SVOC and EPH samples were not filtered.

During low tide, groundwater seeps visibly discharge from preferential flow paths through the inter-tidal sediment. Samples of seep discharge were collected by digging a small depression in the sediment at various seep locations, waiting 30 to 45 minutes for suspended sediment in the depression to dissipate, and then collecting water samples with a peristaltic pump.

Surface water and seep samples were analyzed for the following parameters:

- SVOCs via United States Environmental Protection Agency (EPA) Method 8270C (with selected ion monitoring (SIM) for PAHs);
- EPH via MassDEP method; and
- Dissolved MCP 14 metals, plus hexavalent chromium (various methods).

Chemical analyses were conducted by ESS Laboratory of Cranston, Rhode Island. The analytical laboratory reports for the surface water and groundwater seep samples are presented in Appendix B.

3.1.2 Analytical Results

Table 1 presents field measurements collected at each surface water and groundwater seep sampling location. Groundwater seep SWS-3, collected adjacent to the Low pH Area of the disposal site (Figure 2), had lower pH, conductivity, and turbidity than did the other seep sample (SWS-6). The relatively lower pH of this seep sample likely reflects the discharge of groundwater from the Low pH Area. Similarly, the relatively lower conductivity may reflect the discharge of groundwater rather than draining of surface water that had infiltrated the ground during high tide.

Dissolved oxygen and pH were lower at surface water sample location SW-3 than at the three other surface water locations. These differences at SW-3 may reflect the influence of groundwater discharge on near-shore surface water quality at low tide.

Table 2A presents analytical results for SVOCs, and Table 2B presents results for dissolved metals and EPH. Tables 2A and 2B also present chronic surface water quality benchmark concentrations (WQBs) for the protection of aquatic organisms. Contaminant concentrations in surface water at or below the WQBs are considered to present little or no potential for adverse toxic effects to exposed aquatic biota; concentrations above the WQBs may present a risk of harm to exposed sensitive aquatic organisms. Furthermore, certain of the WQBs are Massachusetts Surface Water Standards (MSWSs; 314 CMR 4.00), and exceedance of those MSWSs would be considered Readily Apparent Harm under the MCP at 310 CMR 40.0995(3)(b)(1)(b).

The primary source of the WQBs are the U.S. Environmental Protection Agency (USEPA) Recommended Ambient Water Quality Criteria (NRWQC) for chronic exposures in saltwater. The NRWQC are also the source of the MSWSs. Surface water benchmarks from other sources were used when NRWQCs were not available. The sources of those secondary benchmarks are presented in the notes to Tables 2A and 2B.

One SVOC (DEHP) and several PAH compounds were detected in the surface water sample SW-6 (Table 2A). Concentrations reported were all below the WQB concentrations, therefore these compounds are not likely to present a risk of harm to aquatic biota. No other surface water or groundwater seep samples contained detectable levels of SVOCs or PAHs. EPH fractions were detected twice: C11-C22 aromatics were detected in groundwater seep sample SWS-3, and C19-C36 aliphatics were detected in surface water sample SW-6. The reported concentrations of EPH fractions were well above the screening values. However, since these organic contaminants have a high affinity to adsorb to sediment particulates,

these detections likely represent suspended or dissolved particulates in the water samples. Chemicals adsorbed to particulates are not bioavailable and therefore are not considered toxic; the researchers that developed the benchmark for C19-C36 aliphatics note that this fraction is unlikely to be toxic to aquatic organisms because the concentration required to cause significant toxicity is lower than the aqueous solubility[3]. Similarly, the concentration of C11-C22 aromatics measured in SWS-3 likely represents non-toxic, particulate-bound EPH.

Dissolved arsenic, barium and zinc were each detected in two of the four surface water samples (Table 2B). The detected concentrations did not exceed WQBs. Cadmium and zinc were each detected in one of the two groundwater seep samples, but again at concentrations below the WQBs.

Arsenic was detected in both groundwater seep samples; the concentration in SWS-6 was below the benchmark, while the concentration in SWS-3 was nearly ten times higher than the benchmark concentration. While elevated concentrations of arsenic were detected in groundwater discharging from the vicinity of the Low pH Area, the concentration detected in the adjacent surface water sample (SW-3) was below the screening value. These data indicate that arsenic is diluted to concentrations below toxic levels upon discharge to surface water, and this mitigative effect is likely to be more pronounced during high tide. As previously noted, as part of the upland remediation, the Low pH Area will be remediated by ISS; that remediation program is expected to reduce or eliminate the discharge of high arsenic concentrations to surface water. Since the exceedance of the arsenic MSWS occurred in a groundwater seep and not in the nearby surface water sample, that condition does not meet the definition of Readily Apparent Harm.

3.2 SEDIMENT

GZA performed sediment coring and sampling programs within the study area in August 2013 and March-April 2015.

Sediment samples were collected for chemical analysis from the study area, and from locations within the Mystic River far enough away from the Wynn property that they were unlikely to have been significantly impacted by releases from the disposal site. The samples collected from the river far from the study area were used to represent "Local Conditions" for sediment contaminant levels. Local Conditions can be thought of as "anthropogenic background" concentrations in waterbodies and waterways. MassDEP defines Local Conditions as ubiquitous contamination in aquatic environments resulting from general urban and suburban land use rather than identifiable, individual sources (MassDEP, 1996; Guidance Document Section 9.4.2.1). Contaminant sources that contribute to Local Conditions include permitted discharges, storm water discharges, and non-point sources typically associated with developed areas. Such sources can also include other MCP disposal sites; however, chemical data collected within the boundaries of other disposal sites are not appropriate for representing Local Conditions.

Whole-sediment toxicity tests were also performed for 15 selected samples from the study area, and for three of the Local Conditions samples.

[3] Toxicity tests for such low solubility chemicals are sometimes performed using co-solvents to increase the dissolved concentrations above the aqueous solubility.

3.2.1 Field Program

Sediment samples were collected from the study area on an approximately 100-foot grid pattern. The sampling grid spans the length and width of the bay, and covers most of the southwest shoal area (Figure 2).

The 2013 and 2015 sediment sampling effort generated chemical data for 204 sediment samples from 60[4] sample locations from the study area (Figure 2), and 30 Local Conditions sediment samples from 12 sample locations in the Mystic River (Figure 3). GZA retained the marine services contractor CR Environmental, Inc. (CR) of Falmouth, Massachusetts, to retrieve sediment cores and grab samples under the observation of GZA field staff. CR used a Hemisphere Sub-meter GPS with HYPAK hydrographic survey software to locate the survey vessel over each planned sampling grid location, and to record actual sampling locations. A sediment core and a grab sample were collected at each sample location. Grab samples were collected from surficial sediments (0' to 0.5' below sediment surface [bss]) with a Ted Young 15-liter grab sampler. These grab samples provided the large surficial sample volume needed for toxicity testing and co-located chemical analyses.

At each sample location, between one and three deeper samples were collected from the sediment cores. For the 2013 sampling effort, cores were collected using a 12-foot long, 4-inch inside diameter (I.D.) core tube lined with a flexible plastic (polyethylene) liner. For the 2015 sampling round, cores were collected using a 10-foot long, 3-inch I.D. core tube with a ridged plastic (polycarbonate) liner. Core tubes were advanced using a pneumatically driven vibracore head.

Target depth intervals for samples collected from sediment cores were 0.5' to 2', 2' to 4', 4' to 6', 6' to 8' and 8' to 10' bss. In some cases sediment strata of interest did not fit within these depth intervals (e.g., a stratum of interest may have spanned 3' to 5' bss). In those cases the samples collected did not conform to these target depth intervals. For purposes of general discussion of analytical results and depiction on sampling plans, samples that did not conform to the target depth intervals were included in the interval group representing the shallowest portion of the non-conforming sample. For example, a sample collected from 3'to 5' bss was grouped with the 2' to 4' samples for discussion purposes and representation on plans.

To facilitate discussion of sediment data and the evaluations of water side site limits and remediation goals, the following sediment depth intervals are referred to herein as:

- "surficial" = 0' to 0.5' bss (grab samples);
- "shallow" = 0' to 2' bss (the sample group referred to as "shallow" includes samples from both the 0' to 0.5' bss and 0.5' to 2' bss depth intervals);
- "deeper" = those samples collected at depth intervals greater than 2' bss.

[4] This does not include 18 sample locations (GZ-1 through GZ-18) in the head of the bay where six composite samples were analyzed for various constituents, and 18 discrete samples were analyzed for volatile organic compounds. Those samples were collected in 2013 to support the 401 Water Quality Certification application for proposed navigational dredging. Sediment represented by those samples will be dredged for navigation regardless of whether they present a risk to the environment; therefore, analytical results for those samples are not included in this Supplemental Phase II evaluation.

Samples were analyzed for the following parameters:

- SVOCs via EPA Method 8270C (with SIM for the PAHs)
- EPH via MassDEP method
- MCP 14 metals (various methods)
- Total Organic Carbon (TOC) via Lloyd-Kahn method

In addition, 13 study area surficial samples[5] collected in 2015 were analyzed for VOCs via EPA Method 8260B to provide data necessary for the 401 Water Quality Certification in accordance with 314 CMR 9.07(6). Results for those VOC analyses are presented in this Supplemental Phase II and are discussed briefly below. However, VOCs in sediment generally present little risk to aquatic organisms, and the results were not a significant factor in delineating water-side site boundaries or developing risk-based clean-up goals. Therefore, aside from a brief discussion of the analytical results, the VOCs were not considered further in this Supplemental Phase II.

All samples submitted for chemical analysis were analyzed for metals, and a sub-set of samples was analyzed for the other chemical classes. Those samples were selected using the same criteria as listed above for the selection of samples at depth, and to provide general data coverage within the study area and at various depths.

Laboratory reports for the chemical analyses are presented in Appendix C.

Grain size sieve analyses were also performed for 62 of the sediment samples collected during the 2013 sampling round. Laboratory reports for the sieve analyses are presented in Appendix D.

In addition to the 72 study area and Local Conditions sample locations described above, samples were collected from 10 locations in the Mystic River upstream of the Wynn property during the 2013 sampling effort. Samples were collected both upstream and downstream of the Amelia Earhart Dam. These samples were intended to represent Local Conditions, but were ultimately not used for the assessments presented in this Supplemental Phase II. Because most of the 2013 upstream sample locations were in close proximity to other former MCP release sites, and several of the samples were highly contaminated, GZA was concerned that those samples may be within the boundaries of other MCP Sites and not representative of Local Conditions. In addition, several of the samples were upstream of the Amelia Earhart Dam, which is a freshwater habitat. Although the 2013 upstream data were not used for this Supplemental Phase II, the locations of those samples, and a table of analytical results, are included in Appendix E; laboratory data sheets are included in Appendix C.

3.2.2 Field Observations and Grain Size Analyses

The 2013 vibracore penetration depths in sediment were generally 10 to 12 feet bss (the core tube lengths used in 2013 were 12 feet); however, coring in the southwest shoal area, and in an area along the east shore of the head of the bay often hit refusal at shallower depths, typically between 4 feet and 6 feet bss. This was likely due to a coarser sediment

[5] These are in addition to the 18 samples analyzed for VOCs in 2013 for the navigational dredge program.

texture at that depth in those areas (Figure 2). Sediment recoveries varied between locations, but in other areas were generally between 8 feet and 11 feet.

The 2015 vibracore penetration depths were generally 8 to 10 feet bss (the core tube lengths used in 2015 were 10 feet). Sediment recoveries varied between locations, but were typically observed to be between 5 feet and 8 feet.

Appendix F presents sediment core logs for 2013 and 2015, which include field descriptions of sediment textures. Sediments generally consisted of fine-grained material with varying amounts of organics. The material within about 0 to 5 feet bss was predominately clayey silt with varying amounts of organics. Below about 5 feet bss sediments were typically stratified layers of sand and silt, with some locations containing organic silt and clay.

Sediment samples collected from selected 2013 sample locations were run for sieve analysis for grain size distribution. Appendix D presents sieve analyses for these samples, as well as laboratory descriptions of sediment texture. Figure 2 also presents sampling depths for the samples run for sieve analyses, and percentage of each sample that consisted of sediment particulates finer than sand (the percentage of the sample, by weight, passing through a #200 sieve represents silt and clay size particulates).

Descriptions of impacted or contaminated material were based on odors and visual observations, including consistency and color. Several cores collected along the western shore at the head of the bay contained layers of white and red, paste-like material, and/or yellow, non-organic, granular material.

3.2.3 Analytical Results

Chemical analyses were conducted by ESS Laboratory of Cranston, Rhode Island. The analytical laboratory reports for the sediment samples are presented in Appendix C, and analytical data for the sediment samples are presented in the following tables:

- Table 3A – Metals and TOC;
- Table 3B – PCBs;
- Table 3C – SVOCs ;
- Table 3D – PAHs and EPH; and
- Table 3E – VOCs.

Tables 3A through 3E also present sediment screening benchmarks for the protection of benthic organisms in marine environments. The primary source of the sediment benchmarks were the Effect Range-Low (ERL) and Effects Range-Median (ERM) values developed by Long et al. (1995). If an ERL or ERM was not available for a contaminant, we consulted other lists of comparable marine sediment benchmarks published in the literature or by regulatory agencies. The table notes cite the sources of the sediment benchmarks. ERL values are conservative screening values intended to be protective of sensitive marine benthic invertebrates; contaminant concentrations below or equal to the ERLs are considered to have little potential to cause toxic effects. ERM values were intended to identify contaminant concentrations above which there was a high probability

that toxic effects would occur. Tables 3A through 3E highlight detected concentrations that exceed the ERLs and those that also exceed the ERM values.

Threshold-type sediment benchmark concentrations such as the ERLs have come to be recognized as conservative because contaminant concentrations between the ERLs and ERMs often do not cause significant toxic effects. An example of this is the freshwater, consensus-based Threshold Effect Concentrations developed by MacDonald et al. (2000), which are threshold-type benchmarks for freshwater sediment (i.e., comparable to ERLs for marine sediment). Based on its experience with risk assessments performed for freshwater sediment, MassDEP determined in 2007 that these values would no longer be used as screening levels for most metals, and instead adopted the Probable Effect Concentrations (comparable to ERMs) as the freshwater screening levels. Consistent with this approach, GZA focused on exceedances of ERM values when assessing the potential for toxicity in study area sediments.

VOCs analyses were limited to a small sub-set (13 samples) of the 2015 surficial sediment samples. These VOC analyses were run to provide data to support the 401 Water Quality Certification application for remediation dredging. VOCs in sediment are generally considered to present a low level of ecological risk unless they are detected at high concentrations, and associated with an on-going source. Several VOCs were detected, but at low concentrations, with most reported concentrations well below 1 milligram per kilogram (mg/kg). Based on these considerations, VOCs were not considered contaminants of concern for the purposes of this Supplemental Phase II, and were not carried through the evaluations used for the other detected contaminants.

Chemical analytical results are discussed in greater detail in Section 4.0 below in the context of water-side site delineation and the development of risk-based clean-up goals.

3.2.4 Toxicity Test Results

Laboratory toxicity tests were performed by New England Bioassay of Manchester, Connecticut, a division of GZA. Whole sediment toxicity tests were performed using the marine amphipod *Leptocheirus plumulosus*. The test organisms were exposed to the study area and Local Conditions samples in the laboratory for 28-days. Test endpoint measurements were amphipod survival, biomass[6], and reproduction.

Whole sediment toxicity tests were performed on six of the 2013 study area samples, on nine of the 2015 study area samples, and on three of the 2015 Local Conditions samples. The toxicity test results for the 2015 Local Conditions samples were used as "reference" samples to assess whether the 2015 study area samples exhibited significant toxic effects. Samples used for toxicity tests were "co-located" with chemical analysis samples; the samples for chemical analyses and toxicity tests were field split samples collected from the same mixing bowl after homogenization.

Appendix G presents the 2013 and 2015 laboratory toxicity test reports. For these tests, sub-samples of each sediment sample are placed in culture containers, with overlying

[6] Biomass is a measure of growth that integrates survival and growth. For the toxicity test endpoints it is measured as the total dry weight of surviving individuals after a 28-day exposure divided by the number of individuals exposed at the initiation of the test.

laboratory water. Five such replicates are prepared for each study area sample, for each reference (i.e., Local Conditions) sample, and for a laboratory control sample. Laboratory control sediments consisted of artificially prepared sediment material following EPA guidance (EPA, 2000). For the 2015 toxicity tests, NEB ran tests on both an artificial and a natural laboratory control. Each culture container was inoculated with 20 individual *L. plumulosus*.

After the 28-day exposure period, the surviving amphipods were harvested, counted, and weighed. As the 28-day exposure period is enough time for the exposed individuals to reproduce, the offspring in each replicate are also harvested and counted, and the reproduction endpoint is expressed as the number of offspring per surviving adult. The survival measurement endpoint (percent survival) was defined as the number of surviving organisms divided by the initial count of test organisms (i.e., 20). The biomass measurement endpoint was defined as the total dry weight of surviving individuals divided by the initial count of test organisms (i.e., 20).

Toxicity tests were also performed on three of the samples collected from upstream locations in the Mystic River in 2013; however, as discussed above, the results for those samples were not considered applicable to the evaluations presented in this Supplemental Phase II. The toxicity test results for the 2013 upstream samples are included in the 2013 toxicity test report presented in Appendix G.

Table 4A presents a summary of the results for the 2013 toxicity tests, and Table 4B presents a summary for the 2015 toxicity tests. For each run of toxicity tests, the results for the laboratory control sediments are intended primarily as quality control for the laboratory methods. Comparing results for site samples to those for site-specific reference samples (Local Conditions) is the preferred method for evaluating sediment toxicity.

2013 Toxicity Test Results

Because the 2013 effort did not include site-specific reference samples (the samples collected upstream in the Mystic River were not considered to be appropriate Local Conditions samples), the 2013 study area samples were conservatively compared to the laboratory control samples to evaluate whether there were toxic effects. None of the 2013 study area samples resulted in significantly lower survival rates compared to the lab control (Table 4A). Four of the six study area samples resulted in reduced biomass compared to the lab control; the two samples that did not have significantly reduced biomass were GZ-116T and GZ-135T (Table 4A). All six study area samples exhibited reduced reproduction compared to the lab control; therefore, we considered all the 2013 study area samples to exhibit significant toxicity.

2015 Toxicity Test Results

To evaluate whether the 2015 study area samples resulted in significant toxicity to amphipods, the results for the study area samples were compared separately to each of the three Local Conditions samples (Table 4B). All three Local Conditions samples met the EPA (2000) criteria for acceptable test results for control samples, i.e., at least 80% survival and with measureable growth and reproduction. Only one study area sample resulted in significantly reduced survival; GZ-217 resulted in an average survival rate of 57%, which was significantly lower than all three Local Conditions samples tested. Three study area

samples (GZ-203, GZ-209, and GZ-223) had biomass results comparable to all three of the Local Conditions samples. The remaining nine study area samples had significantly reduced biomass compared to at least one of the Local Conditions Samples. Five of the nine study area samples (GZ-203, GZ-207, GZ-209, GZ-223, and GZ-225) had reproduction values that were comparable to all three Local Conditions samples. Based on these results, study area samples GZ-203, GZ-209, and GZ-223 are considered non-toxic to exposed benthic organisms.

Note that survival in both the artificial and natural laboratory control runs with the 2015 samples was below 80%, which is the EPA minimum standard for quality control for laboratory procedures. Had the Local Conditions samples also exhibited low survival, mortality may have been attributable to that particular run of toxicity tests, and would have called into question the utility of the toxicity test run for assessing potential toxicity in study area samples. However, all three Local Conditions samples met the quality control standards (greater than 80% survival and measurable growth and reproduction), indicating that the low survival rate was specific to two lab control set-ups, and not due to a condition present across the entire test run.

4.0 WATER-SIDE SITE DELINEATION AND RISK-BASED CLEAN-UP GOALS

The limits of the water-side site were delineated based on chemical concentrations detected in the Local Conditions data. Clean-up goals for sediment were developed based on the toxicity test results.

4.1 WATER-SIDE SITE LIMITS

The delineation of the water-side site limits focused on contaminant concentrations within the top two feet of sediment (referred to herein as "shallow sediments"). Since the biotic zone of the sediment of the Mystic River and the study area has been observed to be limited to the top few centimeters, evaluating deeper sediment is not necessary to characterize exposure and potential risk to environmental receptors.

Arsenic, lead and mercury were identified as the main Contaminants of Potential Ecological Concern (COPECs) in Site sediment. The process used to select COPECs for the water-side site was as follows:

1. For the study area data set (shallow), identify contaminants detected in more than 20 percent of the samples analyzed.
2. For the contaminants identified in Step 1, compare the 95th percentile[7] for study area samples to an Upper Threshold Limit (UTL; see below) for the Local Conditions data set (shallow), and identify contaminants for which the study area 95th percentile was substantially higher (generally two times higher) than the Local Conditions UTL.
3. For those contaminants identified in Steps 1 and 2 above, develop plans showing sediment contaminant concentrations at each sample location.
4. Using the plans developed in Step 3 above, look for spatial patterns in contaminant concentrations in the shallow (0' to 2' bss) sediment samples that may be useful for delineating Site limits. This step involved identifying portions of the study area

[7] Value below which 95% of the values in the data set fall.

represented by contiguous grid sample locations with contaminant concentrations (shallow sediments) that are on the low end of the range detected within the study area.

5. Draw preliminary Site boundaries based on the patterns identified in Step 4 above to identify contiguous groups of shallow sample locations representing the preliminary on-Site and off-Site portions of the study area.
6. Perform inferential statistical tests (two-sample hypothesis tests) to evaluate whether the data groups identified in Step 5 exhibit significantly higher contaminant concentrations compared to the Local Conditions samples. Iteratively re-draw preliminary disposal site boundaries so that data sets representing off-Site areas have contaminant concentrations that are not significantly higher than those in Local Conditions samples.
7. Identify COPECs as those contaminants identified in Step 6 above that have on-Site concentrations that are significantly elevated above the Local Conditions concentrations.

The COPEC list developed through the seven-step process outlined above was further validated by:

- Comparing concentrations of contaminants not included in that list to concentrations detected in soil samples collected during the extensive soil boring program conducted on the upland property. This soil boring program was conducted to support the precharacterization of soils for disposal associated with the future construction activities. These borings were installed between October 2014 and March 2015, resulting in the collection and analysis of 1,718 samples. Details concerning the soil boring program will be included in the forthcoming RAM Plan for construction activities; however, for convenience, a table summarizing the analytical data, along with an exploration location plan, is included as Appendix H. This comparison was done to evaluate the likelihood that releases at the upland property had significantly contributed to concentrations detected in study area sediments; and
- Comparing the concentrations detected in study area sediments to sediment quality benchmark concentrations to assess whether concentrations likely to be harmful to benthic invertebrates were widely distributed within the study area sediment, or found in limited areas or isolated samples.

4.1.1 Contaminants with greater than 20 percent Frequency of Detection

Table 5 presents summary statistics for the study area shallow sediment data set; the statistics presented are frequency of detection, maximum detected, and average and median concentrations. Only those contaminants detected at least once in the study area data set are shown on Table 5. Table 5 also presents the ERL and ERM sediment screening benchmarks. As discussed above, because of the conservative nature of the ERLs, and the generally impacted nature of Mystic River sediment, our assessment focused on exceedances of ERM values when evaluating the potential for toxicity in study area sediments.

Toxic actions of individual PCB and PAH compounds are additive, and therefore these parameters are usually evaluated as concentrations of total PCBs and total PAHs. PCBs and PAHs were evaluated as total concentrations for this COPEC assessment.

Contaminants with frequencies of detection greater than 20% in the study area shallow data set (see Table 5) are:

- Total PAHs;
- Total PCBs;
- DEHP;
- Total EPH;
- Arsenic;
- Mercury;
- Lead;
- Barium;
- Beryllium;
- Cadmium;
- Chromium;
- Nickel;
- Silver;
- Vanadium; and
- Zinc.



4.1.2 Contaminant Distribution Maps

The Local Conditions UTLs used for these comparisons are the upper 95% confidence limit on the upper 95th percentile (UTL95-95), which was calculated for each contaminant using the EPA ProUCL v5.0 (ProUCL) statistical package. Table 6 presents 95th percentile values for study area shallow samples, and UTL95-95 values for Local Conditions shallow samples. Contaminants with study area 95th percentile values more than twice the Local Conditions UTL95-95 values are arsenic, lead, mercury, total PCBs, total EPH and DEHP.

Figures 4A, 4B, 4C, 4D, 4E, and 4F present sediment sample locations with arsenic, lead, mercury, DEHP, PCB and total EPH data, respectively. Chemical concentration boxes shown on Figures 4A through 4F are shaded to depict different contaminant concentration ranges; the levels of shading were chosen relative to the ERL and ERM sediment benchmark concentrations (no sediment benchmarks are available for total EPH), and taking into consideration the full range of concentrations of each contaminant detected. These figures present concentrations for all depth intervals sampled; however, as discussed, the water-side site limits were based on the shallow samples collected from the 0' to 0.5' and 0.5' to 2' depth intervals.

Chemical analyses were not performed for shallow samples at the four sample locations near the northwest corner of the head of the bay. As noted above, that area will be dredged for the navigational channel improvements, and several composite samples were collected and analyzed in support of the permitting for that dredge program. Discrete samples collected in that area for the purposes of planning the sediment remediation program began at the 4' to 6' depth interval to characterize conditions in sediment that may represent the navigational dredging sub-grade. Given the concentrations noted in these deeper samples, as well as the general distribution of contaminants throughout the adjacent areas, this area was included within the boundaries of the water-side site.

As discussed below, an apparent pattern in the concentrations of arsenic, lead and mercury in shallow (0'- 2') sediment samples was useful for defining water-side site limits, whereas PCBs, DEHP, and EPH were not detected in a discernible pattern. Accordingly,

the Site limits shown on Figures 4A through 4F were based on the spatial distribution of arsenic, lead and mercury concentrations. Further information concerning the distribution of these compounds is provided in section 4.1.3 below.

4.1.3 Delineation of Water-Side Site Boundaries

Based on the delineation process outlined above, the area of the water-side site has been measured as approximately 8.44 acres. The landward limit of the water-side site was defined as the mean high tide line (equivalent to the mean high water (MHW) shown on the plans) based on the definition of dredged material in the 401 Water Quality Certificating regulation (314 CMR 9.00).

The patterns of arsenic, lead and mercury concentrations in shallow sediment samples are described as follows:

Arsenic (Figure 4A):

- Within the head of the bay, shallow samples near the west, north and east shores have arsenic concentrations that are commonly greater than the ERM, and in many cases are more than twice the ERM;
- Within the head of the bay, samples within the channel bottom and along the eastern channel slope (generally in the area between sample locations GZ-205 and GZ-108) have arsenic concentrations commonly between the ERM and one-half of the ERM;
- Samples in the channel bottom and eastern channel slope in the neck of the bay have arsenic concentrations that are generally less than one-half the ERM; and
- The lowest arsenic concentrations (most detected concentrations are <28.1 mg/kg) are found within the southwest shoal area (except for the three samples at the northwest limit of the shoal area) and the head of the bay area, represented by sample locations GZ-210, GZ-211, and GZ-212.

Lead (Figure 4B):

- Within the head of the bay, shallow samples near the west, north and east shores have lead concentrations that are commonly greater than the ERM, and many are several times higher than the ERM;
- Within the head of the bay, samples within the channel bottom and along the eastern channel slope (the area between sample locations GZ-123, GZ-108, GZ-107, and GZ-206) and in the area between sample locations GZ-214 and GZ-107 have lead concentrations that are slightly above the ERM (218 to 288 mg/kg);
- The channel bottom and eastern slope of the channel at the mouth of the bay have lead concentrations slightly below the ERM (165 to 216 mg/kg, except at GZ-202 which has 237 mg/kg), although GZ-127 has a surficial concentration of 369 mg/kg; and
- The lowest lead concentrations are found within the southwest shoal area (except for the three samples at the northwest limit of the shoal area) and the head of the bay area represented by sample locations GZ-210, GZ-211, and GZ-212 (most detected concentrations are <133 mg/kg).

Mercury (Figure 4C):

- Within the head of the bay, shallow samples near the northwest, north and east shores, and at the northern end of the channel bed, have mercury concentrations that are commonly greater than twice the ERM, and many have mercury concentrations several times higher than the ERM;
- The remainder of the samples from the head of the bay (except for the area represented by sample locations GZ-210, GZ-211, and GZ-212), and the bed of the channel through the neck of the bay, have mercury concentrations in shallow samples that are one to two times the ERM;
- The eastern slope of the channel in the head of the bay area, represented by sample locations GZ-210, GZ-211, and GZ-212, has mercury concentrations that are generally between the ERL and ERM;
- The portion of the southwest shoal area represented by sample locations GZ-137, GZ-136, and GZ-140, and the area represented by sample location GZ-127, have surficial sediment mercury concentrations slightly above ERM; and
- The remainder of the southwest shoal area (aside from the locations described in the previous bullet item) have surficial sediment mercury concentrations between the ERL and ERM.

Concentrations patterns for arsenic, lead and mercury were useful for developing the water-side site boundaries. Based on the general patterns described above, two groups of contiguous samples were identified as having relatively low shallow sediment concentrations of arsenic, lead and mercury that may be comparable to the Local Conditions shallow sediments:

- Off-Site East: data group comprising samples along the eastern slope of the channel within the neck of the bay, and the head of the bay area represented by sample locations GZ-210, GZ-211, and GZ-212.
- Off-Site West: data group comprising most of the southwest shoal area (except the area represented by sample location GZ-127) and a short section of the east slope of the channel (represented by sample locations GZ-122 and GZ-124).

These two areas are depicted on Figures 4A through 4F.

As discussed below, concentrations of DEHP, total PCBs and total EPH (Figures 4D, 4E, and 4F, respectively) did not exhibit spatial patterns that were helpful for developing water-side site boundaries. In addition, the highest concentrations were not found in the head of the bay which, as discussed, is the area most likely to exhibit impacts from historic releases at the upland property. Therefore, these contaminants do not have a spatial concentration pattern that would suggest that releases at the upland portion of the disposal site resulted in concentrations in sediment that are discernibly higher than Local Conditions. The patterns of DEHP, total PCBs and total EPH concentrations in shallow sediment samples are described as follows:

DEHP (Figure 4D):

- DEHP concentrations in the surficial (0' to 0.5') samples of the study area are low, with most concentrations between non-detect (<0.227 mg/kg) and 10.5 mg/kg. One surficial sample (at location GZ-119) had a higher concentration (131 mg/kg).
- Many of the 0.5' to 2' and 2' to 4' samples collected in the neck of the bay northward to sample locations GZ-116 and GZ-114 had concentrations in the hundreds and low thousands of mg/kg (up to 2,900 mg/kg at GZ-209).
- Concentrations are low in surficial samples near the west, north and eastern shores of the head of the bay (the portions of the study area that have been impacted the most by releases at the upland property, based on arsenic, lead and mercury data), ranging from non-detect to 7.28 (in the surficial sample at GZ-216).
- Four samples from the southwest shoal were analyzed for DEHP, and those concentrations were low (2.75 to 30.1 mg/kg).

Total PCBs (Figure 4E):

- Total PCB concentrations in surficial sediment samples in the channel through the neck and head of the bay ranged from 0.667 to 3.39 mg/kg.
- Many of the 0.5' to 2' and 2'to 4' samples collected in the neck of the bay northward to sample location GZ-114 had higher concentrations, on the order of 9 mg/kg up to 113 mg/kg.
- Concentrations in surficial samples in the north-central and north-western portion of the head of the bay (from about sample locations GZ-116 and GZ-208 northward) were less than 2 mg/kg, except for the 3.278 mg/kg detected at GZ-104. Deeper samples in this area were higher, generally in the range of 3.935 to 6.77 mg/kg; however the 2' to 4' samples at GZ-114 and GZ-209 had 59.7 and 20.3 mg/kg, respectively.
- Concentrations in shallow samples of the intertidal area near the eastern shore of the head of the bay, and in the area represented by sample locations GZ-210, GZ-211 and GZ-212, were low; most are less than 1 mg/kg, with the highest being 1.702 mg/kg in the surficial sample at GZ-221.
- PCB concentrations in four samples from the southwest shoal were low, ranging from 0.071 to 1.491 mg/kg.

Total EPH (Figure 4F):

- Most total EPH concentrations in surficial sediment samples throughout the study area are in the low hundreds of mg/kg (generally in the 100 to 250 mg/kg range); however, several are in the mid- to high hundreds, ranging up to 1,274 mg/kg at GZ-104. There is not an apparent spatial pattern to the higher concentrations.
- Concentrations in the deeper samples are mostly higher than 1,150 mg/kg and as high as 4,312 mg/kg; however this is not the case for the intertidal area at the eastern half of the head of the bay.
- Deeper samples in the intertidal area in the eastern half of the head of the bay (with the exception of GZ-104) are mostly less than 100 mg/kg, although four

sample locations adjacent to the east shore have 0.5' to 2' samples with concentrations ranging from 116 to 338 mg/kg.

4.1.4 Statistical Analyses: Water-Side Site Compared to Local Conditions

Portions of the study area were considered to be part of the water-side site if the data set representing that area had significantly higher concentrations (at the 95% confidence level) compared to the Local Conditions data set. GZA used ProUCL to compare contaminant concentrations in study area samples to concentrations in Local Conditions samples.



Sediments are considered to have been measurably impacted by releases at the disposal site if they:

- Are within the contaminant migration pathway for releases at the disposal site, and
- Have contaminant concentrations significantly elevated above Local Conditions concentrations.

Such sediments are considered part of the disposal site in accordance with the definition of disposal site in the MCP at 310 CMR 40.0006(1)(b).

It is clear that at least a portion of the study area is within the MCP disposal site because of the very high concentrations of arsenic, lead and mercury in sediment at the head of the bay. To delineate the boundaries of the water-side site, we evaluated whether any portions of the study area have sediment concentrations that are comparable to Local Conditions, and thus were not significantly impacted by releases from the upland portion of the disposal site.

GZA performed multiple runs of statistical tests, using ProUCL, comparing shallow Local Conditions data to data for various groupings of samples within the vicinity of the Off-Site East and Off-Site West areas described above. Those statistical tests were used to identify the Off-Site East and Off-Site West areas depicted on Figures 4A through 4F, and thereby delineate the boundaries of the water-side site. Note that the small on-Site area around sample location GZ-127 was delineated based on the relatively high concentrations of arsenic and lead in the shallow samples compared to the other samples in the Off-Site West area; the delineation was not based on statistical tests.

Appendix I summarizes the statistical methods that were used to compare the study area concentrations to the Local Conditions concentrations, and presents the ProUCL results documenting those statistical runs.

Table 7 summarizes the results of the final runs of the statistical tests. Table 7 shows that concentrations of arsenic, lead, and mercury in shallow sediment in the Off-Site East and Off-Site West areas are not significantly elevated above Local Conditions, and therefore are not part of the disposal site. We also conducted statistical analyses to confirm that arsenic, lead and mercury concentrations within the on-Site area are, in fact, elevated above Local Conditions. As noted on Table 7 and discussed in Appendix I, when all of the lead data for Local Conditions shallow samples are included in the statistical test runs the water-

side site lead levels are not significantly elevated above Local Conditions. However, when the high outlier Local Conditions value of 770 mg/kg is removed, the lead concentrations in the water-side site are significantly elevated above Local Conditions. Removing the Local Conditions high outlier value does not change the results of the comparison to the Off-Site East and Off-Site West data sets.

GZA also ran statistical tests on the other contaminants with frequencies of detection > 20% to evaluate whether concentrations in water-side site shallow sediments are elevated above Local Conditions. As shown on Table 7, none of the other contaminants tested had surficial sediment concentrations significantly elevated above Local Conditions.

The highest concentrations of silver, selenium and zinc appear to be concentrated along the shoreline of the head of the bay. We also ran statistical tests on a sub-set of the shallow on-Site samples (i.e., those near the shore of the head of the bay) to evaluate whether the concentration of these metals may be elevated above Local Conditions in localized areas within the water-side site. The results of those statistical tests indicated that silver, selenium and zinc concentrations are not significantly elevated above Local Conditions even in those localized portions of the water-side site where their concentrations are high relative to the remainder of the water-side site.

The COPEC selection process is summarized on Table 6. Arsenic, lead and mercury were the only contaminants with on-site concentrations that exceeded Local Conditions, and therefore they were the selected as COPECs in sediment.

Arsenic, lead and mercury have been detected in soil on the upland property at high concentrations and with high frequencies of occurrence (Tables 6). Therefore, it is likely that releases from the upland property resulted in the elevated concentrations in sediment of the water-side site. Furthermore, as discussed above, the pattern of arsenic, lead and mercury concentrations in sediment are consistent with the upland property being the source of those contaminants.

The water-side site boundaries shown on Figures 4A thru 4F reflect the results of iterative runs of statistical tests. Summary statistics were calculated for the different sediment depth intervals for the water-side site area, the Off-Site East and Off-Site West portions of the study area, and for the Local Conditions samples. These summary statistics are presented on Tables 8A, 8B, 8C and 8D, respectively. Marked differences in concentrations of arsenic, lead and mercury in shallow sediment are evident when comparing maximum, average and median concentrations for the water-side site to Off-Site East and Off-Site West sample sets. These differences are also reflected in the histogram charts presented in Figures 5A, 5B and 5C for arsenic, lead, and mercury, respectively.

Spatial patterns of contaminant concentrations in sediment below 0.5’ bss likely reflect the locations of historic releases of contaminants at the disposal site, and the hydrodynamics of the Mystic River and the water-side area. The head of the bay is well integrated with the upland property, where releases historically occurred. The mouth of the bay and the southwest shoal area are more exposed to wave action and the flow of the Mystic River. For these reasons, sediment conditions in the head of the bay are more apt to reflect releases at the Site compared to the more southerly portions of the study area. Because of the long history of releases at the upland property, historic dredging in the water-side, and the subsequent accretion of sediments, the most highly impacted areas would be expected to

have high contaminant concentrations through much of the sediment depth profile. Within the head of the bay, there is a discernible pattern of arsenic, lead and mercury concentrations being markedly higher in the 0.5' to 2' and 2' to 4' depth intervals than in the surficial (0' to 0.5') sediment. That pattern is less pronounced at the mouth of the bay and in the southwest shoal area (i.e., the deeper concentrations are less frequently higher than the surficial concentrations, and the magnitude of the differences in surficial and deeper concentrations are smaller).

In order to further assess the impact of the elimination of the other frequently detected sediment contaminants from the list of sediment COPECs, we looked at the frequency of detection, average[8] and median values for the upland property soil boring data, and the frequency with which concentrations in sediment exceed the ERMs.

- Total PCBs: PCBs were detected in just 12 % of the 1,719 soil samples analyzed (Table 7), and the average and median concentrations were 2.84 and 0.732 mg/kg, respectively. Given that the extent of PCB contamination in the upland property appears to be limited, and that overall concentrations are low, it is unlikely that the upland property contributed a sufficient mass of PCBs to the study area to result in the concentrations detected in sediment. Furthermore, there is a MassDEP fish advisory for PCBs in the Mystic River upstream of the Amelia Earhart Dam, suggesting that PCBs are a common contaminant in the Mystic River. For these reasons, PCBs are not considered a site-related sediment COPEC.
- DEHP: DEHP was detected in just 7 % of the 1,719 upland soil sample analyses. Three soil samples from one boring (H09) exhibited high DEHP concentrations, which drive the high overall average upland property concentration of 530 mg/kg. If the data from this single boring are removed from the calculation, the average soil concentration is 6.09 mg/kg, which is comparable to the median of 2.06 mg/kg. Given that the high concentrations of DEHP in soil were largely limited to one boring location, the low frequency of detection, the generally low concentrations in soil, and the fact that DEHP concentrations in shallow sediment are not elevated above Local Conditions, DEHP is not considered a sediment COPEC.
- Total PAHs: PAHs were detected in 23 % of the 1,719 upland property soil samples analyzed. Average and median concentrations in soil are comparable to concentrations in sediment, suggesting that releases at the upland property may have contributed to the concentrations detected in sediment. However, only one percent of the total PAH concentrations detected in shallow sediment exceed the ERM. Because total PAH concentrations in sediment are generally low, and the on-Site concentrations are not significantly higher than Local Conditions, PAHs are not considered a COPEC in sediment.
- Total EPH: Only limited analyses for EPH fractions have been conducted on the upland property; however, TPH analyses were performed for soil, and those data were used as a substitute for evaluating the upland property as a potential source of EPH fractions in sediment. TPH was detected in 43 % of the 1,719 soil samples analyzed, and average and median concentrations are comparable to those detected in the shallow on-Site samples, but substantially lower than those

[8] The upland soil averages were calculated using one-half of the laboratory reporting limits to represent samples with non-detect results.

values for the deeper sediment intervals. Based on these soil data, it is likely that upland releases contributed to EPH fractions detected in the sediment of the study area. However, given that sources of petroleum to industrialized, urban waterways such as the Mystic River are ubiquitous, and that total EPH concentrations in shallow sediment are not significantly elevated above Local Conditions, total EPH is not considered a COPEC in sediment.

- Barium: Barium was detected at high frequencies in upland property soil samples, and at concentrations comparable to those detected in sediment. There is not an ERM available for barium; however, this metal is generally recognized as having low toxicity in sediment. For this reason, and because on-Site concentrations of barium are not elevated above Local Conditions, barium is not considered a COPEC in sediment.
- Beryllium: Beryllium was not analyzed in upland property soils. It was detected in all of the on-Site shallow sediment samples but at low concentrations; an ERM is not available for beryllium. Because the on-Site concentrations of beryllium in sediments are not elevated above Local Conditions concentrations, it was not included as a COPEC in sediment.
- Cadmium: Cadmium was detected in 15 % of the 1,719 soil samples analyzed for the upland property. The reported concentrations (average of 1.59 mg/kg and median of 2.94 mg/kg) were low, and were comparable to those detected in shallow sediments. None of the detected concentrations in shallow sediment samples exceeded the ERM, and on-Site concentrations are not significantly elevated above Local Conditions. Accordingly, cadmium was not considered a COPEC in sediment
- Chromium: Chromium was detected in nearly all of the 1,719 soil samples analyzed for the upland property, but concentrations were low (average of 27.4 mg/kg and median of 22.3 mg/kg). Concentrations detected in shallow sediments were also low; none of the detected concentrations in shallow on-Site samples exceeded the ERM. Based on the above considerations, and on the fact that the on-Site concentrations in shallow sediment are not significantly elevated above background, chromium was not included as a COPEC in sediment.
- Nickel: Nickel was not analyzed for in upland soils. It was detected in all of the shallow on-Site sediment samples but at low concentrations; only one percent of the shallow on-Site samples had nickel concentrations that exceeded the ERM. Nickel was not considered a COPEC in shallow sediment given the above considerations, and because the on-Site concentrations in shallow sediment are not significantly elevated above background.
- Vanadium: Vanadium was not analyzed for in upland property soils; it was detected in all of the on-Site shallow sediment samples. An ERM is not available for vanadium, and aquatic toxicity information is generally lacking. Inferential statistical tests for vanadium indicate that on-Site concentrations are not elevated relative to Local Conditions, and this is borne out by comparing on-Site and Local Conditions vanadium summary statistics. The Local Conditions maximum concentration is 484 mg/kg, compared to a maximum on-Site of 354 mg/kg, and the Local Conditions average and median concentrations are both substantially higher than for on-Site. Based on these considerations, vanadium was not included as a COPEC in sediment.
- Zinc: Zinc was not analyzed for in upland property soils. It was detected in all of the shallow on-Site sediment samples but at relatively low concentrations;

only 14 percent of the shallow on-Site samples exceeded the ERM. Zinc was not considered a COPEC in sediment given the above considerations, and because the on-Site concentrations in shallow sediment are not significantly elevated above background.

- Copper: For the 2005 to 2007 data set, copper was analyzed in just two water-side sediment samples; detected concentrations were 210 and 520 mg/kg in samples SED-3 and SED-10, respectively, collected by Menzie-Cura. Since Menzie-Cura did not analyze copper in the Mystic River reference samples, copper was conservatively included as a contaminant of concern due to the absence of background information. Although GZA did not analyze study area or Local Conditions samples for copper, Breault, Durant, and Robbat (2005) conducted extensive sediment sampling and chemical analyzes in the Upper and Lower Mystic River, Chelsea River and Boston Inner Harbor. Reported copper concentrations were nearly always greater than 100 mg/kg, and concentrations in the range of 210 to 520 mg/kg were common. Based on this data, it is unlikely that copper is a disposal site-related sediment COPEC in the water-side site. Furthermore, since copper has a very high affinity to bind with sulfides (which are likely present in high concentrations in the anaerobic sediment of the Mystic River) and organic carbon, the copper in the Mystic River sediments is not likely to be bioavailable and thus presents a low potential for risk of harm to benthic invertebrates.

4.2 RISK-BASED CLEAN-UP GOALS

Risk-based clean-up goals were developed based on the results of the whole sediment toxicity tests using *L. plumulosus* as discussed in Section 3.2.4.

Clean-up goals were established for arsenic, lead and mercury, which are the three sediment contaminants with concentrations significantly elevated above Local Conditions within the on-Site area, and which are the three contaminants most likely to be related to releases at the upland property. Clean-up goals for these metals were Apparent Effects Thresholds (AET), which are the highest concentrations of each metal among samples that did not exhibit significant toxicity compared to the Local Conditions samples (NJDEP, 2015, Gries and Waldo, 1996).

The bar graphs presented in Figures 6A, 6B, and 6C show concentrations of arsenic, lead, and mercury, respectively, in the 2013 and 2015 toxicity test samples (including the Local Conditions samples). Those figures also indicate the three study area samples that did not result in toxicity to *L. plumulosus* (GZ-203, GZ-209, and GZ-223). The highest concentrations of these metals among the three non-toxic sediment samples were arsenic at 38.6 mg/kg, lead at 250 mg/kg, and mercury at 1.03 mg/kg. These concentrations were set as clean-up goals for remediation of on-Site sediments to eliminate potentially significant risks to exposed benthic invertebrates.

GZA prepared plans depicting concentrations of arsenic, lead and mercury to look for spatial patterns in concentrations of these contaminants in shallow samples (Figures 4A, 4B, and 4C). The surficial depth intervals are also highlighted on Figures 4A, 4B and 4C if the detected concentrations exceed sediment clean-up goals developed from the sediment toxicity tests. Section 5.0 below discusses the delineation of the portion of the water-side site that needs to be remediated in order to eliminate risk to environmental receptors.

5.0 DELINEATION OF THE AREA REQUIRING REMEDIATION TO ATTAIN A PERMANENT SOLUTION

The following sections discuss the depth and extent of sediment remediation which would be necessary to achieve a Permanent Solution, as defined by the MCP, for the water-side site. While the specific remedial approach will be developed as part of the Supplemental Phase III report, which will be submitted by June 2016, GZA's preliminary evaluation of remedial options has concluded that the selected remedial option will likely involve some form of dredging to remove the upper layer of contaminated sediment, and replacing that sediment with clean sand. That conceptual alternative is implicit in the following discussion.

5.1 HORIZONTAL EXTENT OF REMEDIATION

Figures 4A, 4B and 4C highlight locations where concentrations of arsenic, lead or mercury, respectively, exceed the clean-up goals for surficial samples. All such samples are within the on-Site portion of the water-side site as developed in Section 4.1 above.

Figure 7 compiles the exceedances of arsenic, lead and mercury in surficial samples at each sample location, showing which samples represent sediments with concentrations exceeding the goal for any of these metals. Based on the spatial pattern of samples with one or more of the target metals above clean-up goals, approximately 6.82 acres of the 8.44-acre water-side site would need to be remediated to eliminate risk to benthic invertebrates. The landward limit of the area to be dredged is the same as for the water-side site limit in most areas (i.e., the MHW line). However, the remediation line is slightly seaward of the water-side site limit along the eastern and northern shores at the head of the bay. The dredge limit in those areas is seaward of a bulkhead and area of rip-rap armoring to be constructed as part of the navigational channel portion of the project, and the dredging of sediment behind the proposed bulkhead and beneath the proposed rip rap has already been permitted as part of that project. Therefore the dredge volume in those areas has been accounted for by that permitting effort; the limit of dredging for the purpose of the MCP was drawn along the seaward edge of that work to avoid double counting that area and volume of dredging. Some stretches of shore line within the head of the bay have steep slopes comprised of rock, hard rubble or existing bulkheads; the limit of dredging was drawn along the 0-foot contour in those areas, because the upper tidal area is comprised of hard habitat rather than soft sediment. Invertebrates living on hard substrates will not be exposed to contaminants in the soft sediments which were the subject of this assessment.

Two portions of the on-Site area would not need to be remediated. These areas are represented by sample locations GZ-207, GZ-208, and GZ-209 on the eastern slope of the channel, and sample locations GZ-221, GZ-222, and GZ-223 near the eastern shore of the head of the bay.

5.2 DEPTH OF REMEDIATION

Many species of benthic invertebrates live and feed in burrows in the sediment; such benthic species are referred to as sediment infauna. As discussed above, the depth of burrowing by benthic infauna in the sub-tidal portions of the Mystic River is limited to the surficial 2 to 5 cm, likely due to the fine sediment texture and anaerobic conditions at the sediment-water

interface. Therefore, potential exposure and risk to benthic invertebrates is primarily associated with the surficial sediment. The primary goals of the remedial program will be to provide clean substrate suitable as habitat for benthic organisms, and to physically isolate the residual contaminants in deeper sediments.

Construction and maintenance infauna burrows results in both vertical and horizontal mixing of sediment particles; this process is referred to as "bioturbation." The future remedial approach will need to address the full thickness of the bioturbation zone.

Limiting the degree of burrowing through the clean sand backfill can be accomplished by providing a thickness of clean material that is greater than the burrowing depth of most species likely to be found in the Mystic River. The U.S. Army Corps of Engineers, Dredging Operations and Environmental Research Program (DOER) (Clarke, Palermo and Sturgis, 2001) provides guidance for subaqueous cap thickness considerations to limit bioturbation of the contaminated sediment below the backfill. In coastal marine waters, DOER guidance recommends a thickness to accommodate a surficial layer of 10 cm that is often found to be intensively mixed, and an additional 10 to 35 cm to accommodate a mid-depth bioturbation zone, for a total thickness of 20 to 45 cm (0.66 to 1.5 feet). This guidance notes that the use of caps in the lower range of the 20 to 45 cm thickness should be supported by sufficient knowledge of the local infaunal community. This may also be accomplished by incorporating a physical barrier to burrowing in the bottom layers of the cap (e.g., gravel or stone layer, or geotextile fabric).

As discussed in Section 2.3.2, the U.S. Army Corps DAMOS program has found that the sediment infaunal community of sub-tidal sediment within the Mystic River is in a "state of perpetual early succession," and that burrowing depths average only about 2.6 cm bss, with maximum observed burrowing depth of 5 cm. DAMOS attributes the poor condition of the sediment infaunal community to a consistently stressed environment due to high organic loading and periods of low dissolved oxygen in bottom water, and the frequent physical disturbance inherent to a working harbor. For the sub-tidal portions of the proposed remediation area, the poor condition of the benthic community of the Mystic River and the shallow depths of infaunal burrowing support the use of a thickness of clean backfill at the lower end of the recommended 20 to 45 cm thickness.

Approximately 41% (2.83 acres) of the dredge area lies within the inter-tidal zone. Replacing the existing contaminated sediment of the inter-tidal zone with clean sediment material is more likely to improve environmental conditions and foster a healthy infaunal community than providing a clean backfill layer in sub-tidal areas of the Mystic River. This is largely due to the fact that the inter-tidal zone is less likely to become anaerobic. The inter-tidal area is, by definition, near the water surface, subject to wave action, and exposed to the air on a daily (or near daily) basis.

Because the inter-tidal area represents a more promising opportunity for developing a healthy infaunal community, GZA recommends a clean backfill thickness that is adequate to accommodate the burrowing depth of the majority of infauna that may be expected to use the area. Burrowing depths of common infaunal species that are expected to use the inter-tidal areas include:

- Soft-Shell Clam (*Mya arenaria*): Soft-shell clams have been described as having siphons long enough to allow them to live 20 to 35 cm bss

(http://www.wallawalla.edu/academics/departments/biology/rosario/inverts/Mollusca/Bivalvia/Myoida/Myidae/Mya_arenaria.html), and a large specimen was described as having a siphon long enough to reach the sediment surface from 20 cm bss (Newell and Hidu, 1986). Thomson (2011) studied changes in soft-shell clam burrowing depths in response to the presence of a predator (green crabs, *Carcinus meanas*). Thompson found that on average soft-shell clams would burrow slightly deeper in the presence of green crabs to depths of about 14.5 cm in mud or sand, and to about 13.5 cm in gravel.

- Atlantic Razor Clam (*Ensis directus*): Atlantic razor clams prefer unstable clean fine sand with small amounts of silt, and generally burrow to 3 to 18 cm, although oxidized layers have been observed to depths of 30 cm in colonized sediments (Ovcharenko, Olenin and Gollasch [http://www.europe-aliens.org/pdf/Ensis_americanus.pdf]). However, Atlantic razor clams have been cited as burrowing as deep as 70 cm (2.3 feet) bss (Winter and Hosoi, 2011).
- Sand worms (*Nereis virens*): Sand worms burrow from 7 to 45 cm bss; in soft sediment, commercial diggers typically strip the surficial 13 cm, and then dig down to 38 cm to capture the larger commercially valuable individuals.
- Blood worms (*Glycera dibranchiata*): Commercial diggers dig as deep as 25 cm to capture commercially valuable individuals of blood worms (Creaser et al., 1983).

Based on the expected depths of infaunal burrowing discussed above, the upper limit of the maximum DAMOS recommended cap depth of 45 cm would accommodate most of the burrowing that may be expected in the inter-tidal area. However, 45 cm is just at, or only slightly deeper than, the upper end of the range of burrowing depths cited for soft-shell clams and sand worms, and is just 65% of the upper end of the range of depths cited for Atlantic razor clams (70 cm). In addition, there are certain areas of the inter-tidal portion of the remediation area where the excavated sub-grade sediments will contain arsenic, lead or mercury concentrations well above the clean-up goals. For these reasons, GZA recommends a remediation depth on the order of 2 feet (60 cm) within the inter-tidal portions of the dredge area.

6.0 HUMAN HEALTH

The potential for human exposure to water-side site sediments is considered low. Under current conditions, access to the inter-tidal portions of the disposal site is limited by access impediments to the adjacent properties, so that human contact with inter-tidal sediment would be by trespassing or via boat access. A similar situation is expected to exist under future conditions, as the planned development does not include direct access to the inter-tidal area. Because of poor water quality and poor aesthetic quality, exposure to inter-tidal sediment via wading, or to sub-tidal sediment via swimming, would be considered an uncommon occurrence. Finally, shell fishing on, or in the vicinity of, the disposal site is currently prohibited, and will likely be prohibited for the foreseeable future.

Furthermore, the remediation of the water-side site will eliminate potential human exposure to the sediments with the highest contaminant concentrations.

Notwithstanding the low exposure potential, GZA performed screening-level risk calculations for trespasser exposure to the inter-tidal sediment of the water-side site under current conditions. These calculations, presented in Appendix J, used the maximum detected contaminant concentrations in shallow sediment samples collected from wadable

(above -5 feet NAVD88) portions of the water-side site, and assumed that trespassers would access the inter-tidal sediment during 31 events per year (once per week from April through mid-November). Even with these conservative assumptions, the calculated risk estimates for trespassers did not exceed MCP risk limits; the non-cancer Hazard Index (HI) was 0.4 (the MCP risk limit is 1), while the Estimated Lifetime Cancer Risk (ELCR) was $1x10^{-5}$ (which is the MCP risk), with arsenic and lead as the drivers of the calculated risks. Given the conservative assumptions used for the risk screening, it is GZA's opinion that even under current conditions the sediments do not represent a significant risk to human health.



It is GZA's opinion that the potential exposure of humans to water-side site contaminants via consumption of fish is also de minimis. Game fish that may be found within the water-side site and Lower Mystic River are transient, and are likely to be present for relatively short periods. Furthermore, the currently degraded environmental conditions of the Lower Mystic River result in a perpetual early successional benthic community consisting of low abundances of small individuals of opportunistic species. Such a community provides poor feeding grounds for epibenthic species (including bottom feeding fish). These factors likely further reduce typical residence time for game fish at the water-side site.

Furthermore, most of the water-side site will be remediated such that exposure of benthic species to disposal site contaminants will be greatly reduced or eliminated. This will further reduce or eliminate the potential for game fish to bioaccumulate contaminants from the water-side site.

7.0 SUBSTANTIAL HAZARD EVALUATION

Conditions at the water-side site were evaluated as to whether they present a potential Substantial Hazard under the MCP (310 CMR 40.0956(2)). The MCP states that a condition of No Substantial Hazard to the Environment would exist if steps have been taken to eliminate or mitigate any of the following conditions affecting an environmental resource at a site:

(a) Evidence of stressed biota attributable to the release at the disposal site, including, without limitation, fish and wildlife kills or abiotic conditions;
(b) The visible presence of oil, tar or other non-aqueous phase hazardous material in soil within three feet of the ground surface over an area equal to or greater than two acres, or over an area equal to or greater than 1000 square feet within one foot of the sediment surface;
(c) Continuing discharge of contaminated groundwater to surface water where the levels of the oil or hazardous material attributable to the release already exceed Massachusetts Surface Water Standards;
(d) Continuing discharge of contaminated groundwater to surface water where surface water and/or sediment concentrations of oil and/or hazardous material attributable to the release already pose a significant risk;
(e) Migration of oil or hazardous material to additional environmental media or resource area where resultant exposures would have the potential to pose a significant risk of harm in the future; or
(f) Ecological risk of harm such that recovery would be substantially more difficult or would require more time if conditions were to remain unremediated for even a short period of time.

Arsenic detected in groundwater seep sample SWS-3 exceeded the MSWS, but the arsenic concentration in the adjacent surface water sample SW-3 was below the MSWS. Therefore, condition 310 CMR 40.0956(2)(c) above does not appear to be present at the Site. Furthermore, the high concentration of arsenic in seep sample SWS-3 appears to be related to the adjacent Low pH Area in the upland property, which will be remediated as part of the upland clean-up. Therefore, discharge of groundwater seeps with high arsenic concentrations will be eliminated.

None of the other Substantial Hazard conditions listed above are present at the water-side site.

8.0 CONCLUSION

GZA has developed additional data on surface water and sediment contaminant levels for the water-side portion of the Former Everett Staging Yard disposal site. Based on an analysis of this data, GZA has identified the portion of the water-side site which will require remediation in order to achieve a Permanent Solution. The remedial alternative for achieving a Permanent Solution will be presented in a Supplemental Phase III Report for the Site to be submitted by June, 2016.

GZA performed a Substantial Hazard Evaluation for the on-Site portion of the water-side in accordance with the MCP at 310 CMR 40.0956(2). A condition of Substantial Hazard is not present within the water-side site.

This Supplemental Phase II Report will be submitted electronically through MassDEP's eDEP online filing system. A copy of the Comprehensive Response Action Transmittal Form (BWSC-108) is included in Appendix K.

Public involvement activities have been conducted in accordance with 310 CMR 40.1403(3)(d) and 40.1406(1). Copies of the notices are included as Appendix L.

The Disposal Site has been designated as a Public Involvement Plan (PIP) Site in accordance with Section 40.1404 of the MCP. This Supplemental Phase II Report may be revised based on comments received through the PIP process.

9.0 REFERENCES

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TABLES

TABLE 1
SURFACE WATER AND GROUNDWATER SEEP FIELD MEASUREMENTS
Wynn Resort Casino
Everett, Massachusetts

	Surface Water				Ground Water Seeps	
Sample ID	SW-3-05-21-15	SW-6-05-21-15	SW-10-05-22-15	SW-11-05-22-15	SWS-3-05-21-15	SWS-6-05-21-15
Sample Date	05/21/2015	05/21/2015	05/22/2015	05/22/2015	05/21/2015	05/21/2015
pH	6.76	8.35	8.1	8.3	5.95	7.15
Temperature (°C)	14.6	20.3	15.2	15.1	15.6	17.8
Conductivity (µS)	OR	OR	OR	OR	16.04	OR
Dissolved Oxygen (percent)	74.8	94.7	96	124	10.2	7.3
Turbidity (NTU)	14	6.79	14.5	11	3.88	8.2

Notes:
1. Field parameter collected by GZA personnel in the field using a YSI D.O. Meter on May 21 and 22, 2015.
2. "OR" = over range

TABLE 2A
SURFACE WATER AND GROUNDWATER SEEP SEMI-VOLATILE ORGANIC COMPOUND RESULTS
Wynn Resort Casino
Everett, Massachusetts

		Surface Water Samples				Surface Water Seep Samples	
Sample ID Sample Date Analyte	Water Quality Benchmarks	SW-10-05-22-15 05/22/2015	SW-11-05-22-15 05/22/2015	SW-3-05-21-15 05/21/2015	SW-6-05-21-15 05/21/2015	SWS-3-05-21-15 05/21/2015	SWS-6-05-21-15 05/21/2015
Semi-Volatile Organic Compounds							
1,2,4-Trichlorobenzene	5.4	<9.3	<10.3	<9.3	<9.3	<9.3	<9.3
1,2-Dichlorobenzene	42	<9.3	<10.3	<9.3	<9.3	<9.3	<9.3
1,3-Dichlorobenzene	NA	<9.3	<10.3	<9.3	<9.3	<9.3	<9.3
1,4-Dichlorobenzene	129	<9.3	<10.3	<9.3	<9.3	<9.3	<9.3
2,4,5-Trichlorophenol	11	<9.3	<10.3	<9.3	<9.3	<9.3	<9.3
2,4,6-Trichlorophenol	NA	<9.3	<10.3	<9.3	<9.3	<9.3	<9.3
2,4-Dichlorophenol	NA	<9.3	<10.3	<9.3	<9.3	<9.3	<9.3
2,4-Dimethylphenol	NA	<46.7	<51.5	<46.7	<46.7	<46.7	<46.7
2,4-Dinitrophenol	NA	<46.7	<51.5	<46.7	<46.7	<46.7	<46.7
2,4-Dinitrotoluene	370	<9.3	<10.3	<9.3	<9.3	<9.3	<9.3
2,6-Dinitrotoluene	NA	<9.3	<10.3	<9.3	<9.3	<9.3	<9.3
2-Chloronaphthalene	NA	<9.3	<10.3	<9.3	<9.3	<9.3	<9.3
2-Chlorophenol	NA	<9.3	<10.3	<9.3	<9.3	<9.3	<9.3
2-Methylphenol	NA	<9.3	<10.3	<9.3	<9.3	<9.3	<9.3
2-Nitrophenol	NA	<9.3	<10.3	<9.3	<9.3	<9.3	<9.3
3,3´-Dichlorobenzidine	NA	<18.7	<20.6	<18.7	<18.7	<18.7	<18.7
3+4-Methylphenol	NA	<18.7	<20.6	<18.7	<18.7	<18.7	<18.7
4-Bromophenyl-phenylether	NA	<9.3	<10.3	<9.3	<9.3	<9.3	<9.3
4-Chloroaniline	129	<18.7	<20.6	<18.7	<18.7	<18.7	<18.7
4-Nitrophenol	NA	<46.7	<51.5	<46.7	<46.7	<46.7	<46.7
Acetophenone	NA	<9.3	<10.3	<9.3	<9.3	<9.3	<9.3
Aniline	NA	<9.3	<10.3	<9.3	<9.3	<9.3	<9.3
Azobenzene	NA	<18.7	<20.6	<18.7	<18.7	<18.7	<18.7
bis(2-Chloroethoxy)methane	6,400	<9.3	<10.3	<9.3	<9.3	<9.3	<9.3
bis(2-Chloroethyl)ether	NA	<9.3	<10.3	<9.3	<9.3	<9.3	<9.3
bis(2-chloroisopropyl)Ether	NA	<9.3	<10.3	<9.3	<9.3	<9.3	<9.3
bis(2-Ethylhexyl)phthalate	360	<5.6	<6.2	<5.6	**6**	<5.6	<5.6
Butylbenzylphthalate	3.4	<9.3	<10.3	<9.3	<9.3	<9.3	<9.3
Dibenzofuran	NA	<9.3	<10.3	<9.3	<9.3	<9.3	<9.3
Diethylphthalate	3.4	<9.3	<10.3	<9.3	<9.3	<9.3	<9.3
Dimethylphthalate	3.4	<9.3	<10.3	<9.3	<9.3	<9.3	<9.3
Di-n-butylphthalate	3.4	<9.3	<10.3	<9.3	<9.3	<9.3	<9.3
Di-n-octylphthalate	3.4	<9.3	<10.3	<9.3	<9.3	<9.3	<9.3
Hexachlorobutadiene	3.2	<9.3	<10.3	<9.3	<9.3	<9.3	<9.3
Hexachloroethane	94	<4.7	<5.2	<4.7	<4.7	<4.7	<4.7
Isophorone	1290	<9.3	<10.3	<9.3	<9.3	<9.3	<9.3
Nitrobenzene	668	<9.3	<10.3	<9.3	<9.3	<9.3	<9.3
N-Nitrosodimethylamine	NA	<9.3	<10.3	<9.3	<9.3	<9.3	<9.3
Phenol	400	<9.3	<10.3	<9.3	<9.3	<9.3	<9.3
Polycyclic Aromatic Hydrocarbons (SIM)							
2-Methylnaphthalene	72.16	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19
Acenaphthene	55.85	<0.19	<0.19	<0.19	<0.19	0.21	<0.19
Acenaphthylene	306.9	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19
Anthracene	20.73	<0.19	<0.19	<0.19	<0.19	0.2	<0.19
Benzo(a)anthracene	2.227	<0.05	<0.05	<0.05	**0.14**	0.05	<0.05
Benzo(a)pyrene	0.9573	<0.05	<0.05	<0.05	**0.18**	<0.05	<0.05
Benzo(b)fluoranthene	0.6774	<0.05	<0.05	<0.05	**0.28**	0.06	<0.05
Benzo(g,h,i)perylene	0.4391	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19
Benzo(k)fluoranthene	0.6415	<0.05	<0.05	<0.05	**0.1**	<0.05	<0.05
Chrysene	2.042	<0.05	<0.05	<0.05	**0.2**	0.06	<0.05
Dibenzo(a,h)Anthracene	0.2825	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Fluoranthene	7.109	<0.19	<0.19	<0.19	**0.33**	0.44	<0.19
Fluorene	39.3	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19
Hexachlorobenzene	NA	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19
Indeno(1,2,3-cd)Pyrene	0.275	<0.05	<0.05	<0.05	**0.17**	<0.05	<0.05
Naphthalene	193.5	<0.19	<0.19	<0.19	<0.19	0.42	<0.19
Pentachlorophenol	NA	<0.85	<0.84	<0.84	<0.84	<0.84	<0.84
Phenanthrene	19.13	<0.19	<0.19	<0.19	<0.19	0.27	<0.19
Pyrene	10.11	<0.19	<0.19	<0.19	**0.28**	0.29	<0.19

Notes:
1. Results are presented in µg/L unless otherwise noted
2. "<" indicates that an analyte was tested for but not detected above the Reporting Limit (RL).
3. Water Quality Benchmarks for semi-volatile organic compound list are from the National Oceanic and Atmospheric Association Screening Quick Reference Tables; 2013. The chronic concentration values for salt water is listed. (http://response.restoration.noaa.gov/sites/default/files/SQuiRTs.pdf)
4. Water Quality Benchmarks for polycyclic aromatic hydrocarbon list are Final Chronic Values (FCVs) used to develop equlibrium partitioning benchmarks for PAHs in sediment. These FCVs were developed by the U.S. EPA, and are presented in Procedures for the Derivation of Equilibrum Partitioning Sediment Benchmarks (ESBs) for the Proection of Benthic Organisms: PAH Mixtures, EPA-600-R-02-013. November, 2003.

TABLE 2B

SURFACE WATER AND GROUNDWATER SEEP METALS AND EXTRACTABLE PETROLEUM HYDROCARBON RESULTS

Wynn Resort Casino

Everett, Massachusetts

			Surface Water Samples				Groundwater Seep Samples	
Sample ID Sample Date Analyte	Water Quality Benchmarks		SW-10-05-22-15 05/22/2015	SW-11-05-22-15 05/22/2015	SW-3-05-21-15 05/21/2015	SW-6-05-21-15 05/21/2015	SWS-3-05-21-15 05/21/2015	SWS-6-05-21-15 05/21/2015
Dissolved Metals								
Antimony	500	b	<2.5	<2.5	<5.0	<5.0	<5.0	<5.0
Arsenic	36	a	6.6	<2.5	18.1	<2.5	**348**	6.2
Barium	200	b	<50.0	<25.0	25.1	27.3	<25.0	<25.0
Beryllium	100	b	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Cadmium	8.8	a	<2.5	<2.5	<2.5	<2.5	7.6	<2.5
Chromium	27.4	b	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Hexavalent Chromium	50	a	<10	<10	<10	<10	<10	<10
Lead	8.1	a	<25.0	<25.0	<10.0	<10.0	<10.0	<10.0
Mercury	0.94	a	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Nickel	8.2	a	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Selenium	71	a	<5.0	<5.0	<10.0	<10.0	<10.0	<10.0
Silver	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Thallium	17	b	<8.0	<10.0	<3.0	<3.0	<3.0	<4.0
Vanadium	50	b	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Zinc	81	a	30.8	<25.0	<25.0	26.6	<25.0	30.9
Extractable Petroleum Hydrocarbons (EPH)								
C11-C22 Aromatics1,2	2.8	c	<93.5	<94.3	<93.5	<95.2	**122**	<93.5
C19-C36 Aliphatics1	0.0001	c'	<93	<94	<93	**134**	<93	<93
C9-C18 Aliphatics1	0.04	c	<93	<94	<93	<95	<93	<93

Notes:

1. Results are presented in µg/L unless otherwise noted
2. "<" indicates that an analyte was tested for but not detected above the Reporting Limit (RL).
3. Marine water benchmarks are from the following sources:
   a. US EPA National Recommended Water Quality Criteria; 2015. The criterion continuous concentration (CCC) for salt water is listed. (http://www.epa.gov/waterscience/criteria/). These valuses have been adopted by MassDEP as Massachusetts Water Quality Standards.
   b. Nation Oceanic and Atmospheric Administration (NOAA) Screening Quick Reference Tables; 2013. The chronic concentration for salt water is listed.(http://response.restoration.noaa.gov/sites/default/files/SQuiRTs.pdf)
   c. Final Chronic Values (FCVs) for surface water exposures developed by Battelle on behalf of MassDEP, presented in "Sediment Tocicity of Petroleum Hydrocarbon Fractions" 2007, and available at: http://www.mass.gov/eea/docs/dep/cleanup/laws/tphbat.pdf
   c'. Battelle notes that the C19-C36 Aliphatic fraction is likely NOT toxic because the LC50 (concentration that causes mortality of 50 percent of exposed organisms) is higher than the aqueous solubility. (For such chemicals, toxicity tests are performed with co-solvents.)
4. Bolded values indicate an exceedance of the Water Quality Benchmark concentration for the specific analyte.

Table 3A
SEDIMENT METALS AND TOTAL ORGANIC CARBON RESULTS

Wynn Resort Casino
Everett, Massachusetts

Sample ID	Marine Sediment Benchmarks		GZ-101 0-0_5ft	GZ-101 2-4ft	GZ-101 4-6ft	GZ-101 8-9ft	GZ-102 2-4ft	GZ-102 4-6ft	GZ-102 6-8ft	GZ-102 8-10ft	GZ-103 2-4ft	GZ-103 4-6ft	GZ-103 6-7ft	GZ-104 2-4ft
Date Sampled			08/01/2013	08/01/2013	08/01/2013	08/01/2013	08/01/2013	08/01/2013	08/01/2013	08/01/2013	08/01/2013	08/01/2013	08/01/2013	08/06/2013
Depth (ft)			0-0.5	2-4	4-6	8-9	2-4	4-6	6-8	8-10	2-4	4-6	6-7	2-4
Type			Shallow	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep
Group			ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON
Analyte	ERLs	ERMs												
Total Organic Carbo	NA	NA	59200	37800	45300	48000	75700	-	19700	-	50700	24600	50600	49100
Total Metals														
Antimony	NA	9.3 b	<2.4	<2.3	<3.1	<3.8	<3.0	<2.7	2.9	<3.9	<3.8	<1.2	<3.2	<2.6
Arsenic	8.2 a	70 a	**48.2**	**77.3**	**65.4**	**30.3**	**82.4**	**37.6**	**9.1**	**76.6**	**146**	**26.2**	**59.4**	**78.7**
Barium	NA	48 b	50.2	79.4	67.8	133	79.5	90.1	50	58	89.4	22.6	66.1	67.2
Beryllium	NA	NA	0.48	0.66	0.49	0.72	0.95	0.26	0.18	0.4	0.94	0.23	0.47	0.67
Cadmium	1.2 a	9.6 a	**1.9**	**4**	**1.66**	**4.91**	**4.57**	0.99	<0.53	**1.39**	**4.66**	0.61	**1.51**	**2.51**
Chromium	81 a	370 a	50.9	70.7	**93.5**	**183**	**85.4**	**97.8**	66.4	**115**	**157**	44.4	**116**	**82**
Lead	47 a	218 a	**280**	**435**	**257**	**710**	**486**	**215**	**226**	**251**	**495**	**65.6**	**238**	**439**
Mercury	0.15 a	0.71 a	**1.2**	**4.04**	**2.33**	**5.21**	**1.86**	**2.97**	**1.28**	**3.14**	**3.3**	**0.509**	**1.62**	**2.99**
Nickel	21 a	52 a	17.3	**28.5**	14.2	20.7	**30.5**	9.9	4	10.2	**33.8**	6.6	10	**25.4**
Selenium	NA	1 b	2.74	4.95	<3.13	5.57	6.32	3.03	<2.63	<3.89	6.6	<1.24	<3.17	7.55
Silver	1 a	3.7 a	**1.47**	**2.66**	**2.84**	**5.14**	**2.56**	**4.95**	**1.12**	**2.73**	**4.54**	0.67	**1.74**	**2.52**
Thallium	NA	NA	<2.40	<2.31	<3.13	<3.77	<3.01	<2.74	<2.63	<3.89	<3.75	<1.24	<3.17	<2.62
Vanadium	NA	57 b	63.7	151	124	192	153	122	82.3	169	244	52.3	123	120
Zinc	150 a	410 a	**364**	**506**	**193**	**833**	**612**	104	40.4	**153**	**575**	64.3	**160**	**414**

Table 3A
SEDIMENT METALS AND TOTAL ORGANIC CARBON RESULTS

Wynn Resort Casino
Everett, Massachusetts

Sample ID	Marine Sediment Benchmarks		GZ-104 4-6ft	GZ-104 6-8ft	GZ-104T 0-0_5ft	GZ-105 2-4ft	GZ-105 4-6ft	GZ-105 6-9ft	GZ-106 2-4ft	GZ-106 4-6ft	GZ-106 6-9ft	GZ-107 0-0_5ft	GZ-107 2-4ft	GZ-108 2-4ft
Date Sampled			08/01/2013	08/01/2013	08/06/2013	08/01/2013	08/01/2013	08/01/2013	08/01/2013	08/01/2013	08/01/2013	08/01/2013	08/01/2013	08/01/2013
Depth (ft)			4-6	6-8	0-0.5	2-4	4-6	6-9	2-4	4-6	6-9	0-0.5	2-4	2-4
Type			Deep	Deep	Shallow	Deep	Deep	Deep	Deep	Deep	Deep	Shallow	Deep	Deep
Group			ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON
Analyte	ERLs	ERMs												
Total Organic Carbo	NA	NA	21600	30500	45700	-	33700	49400	19400	51100	42400	-	19000	55600
Total Metals														
Antimony	NA	9.3 b	<1.3	<1.3	<4.5	<2.5	<2.2	<3.9	<2.8	<3.7	<3.3	<2.8	<4.4	<3.3
Arsenic	8.2 a	70 a	1.9	2.9	**182**	**110**	**93**	**204**	**87.5**	**108**	**39.5**	**33.4**	**117**	**86.9**
Barium	NA	48 b	9.9	17.2	190	64.6	63.5	55.7	64.9	40.2	50.4	46.4	121	59.1
Beryllium	NA	NA	0.2	0.33	1.5	0.62	0.61	0.56	0.91	0.53	0.57	0.5	0.81	0.81
Cadmium	1.2 a	9.6 a	<0.26	0.31	**8.98**	**3.17**	**2.68**	**2.45**	**4.28**	**1.79**	**1.25**	**1.51**	**2.53**	**3.71**
Chromium	81 a	370 a	10.1	16.4	**169**	**99.3**	**86.5**	**134**	**132**	**120**	**94.4**	60.6	**135**	**121**
Lead	47 a	218 a	<2.6	3.7	**1070**	**455**	**452**	**289**	**479**	**216**	**158**	**224**	**442**	**363**
Mercury	0.15 a	0.71 a	<0.024	<0.025	**2.51**	**2.57**	**2.1**	**2.22**	**2.18**	**2.13**	**1.34**	**1.12**	**1.7**	**3.42**
Nickel	21 a	52 a	6.3	9.6	**65.9**	**25.9**	**28.9**	14.5	**33.8**	16.1	10.6	18.8	**21.2**	**27.8**
Selenium	NA	1 b	<1.29	<1.31	9.54	8.23	8.29	<3.87	4.8	<3.70	<3.27	3.32	<4.35	4.66
Silver	1 a	3.7 a	<0.26	<0.26	**5.11**	**2.51**	**2.28**	**1.95**	**3.37**	**3.41**	**1.28**	**1.52**	**2.42**	**3.28**
Thallium	NA	NA	<1.29	<1.31	<4.49	<2.49	<2.19	<3.87	<2.85	<3.70	<3.27	<2.80	<4.35	<3.30
Vanadium	NA	57 b	12.9	20.9	354	173	151	135	206	231	101	64.9	182	186
Zinc	150 a	410 a	17.1	26.3	**1230**	**489**	**427**	**275**	**607**	**251**	141	**283**	**374**	**482**

Table 3A
SEDIMENT METALS AND TOTAL ORGANIC CARBON RESULTS

Wynn Resort Casino
Everett, Massachusetts

Sample ID	Marine Sediment Benchmarks		GZ-108 4-6ft	GZ-108 8-10ft	GZ-108T 0-0_5ft	GZ-109 0_5-2_5ft	GZ-109T 0-0_5ft	GZ-110B 0-0_5ft	GZ-110B 2-4ft	GZ-111 0-0_5ft	GZ-111 2-4ft	GZ-111 7-8ft	GZ-112 2-4ft	GZ-112 6-8ft
Date Sampled			08/01/2013	08/01/2013	08/06/2013	08/02/2013	08/06/2013	08/05/2013	08/05/2013	08/01/2013	08/01/2013	08/01/2013	08/01/2013	08/01/2013
Depth (ft)			4-6	8-10	0-0.5	0.5-2.5	0-0.5	0-0.5	2-4	0-0.5	2-4	7-8	2-4	6-8
Type			Deep	Deep	Shallow	Shallow	Shallow	Shallow	Deep	Shallow	Deep	Deep	Deep	Deep
Group			ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON
Analyte	ERLs	ERMs												
Total Organic Carbo	NA	NA	138000	55200	53400	80100	54200	71500	49100	55300	32900	28500	39900	29800
Total Metals														
Antimony	NA	9.3 b	<4.3	<5.2	<4.2	2.5	<2.7	<1.3	<1.6	<2.7	<4.4	<4.3	<3.7	<4.6
Arsenic	8.2 a	70 a	**89.7**	**135**	**51.5**	**229**	**75.7**	**28.5**	2.5	**28.8**	**77.6**	**9.5**	**94.8**	**87.3**
Barium	NA	48 b	51.8	68.4	66.9	40.8	45.9	14.1	16.7	50.5	49.1	38.1	60.9	48
Beryllium	NA	NA	0.71	0.91	0.75	<0.30	0.57	0.19	0.35	0.53	0.52	0.66	0.77	0.94
Cadmium	1.2 a	9.6 a	**2.49**	**4.12**	**2.19**	**1.52**	**1.68**	0.67	0.39	**1.45**	**2.46**	<0.86	**3.45**	**2.73**
Chromium	81 a	370 a	**162**	**168**	**88.2**	24.5	62	19	17.2	63.7	**107**	38.7	**138**	**115**
Lead	47 a	218 a	**257**	**328**	**286**	**394**	**209**	**208**	12.8	**226**	**190**	32.4	**357**	**178**
Mercury	0.15 a	0.71 a	**2.44**	**4.05**	**1.88**	**3.99**	**1.43**	**1.53**	0.09	**1.37**	**1.34**	<0.083	**3.7**	**2.68**
Nickel	21 a	52 a	19.3	18.8	**25.3**	13.5	**22.5**	6.2	10.3	18.9	11.5	20.6	**29.9**	**23.9**
Selenium	NA	1 b	<4.30	<5.25	<4.16	104	5.44	6.23	<1.61	<2.72	<4.44	<4.31	<3.75	<4.58
Silver	1 a	3.7 a	**2.44**	**3.26**	**2.17**	**1.46**	**1.59**	0.32	<0.32	**1.59**	**1.49**	<0.86	**3.5**	**1.69**
Thallium	NA	NA	<4.30	<5.25	<4.16	<1.45	<2.75	<1.25	<1.61	<2.72	<4.44	<4.31	<3.75	<4.58
Vanadium	NA	57 b	183	159	90.6	25	84.5	14.6	23.9	62.4	118	46.7	231	120
Zinc	150 a	410 a	**302**	**439**	**387**	**169**	**279**	**173**	28.8	**279**	**209**	81.6	**469**	**243**

Table 3A
SEDIMENT METALS AND TOTAL ORGANIC CARBON RESULTS

Wynn Resort Casino
Everett, Massachusetts

Sample ID	Marine Sediment Benchmarks		GZ-112T 0-0_5ft	GZ-113 2-4ft	GZ-113 4-6ft	GZ-113T 0-0_5ft	GZ-114 2-5ft	GZ-114 5-7ft	GZ-114T 0-0_5ft	GZ-115 2-5ft	GZ-115 5-7ft	GZ-115T 0-0_5ft	GZ-116 0_5-2ft	GZ-116 2-4ft
Date Sampled			08/06/2013	08/01/2013	08/01/2013	08/06/2013	08/01/2013	08/01/2013	08/06/2013	08/01/2013	08/01/2013	08/06/2013	08/02/2013	08/02/2013
Depth (ft)			0-0.5	2-4	4-6	0-0.5	2-5	5-7	0-0.5	2-5	5-7	0-0.5	0.5-2	2-4
Type			Shallow	Deep	Deep	Shallow	Deep	Deep	Shallow	Deep	Deep	Shallow	Shallow	Deep
Group			ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON
Analyte	ERLs	ERMs												
Total Organic Carbo	NA	NA	9910	31800	44400	73100	25300	39100	35000	21100	56200	42800	40800	117000
Total Metals														
Antimony	NA	9.3 b	<4.0	<1.8	<1.4	<1.8	<3.9	<1.3	<3.1	<3.4	<5.7	<3.5	1.6	<125
Arsenic	8.2 a	70 a	**54.2**	**46.4**	**78.3**	**39.7**	**152**	2.2	**41.4**	**323**	**204**	**45.7**	**249**	**235**
Barium	NA	48 b	63.6	30.8	36	21.9	163	15.4	77.5	34.4	61	77.8	33.9	49.6
Beryllium	NA	NA	0.69	0.33	<0.29	0.29	1.51	0.29	0.82	0.86	0.91	0.82	0.13	<0.05
Cadmium	1.2 a	9.6 a	**2.09**	**1.3**	**1.76**	0.95	**8.49**	0.26	**2.27**	**2.26**	**2.91**	**2.39**	0.85	**5.25**
Chromium	81 a	370 a	**83.7**	37.2	40.8	32.8	**212**	14.2	**94.2**	**172**	**201**	**95**	71.4	18.6
Lead	47 a	218 a	**266**	**187**	**246**	**101**	**667**	3	**288**	**283**	**344**	**281**	**467**	**192**
Mercury	0.15 a	0.71 a	**1.67**	**1.59**	**1.08**	**0.754**	**4.57**	<0.023	**1.15**	**4.19**	**2.51**	**1.26**	**2.7**	**2.52**
Nickel	21 a	52 a	**24.1**	19.7	8.2	15.3	**38.2**	8.7	**27.6**	15.4	17.4	**28**	3.5	8.3
Selenium	NA	1 b	<4.02	2.75	26.8	1.81	11.7	<1.28	3.57	<3.38	<5.74	<3.46	4.36	<125
Silver	1 a	3.7 a	**2.07**	**1.16**	**1.74**	0.91	**4.02**	<0.26	**2.21**	**1.94**	**2.5**	**2.17**	**3.9**	**10.8**
Thallium	NA	NA	<4.02	<1.79	<1.37	<1.78	<3.91	<1.28	<3.09	<3.38	<5.74	<3.46	1.37	<250
Vanadium	NA	57 b	82	171	26.8	52.9	163	18.1	88	297	192	88.6	25	22.5
Zinc	150 a	410 a	**373**	**190**	**187**	147	**956**	24.1	**416**	**342**	**349**	**423**	67.5	**469**

Table 3A
SEDIMENT METALS AND TOTAL ORGANIC CARBON RESULTS

Wynn Resort Casino
Everett, Massachusetts

Sample ID	Marine Sediment Benchmarks		GZ-116 4-6ft	GZ-116 6-8ft	GZ-116 8-9ft	GZ-116T 0-0_5ft	GZ-117 2-4ft	GZ-117 4-6ft	GZ-117T 0-0_5ft	GZ-118A 0_5-1ft	GZ-118A 0-0_5ft	GZ-119 2-4ft	GZ-119T 0-0_5ft	GZ-120 2-4ft
Date Sampled			08/02/2013	08/02/2013	08/02/2013	08/06/2013	08/01/2013	08/01/2013	08/06/2013	08/05/2013	08/05/2013	08/01/2013	08/01/2013	08/02/2013
Depth (ft)			4-6	6-8	8-9	0-0.5	2-4	4-6	0-0.5	0.5-1	0-0.5	2-4	0-0.5	2-4
Type			Deep	Deep	Deep	Shallow	Deep	Deep	Shallow	Shallow	Shallow	Deep	Shallow	Deep
Group	ERLs	ERMs	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON
Analyte														
Total Organic Carbo	NA	NA	-	57100	43200	47200	38400	28600	48400	17000	-	31100	-	-
Total Metals														
Antimony	NA	9.3 b	<1.5	<1.5	<1.5	<1.6	<2.7	<2.9	<3.3	<1.2	<1.3	<4.9	<2.8	<1.4
Arsenic	8.2 a	70 a	4	6.9	2.6	**75.7**	**153**	**112**	**38.6**	**106**	**155**	**93.1**	**33**	**357**
Barium	NA	48 b	21.7	24.1	28.7	32.6	63.2	44.4	74.8	25.2	23.5	66.7	65.4	11.8
Beryllium	NA	NA	0.44	0.41	0.55	0.49	0.9	0.55	0.81	0.29	0.25	0.85	0.7	0.26
Cadmium	1.2 a	9.6 a	0.37	0.42	0.47	1.04	**4.31**	**2.03**	**2.33**	0.46	0.59	**2.35**	**2.23**	0.73
Chromium	81 a	370 a	20.9	20.1	24.3	39.8	**150**	**120**	**90.7**	17.7	15.1	**133**	79.8	13.9
Lead	47 a	218 a	4.3	22	4.5	**116**	**350**	**164**	**245**	**69**	**80.6**	**202**	**213**	9.5
Mercury	0.15 a	0.71 a	<0.023	0.065	<0.023	**0.484**	**2.34**	**2.31**	**1.12**	**0.276**	**0.249**	**1.51**	**1.11**	<0.019
Nickel	21 a	52 a	11.7	10.9	13.8	15.8	**34.6**	20.4	**26.4**	8.6	7.4	17.2	**22.4**	9.5
Selenium	NA	1 b	<1.45	<1.46	<1.50	1.58	<2.68	<2.90	<3.32	<1.24	<1.30	<4.89	<2.82	<1.38
Silver	1 a	3.7 a	<0.29	<0.29	<0.30	0.97	**4.04**	**2.22**	**2.3**	0.57	0.67	**1.63**	**2.03**	<0.28
Thallium	NA	NA	<1.45	<1.46	<1.50	<1.56	<2.68	<2.90	<3.32	<1.24	<1.30	<4.89	<2.82	<1.38
Vanadium	NA	57 b	26.5	24.9	31.7	57.5	307	235	86	34.5	32.8	134	70.5	18
Zinc	150 a	410 a	34.1	52	42	**182**	**531**	**221**	**392**	70.9	73.3	**272**	**369**	**281**

Table 3A
SEDIMENT METALS AND TOTAL ORGANIC CARBON RESULTS

Wynn Resort Casino
Everett, Massachusetts

Sample ID	Marine Sediment Benchmarks		GZ-120T 0-0_5ft	GZ-121 2-4ft	GZ-121 4-6ft	GZ-121T 0-0_5ft	GZ-122 0_5-2ft	GZ-122 2-4ft	GZ-122T 0-0_5ft	GZ-123 0-0_5ft	GZ-123 2-4ft	GZ-123 4-6ft	GZ-124 0-0_5ft	GZ-124 2-4ft
Date Sampled			08/06/2013	08/01/2013	08/01/2013	08/06/2013	08/02/2013	08/02/2013	08/06/2013	08/01/2013	08/01/2013	08/01/2013	08/02/2013	08/02/2013
Depth (ft)			0-0.5	2-4	4-6	0-0.5	0.5-2	2-4	0-0.5	0-0.5	2-4	4-6	0-0.5	2-4
Type			Shallow	Deep	Deep	Shallow	Shallow	Deep	Shallow	Shallow	Deep	Deep	Shallow	Deep
Group			ON	ON	ON	ON	OFF-W	OFF-W	OFF-W	ON	ON	ON	OFF-W	OFF-W
Analyte	ERLs	ERMs												
Total Organic Carbo	NA	NA	70100	56500	-	61600	-	-	-	-	31300	61300	-	15500
Total Metals														
Antimony	NA	9.3 b	2.5	<4.9	<2.9	<3.4	2.6	<1.4	<1.2	<2.8	<4.1	<3.2	<1.3	<1.4
Arsenic	8.2 a	70 a	**172**	**49.1**	**31.3**	**27.3**	**51.5**	6.6	**14.2**	**26.8**	**59**	**39.9**	**20.2**	1.8
Barium	NA	48 b	52.5	82.8	62.3	71.4	29.4	14.5	23.9	67.2	62.2	54.2	21.2	7.9
Beryllium	NA	NA	0.34	0.79	0.61	0.78	0.3	0.23	0.19	0.75	0.62	0.46	0.26	0.27
Cadmium	1.2 a	9.6 a	0.83	**3.12**	**2.12**	**2.37**	0.72	0.3	0.42	**2.23**	**2.41**	**1.89**	0.6	0.29
Chromium	81 a	370 a	27.3	**173**	**91.4**	**93.2**	23.7	11.4	14.5	**89.2**	**144**	**104**	16	9.4
Lead	47 a	218 a	**306**	**288**	**165**	**240**	**298**	**63.5**	**126**	**232**	**218**	**150**	**89.1**	<2.9
Mercury	0.15 a	0.71 a	**0.74**	**1.62**	**0.99**	**1.01**	**0.233**	<0.023	**0.229**	**1.06**	**1.49**	**1.32**	**0.25**	<0.110
Nickel	21 a	52 a	8.5	**22.9**	15.8	**26.1**	10.6	7.2	5.9	**25.6**	20.7	15.3	8.3	5
Selenium	NA	1 b	<1.63	<4.89	<2.91	<3.36	<1.37	<1.38	<1.18	<2.84	<4.09	<3.19	<1.26	<1.43
Silver	1 a	3.7 a	**1.65**	**2.73**	**1.36**	**2.33**	0.96	<0.28	0.65	**2.25**	**2.25**	**1.73**	0.65	<0.29
Thallium	NA	NA	<1.63	<4.89	<2.91	<3.36	<1.37	<1.38	<1.18	<2.84	<4.09	<3.19	<1.26	<1.43
Vanadium	NA	57 b	39.3	194	106	79.4	46.6	17.6	19.8	81.9	187	107	26.9	13.3
Zinc	150 a	410 a	**157**	**344**	**211**	**408**	140	38.2	88.7	**382**	**284**	**186**	99.3	15.4

Table 3A
SEDIMENT METALS AND TOTAL ORGANIC CARBON RESULTS

Wynn Resort Casino
Everett, Massachusetts

Sample ID	Marine Sediment Benchmarks		GZ-125A 0-0_5ft	GZ-125A 2-4ft	GZ-125A 4-6ft	GZ-125A 8-9ft	GZ-126 0_5-2ft	GZ-126 2-4ft	GZ-126T 0-0_5ft	GZ-127 0_5-2ft	GZ-127 0-0_5ft	GZ-127 2-4ft	GZ-127 4-5ft	GZ-128 2-4ft
Date Sampled			08/05/2013	08/05/2013	08/05/2013	08/05/2013	08/05/2013	08/05/2013	08/06/2013	08/05/2013	08/05/2013	08/05/2013	08/05/2013	08/01/2013
Depth (ft)			0-0.5	2-4	4-6	8-9	0.5-2	2-4	0-0.5	0.5-2	0-0.5	2-4	4-5	2-4
Type			Shallow	Deep	Deep	Deep	Shallow	Deep	Shallow	Shallow	Shallow	Deep	Deep	Deep
Group			OFF-W	OFF-W	OFF-W	OFF-W	OFF-W	OFF-W	OFF-W	ON	ON	ON	ON	ON
Analyte	ERLs	ERMs												
Total Organic Carbo	NA	NA	-	52800	-	-	-	-	-	64800	19000	35100	-	-
Total Metals														
Antimony	NA	9.3 b	<1.5	<1.2	<1.3	<1.4	<1.2	<1.2	<1.4	<1.5	2.3	<1.1	<1.2	<3.0
Arsenic	8.2 a	70 a	5.3	1.6	2	2.5	**13.6**	<1.2	**24.5**	**24.7**	**94.7**	8	5.9	**54.4**
Barium	NA	48 b	14.2	10	12.4	18.6	22.3	9.7	31.8	27.2	89.4	24.3	41.9	63.1
Beryllium	NA	NA	0.2	0.23	0.27	0.38	0.21	0.22	0.26	0.26	0.34	0.39	0.6	0.49
Cadmium	1.2 a	9.6 a	0.3	<0.25	0.28	0.35	0.35	<0.25	0.58	<0.29	1.2	<0.23	<0.25	**2.15**
Chromium	81 a	370 a	12	11.3	13.4	18.1	12.3	10.4	19.1	17.2	32	14.4	24.8	**84.5**
Lead	47 a	218 a	44.8	<2.5	<2.5	3	**91.6**	<2.5	**140**	**97.4**	**369**	12.4	8.9	**208**
Mercury	0.15 a	0.71 a	**0.184**	<0.021	<0.017	<0.025	**0.253**	<0.019	**0.506**	**1.69**	**0.876**	<0.020	<0.023	**1.46**
Nickel	21 a	52 a	6.1	6.7	7.8	10.2	5.9	6.4	7.6	8.6	9.5	9.4	12.1	15.9
Selenium	NA	1 b	<1.45	<1.25	<1.26	<1.42	<1.17	<1.23	<1.37	<1.47	1.91	<1.14	<1.24	<3.03
Silver	1 a	3.7 a	<0.29	<0.25	<0.25	<0.28	0.39	<0.25	0.66	0.63	**1.94**	0.3	0.28	**1.93**
Thallium	NA	NA	<1.45	<1.25	<1.26	<1.42	<1.17	<1.23	<1.37	<1.47	<1.58	<1.14	<1.24	<3.03
Vanadium	NA	57 b	15.4	15.2	17.6	22.8	15.9	14.3	22.2	24.1	56.6	22.3	34.1	97.5
Zinc	150 a	410 a	52.4	19.8	22.2	29.9	55.2	18.4	102	80	**217**	40.3	46.6	**254**

Table 3A
SEDIMENT METALS AND TOTAL ORGANIC CARBON RESULTS

Wynn Resort Casino
Everett, Massachusetts

Sample ID	Marine Sediment Benchmarks		GZ-128 4-6ft	GZ-128T 0-0_5ft	GZ-129 2-4ft	GZ-129T 0-0_5ft	GZ-130 0-0_5ft	GZ-130 2-4ft	GZ-130 4-6ft	GZ-131 0_5-2ft	GZ-131 0-0_5ft	GZ-131 2-4ft	GZ-131 4-5ft	GZ-132 0_5-2ft
Date Sampled			08/01/2013	08/06/2013	08/02/2013	08/06/2013	08/02/2013	08/02/2013	08/02/2013	08/02/2013	08/02/2013	08/02/2013	08/02/2013	08/05/2013
Depth (ft)			4-6	0-0.5	2-4	0-0.5	0-0.5	2-4	4-6	0.5-2	0-0.5	2-4	4-5	0.5-2
Type			Deep	Shallow	Deep	Shallow	Shallow	Deep	Deep	Shallow	Shallow	Deep	Deep	Shallow
Group	ERLs	ERMs	ON	ON	OFF-W	OFF-W	OFF-W	OFF-W	OFF-W	OFF-W	OFF-W	OFF-W	OFF-W	OFF-W
Analyte														
Total Organic Carbo	NA	NA	-	-	59600	-	-	58300	10700	40000	-	-	-	-
Total Metals														
Antimony	NA	9.3 b	<1.9	<3.1	<1.3	<1.6	<1.6	<1.3	<1.4	<1.4	<1.4	<1.3	<1.1	<1.3
Arsenic	8.2 a	70 a	**30.4**	**33.2**	3.7	**11.6**	4.2	3.1	2.4	**23.4**	**13.8**	3.5	4.5	**68.3**
Barium	NA	48 b	60.2	58.5	8.1	15	14.6	6.6	8.8	18.6	19	6.3	7.8	47.9
Beryllium	NA	NA	0.64	0.58	0.16	0.18	0.28	0.15	0.18	0.22	0.15	0.14	0.2	0.34
Cadmium	1.2 a	9.6 a	**1.71**	**1.31**	<0.26	<0.32	<0.32	<0.25	<0.28	<0.27	<0.28	<0.25	<0.23	**2.4**
Chromium	81 a	370 a	63.8	78.2	9.5	16.6	15.2	7.7	10.1	16.2	14.7	7.4	10.2	20.8
Lead	47 a	218 a	**135**	**191**	<2.6	44.4	9.2	<2.5	<2.8	**112**	**65.2**	3.4	4.2	**238**
Mercury	0.15 a	0.71 a	**0.949**	**0.84**	<0.020	<0.026	<0.030	<0.020	<0.024	**0.225**	**0.269**	0.056	<0.023	**0.41**
Nickel	21 a	52 a	20.2	**23.2**	5.5	6.8	8.9	4.8	6.2	6.3	5.5	4.6	7.1	16.6
Selenium	NA	1 b	<1.92	<3.12	<1.28	<1.60	<1.62	<1.27	<1.41	4.43	<1.39	<1.25	<1.13	2.25
Silver	1 a	3.7 a	**1.25**	**2.14**	<0.26	0.42	<0.32	<0.25	<0.28	0.71	0.65	<0.25	0.25	<1.29
Thallium	NA	NA	<1.92	<3.12	<1.28	<1.60	<1.62	<1.27	<1.41	<1.35	<1.39	<1.25	<1.13	<1.29
Vanadium	NA	57 b	52.4	71.1	11.9	19.5	19.2	10	12.6	18.5	16.8	10	19.3	21.3
Zinc	150 a	410 a	**237**	**303**	16.1	67	29.8	13.6	17.2	132	72.7	14.6	20.9	**1310**

Table 3A
SEDIMENT METALS AND TOTAL ORGANIC CARBON RESULTS

Wynn Resort Casino
Everett, Massachusetts

Sample ID	Marine Sediment Benchmarks		GZ-132 0-0_5ft	GZ-133 0_5-2ft	GZ-133 0-0_5ft	GZ-133 2-4_4ft	GZ-134 2-3ft	GZ-134 4-6ft	GZ-134 6-8ft	GZ-134T 0-0_5ft	GZ-135 2-4ft	GZ-135 4-6ft	GZ-135T 0-0_5ft	GZ-136 0_5-2ft
Date Sampled			08/05/2013	08/05/2013	08/05/2013	08/05/2013	08/02/2013	08/02/2013	08/02/2013	08/06/2013	08/02/2013	08/02/2013	08/06/2013	08/05/2013
Depth (ft)			0-0.5	0.5-2	0-0.5	2-4.4	2-3	4-6	6-8	0-0.5	2-4	4-6	0-0.5	0.5-2
Type			Shallow	Shallow	Shallow	Deep	Shallow	Deep	Deep	Shallow	Deep	Deep	Shallow	Shallow
Group			OFF-W	OFF-W	OFF-W	OFF-W	ON	ON	ON	ON	OFF-W	OFF-W	OFF-W	OFF-W
Analyte	ERLs	ERMs												
Total Organic Carbo	NA	NA	-	-	-	-	-	-	-	52600	-	-	-	16300
Total Metals														
Antimony	NA	9.3 b	<1.4	1.8	<1.4	<1.5	<3.6	<3.2	<1.9	<3.0	<1.3	<1.4	<1.5	<1.4
Arsenic	8.2 a	70 a	**21.5**	**52.8**	**30.3**	**25.6**	**35.5**	**53.4**	**31.2**	**30.7**	3.5	5.5	7.4	**27.9**
Barium	NA	48 b	27.3	51.3	38.4	36.2	31.7	64.7	69	59	6.8	12.2	13.3	36.6
Beryllium	NA	NA	0.19	0.27	0.18	0.28	0.44	0.4	0.72	0.61	0.14	0.24	0.18	0.25
Cadmium	1.2 a	9.6 a	<0.28	0.34	<0.28	<0.29	**1.37**	**1.83**	**1.76**	**1.36**	<0.25	<0.29	<0.30	0.89
Chromium	81 a	370 a	18.1	29.6	18.1	19.4	54.5	74.2	66.6	79	7.8	12.9	15.5	28.9
Lead	47 a	218 a	**100**	**218**	**149**	**107**	**132**	**187**	**136**	**191**	<2.5	3	29.3	**127**
Mercury	0.15 a	0.71 a	**0.296**	**1.05**	**0.497**	**0.816**	**0.524**	**1.1**	**1.09**	**1.06**	<0.021	<0.027	0.099	**0.915**
Nickel	21 a	52 a	6.7	10	6	9.5	15.4	11.4	**23.6**	**23.4**	4.7	7.3	6.8	9.8
Selenium	NA	1 b	<1.42	<1.69	<1.38	1.78	<3.57	<3.23	<1.92	<3.05	<1.26	<1.44	<1.51	<1.42
Silver	1 a	3.7 a	0.85	**1.6**	0.9	0.96	**1.11**	**1.81**	**1.36**	**2.19**	<0.25	<0.29	0.39	**1.43**
Thallium	NA	NA	<1.42	<1.69	<1.38	<1.46	<3.57	<3.23	<1.92	<3.05	<1.26	<1.44	<1.51	<1.42
Vanadium	NA	57 b	24.1	46.4	24.6	23.7	83	72.6	52.3	71.7	10.1	16.2	16.9	35
Zinc	150 a	410 a	101	**165**	123	140	**210**	**257**	**276**	**332**	14.7	21.7	57.5	**198**

Table 3A
SEDIMENT METALS AND TOTAL ORGANIC CARBON RESULTS

Wynn Resort Casino
Everett, Massachusetts

Sample ID	Marine Sediment Benchmarks		GZ-136 0-0_5ft	GZ-136 2-4ft	GZ-136 4-6ft	GZ-136 8-10ft	GZ-137 2-4ft	GZ-137 4-5_5ft	GZ-137T 0-0_5ft	GZ-138 0_5-2ft	GZ-138 0-0_5ft	GZ-138 2-4ft	GZ-138 4-6ft	GZ-138 6-8ft
Date Sampled			08/05/2013	08/05/2013	08/05/2013	08/05/2013	08/05/2013	08/05/2013	08/06/2013	08/02/2013	08/02/2013	08/02/2013	08/02/2013	08/02/2013
Depth (ft)			0-0.5	2-4	4-6	8-10	2-4	4-5.5	0-0.5	0.5-2	0-0.5	2-4	4-6	6-8
Type			Shallow	Deep	Deep	Deep	Deep	Deep	Shallow	Shallow	Shallow	Deep	Deep	Deep
Group			OFF-W	OFF-W	OFF-W	OFF-W	OFF-W	OFF-W	OFF-W	OFF-W	OFF-W	OFF-W	OFF-W	OFF-W
Analyte	ERLs	ERMs												
Total Organic Carbo	NA	NA	-	-	-	-	-	-	54800	-	71000	-	-	-
Total Metals														
Antimony	NA	9.3 b	1.4	<1.3	<1.3	<1.3	1.5	<1.2	<1.8	<2.9	<2.7	<2.0	<2.0	<2.3
Arsenic	8.2 a	70 a	**34.6**	5.1	3.9	4.2	**15.4**	7.2	**17.9**	**28.6**	**30.3**	**31**	**33.8**	**42.5**
Barium	NA	48 b	55	9.8	8.2	10.4	30.5	7.8	37.3	48.4	58.2	59	72.6	90.1
Beryllium	NA	NA	0.33	0.18	0.15	0.19	0.17	0.25	0.39	0.59	0.59	0.6	0.63	0.44
Cadmium	1.2 a	9.6 a	<1.35	<0.27	<0.25	<0.26	0.36	<0.23	0.85	**1.51**	**1.47**	**1.75**	**2.36**	**3.74**
Chromium	81 a	370 a	28.4	10.6	9	10.3	13.8	9.8	48.7	68.2	**82.4**	61.6	75.7	**104**
Lead	47 a	218 a	**180**	3.5	<2.5	<2.5	**131**	7	**133**	**140**	**183**	**146**	**177**	**307**
Mercury	0.15 a	0.71 a	**0.73**	<0.024	<0.025	<0.026	<0.018	<0.022	**0.777**	**0.779**	**0.949**	**1.38**	**1.73**	**2.44**
Nickel	21 a	52 a	11	6.2	5.4	6	6.7	6	15.9	19.4	**25.3**	19.2	20	15.4
Selenium	NA	1 b	1.72	<1.34	<1.26	<1.28	<1.27	<1.16	<1.83	<2.93	<2.69	<2.05	<1.97	3.12
Silver	1 a	3.7 a	**1.76**	<0.27	<0.25	<0.26	0.96	<0.23	**1.22**	**1.28**	**2.29**	**1.38**	**1.53**	**2.08**
Thallium	NA	NA	<1.35	<1.34	<1.26	<1.28	<1.27	<1.16	<1.83	<2.93	<2.69	<2.05	<1.97	<2.28
Vanadium	NA	57 b	29.5	13.9	11.1	13.3	16	14.1	50.5	78	77.3	51.3	57.3	97.5
Zinc	150 a	410 a	**248**	21	17.2	18.4	132	21.2	**216**	**250**	**322**	**276**	**310**	**485**

Table 3A
SEDIMENT METALS AND TOTAL ORGANIC CARBON RESULTS

Wynn Resort Casino
Everett, Massachusetts

Sample ID	Marine Sediment Benchmarks		GZ-139 0-0_5ft	GZ-139 2-4ft	GZ-139 6-8ft	GZ-140A 0_5-2ft	GZ-140A 0-0_5ft	GZ-140A 2-3ft	GZ-201 0ft-0_5ft	GZ-201 0ft-3ft	GZ-201 4ft-5ft	GZ-202 0ft-0_5ft	GZ-202 2ft-4ft	GZ-203 0ft-0_5ft
Date Sampled			08/05/2013	08/05/2013	08/05/2013	08/05/2013	08/05/2013	08/05/2013				03/24/2015	3/24/2015	03/24/2015
Depth (ft)			0-0.5	2-4	6-8	0.5-2	0-0.5	2-3	0-0.5	0-3	4-5	0-0.5	2-4	0-0.5
Type			Shallow	Deep	Deep	Shallow	Shallow	Shallow	Shallow	Shallow	Deep	Shallow	Deep	Shallow
Group			OFF-W	OFF-W	OFF-W	OFF-W	OFF-W	OFF-W	OFF-E	OFF-E	OFF-E	OFF-E	OFF-E	OFF-E
Analyte	ERLs	ERMs												
Total Organic Carbo	NA	NA	-	-	-	5210	-	10900	-	31000	-	-	-	-
Total Metals														
Antimony	NA	9.3 b	<1.0	<1.9	<1.4	<2.6	<1.3	<1.9	0.54	0.5	0.58	<1.23	<4.88	<1.24
Arsenic	8.2 a	70 a	**11**	2	<1.4	**28.1**	**11.3**	**15.9**	**17**	**20.4**	**14**	**29.9**	**15.3**	**25.5**
Barium	NA	48 b	29.9	12.6	10.4	64.9	30.9	38.9	60.7	63.6	47.2	69.4	25.7	55.7
Beryllium	NA	NA	0.32	0.31	0.26	0.73	0.37	0.43	0.6	0.62	0.45	0.68	0.32	0.54
Cadmium	1.2 a	9.6 a	0.96	<0.37	0.28	**3.38**	**1.25**	0.97	1.1	**1.54**	**1.38**	1.02	<0.49	0.73
Chromium	81 a	370 a	32.7	13.8	11.3	**86.6**	39.7	37.1	74.2	**88.6**	63.5	**87**	33.2	67.6
Lead	47 a	218 a	**78.3**	<3.7	<2.7	**198**	**99.7**	**90.6**	**165**	**218**	**178**	**237**	**73.8**	**200**
Mercury	0.15 a	0.71 a	**0.472**	<0.036	<0.026	**1.1**	**0.845**	**0.842**	0.114	**0.434**	**0.498**	**0.307**	**0.258**	**0.728**
Nickel	21 a	52 a	10.5	8.4	7.1	**29.9**	12	11.5	**24**	**30.4**	**22.9**	**26.6**	12.7	20.6
Selenium	NA	1 b	<1.02	<1.87	<1.37	<2.58	1.41	2.92	<4.61	<4.35	<4.41	<4.90	<4.88	<4.98
Silver	1 a	3.7 a	0.93	<0.37	<0.27	**2.83**	**1.07**	0.84	**1.05**	**2.11**	**1.36**	**1.42**	<0.49	**1.09**
Thallium	NA	NA	<1.02	<1.87	<1.37	<2.58	<1.31	<1.93	<0.37	<0.35	<0.35	<0.39	<0.39	<0.40
Vanadium	NA	57 b	34.3	18	14.8	131	36.4	26.3	64.8	103	90	80.7	59.5	64.7
Zinc	150 a	410 a	134	27.5	19.4	**377**	**178**	141	**304**	**307**	**216**	**394**	114	**311**

Table 3A
SEDIMENT METALS AND TOTAL ORGANIC CARBON RESULTS

Wynn Resort Casino
Everett, Massachusetts

Sample ID	Marine Sediment Benchmarks		GZ-203 0ft-3ft	GZ-203 4ft-6ft	GZ-204 0ft-0_5ft	GZ-204 2ft-4ft	GZ-204 6ft-8ft	GZ-205 0ft-0_5ft	GZ-205 0ft-3ft	GZ-205 4ft-6ft	GZ-205 6ft-8ft	GZ-206 0ft-0_5ft	GZ-206 0ft-3ft	GZ-206 4ft-6ft
Date Sampled			03/24/2015	03/24/2015	03/24/2015	03/24/2015	03/24/2015	3/25/2015	3/25/2015	3/25/2015	3/25/2015	3/25/2015	3/25/2015	3/25/2015
Depth (ft)			0-3	4-6	0.0.5	2-4	6-8	0-0.5	0-3	2-6	6-8	0-0.5	0-3	4-6
Type			Shallow	Deep	Shallow	Deep	Deep	Shallow	Shallow	Deep	Deep	Shallow	Shallow	Deep
Group			OFF-E	OFF-E	OFF-E	OFF-E	OFF-E	OFF-E	OFF-E	OFF-E	OFF-E	ON	ON	ON
Analyte	ERLs	ERMs												
Total Organic Carbo	NA	NA	-	67200	45500	53200	43900	76200	51000	45600	58000	-	9610	12600
Total Metals														
Antimony	NA	9.3 b	<1.22	<1.21	<1.21	<4.98	<4.74	<1.17	<1.20	<1.16	<4.02	<1.18	<1.24	<1.16
Arsenic	8.2 a	70 a	**36.5**	**18.8**	**29.5**	**61.4**	**16.5**	**25.8**	**35.7**	**31.2**	5.22	**34.2**	**45.8**	**18.8**
Barium	NA	48 b	56.6	50.7	56.8	66.4	33.4	49.5	44.5	75	17.5	65.2	60.4	44.1
Beryllium	NA	NA	0.71	0.58	0.56	0.56	0.33	0.47	0.6	0.57	0.3	0.64	0.64	0.48
Cadmium	1.2 a	9.6 a	1.14	0.5	0.75	**1.74**	0.77	0.64	1.06	**1.43**	<0.40	0.9	**1.28**	0.62
Chromium	81 a	370 a	77.9	42.3	69.3	**96.5**	32	59.4	62.2	76.4	15.5	**81.8**	**90.9**	44.7
Lead	47 a	218 a	**190**	**77.2**	**216**	**246**	**93.7**	**186**	**142**	**192**	6.5	**238**	**251**	**93.4**
Mercury	0.15 a	0.71 a	**0.682**	**0.218**	**0.17**	**1.11**	**0.187**	**0.259**	**0.672**	**0.307**	<0.027	**0.935**	**1.04**	**0.168**
Nickel	21 a	52 a	**23.8**	17.7	**21.5**	17	10.3	17.8	17.9	17.4	9.16	**24**	**26.9**	14.7
Selenium	NA	1 b	<4.88	<4.85	<4.85	<4.98	<4.74	<4.69	<4.81	<4.65	<4.02	<4.74	<4.98	<4.63
Silver	1 a	3.7 a	0.91	<0.49	**1.15**	**1.3**	<0.47	0.91	<0.48	0.76	<0.40	**1.35**	**1.58**	<0.46
Thallium	NA	NA	<0.39	<0.39	<0.39	<0.40	<0.38	<0.47	<0.38	<0.47	<0.40	<0.47	<0.40	<0.46
Vanadium	NA	57 b	105	45.5	70.2	109	36.8	58	76.3	76.3	21.8	78.8	108	40.2
Zinc	150 a	410 a	**282**	128	**322**	**280**	129	**277**	**240**	**263**	27.4	**360**	**365**	143

Table 3A
SEDIMENT METALS AND TOTAL ORGANIC CARBON RESULTS

Wynn Resort Casino
Everett, Massachusetts

Sample ID	Marine Sediment Benchmarks		GZ-207 0ft-0_5ft	GZ-207 0ft-3ft	GZ-207 4ft-6ft	GZ-207 6ft-7_5ft	GZ-208 0ft-0_5ft	GZ-208 4ft-6ft	GZ-209 0ft-0_5ft	GZ-209 2ft-4ft	GZ-209 6ft-8ft	GZ-210 0_5ft-2ft	GZ-210 0ft-0_5ft	GZ-210 2ft-4ft
Date Sampled			3/25/2015	3/25/2015	3/25/2015	3/25/2015	3/25/2015	3/25/2015	3/25/2015	3/25/2015	3/25/2015	3/30/2015	3/30/2015	3/30/2015
Depth (ft)			0-0.5	0-3	4-6	6-7	0-0.5	4-6	0-0.5	2-4	6-8	0.5-2	0-0.5	2-4
Type			Shallow	Shallow	Deep	Deep	Shallow	Deep	Shallow	Deep	Deep	Shallow	Shallow	Deep
Group			ON	ON	ON	ON	ON	ON	ON	ON	ON	OFF-E	OFF-E	OFF-E
Analyte	ERLs	ERMs												
Total Organic Carbo	NA	NA	19900	-	17600	-	50900	-	-	-	-	-	-	-
Total Metals														
Antimony	NA	9.3 b	<1.24	<1.23	1.22	<1.11	<1.17	<1.24	<1.23	<4.48	<3.95	<4.07	<4.18	<4.27
Arsenic	8.2 a	70 a	**37.6**	**44.9**	**71.6**	6.18	**34.3**	**36.1**	**38.6**	**62.2**	3.54	6.04	**9.98**	4.53
Barium	NA	48 b	63	71.3	98.6	22.8	58.9	91.9	63.4	61.6	15.1	17.4	12.5	17.7
Beryllium	NA	NA	0.62	0.73	0.85	0.4	0.58	1.01	0.64	0.67	0.27	0.3	0.17	0.36
Cadmium	1.2 a	9.6 a	0.8	1.18	**2.38**	<0.44	0.65	**1.39**	0.74	**1.88**	<0.40	<0.41	<0.42	<0.43
Chromium	81 a	370 a	78.7	**95.8**	**114**	20.3	71.1	**89.5**	77.9	**124**	13.6	14.7	11.9	16
Lead	47 a	218 a	**237**	**261**	**296**	6.79	**218**	**187**	**245**	**233**	<3.95	33.1	**62.7**	9.49
Mercury	0.15 a	0.71 a	**0.668**	**0.482**	**1.43**	<0.024	**0.368**	**0.471**	**1.03**	**0.167**	<0.031	0.103	**0.203**	<0.031
Nickel	21 a	52 a	**22.9**	**30.3**	**26.4**	12	20.9	**30.4**	**22.4**	17.8	8.32	8.08	6.28	9.84
Selenium	NA	1 b	<4.95	<4.93	<4.35	<4.42	<4.67	<4.98	<4.90	<4.48	<3.95	<1.63	<1.67	<1.71
Silver	1 a	3.7 a	**1.25**	**1.71**	**1.27**	<0.44	**1.1**	0.58	**1.23**	**1.49**	<0.40	<0.41	<0.42	<0.43
Thallium	NA	NA	<0.40	<0.39	<0.43	<0.44	<0.47	<0.40	<0.39	<0.45	<0.40	<0.33	<0.33	<0.34
Vanadium	NA	57 b	77.5	104	104	27.1	68.7	76.4	74.6	140	19.1	17.7	15.4	21.6
Zinc	150 a	410 a	**354**	**367**	**402**	33.7	**325**	**302**	**356**	**297**	22.9	35.3	**173**	26.9

Table 3A
SEDIMENT METALS AND TOTAL ORGANIC CARBON RESULTS

Wynn Resort Casino
Everett, Massachusetts

Sample ID	Marine Sediment Benchmarks		GZ-211 0ft-0_5ft	GZ-211 0ft-3ft	GZ-211 4ft-6ft	GZ-212 0_5ft-2ft	GZ-212 0ft-0_5ft	GZ-213 0ft-0_5ft	GZ-213 0ft-3ft	GZ-213 4ft-6ft	GZ-214 0ft-0_5ft	GZ-214 2ft-4ft	GZ-214 4ft-6ft	GZ-214 6ft-8ft
Date Sampled			3/30/2015	3/30/2015	3/30/2015	03/24/2015	03/24/2015	3/25/2015	3/25/2015	3/25/2015	3/30/2015	3/30/2015	3/30/2015	3/30/2015
Depth (ft)			0-0.5	0-3	4-6	0.5-2	0-0.5	0-0.5	0-3	4-6	0-0.5	2-4	4-6	6-8
Type			Shallow	Shallow	Deep	Shallow	Shallow	Shallow	Shallow	Deep	Shallow	Deep	Deep	Deep
Group			OFF-E	OFF-E	OFF-E	OFF-E	OFF-E	ON	ON	ON	ON	ON	ON	ON
Analyte	ERLs	ERMs												
Total Organic Carbo	NA	NA	13900	9900	9230	10300	5470	12300	14500	16800	27300	12600	-	20700
Total Metals														
Antimony	NA	9.3 b	<12.9	<4.29	<13.2	<4.76	<4.95	<1.23	<4.41	<4.74	<3.97	<4.05	<4.02	<3.77
Arsenic	8.2 a	70 a	**22.7**	**10.8**	5.95	**9.78**	**17.2**	**54.1**	**57.9**	5.95	**43.7**	<2.02	<2.01	3.31
Barium	NA	48 b	16.8	18.7	23.8	19.5	20.2	33.4	25.2	18.5	42.7	22	15	14.3
Beryllium	NA	NA	0.17	0.27	0.46	0.29	0.23	0.33	0.28	0.32	0.35	0.41	0.28	0.27
Cadmium	1.2 a	9.6 a	1.1	<0.43	<0.44	<0.48	<0.50	0.72	**2.39**	<0.47	0.42	<0.40	<0.40	<0.38
Chromium	81 a	370 a	14.7	16.1	20.4	17.7	20	36.1	23.2	17.1	38	19.9	14.1	13.2
Lead	47 a	218 a	**87.8**	**56**	5.95	**87.7**	**94.1**	**190**	**282**	5.4	**263**	5.7	<4.02	<3.77
Mercury	0.15 a	0.71 a	**0.217**	**0.481**	<0.032	**0.188**	**0.249**	**0.551**	**0.467**	<0.030	**0.847**	<0.032	<0.030	<0.029
Nickel	21 a	52 a	7.24	7.78	12.4	8.71	8.39	13	8.91	10.3	19.2	12.1	8.76	8.11
Selenium	NA	1 b	2.23	<1.72	<1.76	<4.76	<4.95	<4.93	6.85	<4.74	<7.94	<8.10	<8.03	<7.55
Silver	1 a	3.7 a	<0.43	<0.43	<0.44	<0.48	<0.50	0.71	<0.44	<0.47	0.65	<0.40	<0.40	<0.38
Thallium	NA	NA	<0.34	<0.34	<0.35	<0.38	<0.40	<0.39	<0.44	<0.47	<0.32	<0.32	<0.32	<0.30
Vanadium	NA	57 b	19.9	16.4	26	22.4	28.2	55.1	22.4	24.8	56.8	26.2	19.1	18.6
Zinc	150 a	410 a	**674**	83.6	31.2	44.3	120	**325**	**913**	35.6	**205**	31.8	22.6	23.8

Table 3A
SEDIMENT METALS AND TOTAL ORGANIC CARBON RESULTS

Wynn Resort Casino
Everett, Massachusetts

Sample ID	Marine Sediment Benchmarks		GZ-215 0ft-0_5ft	GZ-215 0ft-3ft	GZ-215 4ft-6ft	GZ-216 0ft-0_5ft	GZ-216 2ft-4ft	GZ-216 4ft-6ft	GZ-217 0ft-0_5ft	GZ-217 0ft-3ft	GZ-217 6ft-8ft	GZ-218 0_5ft-2ft	GZ-218 0ft-0_5ft	GZ-218 4ft-6ft
Date Sampled						03/24/2015	03/24/2015	03/24/2015	03/24/2015	03/24/2015	03/24/2015	3/25/2015	3/25/2015	3/25/2015
Depth (ft)			0-0.5	0-3	4-6	0-0.5	2-4	4-6	0-0.5	0-3	6-8	0.5-2	0-0.5	4-6
Type			Shallow	Shallow	Deep	Shallow	Deep	Deep	Shallow	Shallow	Deep	Shallow	Shallow	Deep
Group			ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON
Analyte	ERLs	ERMs												
Total Organic Carbo	NA	NA	-	22500	14100	40700	-	35700	-	61300	43000	-	-	16800
Total Metals														
Antimony	NA	9.3 b	<4.13	<4.08	<4.12	<1.09	<1.09	<4.72	1.57	1.54	<4.13	<4.55	<1.13	<4.37
Arsenic	8.2 a	70 a	**45.8**	8.17	2.73	**52.2**	**11.5**	5.37	**164**	**92.1**	5.33	**183**	**58.2**	8.14
Barium	NA	48 b	30.9	21.3	10.7	43.7	28.3	18.9	73.5	47.6	19.4	68.2	44.2	20.2
Beryllium	NA	NA	0.34	0.23	0.19	0.4	0.42	0.35	0.48	0.44	0.32	0.67	0.38	0.35
Cadmium	1.2 a	9.6 a	0.53	0.92	<0.41	0.66	<0.43	<0.47	<0.48	1.12	<0.41	0.79	<0.45	<0.44
Chromium	81 a	370 a	37.1	14.7	10.5	55.5	22.5	16.9	56.1	41.5	16.2	49.6	48.2	17.2
Lead	47 a	218 a	**234**	42.7	<4.12	**268**	**73.8**	5.18	**791**	**545**	5.15	**738**	**279**	25.8
Mercury	0.15 a	0.71 a	**0.982**	**0.221**	<0.031	**0.467**	**0.188**	<0.030	**0.979**	**0.969**	<0.033	**7.07**	**0.393**	0.074
Nickel	21 a	52 a	15.3	7.87	6.56	18	12.1	9.99	**25**	15.1	9.93	18	16.5	10.1
Selenium	NA	1 b	<8.26	<8.16	<8.23	5.19	<4.35	<4.72	52.8	22.6	<4.13	28.6	<4.50	<4.37
Silver	1 a	3.7 a	0.54	<0.41	<0.41	0.89	<0.43	<0.47	**1.23**	0.64	<0.41	<0.45	0.73	<0.44
Thallium	NA	NA	<0.33	<0.33	<0.33	<0.35	<0.35	<0.38	<0.38	<0.40	<0.33	<0.45	<0.45	<0.44
Vanadium	NA	57 b	53.2	22.6	15.3	65.8	28.9	23.6	61.3	38	23.7	45	61	23.2
Zinc	150 a	410 a	**227**	**406**	28.8	**265**	72.7	27.5	**393**	**515**	28.3	**410**	**270**	55.4

Table 3A
SEDIMENT METALS AND TOTAL ORGANIC CARBON RESULTS

Wynn Resort Casino
Everett, Massachusetts

Sample ID	Marine Sediment Benchmarks		GZ-219 0ft-0_5ft	GZ-219 0ft-3ft	GZ-219 4ft-6ft	GZ-220 0_5ft-2ft	GZ-220 0ft-0_5ft	GZ-220 2ft-4ft	GZ-221 0ft-0_5ft	GZ-221 0ft-3ft	GZ-221 4ft-6ft	GZ-222 0_5ft-2ft	GZ-222 0ft-0_5ft	GZ-222 2ft-4ft
Date Sampled			3/25/2015	3/25/2015	3/25/2015	3/30/2015	3/30/2015	3/30/2015	3/30/2015	3/30/2015	3/30/2015	3/30/2015	3/30/2015	3/30/2015
Depth (ft)			0-0.5	0-3	4-6	0.5-2	0-0.5	2-4	0-0.5	0-3	4-6	0.5-2	0-0.5	2-4
Type			Shallow	Shallow	Deep	Shallow	Shallow	Deep	Shallow	Shallow	Deep	Shallow	Shallow	Deep
Group			ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON
Analyte	ERLs	ERMs												
Total Organic Carbo	NA	NA	6700	-	-	6580	-	6840	-	-	-	-	6760	32100
Total Metals														
Antimony	NA	9.3 b	<1.08	1.32	<4.67	<3.94	<4.20	<3.45	<4.08	<4.18	<4.00	<3.65	<3.70	<3.66
Arsenic	8.2 a	70 a	**71.7**	**66.3**	3.96	**210**	**45.8**	3.43	**37.9**	**135**	<2.00	**48.4**	**28**	**32.1**
Barium	NA	48 b	36.8	52	12.2	59.3	48.4	21	36	77.6	19.6	37.5	32.7	38.8
Beryllium	NA	NA	0.33	0.47	0.22	0.52	0.4	0.38	0.37	0.54	0.36	0.54	0.29	0.4
Cadmium	1.2 a	9.6 a	<0.43	1	<0.47	**2.76**	0.52	<0.34	0.43	**1.96**	<0.40	0.41	<0.37	0.73
Chromium	81 a	370 a	38.2	40.4	11.8	44.4	49.5	19.3	46.6	**91.4**	18.3	31.5	38.6	36.9
Lead	47 a	218 a	**271**	**506**	<4.67	**582**	**317**	14.2	**197**	**703**	5.66	**175**	**192**	**270**
Mercury	0.15 a	0.71 a	**0.572**	**1.2**	<0.024	**3.46**	**1.05**	0.074	**0.892**	**4.41**	<0.030	**1.31**	**0.779**	**1.95**
Nickel	21 a	52 a	17.5	13.4	7.45	11.8	15.7	10.9	14.9	13.4	10.5	14.9	12.1	11.5
Selenium	NA	1 b	<4.33	15.2	<4.67	65.4	<8.40	<6.90	<8.16	30.7	<8.00	27.7	<7.41	10
Silver	1 a	3.7 a	0.58	<0.50	<0.47	**1.17**	0.83	<0.34	0.63	0.66	<0.40	<0.36	0.47	<0.37
Thallium	NA	NA	<0.43	<0.40	<0.47	<0.31	<0.34	<0.28	<0.33	<0.33	<0.32	<0.29	<0.30	<0.29
Vanadium	NA	57 b	50.2	33.2	18.1	45.2	59.3	25.3	63.4	38.7	24.3	34.9	48.8	27.2
Zinc	150 a	410 a	**266**	**481**	21.3	**547**	**266**	38	**214**	**624**	29.8	**169**	**180**	**284**

Table 3A
SEDIMENT METALS AND TOTAL ORGANIC CARBON RESULTS

Wynn Resort Casino
Everett, Massachusetts

Sample ID	Marine Sediment Benchmarks		GZ-223 0ft-0_5ft	GZ-223 0ft-3ft	GZ-223 2ft-4ft	GZ-224 0_5ft-2ft	GZ-224 0ft-0_5ft	GZ-225 0ft-0_5ft	GZ-225 0ft-3ft	GZ-225 4ft-6ft	GZ-225 6ft-7.2ft	GZ-226 0_5ft-2ft	GZ-226 0ft-0_5ft	GZ-226 2ft-4ft
Date Sampled			3/30/2015	3/30/2015	3/30/2015	3/30/2015	3/30/2015	03/27/2015	03/27/2015	03/27/2015	03/27/2015	3/30/2015	3/30/2015	3/30/2015
Depth (ft)			0-0.5	0-3	2-4	0.5-2	0-0.5	0-0.5	0-3	4-6	6-7.2	0.5-2	0-0.5	2-4
Type			Shallow	Shallow	Deep	Shallow	Shallow	Shallow	Shallow	Deep	Deep	Shallow	Shallow	Deep
Group			ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON
Analyte	ERLs	ERMs												
Total Organic Carbo	NA	NA	-	-	-	-	-	-	-	-	-	19100	-	10100
Total Metals														
Antimony	NA	9.3 b	<4.03	<3.70	<3.86	<4.20	<4.13	0.51	0.5	<4.57	<0.45	<3.83	<4.08	<3.72
Arsenic	8.2 a	70 a	**35.6**	**137**	**107**	**185**	**70.7**	**41.1**	**27.8**	**51.9**	3.46	**91.8**	**32.2**	<1.86
Barium	NA	48 b	38.5	91.5	135	64	35.5	36.5	32.3	32	57.9	53.5	41.2	22.6
Beryllium	NA	NA	0.32	0.67	0.45	0.64	<0.41	0.22	0.49	0.49	0.76	0.47	0.33	0.38
Cadmium	1.2 a	9.6 a	<0.40	**1.58**	**1.62**	**2.47**	<0.41	<0.44	<0.44	<0.46	<0.45	**3.4**	<0.41	<0.37
Chromium	81 a	370 a	43.2	62.7	**88**	71.2	**85.5**	38.8	26.4	27.3	32.4	57.8	39.2	19.3
Lead	47 a	218 a	**250**	**1120**	**1800**	**919**	**649**	**389**	**83.5**	**123**	9.92	**1210**	**176**	13.1
Mercury	0.15 a	0.71 a	**0.974**	**11.9**	**10.3**	**10.6**	**0.672**	**0.319**	**0.628**	0.136	<0.029	**5.43**	**0.544**	0.049
Nickel	21 a	52 a	12.9	16.5	12.5	15.3	**84.4**	13.7	15.1	15.7	**23.7**	12.7	14.1	11.6
Selenium	NA	1 b	<8.06	63.6	14.9	66.5	<8.26	2.75	<4.37	<4.57	<4.55	45.8	<8.16	<7.43
Silver	1 a	3.7 a	0.49	0.53	0.59	0.68	**4.08**	<0.44	<0.44	<0.46	<0.45	0.7	0.59	<0.37
Thallium	NA	NA	<0.32	<0.30	<0.31	<0.34	<0.33	<0.35	<0.35	<0.37	<0.36	<0.31	<0.33	<0.30
Vanadium	NA	57 b	49.7	45.5	34.4	41.4	54.2	48.2	32.8	33.7	46.4	32.7	58.2	24.7
Zinc	150 a	410 a	**227**	**462**	**480**	**679**	**217**	**202**	92.5	107	52	**1150**	**187**	46.3

Table 3A
SEDIMENT METALS AND TOTAL ORGANIC CARBON RESULTS

Wynn Resort Casino
Everett, Massachusetts

Sample ID	Marine Sediment Benchmarks		LC-101 0ft-0_5ft	LC-101 2ft-4ft	LC-101 6ft-8ft	LC-102 0_5ft-2ft	LC-102 0ft-0_5ft	LC-103 0ft-0_5ft	LC-103 2ft-4ft	LC-103 4ft-6ft	LC-104 0_5ft-2ft	LC-104 0ft-0_5ft	LC-105 0ft-0_5ft	LC-105 2ft-4ft
Date Sampled			03/26/2015	03/26/2015	03/26/2015	03/26/2015	03/26/2015	03/26/2015	03/26/2015	03/26/2015	03/26/2015	03/26/2015	03/26/2015	03/26/2015
Depth (ft)			0-0.5	2-4	6-8	0.5-2	0-0.5	0-0.5	2-4	4-6	0.5-2	0-0.5	0-0.5	2-4
Type			Shallow	Deep	Deep	Shallow	Shallow	Shallow	Deep	Deep	Shallow	Shallow	Shallow	Deep
Group			LC	LC	LC	LC	LC	LC	LC	LC	LC	LC	LC	LC
Analyte	ERLs	ERMs												
Total Organic Carbo	NA	NA	51700	59000	75800	61900	-	65000	64300	62700	75300	89400	-	67100
Total Metals														
Antimony	NA	9.3 b	<1.24	<1.22	<4.35	1.42	<1.17	<1.19	<1.13	<0.95	<1.10	<1.22	<1.14	<1.24
Arsenic	8.2 a	70 a	**16.4**	**11.6**	4.34	**35.5**	**22.7**	**21**	6.3	4.58	**28.3**	**23.1**	**19.5**	**29.8**
Barium	NA	48 b	47.8	34.3	18.3	77.9	63.3	55.9	23.4	22.3	63	61.8	59.1	83.5
Beryllium	NA	NA	0.42	0.41	0.34	0.62	0.59	0.5	0.4	0.37	0.41	0.57	0.57	0.84
Cadmium	1.2 a	9.6 a	0.85	<0.49	<0.43	**4.91**	**1.26**	1.05	<0.45	<0.38	**8.51**	**1.25**	1.18	**1.65**
Chromium	81 a	370 a	55.8	34.9	16.1	**170**	79.2	69.3	19.4	17.8	66	80.3	76.3	80.8
Lead	47 a	218 a	**161**	**63.1**	<4.35	**413**	**770**	**180**	5.44	4.8	**220**	**209**	**194**	**160**
Mercury	0.15 a	0.71 a	**0.181**	0.099	<0.029	**0.449**	0.13	**0.176**	<0.027	<0.030	**0.256**	**0.215**	0.095	**0.336**
Nickel	21 a	52 a	17.9	13.9	10.3	**67.4**	**24.7**	**22.6**	12.1	11.1	16	**25.1**	**23.3**	**26.4**
Selenium	NA	1 b	<2.49	<4.88	<4.35	<2.36	<2.35	<2.38	<2.26	<3.82	<2.19	<2.44	<2.28	<2.48
Silver	1 a	3.7 a	0.88	<0.49	<0.43	**3.01**	**1.23**	**1.2**	<0.45	<0.38	0.83	**1.42**	**1.09**	0.51
Thallium	NA	NA	<0.40	<0.39	<0.35	<0.38	<0.38	<0.38	<0.36	<0.31	<0.35	<0.39	<0.37	<0.40
Vanadium	NA	57 b	49.1	38.3	22	484	68.6	67	27.2	23.9	40.4	76	65	65.2
Zinc	150 a	410 a	**235**	119	25.8	**618**	**383**	**290**	31.4	27	**293**	**329**	**346**	**277**

Table 3A
SEDIMENT METALS AND TOTAL ORGANIC CARBON RESULTS

Wynn Resort Casino
Everett, Massachusetts

Sample ID	Marine Sediment Benchmarks		LC-105 4ft-6ft	LC-106 0_5ft-2ft	LC-106 0ft-0_5ft	LC-106 4ft-6ft	LC-107 0ft-0_5ft	LC-107 2ft-4ft	LC-108 0_5ft-2ft	LC-108 0ft-0_5ft	LC-108 4ft-6ft	LC-109 0ft-0_5ft	LC-109 4ft-6ft	LC-110 0ft-0_5ft
Date Sampled			03/26/2015	03/26/2015	03/26/2015	03/26/2015	03/26/2015	03/26/2015	03/26/2015	03/26/2015	03/26/2015	03/26/2015	03/26/2015	03/27/2015
Depth (ft)			4-6	0.5-2	0-0.5	4-6	0-0.5	2-4	0.5-2	0-0.5	4-6	0-0.5	4-6	0-0.5
Type			Deep	Shallow	Shallow	Deep	Shallow	Deep	Shallow	Shallow	Deep	Shallow	Deep	Shallow
Group			LC	LC	LC	LC	LC	LC	LC	LC	LC	LC	LC	LC
Analyte	ERLs	ERMs												
Total Organic Carbo	NA	NA	61800	81900	-	61000	59900	-	-	-	35900	-	-	7310
Total Metals														
Antimony	NA	9.3 b	<1.07	<0.48	0.73	<0.42	<1.07	<1.10	2.01	<1.08	<1.06	<1.21	<1.03	0.69
Arsenic	8.2 a	70 a	**10.5**	**17.2**	**16.7**	**24.5**	**15.2**	**19.9**	**28.4**	**21.2**	**33.5**	**22**	**33.6**	**16.3**
Barium	NA	48 b	66.9	71.4	69.6	93.5	201	46.5	83.5	58.9	62.1	59.9	97.7	72.6
Beryllium	NA	NA	0.69	0.68	0.67	0.95	0.56	0.37	0.65	0.57	0.7	0.54	0.56	0.58
Cadmium	1.2 a	9.6 a	<0.43	**1.79**	**1.47**	**1.62**	**1.54**	**2.32**	**3.52**	0.99	**4.5**	1	**3.7**	**1.57**
Chromium	81 a	370 a	33.6	**93.8**	**85.7**	**86.5**	75.5	**92.3**	**128**	75.3	40.4	75.5	54.3	**83.6**
Lead	47 a	218 a	10.4	**243**	**216**	**167**	**355**	**258**	**423**	**193**	**103**	**194**	**336**	**218**
Mercury	0.15 a	0.71 a	<0.024	**0.682**	0.146	<0.032	0.147	**0.245**	**0.373**	**0.221**	0.134	**0.346**	**0.455**	**0.827**
Nickel	21 a	52 a	**24.2**	**30.5**	**27.6**	**30.9**	**24.6**	**28.9**	**44.7**	**23.7**	18.5	**25.8**	18.6	**29.8**
Selenium	NA	1 b	<2.14	<4.78	<4.74	1.91	<2.14	<2.20	<2.48	<2.16	<2.12	<2.43	3.63	<4.35
Silver	1 a	3.7 a	<0.43	**1.63**	**1.23**	<0.42	**1.07**	**1.2**	**3.09**	**1.14**	<0.42	**1.16**	0.61	**1.52**
Thallium	NA	NA	<0.34	<0.38	<0.38	<0.33	<0.34	<0.35	<0.40	<0.34	<0.34	<0.39	<0.33	<0.35
Vanadium	NA	57 b	46.1	88.2	77	74.3	66.4	131	198	68.9	40.8	69.1	43.2	82.4
Zinc	150 a	410 a	55.3	**396**	**386**	**270**	**557**	**354**	**498**	**344**	144	**334**	**309**	**300**

Table 3A
SEDIMENT METALS AND TOTAL ORGANIC CARBON RESULTS

Wynn Resort Casino
Everett, Massachusetts

Sample ID	Marine Sediment Benchmarks				LC-110 2ft-4ft	LC-111 0_5ft-2ft	LC-111 0ft-0_5ft	LC-111 4ft-6ft	LC-112 0ft-0_5ft	LC-112 4ft-6ft
Date Sampled					03/27/2015	03/27/2015	03/27/2015	03/27/2015	03/27/2015	03/27/2015
Depth (ft)					2-4	0.5-2	0-0.5	4-6	0-0.5	4-6
Type					Deep	Shallow	Shallow	Deep	Shallow	Deep
Group	ERLs		ERMs		LC	LC	LC	LC	LC	LC
Analyte										
Total Organic Carbo	NA		NA		-	33400	-	-	3880	-
Total Metals										
Antimony	NA		9.3	b	<4.07	0.85	0.59	<0.47	<0.48	<4.46
Arsenic	8.2	a	70	a	**20**	**34.1**	**13.5**	3.07	**15.1**	5.13
Barium	NA		48	b	36.7	106	66.1	30.4	64.8	12.2
Beryllium	NA		NA		0.36	0.87	0.53	0.53	0.55	0.3
Cadmium	1.2	a	9.6	a	0.47	**2.52**	1.18	<0.47	1.19	<0.45
Chromium	81	a	370	a	41.1	**83.9**	75.9	25	73.4	13.3
Lead	47	a	218	a	**94.9**	**211**	**186**	7.27	**183**	4.97
Mercury	0.15	a	0.71	a	**0.375**	**1.08**	**0.846**	<0.030	**0.76**	<0.028
Nickel	21	a	52	a	10.7	**29.8**	**29.6**	15.8	**25.1**	8.56
Selenium	NA		1	b	<4.07	<4.81	<4.65	<4.67	<4.76	<4.46
Silver	1	a	3.7	a	<0.41	<0.48	**1.37**	<0.47	**1.16**	<0.45
Thallium	NA		NA		<0.33	<0.38	<0.37	<0.37	<0.38	<0.36
Vanadium	NA		57	b	24.4	66.5	93.3	34.5	75.2	20.2
Zinc	150	a	410	a	**165**	**279**	**274**	36.3	**255**	19.6

Wynn Resort Casino
Everett, Massachusetts

Notes:

1. Results are presented in mg/kg unless otherwise noted.
2. "<" indicates that an analyte was tested for but not detected above the Method Reporting Limit (MRL). "-" indicates that an analyte was not tested for. "NA" indicates that a benchmark value is not available. "ND" indicates that an analyte was not detected.
3. Samples are designated as "Shallow" if any portion of the sample depth occurs within the uppermost 2 feet of sediment. All other samples are designated as "Deep."
4. Group designations are as follows: ON = On-Site, OFF-W = Off-Site West, OFF-E = Off-Site East, and LC = Local Conditions.
5. Marine sediment benchmarks are from the following sources:
    a. Effects Range - Low (ERL) and Effects Range - Median (ERM) Marine Sediment screening values from Long, et al., 1995.
    b. ERL and ERM equivalent Marine Sediment benchmark values from http://epa.gov/region5/waste/cars/pdfs/ecological-screening-levels-200308.pdf
6. Bolded values exceed the conservative ERL screening value.
7. Shaded values exceed the ERM benchmark value.
8. The LC-# series of samples are Local Conditions samples

Table 3B
SEDIMENT POLYCHLORINATED BIPHENYL RESULTS

Wynn Resort Casino
Everett, Massachusetts

Sample ID	Marine Sediment Benchmarks		GZ-102 6-8ft	GZ-104 2-4ft	GZ-104T 0-0_5ft	GZ-105 4-6ft	GZ-108 2-4ft	GZ-108T 0-0_5ft	GZ-109 0_5-2_5ft
Date Sampled			08/01/2013	08/06/2013	08/06/2013	08/01/2013	08/01/2013	08/06/2013	08/02/2013
Depth (ft)			6-8	2-4	0-0.5	4-6	2-4	0-0.5	0.5-2.5
Type			Deep	Deep	Shallow	Deep	Deep	Shallow	Shallow
Group			ON	ON	ON	ON	ON	ON	ON
Analyte	ERLs	ERMs							
Polychlorinated Biphenyls (PCBs)									
Aroclor 1016	NA	NA	<0.0675	<0.0710	<0.110	<0.0547	<0.0860	<0.106	<0.0389
Aroclor 1221	NA	NA	<0.0675	<0.0710	<0.110	<0.0547	<0.0860	<0.106	<0.0389
Aroclor 1232	NA	NA	<0.0675	<0.0710	<0.110	<0.0547	<0.0860	<0.106	<0.0389
Aroclor 1242	NA	NA	<0.0675	<0.0710	<0.110	<0.0547	<0.0860	<0.106	<0.0389
Aroclor 1248	NA	NA	2.45	2.51	1.14	2.08	2.45	0.399	<0.0389
Aroclor 1254	NA	NA	1.11	2.81	1.64	2.63	3.06	0.594	<0.0389
Aroclor 1260	NA	NA	0.685	1.24	0.498	1.77	1.26	0.32	<0.0389
Aroclor 1262	NA	NA	<0.0675	<0.0710	<0.110	<0.0547	<0.0860	<0.106	<0.0389
Aroclor 1268	NA	NA	<0.0675	<0.0710	<0.110	<0.0547	<0.0860	<0.106	<0.0389
Total PCBs	0.023 a	0.18 a	**4.245**	**6.56**	**3.278**	**6.48**	**6.77**	**1.313**	<0.0389

Table 3B
SEDIMENT POLYCHLORINATED BIPHENYL RESULTS

Wynn Resort Casino
Everett, Massachusetts

Sample ID	Marine Sediment Benchmarks		GZ-111 7-8ft	GZ-113 2-4ft	GZ-113T 0-0_5ft	GZ-114 2-5ft	GZ-114T 0-0_5ft	GZ-116 0_5-2ft	GZ-116 2-4ft
Date Sampled			08/01/2013	08/01/2013	08/06/2013	08/01/2013	08/06/2013	08/02/2013	08/02/2013
Depth (ft)			7-8	2-4	0-0.5	2-5	0-0.5	0.5-2	2-4
Type			Deep	Deep	Shallow	Deep	Shallow	Shallow	Deep
Group	ERLs	ERMs	ON	ON	ON	ON	ON	ON	ON
Analyte									
Polychlorinated Biphenyls (PCBs)									
Aroclor 1016	NA	NA	<0.107	<0.0453	<0.0466	<5.48	<0.0889	<0.0356	<0.0355
Aroclor 1221	NA	NA	<0.107	<0.0453	<0.0466	<5.48	<0.0889	<0.0356	<0.0355
Aroclor 1232	NA	NA	<0.107	<0.0453	<0.0466	<5.48	<0.0889	<0.0356	<0.0355
Aroclor 1242	NA	NA	<0.107	<0.0453	<0.0466	<5.48	<0.0889	<0.0356	<0.0355
Aroclor 1248	NA	NA	<0.107	<0.0453	0.648	59.7	0.266	<0.0356	<0.0355
Aroclor 1254	NA	NA	<0.107	1.38	0.914	<5.48	0.606	2.94	<0.0355
Aroclor 1260	NA	NA	<0.107	1.42	0.358	<5.48	0.462	0.995	<0.0355
Aroclor 1262	NA	NA	<0.107	<0.0453	<0.0466	<5.48	<0.0889	<0.0356	<0.0355
Aroclor 1268	NA	NA	<0.107	<0.0453	<0.0466	<5.48	<0.0889	<0.0356	<0.0355
Total PCBs	0.023 a	0.18 a	<0.107	**2.8**	**1.92**	**59.7**	**1.334**	**3.935**	<0.0355

Table 3B
SEDIMENT POLYCHLORINATED BIPHENYL RESULTS

Wynn Resort Casino
Everett, Massachusetts

Sample ID	Marine Sediment Benchmarks		GZ-116 6-8ft	GZ-116T 0-0_5ft	GZ-119 2-4ft	GZ-119T 0-0_5ft	GZ-122 0_5-2ft	GZ-122 2-4ft	GZ-122T 0-0_5ft
Date Sampled			08/02/2013	08/06/2013	08/01/2013	08/01/2013	08/02/2013	08/02/2013	08/06/2013
Depth (ft)			6-8	0-0.5	2-4	0-0.5	0.5-2	2-4	0-0.5
Type			Deep	Shallow	Deep	Shallow	Shallow	Deep	Shallow
Group	ERLs	ERMs	ON	ON	ON	ON	OFF-W	OFF-W	OFF-W
Analyte									
Polychlorinated Biphenyls (PCBs)									
Aroclor 1016	NA	NA	<0.0397	<0.0459	<0.129	<0.0849	<0.0395	<0.0378	<0.0362
Aroclor 1221	NA	NA	<0.0397	<0.0459	<0.129	<0.0849	<0.0395	<0.0378	<0.0362
Aroclor 1232	NA	NA	<0.0397	<0.0459	<0.129	<0.0849	<0.0395	<0.0378	<0.0362
Aroclor 1242	NA	NA	<0.0397	<0.0459	<0.129	<0.0849	<0.0395	<0.0378	<0.0362
Aroclor 1248	NA	NA	<0.0397	0.17	2.07	1.53	<0.0395	<0.0378	<0.0362
Aroclor 1254	NA	NA	<0.0397	0.286	3.88	1.29	<0.0395	<0.0378	0.0928
Aroclor 1260	NA	NA	<0.0397	0.211	<0.129	0.569	<0.0395	<0.0378	0.0596
Aroclor 1262	NA	NA	<0.0397	<0.0459	<0.129	<0.0849	<0.0395	<0.0378	<0.0362
Aroclor 1268	NA	NA	<0.0397	<0.0459	<0.129	<0.0849	<0.0395	<0.0378	<0.0362
Total PCBs	0.023 a	0.18 a	<0.0397	**0.667**	**5.95**	**3.389**	<0.0395	<0.0378	**0.1524**

Table 3B
SEDIMENT POLYCHLORINATED BIPHENYL RESULTS

Wynn Resort Casino
Everett, Massachusetts

Sample ID	Marine Sediment Benchmarks		GZ-126 0_5-2ft	GZ-126 2-4ft	GZ-126T 0-0_5ft	GZ-134 2-3ft	GZ-134 6-8ft	GZ-134T 0-0_5ft	GZ-136 0_5-2ft
Date Sampled			08/05/2013	08/05/2013	08/06/2013	08/02/2013	08/02/2013	08/06/2013	08/05/2013
Depth (ft)			0.5-2	2-4	0-0.5	2-3	6-8	0-0.5	0.5-2
Type			Shallow	Deep	Shallow	Shallow	Deep	Shallow	Shallow
Group	ERLs	ERMs	OFF-W	OFF-W	OFF-W	ON	ON	ON	OFF-W
Analyte									
Polychlorinated Biphenyls (PCBs)									
Aroclor 1016	NA	NA	<0.0310	<0.0340	<0.0394	<9.35	<0.0487	<0.0808	<0.0377
Aroclor 1221	NA	NA	<0.0310	<0.0340	<0.0394	<9.35	<0.0487	<0.0808	<0.0377
Aroclor 1232	NA	NA	<0.0310	<0.0340	<0.0394	<9.35	<0.0487	<0.0808	<0.0377
Aroclor 1242	NA	NA	<0.0310	<0.0340	<0.0394	<9.35	<0.0487	<0.0808	<0.0377
Aroclor 1248	NA	NA	<0.0310	<0.0340	<0.0394	113	0.29	0.991	<0.0377
Aroclor 1254	NA	NA	<0.0310	<0.0340	0.071	<9.35	0.499	1.46	1.44
Aroclor 1260	NA	NA	<0.0310	<0.0340	<0.0394	<9.35	<0.0487	0.939	<0.0377
Aroclor 1262	NA	NA	<0.0310	<0.0340	<0.0394	<9.35	0.187	<0.0808	<0.0377
Aroclor 1268	NA	NA	<0.0310	<0.0340	<0.0394	<9.35	<0.0487	<0.0808	<0.0377
Total PCBs	0.023 a	0.18 a	<0.0310	<0.0340	**0.071**	**113**	**0.976**	**3.39**	**1.44**

Table 3B
SEDIMENT POLYCHLORINATED BIPHENYL RESULTS

Wynn Resort Casino
Everett, Massachusetts

Sample ID	Marine Sediment Benchmarks		GZ-137 2-4ft	GZ-137T 0-0_5ft	GZ-140A 2-3ft	GZ-201 0ft-0_5ft	GZ-201 0ft-3ft	GZ-202 0ft-0_5ft	GZ-203 0ft-0_5ft
Date Sampled			08/05/2013	08/06/2013	08/05/2013			03/24/2015	03/24/2015
Depth (ft)			2-4	0-0.5	2-3	0-0.5	0-3	0-0.5	0-0.5
Type			Deep	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow
Group			OFF-W	OFF-W	OFF-W	OFF-E	OFF-E	OFF-E	OFF-E
Analyte	ERLs	ERMs							
Polychlorinated Biphenyls (PCBs)									
Aroclor 1016	NA	NA	<0.0323	<0.259	<0.0486	<0.0671	<0.0094	<0.0089	<0.0082
Aroclor 1221	NA	NA	<0.0323	<0.0518	<0.0486	<0.0671	<0.0094	<0.0089	<0.0082
Aroclor 1232	NA	NA	<0.0323	<0.0518	<0.0486	<0.0671	<0.0094	<0.0089	<0.0082
Aroclor 1242	NA	NA	<0.0323	<0.0518	<0.0486	<0.0671	<0.0094	<0.0089	<0.0082
Aroclor 1248	NA	NA	0.0796	0.411	<0.0486	0.326	1.17	0.554	0.496
Aroclor 1254	NA	NA	0.0826	0.713	<0.0486	0.582	0.913	0.737	0.667
Aroclor 1260	NA	NA	<0.0323	0.367	<0.0486	0.285	0.264	0.339	0.274
Aroclor 1262	NA	NA	0.0565	<0.0518	<0.0486	<0.0671	<0.0094	<0.0089	<0.0082
Aroclor 1268	NA	NA	<0.0323	<0.0518	<0.0486	<0.0671	<0.0094	<0.0089	<0.0082
Total PCBs	0.023 a	0.18 a	**0.2187**	**1.491**	<0.0486	**1.193**	**2.347**	**1.63**	**1.437**

Table 3B
SEDIMENT POLYCHLORINATED BIPHENYL RESULTS

Wynn Resort Casino
Everett, Massachusetts

Sample ID	Marine Sediment Benchmarks		GZ-203 0ft-3ft	GZ-204 0ft-0_5ft	GZ-204 2ft-4ft	GZ-205 0ft-0_5ft	GZ-205 0ft-3ft	GZ-206 0ft-0_5ft	GZ-206 0ft-3ft
Date Sampled			03/24/2015	03/24/2015	03/24/2015	3/25/2015	3/25/2015	3/25/2015	3/25/2015
Depth (ft)			0-3	0.0.5	2-4	0-0.5	0-3	0-0.5	0-3
Type			Shallow	Shallow	Deep	Shallow	Shallow	Shallow	Shallow
Group	ERLs	ERMs	OFF-E	OFF-E	OFF-E	OFF-E	OFF-E	ON	ON
Analyte									
Polychlorinated Biphenyls (PCBs)									
Aroclor 1016	NA	NA	<0.402	<0.0082	<0.167	<0.0092	<2.05	<0.0123	<0.440
Aroclor 1221	NA	NA	<0.402	<0.0082	<0.167	<0.0092	<2.05	<0.0123	<0.440
Aroclor 1232	NA	NA	<0.402	<0.0082	<0.167	<0.0092	<2.05	<0.0123	<0.440
Aroclor 1242	NA	NA	<0.402	<0.0082	<0.167	<0.0092	<2.05	<0.0123	<0.440
Aroclor 1248	NA	NA	5.1	0.577	1.77	0.482	21.5	0.75	5.43
Aroclor 1254	NA	NA	2.83	0.637	2.07	0.662	<2.05	1.1	3.09
Aroclor 1260	NA	NA	0.699	0.243	0.741	0.249	<2.05	0.426	0.667
Aroclor 1262	NA	NA	<0.402	<0.0082	<0.167	<0.0092	<2.05	<0.0123	<0.440
Aroclor 1268	NA	NA	<0.402	<0.0082	<0.167	<0.0092	<2.05	<0.0123	<0.440
Total PCBs	0.023 a	0.18 a	**8.629**	**1.457**	**4.581**	**1.393**	**21.5**	**2.276**	**9.187**

Table 3B
SEDIMENT POLYCHLORINATED BIPHENYL RESULTS

Wynn Resort Casino
Everett, Massachusetts

Sample ID	Marine Sediment Benchmarks		GZ-206 4ft-6ft	GZ-207 0ft-0_5ft	GZ-207 0ft-3ft	GZ-208 0ft-0_5ft	GZ-209 0ft-0_5ft	GZ-209 2ft-4ft	GZ-210 0ft-0_5ft
Date Sampled			3/25/2015	3/25/2015	3/25/2015	3/25/2015	3/25/2015	3/25/2015	3/30/2015
Depth (ft)			4-6	0-0.5	0-3	0-0.5	0-0.5	2-4	0-0.5
Type			Deep	Shallow	Shallow	Shallow	Shallow	Deep	Shallow
Group			ON	ON	ON	ON	ON	ON	OFF-E
Analyte	ERLs	ERMs							
Polychlorinated Biphenyls (PCBs)									
Aroclor 1016	NA	NA	<0.0076	<0.0087	<0.557	<0.0091	<0.0096	<2.31	<0.0082
Aroclor 1221	NA	NA	<0.0076	<0.0087	<0.557	<0.0091	<0.0096	<2.31	<0.0082
Aroclor 1232	NA	NA	<0.0076	<0.0087	<0.557	<0.0091	<0.0096	<2.31	<0.0082
Aroclor 1242	NA	NA	<0.0076	<0.0087	<0.557	<0.0091	<0.0096	<2.31	<0.0082
Aroclor 1248	NA	NA	0.312	0.489	6.42	0.175	0.231	20.3	0.0366
Aroclor 1254	NA	NA	0.305	0.692	2.63	0.452	0.473	<2.31	0.056
Aroclor 1260	NA	NA	0.0897	0.261	<0.557	0.197	0.232	<2.31	0.0282
Aroclor 1262	NA	NA	<0.0076	<0.0087	<0.557	<0.0091	<0.0096	<2.31	<0.0082
Aroclor 1268	NA	NA	<0.0076	<0.0087	<0.557	<0.0091	<0.0096	<2.31	<0.0082
Total PCBs	0.023 a	0.18 a	**0.7067**	**1.442**	**9.05**	**0.824**	**0.936**	**20.3**	**0.1208**

Table 3B
SEDIMENT POLYCHLORINATED BIPHENYL RESULTS

Wynn Resort Casino
Everett, Massachusetts

Sample ID	Marine Sediment Benchmarks		GZ-211 0ft-0_5ft	GZ-211 0ft-3ft	GZ-212 0ft-0_5ft	GZ-213 0ft-0_5ft	GZ-213 0ft-3ft	GZ-214 0ft-0_5ft	GZ-214 2ft-4ft
Date Sampled			3/30/2015	3/30/2015	03/24/2015	3/25/2015	3/25/2015	3/30/2015	3/30/2015
Depth (ft)			0-0.5	0-3	0-0.5	0-0.5	0-3	0-0.5	2-4
Type			Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Deep
Group	ERLs	ERMs	OFF-E	OFF-E	OFF-E	ON	ON	ON	ON
Analyte									
Polychlorinated Biphenyls (PCBs)								-	-
Aroclor 1016	NA	NA	<0.0077	<0.0083	<0.0076	<0.0075	<0.0076	<0.0074	<0.0083
Aroclor 1221	NA	NA	<0.0077	<0.0083	<0.0076	<0.0075	<0.0076	<0.0074	<0.0083
Aroclor 1232	NA	NA	<0.0077	<0.0083	<0.0076	<0.0075	<0.0076	<0.0074	<0.0083
Aroclor 1242	NA	NA	<0.0077	<0.0083	<0.0076	<0.0075	<0.0076	<0.0074	<0.0083
Aroclor 1248	NA	NA	0.0356	<0.0083	0.0576	0.479	0.0307	0.0924	<0.0083
Aroclor 1254	NA	NA	0.0543	<0.0083	0.0856	0.594	0.0247	0.247	<0.0083
Aroclor 1260	NA	NA	0.0275	<0.0083	0.0356	0.138	<0.0076	0.0962	<0.0083
Aroclor 1262	NA	NA	<0.0077	<0.0083	<0.0076	<0.0075	<0.0076	<0.0074	<0.0083
Aroclor 1268	NA	NA	<0.0077	<0.0083	<0.0076	<0.0075	<0.0076	<0.0074	<0.0083
Total PCBs	0.023 a	0.18 a	**0.1174**	<0.0083	**0.1788**	**1.211**	**0.0554**	**0.4356**	<0.0083

Table 3B
SEDIMENT POLYCHLORINATED BIPHENYL RESULTS

Wynn Resort Casino
Everett, Massachusetts

Sample ID	Marine Sediment Benchmarks		GZ-214 4ft-6ft	GZ-215 0ft-0_5ft	GZ-215 0ft-3ft	GZ-216 0ft-0_5ft	GZ-216 2ft-4ft	GZ-217 0ft-0_5ft	GZ-217 0ft-3ft
Date Sampled						03/24/2015	03/24/2015	03/24/2015	03/24/2015
Depth (ft)			4-6	0-0.5	0-3	0-0.5	2-4	0-0.5	0-3
Type			Deep	Shallow	Shallow	Shallow	Deep	Shallow	Shallow
Group	ERLs	ERMs	ON	ON	ON	ON	ON	ON	ON
Analyte									
Polychlorinated Biphenyls (PCBs)			-	-	-				
Aroclor 1016	NA	NA	<0.0077	<0.0081	<0.0083	<0.0079	<0.0079	<0.0080	<0.0080
Aroclor 1221	NA	NA	<0.0077	<0.0081	<0.0083	<0.0079	<0.0079	<0.0080	<0.0080
Aroclor 1232	NA	NA	<0.0077	<0.0081	<0.0083	<0.0079	<0.0079	<0.0080	<0.0080
Aroclor 1242	NA	NA	<0.0077	<0.0081	<0.0083	<0.0079	<0.0079	<0.0080	<0.0080
Aroclor 1248	NA	NA	<0.0077	0.122	<0.0083	0.256	<0.0079	0.0718	0.0418
Aroclor 1254	NA	NA	<0.0077	0.435	<0.0083	0.343	0.0087	0.0971	0.0272
Aroclor 1260	NA	NA	<0.0077	0.167	<0.0083	0.18	<0.0079	0.0535	0.0324
Aroclor 1262	NA	NA	<0.0077	<0.0081	<0.0083	<0.0079	<0.0079	<0.0080	<0.0080
Aroclor 1268	NA	NA	<0.0077	<0.0081	<0.0083	<0.0079	<0.0079	<0.0080	<0.0080
Total PCBs	0.023 a	0.18 a	<0.0077	**0.724**	<0.0083	**0.779**	0.0087	**0.2224**	**0.1014**

Table 3B
SEDIMENT POLYCHLORINATED BIPHENYL RESULTS

Wynn Resort Casino
Everett, Massachusetts

Sample ID	Marine Sediment Benchmarks		GZ-218 0_5ft-2ft	GZ-218 0ft-0_5ft	GZ-219 0ft-0_5ft	GZ-219 0ft-3ft	GZ-220 0_5ft-2ft	GZ-220 0ft-0_5ft	GZ-221 0ft-0_5ft
Date Sampled			3/25/2015	3/25/2015	3/25/2015	3/25/2015	3/30/2015	3/30/2015	3/30/2015
Depth (ft)			0.5-2	0-0.5	0-0.5	0-3	0.5-2	0-0.5	0-0.5
Type			Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow
Group			ON	ON	ON	ON	ON	ON	ON
Analyte	ERLs	ERMs							
Polychlorinated Biphenyls (PCBs)									
Aroclor 1016	NA	NA	<0.0078	<0.0080	<0.0076	<0.0081	<0.0076	<0.0082	<0.0076
Aroclor 1221	NA	NA	<0.0078	<0.0080	<0.0076	<0.0081	<0.0076	<0.0082	<0.0076
Aroclor 1232	NA	NA	<0.0078	<0.0080	<0.0076	<0.0081	<0.0076	<0.0082	<0.0076
Aroclor 1242	NA	NA	<0.0078	<0.0080	<0.0076	<0.0081	<0.0076	<0.0082	<0.0076
Aroclor 1248	NA	NA	<0.0078	0.136	0.112	<0.0081	<0.0076	0.115	0.608
Aroclor 1254	NA	NA	<0.0078	0.424	0.287	<0.0081	<0.0076	0.348	0.823
Aroclor 1260	NA	NA	<0.0078	0.14	0.0935	<0.0081	<0.0076	0.145	0.271
Aroclor 1262	NA	NA	<0.0078	<0.0080	<0.0076	<0.0081	0.0092	<0.0082	<0.0076
Aroclor 1268	NA	NA	<0.0078	<0.0080	<0.0076	<0.0081	<0.0076	<0.0082	<0.0076
Total PCBs	0.023 a	0.18 a	<0.0078	**0.7**	**0.4925**	<0.0081	0.0092	**0.608**	**1.702**

Table 3B
SEDIMENT POLYCHLORINATED BIPHENYL RESULTS

Wynn Resort Casino
Everett, Massachusetts

Sample ID	Marine Sediment Benchmarks		GZ-221 0ft-3ft	GZ-222 0ft-0_5ft	GZ-223 0ft-0_5ft	GZ-223 0ft-3ft	GZ-224 0_5ft-2ft	GZ-224 0ft-0_5ft	GZ-225 0ft-0_5ft
Date Sampled			3/30/2015	3/30/2015	3/30/2015	3/30/2015	3/30/2015	3/30/2015	03/27/2015
Depth (ft)			0-3	0-0.5	0-0.5	0-3	0.5-2	0-0.5	0-0.5
Type			Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow
Group			ON	ON	ON	ON	ON	ON	ON
Analyte	ERLs	ERMs							
Polychlorinated Biphenyls (PCBs)							-	-	
Aroclor 1016	NA	NA	<0.0081	<0.0073	<0.0079	<0.0080	<0.0082	<0.0077	<0.0083
Aroclor 1221	NA	NA	<0.0081	<0.0073	<0.0079	<0.0080	<0.0082	<0.0077	<0.0083
Aroclor 1232	NA	NA	<0.0081	<0.0073	<0.0079	<0.0080	<0.0082	<0.0077	<0.0083
Aroclor 1242	NA	NA	<0.0081	<0.0073	<0.0079	<0.0080	<0.0082	<0.0077	<0.0083
Aroclor 1248	NA	NA	0.0245	0.147	0.12	<0.0080	0.0211	0.0423	0.119
Aroclor 1254	NA	NA	0.0488	0.485	0.314	<0.0080	0.0174	0.11	0.284
Aroclor 1260	NA	NA	0.0196	0.144	0.1	<0.0080	<0.0082	0.0564	0.108
Aroclor 1262	NA	NA	<0.0081	<0.0073	<0.0079	<0.0080	<0.0082	<0.0077	<0.0083
Aroclor 1268	NA	NA	<0.0081	<0.0073	<0.0079	<0.0080	<0.0082	<0.0077	<0.0083
Total PCBs	0.023 a	0.18 a	**0.0929**	**0.776**	**0.534**	<0.0080	**0.0385**	**0.2087**	**0.511**

Table 3B
SEDIMENT POLYCHLORINATED BIPHENYL RESULTS

Wynn Resort Casino
Everett, Massachusetts

Sample ID	Marine Sediment Benchmarks		GZ-225 0ft-3ft	GZ-226 0ft-0_5ft	LC-101 0ft-0_5ft	LC-102 0_5ft-2ft	LC-102 0ft-0_5ft	LC-103 0ft-0_5ft	LC-104 0ft-0_5ft
Date Sampled			03/27/2015	3/30/2015	03/26/2015	03/26/2015	03/26/2015	03/26/2015	03/26/2015
Depth (ft)			0-3	0-0.5	0-0.5	0.5-2	0-0.5	0-0.5	0-0.5
Type			Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow
Group	ERLs	ERMs	ON	ON	LC	LC	LC	LC	LC
Analyte									
Polychlorinated Biphenyls (PCBs)									
Aroclor 1016	NA	NA	<0.0081	<0.0078	<0.0079	<0.469	<0.0837	<0.0089	<0.0104
Aroclor 1221	NA	NA	<0.0081	<0.0078	<0.0079	<0.469	<0.0837	<0.0089	<0.0104
Aroclor 1232	NA	NA	<0.0081	<0.0078	<0.0079	<0.469	<0.0837	<0.0089	<0.0104
Aroclor 1242	NA	NA	<0.0081	<0.0078	<0.0079	<0.469	<0.0837	<0.0089	<0.0104
Aroclor 1248	NA	NA	0.0388	0.454	0.217	6.83	0.461	0.281	0.391
Aroclor 1254	NA	NA	0.0495	0.593	0.395	8.39	0.869	0.519	0.701
Aroclor 1260	NA	NA	0.016	0.312	0.191	<0.469	0.428	0.232	0.319
Aroclor 1262	NA	NA	<0.0081	<0.0078	<0.0079	<0.469	<0.0837	<0.0089	<0.0104
Aroclor 1268	NA	NA	<0.0081	<0.0078	<0.0079	<0.469	<0.0837	<0.0089	<0.0104
Total PCBs	0.023 a	0.18 a	**0.1043**	**1.359**	**0.803**	**15.22**	**1.758**	**1.032**	**1.411**

Table 3B
SEDIMENT POLYCHLORINATED BIPHENYL RESULTS

Wynn Resort Casino
Everett, Massachusetts

Sample ID	Marine Sediment Benchmarks		LC-105 0ft-0_5ft	LC-105 4ft-6ft	LC-106 0_5ft-2ft	LC-106 0ft-0_5ft	LC-107 0ft-0_5ft	LC-107 2ft-4ft	LC-108 0ft-0_5ft
Date Sampled			03/26/2015	03/26/2015	03/26/2015	03/26/2015	03/26/2015	03/26/2015	03/26/2015
Depth (ft)			0-0.5	4-6	0.5-2	0-0.5	0-0.5	2-4	0-0.5
Type			Shallow	Deep	Shallow	Shallow	Shallow	Deep	Shallow
Group			LC	LC	LC	LC	LC	LC	LC
Analyte	ERLs	ERMs							
Polychlorinated Biphenyls (PCBs)									
Aroclor 1016	NA	NA	<0.0090	<0.0079	<0.163	<0.0279	<0.0295	<0.399	<0.0096
Aroclor 1221	NA	NA	<0.0090	<0.0079	<0.163	<0.0279	<0.0295	<0.399	<0.0096
Aroclor 1232	NA	NA	<0.0090	<0.0079	<0.163	<0.0279	<0.0295	<0.399	<0.0096
Aroclor 1242	NA	NA	<0.0090	<0.0079	<0.163	<0.0279	<0.0295	<0.399	<0.0096
Aroclor 1248	NA	NA	0.179	<0.0079	1.29	0.442	0.158	4.83	0.275
Aroclor 1254	NA	NA	0.511	0.0086	2.07	0.755	0.258	4.52	0.411
Aroclor 1260	NA	NA	0.243	<0.0079	0.85	0.392	0.19	<0.399	0.187
Aroclor 1262	NA	NA	<0.0090	<0.0079	<0.163	<0.0279	<0.0295	<0.399	<0.0096
Aroclor 1268	NA	NA	<0.0090	<0.0079	<0.163	<0.0279	<0.0295	<0.399	<0.0096
Total PCBs	0.023 a	0.18 a	**0.933**	0.0086	**4.21**	**1.589**	**0.606**	**9.35**	**0.873**

Table 3B
SEDIMENT POLYCHLORINATED BIPHENYL RESULTS

Wynn Resort Casino
Everett, Massachusetts

Sample ID	Marine Sediment Benchmarks		LC-108 4ft-6ft	LC-109 0ft-0_5ft	LC-110 0ft-0_5ft	LC-111 0ft-0_5ft	LC-112 0ft-0_5ft	LC-112 4ft-6ft
Date Sampled			03/26/2015	03/26/2015	03/27/2015	03/27/2015	03/27/2015	03/27/2015
Depth (ft)			4-6	0-0.5	0-0.5	0-0.5	0-0.5	4-6
Type			Deep	Shallow	Shallow	Shallow	Shallow	Deep
Group	ERLs	ERMs	LC	LC	LC	LC	LC	LC
Analyte								
Polychlorinated Biphenyls (PCBs)								
Aroclor 1016	NA	NA	<0.0361	<0.0385	<0.0082	<0.0085	<0.0095	<0.0080
Aroclor 1221	NA	NA	<0.0361	<0.0385	<0.0082	<0.0085	<0.0095	<0.0080
Aroclor 1232	NA	NA	<0.0361	<0.0385	<0.0082	<0.0085	<0.0095	<0.0080
Aroclor 1242	NA	NA	<0.0361	<0.0385	<0.0082	<0.0085	<0.0095	<0.0080
Aroclor 1248	NA	NA	0.0672	0.342	0.334	0.54	0.3	<0.0080
Aroclor 1254	NA	NA	0.234	0.597	0.673	0.813	0.48	<0.0080
Aroclor 1260	NA	NA	0.158	0.299	0.316	0.381	0.265	<0.0080
Aroclor 1262	NA	NA	<0.0361	<0.0385	<0.0082	<0.0085	<0.0095	<0.0080
Aroclor 1268	NA	NA	<0.0361	<0.0385	<0.0082	<0.0085	<0.0095	<0.0080
Total PCBs	0.023 a	0.18 a	**0.4592**	**1.238**	**1.323**	**1.734**	**1.045**	<0.0080

Wynn Resort Casino
Everett, Massachusetts

Notes:

1. Results are presented in mg/kg unless otherwise noted.
2. "<" indicates that an analyte was tested for but not detected above the Method Reporting Limit (MRL). "-" indicates that an analyte was not tested for. "NA" indicates that a benchmark value is not available. "ND" indicates that an analyte was not detected.
3. Samples are designated as "Shallow" if any portion of the sample depth occurs within the uppermost 2 feet of sediment. All other samples are designated as "Deep."
4. Group designations are as follows: ON = On-Site, OFF-W = Off-Site West, OFF-E = Off-Site East, and LC = Local Conditions.
5. Marine sediment benchmarks are from the following sources:
    a. Effects Range - Low (ERL) and Effects Range - Median (ERM) Marine Sediment screening values from Long, et al., 1995.
6. Bolded values exceed the conservative ERL screening value.
7. Shaded values exceed the ERM benchmark value.
8. The LC-# series of samples are Local Conditions samples

Table 3C
SEDIMENT SEMI-VOLATILE ORAGNIC COMPOUNDS RESULTS

Wynn Resort Casino
Everett, Massachusetts

Sample ID	Marine Sediment Benchmarks		GZ-102 6-8ft	GZ-104 2-4ft	GZ-104T 0-0_5ft	GZ-105 4-6ft	GZ-108 2-4ft	GZ-108T 0-0_5ft	GZ-109 0_5-2_5ft	GZ-111 7-8ft	GZ-113 2-4ft	GZ-113T 0-0_5ft	GZ-114 2-5ft	GZ-114T 0-0_5ft	GZ-116 0_5-2ft	GZ-116 2-4ft	GZ-116 6-8ft	GZ-116T 0-0_5ft	GZ-119 2-4ft	GZ-119T 0-0_5ft	GZ-122 0_5-2ft	GZ-122 2-4ft	GZ-122T 0-0_5ft	GZ-126 0_5-2ft
Date Sampled			08/01/2013	08/06/2013	08/06/2013	08/01/2013	08/01/2013	08/06/2013	08/02/2013	08/01/2013	08/01/2013	08/06/2013	08/01/2013	08/06/2013	08/02/2013	08/02/2013	08/02/2013	08/06/2013	08/01/2013	08/01/2013	08/02/2013	08/02/2013	08/06/2013	08/05/2013
Depth (ft)			6-8	2-4	0-0.5	4-6	2-4	0-0.5	0.5-2.5	7-8	2-4	0-0.5	2-5	0-0.5	0.5-2	2-4	6-8	0-0.5	2-4	0-0.5	0.5-2	2-4	0-0.5	0.5-2
Type			Deep	Deep	Shallow	Deep	Deep	Shallow	Shallow	Deep	Deep	Shallow	Deep	Shallow	Shallow	Deep	Deep	Shallow	Deep	Shallow	Shallow	Deep	Shallow	Shallow
Group			ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	OFF-W	OFF-W	OFF-W	OFF-W
Analyte	ERLs	ERMs																						
Semi-Volatile Organic Compounds (SVOCs)																								
1,2,4-Trichlorobenzene	NA	NA	<0.448	<0.473	<0.747	<0.366	<0.561	<0.691	<1.53	<0.718	<1.85	<0.314	<0.701	<0.563	<0.906	<1.39	<0.258	<0.293	<0.813	<0.544	<0.255	<0.245	<0.229	<0.203
1,2-Dichlorobenzene	NA	0.013 b	<0.448	0.564	<0.747	<0.366	<0.561	<0.691	<1.53	<0.718	<1.85	<0.314	<0.701	<0.563	<0.906	<1.39	<0.258	<0.293	<0.813	<0.544	<0.255	<0.245	<0.229	<0.203
1,3-Dichlorobenzene	NA	NA	<0.448	<0.473	<0.747	<0.366	<0.561	<0.691	<1.53	<0.718	<1.85	<0.314	<0.701	<0.563	<0.906	<1.39	<0.258	<0.293	<0.813	<0.544	<0.255	<0.245	<0.229	<0.203
1,4-Dichlorobenzene	NA	0.11 a	<0.448	<0.473	<0.747	<0.366	<0.561	<0.691	<1.53	<0.718	<1.85	<0.314	<0.701	<0.563	<0.906	<1.39	<0.258	<0.293	<0.813	<0.544	<0.255	<0.245	<0.229	<0.203
2,4,5-Trichlorophenol	NA	0.003 b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	NA	0.005 b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrophenol	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrotoluene	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,6-Dinitrotoluene	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Chloronaphthalene	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Chlorophenol	NA	0.008 b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Methylnaphthalene	0.07 a	0.67 a	<0.448	<0.473	<0.747	<0.366	<0.561	<0.691	<1.53	<0.718	<1.85	<0.314	<0.701	<0.563	<0.906	<1.39	<0.258	<0.293	<0.813	<0.544	<0.255	<0.245	<0.229	<0.203
2-Methylphenol	NA	NA	<0.448	<0.473	<0.747	<0.366	<0.561	<0.691	<1.53	<0.718	<1.85	<0.314	<0.701	<0.563	<0.906	<1.39	<0.258	<0.293	<0.813	<0.544	<0.255	<0.245	<0.229	<0.203
2-Nitrophenol	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3,3′-Dichlorobenzidine	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3+4-Methylphenol	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Bromophenyl-phenylether	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Chloroaniline	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acetophenone	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthene	0.016 a	0.5 a	<0.448	<0.473	<0.747	<0.366	<0.561	<0.691	<1.53	<0.718	<1.85	<0.314	<0.701	<0.563	<0.906	<1.39	<0.258	<0.293	<0.813	<0.544	<0.255	<0.245	<0.229	<0.203
Acenaphthylene	0.044 a	0.64 a	<0.448	<0.473	<0.747	<0.366	<0.561	<0.691	<1.53	<0.718	<1.85	<0.314	<0.701	<0.563	<0.906	<1.39	<0.258	<0.293	<0.813	<0.544	<0.255	<0.245	<0.229	<0.203
Aniline	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene	0.085 a	1.1 a	<0.448	<0.473	<0.747	<0.366	<0.561	<0.691	<1.53	<0.718	<1.85	<0.314	<0.701	<0.563	<0.906	<1.39	<0.258	<0.293	<0.813	<0.544	<0.255	<0.245	<0.229	<0.203
Azobenzene	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	0.261 a	1.6 a	<0.448	**0.577**	**1.86**	**0.567**	<0.561	<0.691	<1.53	<0.718	<1.85	<0.314	<0.701	<0.563	<0.906	<1.39	<0.258	**0.442**	<0.813	**0.715**	<0.255	<0.245	<0.229	<0.203
Benzo(a)pyrene	0.43 a	1.6 a	<0.225	**0.602**	**1.72**	**0.579**	**0.552**	**0.58**	<0.767	<0.360	<0.927	0.231	0.354	<0.283	<0.455	<0.696	<0.129	**0.596**	<0.408	**1.03**	<0.128	<0.123	<0.115	<0.102
Benzo(b)fluoranthene	NA	1.8 b	<0.448	0.811	2.03	0.706	0.701	0.767	<1.53	<0.718	<1.85	<0.314	<0.701	<0.563	<0.906	<1.39	<0.258	0.981	<0.813	1.62	<0.255	<0.245	<0.229	<0.203
Benzo(g,h,i)perylene	NA	NA	<0.448	<0.473	0.826	<0.366	<0.561	<0.691	<1.53	<0.718	<1.85	<0.314	<0.701	<0.563	<0.906	<1.39	<0.258	<0.293	<0.813	<0.544	<0.255	<0.245	<0.229	<0.203
Benzo(k)fluoranthene	NA	NA	<0.448	<0.473	1.16	<0.366	<0.561	<0.691	<1.53	<0.718	<1.85	<0.314	<0.701	<0.563	<0.906	<1.39	<0.258	0.342	<0.813	0.724	<0.255	<0.245	<0.229	<0.203
bis(2-Chloroethoxy)methane	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
bis(2-chloroisopropyl)Ether	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate	0.18216 b	2.64651 b	**498**	**357**	**7**	**74**	**44.5**	**4.27**	<1.53	**15.2**	**30.4**	**2.27**	**1270**	**0.979**	**543**	**4.44**	<0.258	**2.94**	**1170**	**131**	<0.255	<0.245	<0.229	<0.203
Butylbenzylphthalate	NA	0.063 b	0.748	0.598	<0.747	<0.366	<0.561	<0.691	<1.53	<0.718	<1.85	<0.314	<0.701	<0.563	<0.906	<1.39	<0.258	<0.293	<0.813	<0.544	<0.255	<0.245	<0.229	<0.203
Carbazole	NA	NA	<0.448	<0.473	<0.747	<0.366	<0.561	<0.691	<1.53	<0.718	<1.85	<0.314	<0.701	<0.563	<0.906	<1.39	<0.258	<0.293	<0.813	<0.544	<0.255	<0.245	<0.229	<0.203
Chrysene	0.384 a	2.8 a	<0.225	**0.84**	**2.09**	**0.656**	**0.629**	**0.63**	**1.88**	<0.360	<0.927	0.256	**0.567**	<0.283	<0.455	<0.696	<0.129	**0.647**	<0.408	**1.15**	<0.128	<0.123	<0.115	<0.102
Dibenzo(a,h)Anthracene	0.063 a	0.26 a	<0.225	<0.237	<0.375	<0.184	<0.281	<0.347	<0.767	<0.360	<0.927	<0.158	<0.351	<0.283	<0.455	<0.696	<0.129	<0.147	<0.408	<0.273	<0.128	<0.123	<0.115	<0.102
Dibenzofuran	NA	NA	<0.448	<0.473	<0.747	<0.366	<0.561	<0.691	<1.53	<0.718	<1.85	<0.314	<0.701	<0.563	<0.906	<1.39	<0.258	<0.293	<0.813	<0.544	<0.255	<0.245	<0.229	<0.203
Diethylphthalate	NA	0.006 b	<0.448	<0.473	<0.747	<0.366	<0.561	<0.691	<1.53	<0.718	<1.85	<0.314	<0.701	<0.563	<0.906	<1.39	<0.258	<0.293	<0.813	<0.544	<0.255	<0.245	<0.229	<0.203
Dimethylphthalate	NA	NA	<0.448	<0.473	<0.747	<0.366	<0.561	<0.691	<1.53	<0.718	<1.85	<0.314	<0.701	<0.563	<0.906	<1.39	<0.258	<0.293	<0.813	<0.544	<0.255	<0.245	<0.229	<0.203
Di-n-butylphthalate	NA	0.058 b	<0.448	<0.473	<0.747	<0.366	<0.561	<0.691	<1.53	<0.718	<1.85	<0.314	<0.701	<0.563	<0.906	<1.39	<0.258	<0.293	<0.813	<0.544	<0.255	<0.245	<0.229	<0.203
Di-n-octylphthalate	NA	NA	36.2	28.2	<0.747	<0.366	1.13	<0.691	<1.53	0.751	<1.85	<0.314	46.7	<0.563	34.8	<1.39	<0.258	<0.293	2.34	7.86	<0.255	<0.245	<0.229	<0.203
Fluoranthene	0.6 a	5.1 a	<0.448	**1.39**	**3.53**	**1**	**1.21**	**1.02**	**4.91**	<0.718	<1.85	0.431	**1.49**	<0.563	**0.981**	<1.39	<0.258	**0.901**	<0.813	**1.89**	<0.255	<0.245	<0.229	<0.203
Fluorene	0.019 a	0.54 a	<0.448	<0.473	<0.747	<0.366	<0.561	<0.691	<1.53	<0.718	<1.85	<0.314	<0.701	<0.563	<0.906	<1.39	<0.258	<0.293	<0.813	<0.544	<0.255	<0.245	<0.229	<0.203
Hexachlorobenzene	NA	NA	<0.448	<0.473	<0.747	<0.366	<0.561	<0.691	<1.53	<0.718	<1.85	<0.314	<0.701	<0.563	<0.906	<1.39	<0.258	<0.293	<0.813	<0.544	<0.255	<0.245	<0.229	<0.203
Hexachlorobutadiene	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachloroethane	NA	0.073 b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)Pyrene	NA	NA	<0.448	<0.473	<0.747	<0.366	<0.561	<0.691	<1.53	<0.718	<1.85	<0.314	<0.701	<0.563	<0.906	<1.39	<0.258	<0.293	<0.813	<0.544	<0.255	<0.245	<0.229	<0.203
Isophorone	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	0.16 a	2.1 a	<0.448	<0.473	<0.747	<0.366	<0.561	<0.691	<1.53	<0.718	<1.85	<0.314	**3.17**	<0.563	<0.906	<1.39	<0.258	<0.293	**1.05**	<0.544	<0.255	<0.245	<0.229	<0.203
Nitrobenzene	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodimethylamine	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	NA	0.017 b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	0.24 a	1.5 a	<0.448	**0.497**	**0.952**	**0.422**	<0.561	<0.691	<1.53	<0.718	<1.85	<0.314	**1.62**	<0.563	<0.906	<1.39	<0.258	<0.293	<0.813	**0.621**	<0.255	<0.245	<0.229	<0.203
Phenol	NA	0.13 b	<0.448	<0.473	<0.747	<0.366	<0.561	<0.691	<1.53	<0.718	<1.85	<0.314	<0.701	<0.563	<0.906	<1.39	<0.258	<0.293	<0.813	<0.544	<0.255	<0.245	<0.229	<0.203
Pyrene	0.665 a	2.6 a	<0.448	**1.11**	**3.19**	**1.06**	**1.01**	**0.987**	**5.34**	<0.718	<1.85	0.408	**1.18**	<0.563	<0.906	<1.39	<0.258	**0.816**	<0.813	**1.56**	<0.255	<0.245	<0.229	<0.203

Table 3C
SEDIMENT SEMI-VOLATILE ORAGNIC COMPOUNDS RESULTS

Wynn Resort Casino
Everett, Massachusetts

Sample ID	Marine Sediment Benchmarks		GZ-126 2-4ft	GZ-126T 0-0_5ft	GZ-134 2-3ft	GZ-134 6-8ft	GZ-134T 0-0_5ft	GZ-136 0_5-2ft	GZ-137 2-4ft	GZ-137T 0-0_5ft	GZ-140A 2-3ft	GZ-201 0ft-0_5ft	GZ-201 0ft-3ft	GZ-202 0ft-0_5ft	GZ-203 0ft-0_5ft	GZ-203 0ft-3ft	GZ-204 0ft-0_5ft	GZ-204 2ft-4ft	GZ-205 0ft-0_5ft	GZ-205 0ft-3ft	GZ-206 0ft-0_5ft	GZ-206 0ft-3ft	GZ-206 4ft-6ft	GZ-207 0ft-0_5ft
Date Sampled			08/05/2013	08/06/2013	08/02/2013	08/02/2013	08/06/2013	08/05/2013	08/05/2013	08/06/2013	08/05/2013			03/24/2015	03/24/2015	03/24/2015	03/24/2015	03/24/2015	3/25/2015	3/25/2015	3/25/2015	3/25/2015	3/25/2015	3/25/2015
Depth (ft)			2-4	0-0.5	2-3	6-8	0-0.5	0.5-2	2-4	0-0.5	2-3	0-0.5	0-3	0-0.5	0-0.5	0-3	0.0.5	2-4	0-0.5	0-3	0-0.5	0-3	4-6	0-0.5
Type			Deep	Shallow	Shallow	Deep	Shallow	Shallow	Deep	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Deep	Shallow	Shallow	Shallow	Shallow	Deep	Shallow
Group	ERLs	ERMs	OFF-W	OFF-W	ON	ON	ON	OFF-W	OFF-W	OFF-W	OFF-W	OFF-E	OFF-E	OFF-E	OFF-E	OFF-E	OFF-E	OFF-E	OFF-E	OFF-E	ON	ON	ON	ON
Analyte																								
Semi-Volatile Organic Compounds (SVOCs)																								
1,2,4-Trichlorobenzene	NA	NA	<0.327	<0.252	<0.593	<0.316	<0.511	<0.241	<0.415	<0.329	<0.629	<0.596	<0.428	<0.663	<0.460	<0.463	<0.459	<0.587	<0.419	<0.521	<0.536	<0.474	<0.273	<0.516
1,2-Dichlorobenzene	NA	0.013 b	<0.327	<0.252	<0.593	<0.316	<0.511	<0.241	<0.415	<0.329	<0.629	<0.596	<0.428	<0.663	<0.460	<0.463	<0.459	<0.587	<0.419	<0.521	<0.536	<0.474	<0.273	<0.516
1,3-Dichlorobenzene	NA	NA	<0.327	<0.252	<0.593	<0.316	<0.511	<0.241	<0.415	<0.329	<0.629	<0.596	<0.428	<0.663	<0.460	<0.463	<0.459	<0.587	<0.419	<0.521	<0.536	<0.474	<0.273	<0.516
1,4-Dichlorobenzene	NA	0.11 a	<0.327	<0.252	<0.593	<0.316	<0.511	<0.241	<0.415	<0.329	<0.629	<0.596	<0.428	<0.663	<0.460	<0.463	<0.459	<0.587	<0.419	<0.521	<0.536	<0.474	<0.273	<0.516
2,4,5-Trichlorophenol	NA	0.003 b	-	-	-	-	-	-	-	-	-	<0.596	<0.428	<0.663	<0.460	<0.463	<0.459	<0.587	<0.419	<0.521	<0.536	<0.474	<0.273	<0.516
2,4,6-Trichlorophenol	NA	NA	-	-	-	-	-	-	-	-	-	<0.596	<0.428	<0.663	<0.460	<0.463	<0.459	<0.587	<0.419	<0.521	<0.536	<0.474	<0.273	<0.516
2,4-Dichlorophenol	NA	0.005 b	-	-	-	-	-	-	-	-	-	<0.596	<0.428	<0.663	<0.460	<0.463	<0.459	<0.587	<0.419	<0.521	<0.536	<0.474	<0.273	<0.516
2,4-Dimethylphenol	NA	NA	-	-	-	-	-	-	-	-	-	<0.596	<0.428	<0.663	<0.460	<0.463	<0.459	<0.587	<0.419	<0.521	<0.536	<0.474	<0.273	<0.516
2,4-Dinitrophenol	NA	NA	-	-	-	-	-	-	-	-	-	<2.99	<2.15	<3.33	<2.31	<2.32	<2.30	<2.94	<2.10	<2.61	<2.69	<2.38	<1.37	<2.59
2,4-Dinitrotoluene	NA	NA	-	-	-	-	-	-	-	-	-	<0.596	<0.428	<0.663	<0.460	<0.463	<0.459	<0.587	<0.419	<0.521	<0.536	<0.474	<0.273	<0.516
2,6-Dinitrotoluene	NA	NA	-	-	-	-	-	-	-	-	-	<0.596	<0.428	<0.663	<0.460	<0.463	<0.459	<0.587	<0.419	<0.521	<0.536	<0.474	<0.273	<0.516
2-Chloronaphthalene	NA	NA	-	-	-	-	-	-	-	-	-	<0.596	<0.428	<0.663	<0.460	<0.463	<0.459	<0.587	<0.419	<0.521	<0.536	<0.474	<0.273	<0.516
2-Chlorophenol	NA	0.008 b	-	-	-	-	-	-	-	-	-	<0.596	<0.428	<0.663	<0.460	<0.463	<0.459	<0.587	<0.419	<0.521	<0.536	<0.474	<0.273	<0.516
2-Methylnaphthalene	0.07 a	0.67 a	<0.327	<0.252	<0.593	**5.37**	<0.511	<0.241	<0.415	<0.329	<0.629	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Methylphenol	NA	NA	<0.327	<0.252	<0.593	<0.316	<0.511	<0.241	<0.415	<0.329	<0.629	<0.596	<0.428	<0.663	<0.460	<0.463	<0.459	<0.587	<0.419	<0.521	<0.536	<0.474	<0.273	<0.516
2-Nitrophenol	NA	NA	-	-	-	-	-	-	-	-	-	<0.596	<0.428	<0.663	<0.460	<0.463	<0.459	<0.587	<0.419	<0.521	<0.536	<0.474	<0.273	<0.516
3,3´-Dichlorobenzidine	NA	NA	-	-	-	-	-	-	-	-	-	<1.19	<0.857	<1.33	<0.922	<0.927	<0.920	<1.18	<0.839	<1.04	<1.07	<0.949	<0.547	<1.03
3+4-Methylphenol	NA	NA	-	-	-	-	-	-	-	-	-	<1.19	<0.857	<1.33	<0.922	<0.927	<0.920	<1.18	<0.839	<1.04	<1.07	<0.949	<0.547	<1.03
4-Bromophenyl-phenylether	NA	NA	-	-	-	-	-	-	-	-	-	<0.596	<0.428	<0.663	<0.460	<0.463	<0.459	<0.587	<0.419	<0.521	<0.536	<0.474	<0.273	<0.516
4-Chloroaniline	NA	NA	-	-	-	-	-	-	-	-	-	<1.19	<0.857	<1.33	<0.922	<0.927	<0.920	<1.18	<0.839	<1.04	<1.07	<0.949	<0.547	<1.03
4-Nitrophenol	NA	NA	-	-	-	-	-	-	-	-	-	<2.99	<2.15	<3.33	<2.31	<2.32	<2.30	<2.94	<2.10	<2.61	<2.69	<2.38	<1.37	<2.59
Acetophenone	NA	NA	-	-	-	-	-	-	-	-	-	<1.19	<0.857	<1.33	<0.922	<0.927	<0.920	<1.18	<0.839	<1.04	<1.07	<0.949	<0.547	<1.03
Acenaphthene	0.016 a	0.5 a	<0.327	<0.252	<0.593	**1.88**	<0.511	**0.3**	<0.415	<0.329	<0.629	-	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	0.044 a	0.64 a	<0.327	<0.252	<0.593	**0.677**	<0.511	<0.241	<0.415	<0.329	<0.629	-	-	-	-	-	-	-	-	-	-	-	-	-
Aniline	NA	NA	-	-	-	-	-	-	-	-	-	<2.99	<2.15	<3.33	<2.31	<2.32	<2.30	<2.94	<2.10	<2.61	<2.69	<2.38	<1.37	<2.59
Anthracene	0.085 a	1.1 a	<0.327	<0.252	<0.593	**2.38**	<0.511	**1.46**	<0.415	<0.329	<0.629	-	-	-	-	-	-	-	-	-	-	-	-	-
Azobenzene	NA	NA	-	-	-	-	-	-	-	-	-	<0.596	<0.428	<0.663	<0.460	<0.463	<0.459	<0.587	<0.419	<0.521	<0.536	<0.474	<0.273	<0.516
Benzo(a)anthracene	0.261 a	1.6 a	<0.327	**0.368**	<0.593	**1.9**	**0.62**	**0.828**	**0.451**	**0.819**	**1.52**	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	0.43 a	1.6 a	<0.164	0.379	0.325	**1.22**	**0.775**	**0.754**	0.399	**1.04**	**1.56**	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	NA	1.8 b	<0.327	0.486	0.799	1.49	1.1	1.15	0.425	1.48	1.63	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	NA	NA	<0.327	<0.252	<0.593	<0.316	0.554	<0.241	<0.415	<0.329	0.717	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	NA	NA	<0.327	<0.252	<0.593	0.872	<0.511	0.321	<0.415	0.632	0.824	-	-	-	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	NA	NA	-	-	-	-	-	-	-	-	-	<0.596	<0.428	<0.663	<0.460	<0.463	<0.459	<0.587	<0.419	<0.521	<0.536	<0.474	<0.273	<0.516
bis(2-Chloroethyl)ether	NA	NA	-	-	-	-	-	-	-	-	-	<0.596	<0.428	<0.663	<0.460	<0.463	<0.459	<0.587	<0.419	<0.521	<0.536	<0.474	<0.273	<0.516
bis(2-chloroisopropyl)Ether	NA	NA	-	-	-	-	-	-	-	-	-	<0.596	<0.428	<0.663	<0.460	<0.463	<0.459	<0.587	<0.419	<0.521	<0.536	<0.474	<0.273	<0.516
bis(2-Ethylhexyl)phthalate	0.18216 b	2.64651 b	<0.327	**0.42**	**1870**	**789**	**4.51**	**5.87**	**30.1**	**6.37**	**2.75**	**1.14**	**76**	**1.1**	**2.04**	**252**	**1.84**	**1120**	**1.67**	**694**	**0.859**	**113**	**32.5**	**2.42**
Butylbenzylphthalate	NA	0.063 b	<0.327	<0.252	0.844	0.68	<0.511	<0.241	<0.415	<0.329	<0.629	<0.596	<0.428	<0.663	<0.460	<0.463	<0.459	<0.587	<0.419	<0.521	<0.536	<0.474	<0.273	<0.516
Carbazole	NA	NA	<0.327	<0.252	<0.593	<0.316	<0.511	0.4	<0.415	<0.329	<0.629	-	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	0.384 a	2.8 a	<0.164	**0.426**	**0.463**	**1.85**	**0.866**	**0.853**	**0.421**	**1.09**	**1.59**	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzo(a,h)Anthracene	0.063 a	0.26 a	<0.164	<0.126	<0.297	<0.158	<0.256	<0.121	<0.208	**0.173**	**0.332**	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	NA	NA	<0.327	<0.252	<0.593	0.624	<0.511	0.727	<0.415	<0.329	<0.629	<0.596	<0.428	<0.663	<0.460	<0.463	<0.459	<0.587	<0.419	<0.521	<0.536	<0.474	<0.273	<0.516
Diethylphthalate	NA	0.006 b	<0.327	<0.252	<0.593	<0.316	<0.511	<0.241	<0.415	<0.329	<0.629	<0.596	<0.428	<0.663	<0.460	<0.463	<0.459	<0.587	<0.419	<0.521	<0.536	<0.474	<0.273	<0.516
Dimethylphthalate	NA	NA	<0.327	<0.252	<0.593	<0.316	<0.511	<0.241	<0.415	<0.329	<0.629	<0.596	<0.428	<0.663	<0.460	<0.463	<0.459	<0.587	<0.419	<0.521	<0.536	<0.474	<0.273	<0.516
Di-n-butylphthalate	NA	0.058 b	<0.327	<0.252	<0.593	<0.316	<0.511	<0.241	<0.415	<0.329	<0.629	<0.596	<0.428	<0.663	<0.460	<0.463	<0.459	<0.587	<0.419	<0.521	<0.536	<0.474	<0.273	<0.516
Di-n-octylphthalate	NA	NA	<0.327	<0.252	40.5	4.14	<0.511	<0.241	<0.415	<0.329	<0.629	<0.596	1.35	<0.663	<0.460	5.25	<0.459	2.19	<0.419	2.47	<0.536	2.85	<0.273	<0.516
Fluoranthene	0.6 a	5.1 a	<0.327	**0.649**	**1.13**	**4.34**	**1.31**	**3.55**	**0.725**	**1.77**	**2.45**	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluorene	0.019 a	0.54 a	<0.327	<0.252	<0.593	**2.92**	<0.511	**0.528**	<0.415	<0.329	<0.629	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobenzene	NA	NA	<0.327	<0.252	<0.593	<0.316	<0.511	<0.241	<0.415	<0.329	<0.629	-	-	<0.663	<0.460	<0.463	<0.459	<0.587	<0.419	<0.521	<0.536	<0.474	<0.273	<0.516
Hexachlorobutadiene	NA	NA	-	-	-	-	-	-	-	-	-	<0.596	<0.428	<0.663	<0.460	<0.463	<0.459	<0.587	<0.419	<0.521	<0.536	<0.474	0.178	0.282
Hexachloroethane	NA	0.073 b	-	-	-	-	-	-	-	-	-	<0.596	<0.428	<0.663	<0.460	<0.463	<0.459	<0.587	<0.419	<0.521	<0.536	<0.474	<0.273	<0.516
Indeno(1,2,3-cd)Pyrene	NA	NA	<0.327	<0.252	<0.593	<0.316	<0.511	<0.241	<0.415	<0.329	<0.629	-	-	-	-	-	-	-	-	-	-	-	-	-
Isophorone	NA	NA	-	-	-	-	-	-	-	-	-	<0.596	<0.428	<0.663	<0.460	<0.463	<0.459	<0.587	<0.419	<0.521	<0.536	<0.474	<0.273	<0.516
Naphthalene	0.16 a	2.1 a	<0.327	<0.252	**4.34**	<0.316	<0.511	<0.241	<0.415	<0.329	<0.629	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrobenzene	NA	NA	-	-	-	-	-	-	-	-	-	<0.596	<0.428	<0.663	<0.460	<0.463	<0.459	<0.587	<0.419	<0.521	<0.536	<0.474	<0.273	<0.516
N-Nitrosodimethylamine	NA	NA	-	-	-	-	-	-	-	-	-	<0.596	<0.428	<0.663	<0.460	<0.463	<0.459	<0.587	<0.419	<0.521	<0.536	<0.474	<0.273	<0.516
Pentachlorophenol	NA	0.017 b	-	-	-	-	-	-	-	-	-	<2.99	<2.15	<3.33	<2.31	<2.32	<2.30	<2.94	<2.10	<2.61	<2.69	<2.38	<1.37	<2.59
Phenanthrene	0.24 a	1.5 a	<0.327	**0.282**	**1.56**	**6.55**	<0.511	**5.97**	<0.415	**0.68**	<0.629	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenol	NA	0.13 b	<0.327	<0.252	<0.593	<0.316	<0.511	<0.241	<0.415	<0.329	<0.629	<0.596	<0.428	<0.663	<0.460	<0.463	<0.459	<0.587	<0.419	<0.521	<0.536	<0.474	<0.273	<0.516
Pyrene	0.665 a	2.6 a	<0.327	0.597	**0.87**	**3.79**	**1.36**	**2.34**	**1.1**	**1.55**	**4.05**	-	-	-	-	-	-	-	-	-	-	-	-	-

Table 3C
SEDIMENT SEMI-VOLATILE ORAGNIC COMPOUNDS RESULTS

Wynn Resort Casino
Everett, Massachusetts

Sample ID	Marine Sediment Benchmarks		GZ-207 0ft-3ft	GZ-208 0ft-0_5ft	GZ-209 0ft-0_5ft	GZ-209 2ft-4ft	GZ-210 0ft-0_5ft	GZ-211 0ft-0_5ft	GZ-211 0ft-3ft	GZ-212 0ft-0_5ft	GZ-213 0ft-0_5ft	GZ-213 0ft-3ft	GZ-214 0ft-0_5ft	GZ-214 2ft-4ft	GZ-214 4ft-6ft	GZ-215 0ft-0_5ft	GZ-215 0ft-3ft	GZ-216 0ft-0_5ft	GZ-216 2ft-4ft	GZ-217 0ft-0_5ft	GZ-217 0ft-3ft	GZ-218 0_5ft-2ft	GZ-218 0ft-0_5ft	GZ-219 0ft-0_5ft
Date Sampled			3/25/2015	3/25/2015	3/25/2015	3/25/2015	3/30/2015	3/30/2015	3/30/2015	03/24/2015	3/25/2015	3/25/2015	3/30/2015	3/30/2015				03/24/2015	03/24/2015	03/24/2015	03/24/2015	3/25/2015	3/25/2015	3/25/2015
Depth (ft)			0-3	0-0.5	0-0.5	2-4	0-0.5	0-0.5	0-3	0-0.5	0-0.5	0-3	0-0.5	2-4	4-6	0-0.5	0-3	0-0.5	2-4	0-0.5	0-3	0.5-2	0-0.5	0-0.5
Type			Shallow	Shallow	Shallow	Deep	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Deep	Deep	Shallow	Shallow	Shallow	Deep	Shallow	Shallow	Shallow	Shallow	Shallow
Group	ERLs	ERMs	ON	ON	ON	ON	OFF-E	OFF-E	OFF-E	OFF-E	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON
Analyte																								
Semi-Volatile Organic Compounds (SVOCs)																								
1,2,4-Trichlorobenzene	NA	NA	<0.0163	<0.520	<0.567	<0.735	<0.227	<0.215	<0.229	<0.227	<0.284	<0.254	<0.329	<0.250	<0.239	<0.291	<0.215	<0.599	<0.269	<0.283	<0.254	<0.289	<0.335	<0.306
1,2-Dichlorobenzene	NA	0.013 b	<0.0163	<0.520	<0.567	<0.735	<0.227	<0.215	<0.229	<0.227	<0.284	<0.254	<0.329	<0.250	<0.239	<0.291	<0.215	<0.599	<0.269	<0.283	<0.254	<0.289	<0.335	<0.306
1,3-Dichlorobenzene	NA	NA	<0.0163	<0.520	<0.567	<0.735	<0.227	<0.215	<0.229	<0.227	<0.284	<0.254	<0.329	<0.250	<0.239	<0.291	<0.215	<0.599	<0.269	<0.283	<0.254	<0.289	<0.335	<0.306
1,4-Dichlorobenzene	NA	0.11 a	<0.0163	<0.520	<0.567	<0.735	<0.227	<0.215	<0.229	<0.227	<0.284	<0.254	<0.329	<0.250	<0.239	<0.291	<0.215	<0.599	<0.269	<0.283	<0.254	<0.289	<0.335	<0.306
2,4,5-Trichlorophenol	NA	0.003 b	<0.444	<0.520	<0.567	<0.735	<0.227	<0.215	<0.229	<0.227	<0.284	<0.254	<0.329	<0.250	<0.239	<0.291	<0.215	<0.599	<0.269	<0.283	<0.254	<0.289	<0.335	<0.306
2,4,6-Trichlorophenol	NA	NA	<0.444	<0.520	<0.567	<0.735	<0.227	<0.215	<0.229	<0.227	<0.284	<0.254	<0.329	<0.250	<0.239	<0.291	<0.215	<0.599	<0.269	<0.283	<0.254	<0.289	<0.335	<0.306
2,4-Dichlorophenol	NA	0.005 b	<0.444	<0.520	<0.567	<0.735	<0.227	<0.215	<0.229	<0.227	<0.284	<0.254	<0.329	<0.250	<0.239	<0.291	<0.215	<0.599	<0.269	<0.283	<0.254	<0.289	<0.335	<0.306
2,4-Dimethylphenol	NA	NA	<0.444	<0.520	<0.567	<0.735	<0.227	<0.215	<0.229	<0.227	<0.284	<0.254	<0.329	<0.250	<0.239	<0.291	<0.215	<0.599	<0.269	<0.283	<0.254	<0.289	<0.335	<0.306
2,4-Dinitrophenol	NA	NA	<2.23	<2.61	<2.84	<3.69	<1.14	<1.08	<1.15	<1.14	<1.43	<1.27	<1.65	<1.26	<1.20	<1.46	<1.08	<3.00	<1.35	<1.42	<1.28	<1.45	<1.68	<1.53
2,4-Dinitrotoluene	NA	NA	<0.444	<0.520	<0.567	<0.735	<0.227	<0.215	<0.229	<0.227	<0.284	<0.254	<0.329	<0.250	<0.239	<0.291	<0.215	<0.599	<0.269	<0.283	<0.254	<0.289	<0.335	<0.306
2,6-Dinitrotoluene	NA	NA	<0.444	<0.520	<0.567	<0.735	<0.227	<0.215	<0.229	<0.227	<0.284	<0.254	<0.329	<0.250	<0.239	<0.291	<0.215	<0.599	<0.269	<0.283	<0.254	<0.289	<0.335	<0.306
2-Chloronaphthalene	NA	NA	<0.444	<0.520	<0.567	<0.735	<0.227	<0.215	<0.229	<0.227	<0.284	<0.254	<0.329	<0.250	<0.239	<0.291	<0.215	<0.599	<0.269	<0.283	<0.254	<0.289	<0.335	<0.306
2-Chlorophenol	NA	0.008 b	<0.444	<0.520	<0.567	<0.735	<0.227	<0.215	<0.229	<0.227	<0.284	<0.254	<0.329	<0.250	<0.239	<0.291	<0.215	<0.599	<0.269	<0.283	<0.254	<0.289	<0.335	<0.306
2-Methylnaphthalene	0.07 a	0.67 a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Methylphenol	NA	NA	<0.444	<0.520	<0.567	<0.735	<0.227	<0.215	<0.229	<0.227	<0.284	<0.254	<0.329	<0.250	<0.239	<0.291	<0.215	<0.599	<0.269	<0.283	<0.254	<0.289	<0.335	<0.306
2-Nitrophenol	NA	NA	<0.444	<0.520	<0.567	<0.735	<0.227	<0.215	<0.229	<0.227	<0.284	<0.254	<0.329	<0.250	<0.239	<0.291	<0.215	<0.599	<0.269	<0.283	<0.254	<0.289	<0.335	<0.306
3,3´-Dichlorobenzidine	NA	NA	<0.889	<1.04	<1.13	<1.47	<0.455	<0.431	<0.459	<0.455	<0.570	<0.509	<0.659	<0.501	<0.479	<0.583	<0.431	<1.20	<0.539	<0.567	<0.510	<0.578	<0.671	<0.612
3+4-Methylphenol	NA	NA	<0.889	<1.04	<1.13	<1.47	<0.455	<0.431	<0.459	<0.455	<0.570	<0.509	<0.659	<0.501	<0.479	<0.583	<0.431	<1.20	<0.539	<0.567	<0.510	<0.578	<0.671	<0.612
4-Bromophenyl-phenylether	NA	NA	<0.444	<0.520	<0.567	<0.735	<0.227	<0.215	<0.229	<0.227	<0.284	<0.254	<0.329	<0.250	<0.239	<0.291	<0.215	<0.599	<0.269	<0.283	<0.254	<0.289	<0.335	<0.306
4-Chloroaniline	NA	NA	<0.889	<1.04	<1.13	<1.47	<0.455	<0.431	<0.459	<0.455	<0.570	<0.509	<0.659	<0.501	<0.479	<0.583	<0.431	<1.20	<0.539	<0.567	<0.510	<0.578	<0.671	<0.612
4-Nitrophenol	NA	NA	<2.23	<2.61	<2.84	<3.69	<1.14	<1.08	<1.15	<1.14	<1.43	<1.27	<1.65	<1.26	<1.20	<1.46	<1.08	<3.00	<1.35	<1.42	<1.28	<1.45	<1.68	<1.53
Acetophenone	NA	NA	<0.889	<1.04	<1.13	<1.47	<0.455	<0.431	<0.459	<0.455	<0.570	<0.509	<0.659	<0.501	<0.479	<0.583	<0.431	<1.20	<0.539	<0.567	<0.510	<0.578	<0.671	<0.612
Acenaphthene	0.016 a	0.5 a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	0.044 a	0.64 a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aniline	NA	NA	<2.23	<2.61	<2.84	<3.69	<1.14	<1.08	<1.15	<1.14	<1.43	<1.27	<1.65	<1.26	<1.20	<1.46	<1.08	<3.00	<1.35	<1.42	<1.28	<1.45	<1.68	<1.53
Anthracene	0.085 a	1.1 a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Azobenzene	NA	NA	<0.444	<0.520	<0.567	<0.735	<0.227	<0.215	<0.229	<0.227	<0.284	<0.254	<0.329	<0.250	<0.239	<0.291	<0.215	<0.599	<0.269	<0.283	<0.254	<0.289	<0.335	<0.306
Benzo(a)anthracene	0.261 a	1.6 a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	0.43 a	1.6 a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	NA	1.8 b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	NA	NA	<0.444	<0.520	<0.567	<0.735	<0.227	<0.215	<0.229	<0.227	<0.284	<0.254	<0.329	<0.250	<0.239	<0.291	<0.215	<0.599	<0.269	<0.283	<0.254	<0.289	<0.335	<0.306
bis(2-Chloroethyl)ether	NA	NA	<0.444	<0.520	<0.567	<0.735	<0.227	<0.215	<0.229	<0.227	<0.284	<0.254	<0.329	<0.250	<0.239	<0.291	<0.215	<0.599	<0.269	<0.283	<0.254	<0.289	<0.335	<0.306
bis(2-chloroisopropyl)Ether	NA	NA	<0.444	<0.520	<0.567	<0.735	<0.227	<0.215	<0.229	<0.227	<0.284	<0.254	<0.329	<0.250	<0.239	<0.291	<0.215	<0.599	<0.269	<0.283	<0.254	<0.289	<0.335	<0.306
bis(2-Ethylhexyl)phthalate	0.18216 b	2.64651 b	**133**	**10.5**	**1.65**	**2900**	<0.227	**0.363**	<0.229	**0.5**	**3.29**	<0.254	**0.874**	<0.250	<0.239	**1.1**	<0.215	**7.28**	<0.269	**0.358**	<0.254	**0.307**	**3.37**	**0.631**
Butylbenzylphthalate	NA	0.063 b	<0.444	<0.520	<0.567	<0.735	<0.227	<0.215	<0.229	<0.227	<0.284	<0.254	<0.329	<0.250	<0.239	<0.291	<0.215	<0.599	<0.269	<0.283	<0.254	<0.289	<0.335	<0.306
Carbazole	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	0.384 a	2.8 a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzo(a,h)Anthracene	0.063 a	0.26 a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	NA	NA	<0.444	<0.520	<0.567	<0.735	<0.227	<0.215	<0.229	<0.227	<0.284	<0.254	<0.329	<0.250	<0.239	<0.291	<0.215	<0.599	<0.269	<0.283	<0.254	<0.289	<0.335	<0.306
Diethylphthalate	NA	0.006 b	<0.444	<0.520	<0.567	<0.735	<0.227	<0.215	<0.229	<0.227	<0.284	<0.254	<0.329	<0.250	<0.239	<0.291	<0.215	<0.599	<0.269	<0.283	<0.254	<0.289	<0.335	<0.306
Dimethylphthalate	NA	NA	<0.444	<0.520	<0.567	<0.735	<0.227	<0.215	<0.229	<0.227	<0.284	<0.254	<0.329	<0.250	<0.239	<0.291	<0.215	<0.599	<0.269	<0.283	<0.254	<0.289	<0.335	<0.306
Di-n-butylphthalate	NA	0.058 b	<0.444	<0.520	<0.567	<0.735	<0.227	<0.215	<0.229	<0.227	<0.284	<0.254	<0.329	<0.250	<0.239	<0.291	<0.215	<0.599	<0.269	<0.283	<0.254	<0.289	<0.335	<0.306
Di-n-octylphthalate	NA	NA	6.22	0.669	<0.567	183	<0.227	<0.215	<0.229	<0.227	<0.284	<0.254	<0.329	<0.250	<0.239	<0.291	<0.215	<0.599	<0.269	<0.283	<0.254	<0.289	<0.335	<0.306
Fluoranthene	0.6 a	5.1 a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluorene	0.019 a	0.54 a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobenzene	NA	NA	<0.444	<0.520	<0.567	<0.735	-	-	-	<0.227	<0.284	<0.254	-	-	-	-	-	<0.599	<0.269	<0.283	<0.254	<0.289	<0.335	<0.306
Hexachlorobutadiene	NA	NA	<0.0163	-	-	<0.735	<0.227	<0.215	<0.229	<0.227	<0.284	<0.254	<0.329	<0.250	<0.239	<0.291	<0.215	<0.599	<0.269	<0.283	<0.254	<0.289	<0.335	<0.306
Hexachloroethane	NA	0.073 b	<0.444	<0.520	<0.567	<0.735	<0.227	<0.215	<0.229	<0.227	<0.284	<0.254	<0.329	<0.250	<0.239	<0.291	<0.215	<0.599	<0.269	<0.283	<0.254	<0.289	<0.335	<0.306
Indeno(1,2,3-cd)Pyrene	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Isophorone	NA	NA	<0.444	<0.520	<0.567	<0.735	<0.227	<0.215	<0.229	<0.227	<0.284	<0.254	<0.329	<0.250	<0.239	<0.291	<0.215	<0.599	<0.269	<0.283	<0.254	<0.289	<0.335	<0.306
Naphthalene	0.16 a	2.1 a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrobenzene	NA	NA	<0.444	<0.520	<0.567	<0.735	<0.227	<0.215	<0.229	<0.227	<0.284	<0.254	<0.329	<0.250	<0.239	<0.291	<0.215	<0.599	<0.269	<0.283	<0.254	<0.289	<0.335	<0.306
N-Nitrosodimethylamine	NA	NA	<0.444	<0.520	<0.567	<0.735	<0.227	<0.215	<0.229	<0.227	<0.284	<0.254	<0.329	<0.250	<0.239	<0.291	<0.215	<0.599	<0.269	<0.283	<0.254	<0.289	<0.335	<0.306
Pentachlorophenol	NA	0.017 b	<2.23	<2.61	<2.84	<3.69	<1.14	<1.08	<1.15	<1.14	<1.43	<1.27	<1.65	<1.26	<1.20	<1.46	<1.08	<3.00	<1.35	<1.42	<1.28	<1.45	<1.68	<1.53
Phenanthrene	0.24 a	1.5 a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenol	NA	0.13 b	<0.444	<0.520	<0.567	<0.735	<0.227	<0.215	<0.229	<0.227	<0.284	<0.254	<0.329	<0.250	<0.239	<0.291	<0.215	<0.599	<0.269	<0.283	<0.254	<0.289	<0.335	<0.306
Pyrene	0.665 a	2.6 a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table 3C
SEDIMENT SEMI-VOLATILE ORAGNIC COMPOUNDS RESULTS

Wynn Resort Casino
Everett, Massachusetts

Sample ID	Marine Sediment Benchmarks		GZ-219 0ft-3ft	GZ-220 0_5ft-2ft	GZ-220 0ft-0_5ft	GZ-221 0ft-0_5ft	GZ-221 0ft-3ft	GZ-222 0ft-0_5ft	GZ-223 0ft-0_5ft	GZ-223 0ft-3ft	GZ-224 0_5ft-2ft	GZ-224 0ft-0_5ft	GZ-225 0ft-0_5ft	GZ-225 0ft-3ft	GZ-226 0ft-0_5ft	LC-101 0ft-0_5ft	LC-102 0_5ft-2ft	LC-102 0ft-0_5ft	LC-103 0ft-0_5ft	LC-104 0ft-0_5ft	LC-105 0ft-0_5ft	LC-105 4ft-6ft	LC-106 0_5ft-2ft	LC-106 0ft-0_5ft
Date Sampled			3/25/2015	3/30/2015	3/30/2015	3/30/2015	3/30/2015	3/30/2015	3/30/2015	3/30/2015	3/30/2015	3/30/2015	03/27/2015	03/27/2015	3/30/2015	03/26/2015	03/26/2015	03/26/2015	03/26/2015	03/26/2015	03/26/2015	03/26/2015	03/26/2015	03/26/2015
Depth (ft)			0-3	0.5-2	0-0.5	0-0.5	0-3	0-0.5	0-0.5	0-3	0.5-2	0-0.5	0-0.5	0-3	0-0.5	0-0.5	0.5-2	0-0.5	0-0.5	0-0.5	0-0.5	4-6	0.5-2	0-0.5
Type			Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Deep	Shallow	Shallow
Group			ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	LC	LC	LC	LC	LC	LC	LC	LC	LC
Analyte	ERLs	ERMs																						
Semi-Volatile Organic Compounds (SVOCs)																								
1,2,4-Trichlorobenzene	NA	NA	<0.261	<0.718	<0.331	<0.345	<0.267	<0.302	<0.322	<0.330	<0.309	<0.244	<0.335	<0.283	<0.304	<0.335	<0.505	<0.500	<0.373	<0.455	<0.498	<0.214	<0.439	<0.518
1,2-Dichlorobenzene	NA	0.013 b	<0.261	<0.718	<0.331	<0.345	<0.267	<0.302	<0.322	<0.330	<0.309	<0.244	<0.335	<0.283	<0.304	<0.335	<0.505	<0.500	<0.373	<0.455	<0.498	<0.214	<0.439	<0.518
1,3-Dichlorobenzene	NA	NA	<0.261	<0.718	<0.331	<0.345	<0.267	<0.302	<0.322	<0.330	<0.309	<0.244	<0.335	<0.283	<0.304	<0.335	<0.505	<0.500	<0.373	<0.455	<0.498	<0.214	<0.439	<0.518
1,4-Dichlorobenzene	NA	0.11 a	<0.261	<0.718	<0.331	<0.345	<0.267	<0.302	<0.322	<0.330	<0.309	<0.244	<0.335	<0.283	<0.304	<0.335	<0.505	<0.500	<0.373	<0.455	<0.498	<0.214	<0.439	<0.518
2,4,5-Trichlorophenol	NA	0.003 b	<0.261	<0.718	<0.331	<0.345	<0.267	<0.302	<0.322	<0.330	<0.309	<0.244	<0.335	<0.283	<0.304	<0.335	<0.505	<0.500	<0.373	<0.455	<0.498	<0.214	<0.439	<0.518
2,4,6-Trichlorophenol	NA	NA	<0.261	<0.718	<0.331	<0.345	<0.267	<0.302	<0.322	<0.330	<0.309	<0.244	<0.335	<0.283	<0.304	<0.335	<0.505	<0.500	<0.373	<0.455	<0.498	<0.214	<0.439	<0.518
2,4-Dichlorophenol	NA	0.005 b	<0.261	<0.718	<0.331	<0.345	<0.267	<0.302	<0.322	<0.330	<0.309	<0.244	<0.335	<0.283	<0.304	<0.335	<0.505	<0.500	<0.373	<0.455	<0.498	<0.214	<0.439	<0.518
2,4-Dimethylphenol	NA	NA	<0.261	<0.718	<0.331	<0.345	<0.267	<0.302	<0.322	<0.330	<0.309	<0.244	<0.335	<0.283	<0.304	<0.335	<0.505	<0.500	<0.373	<0.455	<0.498	<0.214	<0.439	<0.518
2,4-Dinitrophenol	NA	NA	<1.31	<3.60	<1.66	<1.73	<1.34	<1.52	<1.61	<1.66	<1.55	<1.23	<1.68	<1.42	<1.52	<1.68	<2.53	<2.50	<1.87	<2.28	<2.50	<1.07	<2.20	<2.60
2,4-Dinitrotoluene	NA	NA	<0.261	<0.718	<0.331	<0.345	<0.267	<0.302	<0.322	<0.330	<0.309	<0.244	<0.335	<0.283	<0.304	<0.335	<0.505	<0.500	<0.373	<0.455	<0.498	<0.214	<0.439	<0.518
2,6-Dinitrotoluene	NA	NA	<0.261	<0.718	<0.331	<0.345	<0.267	<0.302	<0.322	<0.330	<0.309	<0.244	<0.335	<0.283	<0.304	<0.335	<0.505	<0.500	<0.373	<0.455	<0.498	<0.214	<0.439	<0.518
2-Chloronaphthalene	NA	NA	<0.261	<0.718	<0.331	<0.345	<0.267	<0.302	<0.322	<0.330	<0.309	<0.244	<0.335	<0.283	<0.304	<0.335	<0.505	<0.500	<0.373	<0.455	<0.498	<0.214	<0.439	<0.518
2-Chlorophenol	NA	0.008 b	<0.261	<0.718	<0.331	<0.345	<0.267	<0.302	<0.322	<0.330	<0.309	<0.244	<0.335	<0.283	<0.304	<0.335	<0.505	<0.500	<0.373	<0.455	<0.498	<0.214	<0.439	<0.518
2-Methylnaphthalene	0.07 a	0.67 a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Methylphenol	NA	NA	<0.261	<0.718	<0.331	<0.345	<0.267	<0.302	<0.322	<0.330	<0.309	<0.244	<0.335	<0.283	<0.304	<0.335	<0.505	<0.500	<0.373	<0.455	<0.498	<0.214	<0.439	<0.518
2-Nitrophenol	NA	NA	<0.261	<0.718	<0.331	<0.345	<0.267	<0.302	<0.322	<0.330	<0.309	<0.244	<0.335	<0.283	<0.304	<0.335	<0.505	<0.500	<0.373	<0.455	<0.498	<0.214	<0.439	<0.518
3,3′-Dichlorobenzidine	NA	NA	<0.522	<1.44	<0.663	<0.692	<0.535	<0.606	<0.645	<0.661	<0.618	<0.489	<0.670	<0.568	<0.608	<0.671	<1.01	<1.00	<0.747	<0.912	<0.997	<0.428	<0.879	<1.04
3+4-Methylphenol	NA	NA	<0.522	<1.44	<0.663	<0.692	<0.535	<0.606	<0.645	<0.661	<0.618	<0.489	<0.670	<0.568	<0.608	<0.671	<1.01	<1.00	<0.747	<0.912	<0.997	<0.428	<0.879	<1.04
4-Bromophenyl-phenylether	NA	NA	<0.261	<0.718	<0.331	<0.345	<0.267	<0.302	<0.322	<0.330	<0.309	<0.244	<0.335	<0.283	<0.304	<0.335	<0.505	<0.500	<0.373	<0.455	<0.498	<0.214	<0.439	<0.518
4-Chloroaniline	NA	NA	<0.522	<1.44	<0.663	<0.692	<0.535	<0.606	<0.645	<0.661	<0.618	<0.489	<0.670	<0.568	<0.608	<0.671	<1.01	<1.00	<0.747	<0.912	<0.997	<0.428	<0.879	<1.04
4-Nitrophenol	NA	NA	<1.31	<3.60	<1.66	<1.73	<1.34	<1.52	<1.61	<1.66	<1.55	<1.23	<1.68	<1.42	<1.52	<1.68	<2.53	<2.50	<1.87	<2.28	<2.50	<1.07	<2.20	<2.60
Acetophenone	NA	NA	<0.522	<1.44	<0.663	<0.692	<0.535	<0.606	<0.645	<0.661	<0.618	<0.489	<0.670	<0.568	<0.608	<0.671	<1.01	<1.00	<0.747	<0.912	<0.997	<0.428	<0.879	<1.04
Acenaphthene	0.016 a	0.5 a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	0.044 a	0.64 a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aniline	NA	NA	<1.31	<3.60	<1.66	<1.73	<1.34	<1.52	<1.61	<1.66	<1.55	<1.23	<1.68	<1.42	<1.52	<1.68	<2.53	<2.50	<1.87	<2.28	<2.50	<1.07	<2.20	<2.60
Anthracene	0.085 a	1.1 a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Azobenzene	NA	NA	<0.261	<0.718	<0.331	<0.345	<0.267	<0.302	<0.322	<0.330	<0.309	<0.244	<0.335	<0.283	<0.304	<0.335	<0.505	<0.500	<0.373	<0.455	<0.498	<0.214	<0.439	<0.518
Benzo(a)anthracene	0.261 a	1.6 a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	0.43 a	1.6 a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	NA	1.8 b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	NA	NA	<0.261	<0.718	<0.331	<0.345	<0.267	<0.302	<0.322	<0.330	<0.309	<0.244	<0.335	<0.283	<0.304	<0.335	<0.505	<0.500	<0.373	<0.455	<0.498	<0.214	<0.439	<0.518
bis(2-Chloroethyl)ether	NA	NA	<0.261	<0.718	<0.331	<0.345	<0.267	<0.302	<0.322	<0.330	<0.309	<0.244	<0.335	<0.283	<0.304	<0.335	<0.505	<0.500	<0.373	<0.455	<0.498	<0.214	<0.439	<0.518
bis(2-chloroisopropyl)Ether	NA	NA	<0.261	<0.718	<0.331	<0.345	<0.267	<0.302	<0.322	<0.330	<0.309	<0.244	<0.335	<0.283	<0.304	<0.335	<0.505	<0.500	<0.373	<0.455	<0.498	<0.214	<0.439	<0.518
bis(2-Ethylhexyl)phthalate	0.18216 b	2.64651 b	<0.261	<0.718	**1.5**	**2.11**	<0.267	**1.33**	**1.34**	<0.330	<0.309	**0.502**	**1.01**	**3.08**	**1.54**	**2.34**	**278**	**2.58**	**1.8**	**2.44**	**2.43**	**0.586**	**25.4**	**1.53**
Butylbenzylphthalate	NA	0.063 b	<0.261	<0.718	<0.331	<0.345	<0.267	<0.302	<0.322	<0.330	<0.309	<0.244	<0.335	<0.283	<0.304	<0.335	<0.505	<0.500	<0.373	<0.455	<0.498	<0.214	<0.439	<0.518
Carbazole	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	0.384 a	2.8 a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzo(a,h)Anthracene	0.063 a	0.26 a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	NA	NA	<0.261	<0.718	<0.331	<0.345	<0.267	<0.302	<0.322	<0.330	<0.309	<0.244	<0.335	<0.283	<0.304	<0.335	<0.505	<0.500	<0.373	<0.455	<0.498	<0.214	<0.439	<0.518
Diethylphthalate	NA	0.006 b	<0.261	<0.718	<0.331	<0.345	<0.267	<0.302	<0.322	<0.330	<0.309	<0.244	<0.335	<0.283	<0.304	<0.335	<0.505	<0.500	<0.373	<0.455	<0.498	<0.214	<0.439	<0.518
Dimethylphthalate	NA	NA	<0.261	<0.718	<0.331	<0.345	<0.267	<0.302	<0.322	<0.330	<0.309	<0.244	<0.335	<0.283	<0.304	<0.335	<0.505	<0.500	<0.373	<0.455	<0.498	<0.214	<0.439	<0.518
Di-n-butylphthalate	NA	0.058 b	<0.261	<0.718	<0.331	<0.345	<0.267	<0.302	<0.322	<0.330	<0.309	<0.244	<0.335	<0.283	<0.304	<0.335	<0.505	<0.500	<0.373	<0.455	<0.498	<0.214	<0.439	<0.518
Di-n-octylphthalate	NA	NA	<0.261	<0.718	<0.331	<0.345	<0.267	<0.302	<0.322	<0.330	<0.309	<0.244	<0.335	<0.283	<0.304	<0.335	25.1	<0.500	<0.373	<0.455	<0.498	<0.214	<0.439	<0.518
Fluoranthene	0.6 a	5.1 a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluorene	0.019 a	0.54 a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobenzene	NA	NA	<0.261	-	-	-	-	-	-	-	-	-	-	-	-	<0.335	<0.505	<0.500	<0.373	<0.455	<0.498	<0.214	-	-
Hexachlorobutadiene	NA	NA	<0.261	<0.718	<0.331	<0.345	<0.267	<0.302	<0.322	<0.330	<0.309	<0.244	<0.335	<0.283	<0.304	<0.335	<0.505	<0.500	<0.373	<0.455	<0.498	<0.214	<0.439	<0.518
Hexachloroethane	NA	0.073 b	<0.261	<0.718	<0.331	<0.345	<0.267	<0.302	<0.322	<0.330	<0.309	<0.244	<0.335	<0.283	<0.304	<0.335	<0.505	<0.500	<0.373	<0.455	<0.498	<0.214	<0.439	<0.518
Indeno(1,2,3-cd)Pyrene	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Isophorone	NA	NA	<0.261	<0.718	<0.331	<0.345	<0.267	<0.302	<0.322	<0.330	<0.309	<0.244	<0.335	<0.283	<0.304	<0.335	<0.505	<0.500	<0.373	<0.455	<0.498	<0.214	<0.439	<0.518
Naphthalene	0.16 a	2.1 a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrobenzene	NA	NA	<0.261	<0.718	<0.331	<0.345	<0.267	<0.302	<0.322	<0.330	<0.309	<0.244	<0.335	<0.283	<0.304	<0.335	<0.505	<0.500	<0.373	<0.455	<0.498	<0.214	<0.439	<0.518
N-Nitrosodimethylamine	NA	NA	<0.261	<0.718	<0.331	<0.345	<0.267	<0.302	<0.322	<0.330	<0.309	<0.244	<0.335	<0.283	<0.304	<0.335	<0.505	<0.500	<0.373	<0.455	<0.498	<0.214	<0.439	<0.518
Pentachlorophenol	NA	0.017 b	<1.31	<3.60	<1.66	<1.73	<1.34	<1.52	<1.61	<1.66	<1.55	<1.23	<1.68	<1.42	<1.52	<1.68	<2.53	<2.50	<1.87	<2.28	<2.50	<1.07	<2.20	<2.60
Phenanthrene	0.24 a	1.5 a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenol	NA	0.13 b	<0.261	<0.718	<0.331	<0.345	<0.267	<0.302	<0.322	<0.330	<0.309	<0.244	<0.335	<0.283	<0.304	<0.335	<0.505	<0.500	<0.373	<0.455	<0.498	<0.214	<0.439	<0.518
Pyrene	0.665 a	2.6 a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table 3C
SEDIMENT SEMI-VOLATILE ORAGNIC COMPOUNDS RESULTS

Wynn Resort Casino
Everett, Massachusetts

Sample ID	Marine Sediment Benchmarks		LC-107 0ft-0_5ft	LC-107 2ft-4ft	LC-108 0ft-0_5ft	LC-108 4ft-6ft	LC-109 0ft-0_5ft	LC-110 0ft-0_5ft	LC-111 0ft-0_5ft	LC-112 0ft-0_5ft	LC-112 4ft-6ft
Date Sampled			03/26/2015	03/26/2015	03/26/2015	03/26/2015	03/26/2015	03/27/2015	03/27/2015	03/27/2015	03/27/2015
Depth (ft)			0-0.5	2-4	0-0.5	4-6	0-0.5	0-0.5	0-0.5	0-0.5	4-6
Type			Shallow	Deep	Shallow	Deep	Shallow	Shallow	Shallow	Shallow	Deep
Group	ERLs	ERMs	LC	LC	LC	LC	LC	LC	LC	LC	LC
Analyte											
Semi-Volatile Organic Compounds (SVOCs)											
1,2,4-Trichlorobenzene	NA	NA	<0.545	<0.335	<0.516	<0.244	<0.479	<0.402	<0.423	<0.414	<0.216
1,2-Dichlorobenzene	NA	0.013 b	<0.545	<0.335	<0.516	<0.244	<0.479	<0.402	<0.423	<0.414	<0.216
1,3-Dichlorobenzene	NA	NA	<0.545	<0.335	<0.516	<0.244	<0.479	<0.402	<0.423	<0.414	<0.216
1,4-Dichlorobenzene	NA	0.11 a	<0.545	<0.335	<0.516	<0.244	<0.479	<0.402	<0.423	<0.414	<0.216
2,4,5-Trichlorophenol	NA	0.003 b	<0.545	<0.335	<0.516	<0.244	<0.479	<0.402	<0.423	<0.414	<0.216
2,4,6-Trichlorophenol	NA	NA	<0.545	<0.335	<0.516	<0.244	<0.479	<0.402	<0.423	<0.414	<0.216
2,4-Dichlorophenol	NA	0.005 b	<0.545	<0.335	<0.516	<0.244	<0.479	<0.402	<0.423	<0.414	<0.216
2,4-Dimethylphenol	NA	NA	<0.545	<0.335	<0.516	<0.244	<0.479	<0.402	<0.423	<0.414	<0.216
2,4-Dinitrophenol	NA	NA	<2.73	<1.68	<2.59	<1.22	<2.40	<2.01	<2.12	<2.08	<1.08
2,4-Dinitrotoluene	NA	NA	<0.545	<0.335	<0.516	<0.244	<0.479	<0.402	<0.423	<0.414	<0.216
2,6-Dinitrotoluene	NA	NA	<0.545	<0.335	<0.516	<0.244	<0.479	<0.402	<0.423	<0.414	<0.216
2-Chloronaphthalene	NA	NA	<0.545	<0.335	<0.516	<0.244	<0.479	<0.402	<0.423	<0.414	<0.216
2-Chlorophenol	NA	0.008 b	<0.545	<0.335	<0.516	<0.244	<0.479	<0.402	<0.423	<0.414	<0.216
2-Methylnaphthalene	0.07 a	0.67 a	-	-	-	-	-	-	-	-	-
2-Methylphenol	NA	NA	<0.545	<0.335	<0.516	<0.244	<0.479	<0.402	<0.423	<0.414	<0.216
2-Nitrophenol	NA	NA	<0.545	<0.335	<0.516	<0.244	<0.479	<0.402	<0.423	<0.414	<0.216
3,3´-Dichlorobenzidine	NA	NA	<1.09	<0.671	<1.03	<0.488	<0.959	<0.805	<0.847	<0.829	<0.433
3+4-Methylphenol	NA	NA	<1.09	<0.671	<1.03	<0.488	<0.959	<0.805	<0.847	<0.829	<0.433
4-Bromophenyl-phenylether	NA	NA	<0.545	<0.335	<0.516	<0.244	<0.479	<0.402	<0.423	<0.414	<0.216
4-Chloroaniline	NA	NA	<1.09	<0.671	<1.03	<0.488	<0.959	<0.805	<0.847	<0.829	<0.433
4-Nitrophenol	NA	NA	<2.73	<1.68	<2.59	<1.22	<2.40	<2.01	<2.12	<2.08	<1.08
Acetophenone	NA	NA	<1.09	<0.671	<1.03	<0.488	<0.959	<0.805	<0.847	<0.829	<0.433
Acenaphthene	0.016 a	0.5 a	-	-	-	-	-	-	-	-	-
Acenaphthylene	0.044 a	0.64 a	-	-	-	-	-	-	-	-	-
Aniline	NA	NA	<2.73	<1.68	<2.59	<1.22	<2.40	<2.01	<2.12	<2.08	<1.08
Anthracene	0.085 a	1.1 a	-	-	-	-	-	-	-	-	-
Azobenzene	NA	NA	<0.545	<0.335	<0.516	<0.244	<0.479	<0.402	<0.423	<0.414	<0.216
Benzo(a)anthracene	0.261 a	1.6 a	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	0.43 a	1.6 a	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	NA	1.8 b	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	NA	NA	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	NA	NA	-	-	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	NA	NA	<0.545	<0.335	<0.516	<0.244	<0.479	<0.402	<0.423	<0.414	<0.216
bis(2-Chloroethyl)ether	NA	NA	<0.545	<0.335	<0.516	<0.244	<0.479	<0.402	<0.423	<0.414	<0.216
bis(2-chloroisopropyl)Ether	NA	NA	<0.545	<0.335	<0.516	<0.244	<0.479	<0.402	<0.423	<0.414	<0.216
bis(2-Ethylhexyl)phthalate	0.18216 b	2.64651 b	**5.95**	**250**	**3.62**	**35.7**	**2.33**	**3.02**	**2.17**	**2.53**	<0.216
Butylbenzylphthalate	NA	0.063 b	<0.545	<0.335	<0.516	<0.244	<0.479	<0.402	<0.423	<0.414	<0.216
Carbazole	NA	NA	-	-	-	-	-	-	-	-	-
Chrysene	0.384 a	2.8 a	-	-	-	-	-	-	-	-	-
Dibenzo(a,h)Anthracene	0.063 a	0.26 a	-	-	-	-	-	-	-	-	-
Dibenzofuran	NA	NA	<0.545	<0.335	<0.516	0.861	<0.479	<0.402	<0.423	<0.414	<0.216
Diethylphthalate	NA	0.006 b	<0.545	<0.335	<0.516	<0.244	<0.479	<0.402	<0.423	<0.414	<0.216
Dimethylphthalate	NA	NA	<0.545	<0.335	<0.516	<0.244	<0.479	<0.402	<0.423	<0.414	<0.216
Di-n-butylphthalate	NA	0.058 b	<0.545	<0.335	<0.516	<0.244	<0.479	<0.402	<0.423	<0.414	<0.216
Di-n-octylphthalate	NA	NA	<0.545	43.5	<0.516	1.26	<0.479	<0.402	<0.423	<0.414	<0.216
Fluoranthene	0.6 a	5.1 a	-	-	-	-	-	-	-	-	-
Fluorene	0.019 a	0.54 a	-	-	-	-	-	-	-	-	-
Hexachlorobenzene	NA	NA	<0.545	<0.335	<0.516	<0.244	<0.479	-	-	-	-
Hexachlorobutadiene	NA	NA	<0.545	<0.335	<0.516	<0.244	<0.479	<0.402	<0.423	<0.414	<0.216
Hexachloroethane	NA	0.073 b	<0.545	<0.335	<0.516	<0.244	<0.479	<0.402	<0.423	<0.414	<0.216
Indeno(1,2,3-cd)Pyrene	NA	NA	-	-	-	-	-	-	-	-	-
Isophorone	NA	NA	<0.545	<0.335	<0.516	<0.244	<0.479	<0.402	<0.423	<0.414	<0.216
Naphthalene	0.16 a	2.1 a	-	-	-	-	-	-	-	-	-
Nitrobenzene	NA	NA	<0.545	<0.335	<0.516	<0.244	<0.479	<0.402	<0.423	<0.414	<0.216
N-Nitrosodimethylamine	NA	NA	<0.545	<0.335	<0.516	<0.244	<0.479	<0.402	<0.423	<0.414	<0.216
Pentachlorophenol	NA	0.017 b	<2.73	<1.68	<2.59	<1.22	<2.40	<2.01	<2.12	<2.08	<1.08
Phenanthrene	0.24 a	1.5 a	-	-	-	-	-	-	-	-	-
Phenol	NA	0.13 b	<0.545	<0.335	<0.516	0.307	<0.479	<0.402	<0.423	<0.414	<0.216
Pyrene	0.665 a	2.6 a	-	-	-	-	-	-	-	-	-

Wynn Resort Casino
Everett, Massachusetts

Notes:

1. Results are presented in mg/kg unless otherwise noted.
2. "<" indicates that an analyte was tested for but not detected above the Method Reporting Limit (MRL). "-" indicates that an analyte was not tested for NA indicates that a benchmark value is not available.
3. Samples are designated as "Shallow" if any portion of the sample depth occurs within the uppermost 2 feet of sediment. All other samples are designated as "Deep."
4. Group designations are as follows: ON = On-Site, OFF-W = Off-Site West, OFF-E = Off-Site East, and LC = Local Conditions.
5. Marine sediment benchmarks are from the following sources:
    a. Effects Range - Low (ERL) and Effects Range - Median (ERM) Marine Sediment screening values from Long, et al., 1995.
    b. ERL and ERM equivalent Marine Sediment benchmark values from http://epa.gov/region5/waste/cars/pdfs/ecological-screening-levels-200308.pdf
6. Bolded values exceed the conservative ERL screening value.
7. Shaded values exceed the ERM benchmark value.
8. The LC-# series of samples are Local Conditions samples

Table 3D
SEDIMENT POLYCYCLIC AROMATIC HYDROCARBONS AND EXTRACTABLE PETROLEUM HYDROCARBON RESULTS

Wynn Resort Casino
Everett, Massachusetts

Sample ID	Marine Sediment Benchmarks		GZ-102 6-8ft	GZ-104 2-4ft	GZ-104T 0-0_5ft	GZ-105 4-6ft	GZ-108 2-4ft	GZ-108T 0-0_5ft	GZ-109 0_5-2_5ft	GZ-111 7-8ft	GZ-113 2-4ft	GZ-113T 0-0_5ft	GZ-114 2-5ft
Date Sampled			08/01/2013	08/06/2013	08/06/2013	08/01/2013	08/01/2013	08/06/2013	08/02/2013	08/01/2013	08/01/2013	08/06/2013	08/01/2013
Depth (ft)			6-8	2-4	0-0.5	4-6	2-4	0-0.5	0.5-2.5	7-8	2-4	0-0.5	2-5
Type			Deep	Deep	Shallow	Deep	Deep	Shallow	Shallow	Deep	Deep	Shallow	Deep
Group			ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON
Analyte	ERLs	ERMs											
Polycyclic Aromatic Hydrocarbons (PAHs)													
2-Methylnaphthalene	0.07 a	0.67 a	<0.022	<0.115	<0.188	<0.090	<0.028	<0.174	**0.114**	<0.035	<0.092	<0.079	**0.114**
Acenaphthene	0.016 a	0.5 a	<0.022	<0.115	<0.188	<0.090	<0.028	<0.174	**0.12**	<0.035	<0.092	<0.079	**0.06**
Acenaphthylene	0.044 a	0.64 a	<0.022	**0.119**	**0.324**	**0.147**	**0.054**	<0.174	**0.204**	<0.035	**0.18**	<0.079	**0.079**
Anthracene	0.085 a	1.1 a	<0.022	**0.156**	**0.467**	**0.144**	0.05	<0.174	**0.741**	0.042	**0.268**	<0.079	**0.144**
Benzo(a)anthracene	0.261 a	1.6 a	<0.022	**0.326**	**1.59**	**0.291**	0.115	0.209	**1.12**	0.062	**0.577**	0.117	0.142
Benzo(a)pyrene	0.43 a	1.6 a	<0.022	0.368	**1.83**	0.349	0.16	0.306	**0.563**	0.051	**0.599**	0.149	0.119
Benzo(b)fluoranthene	NA	1.8 b	0.036	0.506	2.55	0.478	0.216	0.439	1.35	0.065	0.875	0.206	0.236
Benzo(g,h,i)perylene	NA	NA	0.036	0.303	1.38	0.288	0.157	0.272	0.3	0.038	0.515	0.13	0.118
Benzo(k)fluoranthene	NA	NA	0.027	0.175	0.715	0.144	0.082	<0.174	1.42	<0.035	0.309	<0.079	0.085
Chrysene	0.384 a	2.8 a	0.024	**0.414**	**1.97**	0.349	0.165	0.32	**1.18**	0.067	**0.68**	0.158	0.167
Dibenzo(a,h)Anthracene	0.063 a	0.26 a	<0.022	<0.115	**0.361**	<0.090	0.038	<0.174	<0.102	<0.035	**0.154**	<0.079	<0.035
Fluoranthene	0.6 a	5.1 a	0.03	**0.726**	**3.61**	0.507	0.234	0.425	<0.102	0.114	**0.673**	0.203	0.342
Fluorene	0.019 a	0.54 a	<0.022	<0.115	<0.188	<0.090	<0.028	<0.174	**0.163**	<0.035	<0.092	<0.079	**0.113**
Hexachlorobenzene	NA	NA	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)Pyrene	NA	NA	0.036	0.317	1.54	0.288	0.162	0.286	0.369	0.041	0.585	0.139	0.124
Naphthalene	0.16 a	2.1 a	<0.022	<0.115	**0.226**	<0.090	0.046	<0.174	**0.496**	0.091	<0.092	<0.079	**0.472**
Phenanthrene	0.24 a	1.5 a	0.03	**0.368**	**2.14**	0.237	0.095	0.174	**0.733**	0.122	**0.408**	0.108	**0.625**
Pyrene	0.665 a	2.6 a	0.033	**0.749**	**3.28**	0.644	0.254	0.446	**2.41**	0.125	**1.01**	0.237	0.44
Total PAHs	4.022 a	44.792 a	0.252	**4.527**	**21.983**	3.866	1.828	2.877	**11.283**	0.818	**6.833**	1.447	3.38
Extractable Petroleum Hyrdocarbons													
C11-C22 Aromatics1,2	NA	NA	1540	988	472	947	445	<104	2480	<108	2630	175	1640
C11-C22 Unadjusted Aromatics1	NA	NA	1540	993	488	947	445	<104	2480	<108	2630	175	1640
C19-C36 Aliphatics1	NA	NA	405	1170	688	944	937	189	1570	<108	305	329	321
C9-C18 Aliphatics1	NA	NA	143	228	114	169	142	<104	262	<108	<48.2	51.4	442
Total EPH	NA	NA	2088	2386	1274	2060	1524	189	4312	<108	2935	555.4	2403

Table 3D
SEDIMENT POLYCYCLIC AROMATIC HYDROCARBONS AND EXTRACTABLE PETROLEUM HYDROCARBON RESULTS

Wynn Resort Casino
Everett, Massachusetts

Sample ID	Marine Sediment Benchmarks		GZ-114T 0-0_5ft	GZ-116 0_5-2ft	GZ-116 2-4ft	GZ-116 6-8ft	GZ-116T 0-0_5ft	GZ-119 2-4ft	GZ-119T 0-0_5ft	GZ-122 0_5-2ft	GZ-122 2-4ft	GZ-122T 0-0_5ft	GZ-126 0_5-2ft
Date Sampled			08/06/2013	08/02/2013	08/02/2013	08/02/2013	08/06/2013	08/01/2013	08/01/2013	08/02/2013	08/02/2013	08/06/2013	08/05/2013
Depth (ft)			0-0.5	0.5-2	2-4	6-8	0-0.5	2-4	0-0.5	0.5-2	2-4	0-0.5	0.5-2
Type			Shallow	Shallow	Deep	Deep	Shallow	Deep	Shallow	Shallow	Deep	Shallow	Shallow
Group	ERLs	ERMs	ON	ON	ON	ON	ON	ON	ON	OFF-W	OFF-W	OFF-W	OFF-W
Analyte													
Polycyclic Aromatic Hydrocarbons (PAHs)													
2-Methylnaphthalene	0.07 a	0.67 a	<0.141	<0.057	**0.083**	<0.013	<0.074	**0.218**	<0.133	<0.013	<0.012	<0.059	<0.010
Acenaphthene	0.016 a	0.5 a	<0.141	<0.057	<0.067	<0.013	<0.074	**0.07**	<0.133	<0.013	<0.012	<0.059	<0.010
Acenaphthylene	0.044 a	0.64 a	<0.141	<0.057	**0.07**	<0.013	<0.074	**0.067**	<0.133	<0.013	<0.012	**0.07**	0.015
Anthracene	0.085 a	1.1 a	<0.141	**0.094**	**0.091**	<0.013	<0.074	**0.154**	<0.133	<0.013	<0.012	**0.176**	**0.115**
Benzo(a)anthracene	0.261 a	1.6 a	0.215	0.172	0.153	<0.013	0.198	0.151	0.144	0.024	<0.012	**0.418**	**0.265**
Benzo(a)pyrene	0.43 a	1.6 a	0.323	0.165	0.126	<0.013	0.18	0.121	0.191	0.02	<0.012	0.415	0.193
Benzo(b)fluoranthene	NA	1.8 b	0.458	0.293	0.207	<0.013	0.227	0.252	0.266	0.022	0.014	0.518	0.209
Benzo(g,h,i)perylene	NA	NA	0.255	0.144	0.089	<0.013	0.115	0.098	0.175	0.015	<0.012	0.279	0.091
Benzo(k)fluoranthene	NA	NA	0.147	0.085	0.078	<0.013	0.074	0.113	<0.133	<0.013	<0.012	0.185	0.074
Chrysene	0.384 a	2.8 a	0.323	0.234	0.175	<0.013	0.221	0.182	0.197	0.022	<0.012	**0.422**	0.209
Dibenzo(a,h)Anthracene	0.063 a	0.26 a	<0.141	<0.057	<0.067	<0.013	<0.074	<0.041	<0.133	<0.013	<0.012	**0.08**	0.034
Fluoranthene	0.6 a	5.1 a	0.43	0.355	0.18	<0.013	0.295	0.364	0.266	0.041	0.014	**0.631**	0.271
Fluorene	0.019 a	0.54 a	<0.141	<0.057	<0.067	<0.013	<0.074	**0.157**	<0.133	<0.013	<0.012	<0.059	0.012
Hexachlorobenzene	NA	NA	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)Pyrene	NA	NA	0.277	0.154	0.118	<0.013	0.121	0.111	0.191	0.016	<0.012	0.317	0.105
Naphthalene	0.16 a	2.1 a	<0.141	0.119	**0.247**	<0.013	<0.074	**0.808**	<0.133	<0.013	<0.012	0.073	0.014
Phenanthrene	0.24 a	1.5 a	0.181	0.167	**0.315**	<0.013	0.189	**0.767**	<0.133	0.025	<0.012	**0.296**	0.067
Pyrene	0.665 a	2.6 a	0.464	0.383	0.242	<0.013	0.407	0.446	0.314	0.039	0.016	0.617	0.341
Total PAHs	4.022 a	44.792 a	3.073	2.365	2.174	<0.013	2.027	**4.079**	1.744	0.224	0.044	**4.497**	2.015
Extractable Petroleum Hyrdocarbons													
C11-C22 Aromatics1,2	NA	NA	111	674	141	<38.7	60.2	949	155	59.5	<35.9	<34.7	47.7
C11-C22 Unadjusted Aromatics1	NA	NA	111	674	141	<38.7	60.2	949	155	59.5	<35.9	<34.7	49.7
C19-C36 Aliphatics1	NA	NA	137	154	121	<38.7	85	194	99.9	119	<35.9	<34.7	<30.5
C9-C18 Aliphatics1	NA	NA	<84.3	<102	<104	<38.7	<43.4	218	<80.3	<38.2	<35.9	<34.7	<30.5
Total EPH	NA	NA	248	828	262	<38.7	145.2	1361	254.9	178.5	<35.9	<34.7	47.7

Wynn Resort Casino
Everett, Massachusetts

Sample ID	Marine Sediment Benchmarks		GZ-126 2-4ft	GZ-126T 0-0_5ft	GZ-134 2-3ft	GZ-134 6-8ft	GZ-134T 0-0_5ft	GZ-136 0_5-2ft	GZ-137 2-4ft	GZ-137T 0-0_5ft	GZ-140A 2-3ft	GZ-201 0ft-0_5ft	GZ-201 4ft-5ft
Date Sampled			08/05/2013	08/06/2013	08/02/2013	08/02/2013	08/06/2013	08/05/2013	08/05/2013	08/06/2013	08/05/2013		
Depth (ft)			2-4	0-0.5	2-3	6-8	0-0.5	0.5-2	2-4	0-0.5	2-3	0-0.5	4-5
Type			Deep	Shallow	Shallow	Deep	Shallow	Shallow	Deep	Shallow	Shallow	Shallow	Deep
Group	ERLs	ERMs	OFF-W	OFF-W	ON	ON	ON	OFF-W	OFF-W	OFF-W	OFF-W	OFF-E	OFF-E
Analyte													
Polycyclic Aromatic Hydrocarbons (PAHs)													
2-Methylnaphthalene	0.07 a	0.67 a	<0.011	<0.064	**0.571**	**6.35**	**0.155**	**0.121**	**0.107**	**0.171**	<0.079	<0.045	0.06
Acenaphthene	0.016 a	0.5 a	<0.011	<0.064	**0.505**	**3.34**	<0.129	**0.165**	**0.19**	**0.131**	<0.079	**0.021**	<0.022
Acenaphthylene	0.044 a	0.64 a	<0.011	**0.084**	**0.319**	**1.89**	**0.646**	**0.317**	**0.258**	**0.496**	**0.463**	**0.101**	**0.078**
Anthracene	0.085 a	1.1 a	<0.011	**0.298**	**1.09**	**3.83**	**0.677**	**0.613**	**0.703**	**0.625**	**0.513**	**0.13**	**0.088**
Benzo(a)anthracene	0.261 a	1.6 a	<0.011	**0.769**	**0.77**	**3.25**	**1.28**	**0.64**	**0.906**	**1.15**	**0.973**	**0.276**	0.154
Benzo(a)pyrene	0.43 a	1.6 a	<0.011	**0.738**	**0.806**	**2.25**	**2.04**	**0.87**	**0.982**	**1.5**	**1.06**	0.389	0.197
Benzo(b)fluoranthene	NA	1.8 b	<0.011	0.84	1.76	3.33	3.2	1.3	1.18	2.16	1.24	0.594	0.276
Benzo(g,h,i)perylene	NA	NA	<0.011	0.443	1.12	1.62	1.69	0.543	0.552	1.03	0.558	0.187	0.091
Benzo(k)fluoranthene	NA	NA	<0.011	0.29	1.07	1.4	0.873	0.412	0.437	0.858	0.412	0.19	0.103
Chrysene	0.384 a	2.8 a	<0.011	**0.67**	**1.26**	**3.09**	**1.76**	**1.12**	**0.946**	**1.47**	**1.12**	**0.401**	0.183
Dibenzo(a,h)Anthracene	0.063 a	0.26 a	<0.011	**0.137**	**0.325**	**0.601**	**0.46**	**0.17**	**0.181**	**0.299**	**0.19**	0.055	0.029
Fluoranthene	0.6 a	5.1 a	<0.011	**0.975**	**1.9**	**4.93**	**2.07**	**1.25**	**1.52**	**1.88**	**1.13**	**0.684**	0.303
Fluorene	0.019 a	0.54 a	<0.011	<0.064	**0.896**	**3.36**	**0.176**	**0.218**	**0.187**	**0.197**	**0.082**	**0.033**	**0.029**
Hexachlorobenzene	NA	NA	-	-	-	-	-	-	-	-	-	<0.018	<0.022
Indeno(1,2,3-cd)Pyrene	NA	NA	<0.011	0.532	1.19	1.79	1.89	0.628	0.641	1.16	0.634	0.222	0.102
Naphthalene	0.16 a	2.1 a	<0.011	<0.064	**7.91**	**15.2**	**0.692**	**0.514**	**0.394**	**0.825**	**0.285**	0.125	0.112
Phenanthrene	0.24 a	1.5 a	<0.011	**0.341**	**3.63**	**9.55**	**1.11**	**1.11**	**1.19**	**1.21**	**0.295**	0.23	0.124
Pyrene	0.665 a	2.6 a	<0.011	**1.08**	**2.48**	**6.84**	**2.91**	**1.96**	**2.02**	**2.36**	**1.76**	0.553	0.332
Total PAHs	4.022 a	44.792 a	<0.011	**7.197**	**27.602**	**72.621**	**21.629**	**11.951**	**12.394**	**17.522**	**10.715**	**4.191**	2.261
Extractable Petroleum Hyrdocarbons													
C11-C22 Aromatics1,2	NA	NA	<32.2	68	2790	2530	355	262	66.9	226	173	49	-
C11-C22 Unadjusted Aromatics1	NA	NA	<32.2	80.8	2800	2590	363	269	66.9	234	181	49	-
C19-C36 Aliphatics1	NA	NA	<32.2	49.9	495	898	783	270	61.2	398	151	141	-
C9-C18 Aliphatics1	NA	NA	<32.2	<37.9	524	612	92.5	71.9	<31.3	54.1	54.6	<44.9	-
Total EPH	NA	NA	<32.2	117.9	3809	4040	1230.5	603.9	128.1	678.1	378.6	190	-

Table 3D
SEDIMENT POLYCYCLIC AROMATIC HYDROCARBONS AND EXTRACTABLE PETROLEUM HYDROCARBON RESULTS

Wynn Resort Casino
Everett, Massachusetts

Sample ID	Marine Sediment Benchmarks				GZ-202 0ft-0_5ft	GZ-202 2ft-4ft	GZ-203 0ft-0_5ft	GZ-203 4ft-6ft	GZ-204 0ft-0_5ft	GZ-204 2ft-4ft	GZ-204 6ft-8ft	GZ-205 0ft-0_5ft	GZ-205 4ft-6ft	GZ-205 6ft-8ft	GZ-206 0ft-0_5ft
Date Sampled					03/24/2015	3/24/2015	03/24/2015	03/24/2015	03/24/2015	03/24/2015	03/24/2015	3/25/2015	3/25/2015	3/25/2015	3/25/2015
Depth (ft)					0-0.5	2-4	0-0.5	4-6	0.0.5	2-4	6-8	0-0.5	2-6	6-8	0-0.5
Type					Shallow	Deep	Shallow	Deep	Shallow	Deep	Deep	Shallow	Deep	Deep	Shallow
Group	ERLs		ERMs		OFF-E	OFF-E	OFF-E	OFF-E	OFF-E	OFF-E	OFF-E	OFF-E	OFF-E	OFF-E	ON
Analyte															
Polycyclic Aromatic Hydrocarbons (PAHs)															
2-Methylnaphthalene	0.07	a	0.67	a	<0.050	<0.020	<0.034	0.022	<0.035	**1.54**	**0.083**	<0.032	**0.43**	<0.017	<0.040
Acenaphthene	0.016	a	0.5	a	**0.049**	**0.027**	**0.03**	**0.021**	**0.029**	**0.599**	**0.135**	<0.032	**0.447**	<0.017	**0.04**
Acenaphthylene	0.044	a	0.64	a	**0.19**	**0.052**	**0.103**	<0.020	**0.071**	**0.519**	**0.087**	**0.131**	**0.509**	0.018	**0.413**
Anthracene	0.085	a	1.1	a	**0.187**	0.054	**0.111**	<0.020	**0.104**	**1.03**	**0.309**	**0.143**	**1.07**	0.034	**0.974**
Benzo(a)anthracene	0.261	a	1.6	a	**0.521**	0.075	**0.321**	<0.020	**0.291**	**0.864**	0.169	**0.421**	**0.975**	0.052	**0.948**
Benzo(a)pyrene	0.43	a	1.6	a	**0.69**	0.103	**0.451**	<0.020	0.35	**0.868**	0.173	**0.552**	**0.904**	0.048	**1.3**
Benzo(b)fluoranthene	NA		1.8	b	1.07	0.121	0.655	<0.020	0.517	1.43	0.242	0.785	1.16	0.054	1.46
Benzo(g,h,i)perylene	NA		NA		0.581	<0.020	0.407	<0.020	0.273	0.568	0.106	0.347	0.42	0.029	0.818
Benzo(k)fluoranthene	NA		NA		0.337	0.052	0.159	<0.020	0.137	0.459	0.064	0.252	0.392	<0.017	0.44
Chrysene	0.384	a	2.8	a	**0.693**	0.101	**0.479**	<0.020	0.354	**1.14**	0.234	**0.526**	**1.12**	0.057	**1.14**
Dibenzo(a,h)Anthracene	0.063	a	0.26	a	**0.146**	<0.020	**0.096**	<0.020	**0.068**	<0.440	0.032	**0.099**	**0.121**	<0.017	**0.173**
Fluoranthene	0.6	a	5.1	a	**1.07**	0.177	**0.682**	<0.020	**0.612**	**2.41**	0.455	**0.813**	**2.3**	0.095	**2.06**
Fluorene	0.019	a	0.54	a	**0.073**	**0.027**	**0.04**	<0.020	**0.038**	**1.06**	**0.16**	**0.043**	**0.665**	<0.017	**0.088**
Hexachlorobenzene	NA		NA		<0.020	<0.008	<0.014	<0.008	<0.014	<0.176	<0.008	<0.013	<0.030	<0.007	<0.016
Indeno(1,2,3-cd)Pyrene	NA		NA		0.628	<0.020	0.416	<0.020	0.298	0.581	0.114	0.407	0.459	0.031	0.846
Naphthalene	0.16	a	2.1	a	**0.223**	0.126	0.131	**0.202**	0.094	**14.8**	**1.17**	0.126	**3.52**	0.025	0.149
Phenanthrene	0.24	a	1.5	a	**0.442**	0.088	**0.293**	<0.020	**0.331**	**2.81**	**0.636**	**0.302**	**2.26**	0.026	**0.542**
Pyrene	0.665	a	2.6	a	**1.09**	0.231	**0.705**	<0.020	0.636	**2.56**	0.56	**0.847**	**2.58**	0.106	**3.2**
Total PAHs	4.022	a	44.792	a	**7.99**	1.234	**5.079**	0.245	**4.203**	**33.238**	**4.729**	**5.794**	**19.332**	0.575	**14.591**
Extractable Petroleum Hyrdocarbons															
C11-C22 Aromatics1,2	NA		NA		97.3	-	54.6	-	63	2280	-	43.2	-	-	<40.4
C11-C22 Unadjusted Aromatics1	NA		NA		103	-	63.1	-	66.2	2280	-	43.2	-	-	<40.4
C19-C36 Aliphatics1	NA		NA		256	-	106	-	120	391	-	71.8	-	-	92.8
C9-C18 Aliphatics1	NA		NA		<49.8	-	<34.7	-	<34.7	574	-	<31.6	-	-	<40.4
Total EPH	NA		NA		353.3	-	160.6	-	183	3245	-	115	-	-	92.8

Table 3D
SEDIMENT POLYCYCLIC AROMATIC HYDROCARBONS AND EXTRACTABLE PETROLEUM HYDROCARBON RESULTS

Wynn Resort Casino
Everett, Massachusetts

Sample ID	Marine Sediment Benchmarks		GZ-206 4ft-6ft	GZ-207 0ft-0_5ft	GZ-207 4ft-6ft	GZ-207 6ft-7_5ft	GZ-208 0ft-0_5ft	GZ-208 4ft-6ft	GZ-209 0ft-0_5ft	GZ-209 2ft-4ft	GZ-209 6ft-8ft	GZ-210 0_5ft-2ft	GZ-210 0ft-0_5ft
Date Sampled			3/25/2015	3/25/2015	3/25/2015	3/25/2015	3/25/2015	3/25/2015	3/25/2015	3/25/2015	3/25/2015	3/30/2015	3/30/2015
Depth (ft)			4-6	0-0.5	4-6	6-7	0-0.5	4-6	0-0.5	2-4	6-8	0.5-2	0-0.5
Type			Deep	Shallow	Deep	Deep	Shallow	Deep	Shallow	Deep	Deep	Shallow	Shallow
Group	ERLs	ERMs	ON	ON	ON	ON	ON	ON	ON	ON	ON	OFF-E	OFF-E
Analyte													
Polycyclic Aromatic Hydrocarbons (PAHs)													
2-Methylnaphthalene	0.07 a	0.67 a	0.055	<0.039	**0.38**	<0.020	<0.038	**1.02**	<0.041	**0.253**	<0.017	<0.019	<0.017
Acenaphthene	0.016 a	0.5 a	**0.43**	**0.033**	**0.201**	<0.020	**0.03**	**1.1**	**0.021**	**0.158**	<0.017	<0.019	<0.017
Acenaphthylene	0.044 a	0.64 a	**0.122**	**0.183**	**0.183**	<0.020	**0.165**	**1.04**	**0.114**	**0.192**	<0.017	<0.019	0.018
Anthracene	0.085 a	1.1 a	**0.523**	**0.201**	**0.369**	<0.020	**0.169**	**1.52**	**0.109**	**0.164**	<0.017	<0.019	0.047
Benzo(a)anthracene	0.261 a	1.6 a	**0.316**	**0.47**	**0.316**	<0.020	**0.474**	**1.55**	**0.328**	<0.270	<0.017	<0.019	0.099
Benzo(a)pyrene	0.43 a	1.6 a	0.26	**0.708**	**0.542**	<0.020	**0.683**	**2.24**	**0.481**	<0.270	<0.017	<0.019	0.114
Benzo(b)fluoranthene	NA	1.8 b	0.246	1.14	0.748	<0.020	1.02	2.49	0.752	0.278	<0.017	<0.019	0.137
Benzo(g,h,i)perylene	NA	NA	0.103	0.567	0.185	<0.020	0.628	1.46	0.431	<0.270	<0.017	<0.019	0.081
Benzo(k)fluoranthene	NA	NA	0.055	0.257	0.274	<0.020	0.271	0.745	0.176	<0.270	<0.017	<0.019	0.047
Chrysene	0.384 a	2.8 a	0.315	**0.699**	**0.424**	<0.020	**0.647**	**1.89**	**0.482**	<0.270	<0.017	<0.019	0.108
Dibenzo(a,h)Anthracene	0.063 a	0.26 a	0.04	**0.146**	<0.065	<0.020	**0.152**	**0.544**	**0.099**	<0.108	<0.017	<0.019	0.018
Fluoranthene	0.6 a	5.1 a	0.55	**1**	**0.814**	<0.020	**0.977**	**2.19**	**0.697**	0.526	<0.017	<0.019	0.176
Fluorene	0.019 a	0.54 a	**0.35**	**0.056**	**0.335**	<0.020	**0.052**	**1.35**	**0.034**	**0.187**	<0.007	<0.019	<0.017
Hexachlorobenzene	NA	NA	<0.273	<0.516	<0.013	<0.008	<0.520	<0.01	<0.016	<0.027	<0.007	<0.019	<0.017
Indeno(1,2,3-cd)Pyrene	NA	NA	0.116	0.632	0.195	<0.020	0.677	1.59	0.443	<0.270	<0.017	<0.019	0.085
Naphthalene	0.16 a	2.1 a	**0.178**	**0.282**	**2.65**	<0.020	0.157	**3.32**	0.093	**1.15**	<0.017	<0.019	<0.017
Phenanthrene	0.24 a	1.5 a	**1.37**	**0.404**	**1.08**	<0.020	**0.378**	**5.13**	**0.259**	**0.716**	<0.017	<0.019	0.069
Pyrene	0.665 a	2.6 a	**0.754**	**1.09**	**1.06**	<0.020	**1.09**	**4.65**	**0.733**	0.644	<0.017	0.019	0.176
Total PAHs	4.022 a	44.792 a	**5.783**	**7.868**	**9.756**	<0.020	**7.57**	**33.829**	**5.252**	**4.268**	<0.017	0.019	1.175
Extractable Petroleum Hyrdocarbons													
C11-C22 Aromatics1,2	NA	NA	598	39.3	-	-	52.9	-	43.8	787	-	-	<16.8
C11-C22 Unadjusted Aromatics1	NA	NA	604	39.3	-	-	52.9	-	43.8	787	-	-	<16.8
C19-C36 Aliphatics1	NA	NA	202	98.8	-	-	125	-	129	221	-	-	<16.8
C9-C18 Aliphatics1	NA	NA	165	<39.0	-	-	<38.5	-	<43.1	335	-	-	<16.8
Total EPH	NA	NA	965	138.1	-	-	177.9	-	172.8	1343	-	-	<16.8

Table 3D
SEDIMENT POLYCYCLIC AROMATIC HYDROCARBONS AND EXTRACTABLE PETROLEUM HYDROCARBON RESULTS

Wynn Resort Casino
Everett, Massachusetts

Sample ID	Marine Sediment Benchmarks		GZ-210 2ft-4ft	GZ-211 0ft-0_5ft	GZ-211 4ft-6ft	GZ-212 0_5ft-2ft	GZ-212 0ft-0_5ft	GZ-213 0ft-0_5ft	GZ-213 4ft-6ft	GZ-214 0ft-0_5ft	GZ-214 2ft-4ft	GZ-214 4ft-6ft	GZ-214 6ft-8ft
Date Sampled			3/30/2015	3/30/2015	3/30/2015	03/24/2015	03/24/2015	3/25/2015	3/25/2015	3/30/2015	3/30/2015		3/30/2015
Depth (ft)			2-4	0-0.5	4-6	0.5-2	0-0.5	0-0.5	4-6	0-0.5	2-4	4-6	6-8
Type			Deep	Shallow	Deep	Shallow	Shallow	Shallow	Deep	Shallow	Deep	Deep	Deep
Group			OFF-E	OFF-E	OFF-E	OFF-E	OFF-E	ON	ON	ON	ON	ON	ON
Analyte	ERLs	ERMs											
Polycyclic Aromatic Hydrocarbons (PAHs)													
2-Methylnaphthalene	0.07 a	0.67 a	<0.018	<0.016	<0.019	<0.018	<0.017	0.028	<0.016	0.049	<0.019	<0.018	<0.017
Acenaphthene	0.016 a	0.5 a	<0.018	<0.016	<0.019	<0.018	**0.025**	**0.024**	<0.016	**0.194**	<0.019	<0.018	<0.017
Acenaphthylene	0.044 a	0.64 a	<0.018	0.027	<0.019	0.019	0.024	**0.163**	<0.016	**0.14**	<0.019	<0.018	<0.017
Anthracene	0.085 a	1.1 a	<0.018	0.085	<0.019	**0.094**	0.075	**0.171**	<0.016	**0.346**	<0.019	<0.018	<0.017
Benzo(a)anthracene	0.261 a	1.6 a	<0.018	0.233	<0.019	**0.302**	0.151	**0.314**	<0.016	**0.677**	<0.019	<0.018	<0.017
Benzo(a)pyrene	0.43 a	1.6 a	<0.018	0.243	<0.019	0.273	0.161	0.425	<0.016	**0.804**	<0.019	<0.018	<0.017
Benzo(b)fluoranthene	NA	1.8 b	<0.018	0.294	<0.019	0.314	0.194	0.569	<0.016	1.02	<0.019	<0.018	<0.017
Benzo(g,h,i)perylene	NA	NA	<0.018	0.164	<0.019	0.145	0.111	0.212	<0.016	0.402	<0.019	<0.018	<0.017
Benzo(k)fluoranthene	NA	NA	<0.018	0.084	<0.019	0.09	0.065	0.182	<0.016	0.322	<0.019	<0.018	<0.017
Chrysene	0.384 a	2.8 a	<0.018	0.231	<0.019	0.296	0.16	0.362	<0.016	**0.722**	<0.019	<0.018	<0.017
Dibenzo(a,h)Anthracene	0.063 a	0.26 a	<0.018	0.038	<0.019	0.044	0.027	**0.07**	<0.016	**0.131**	<0.019	<0.018	<0.017
Fluoranthene	0.6 a	5.1 a	<0.018	0.403	<0.019	0.454	0.31	0.525	<0.016	**1.33**	<0.019	<0.018	<0.017
Fluorene	0.019 a	0.54 a	<0.018	**0.02**	<0.019	<0.018	**0.024**	**0.052**	<0.016	**0.143**	<0.019	<0.018	<0.017
Hexachlorobenzene	NA	NA	<0.018	<0.016	<0.019	<0.007	<0.007	<0.009	<0.006	<0.024	<0.019	<0.018	<0.017
Indeno(1,2,3-cd)Pyrene	NA	NA	<0.018	0.174	<0.019	0.167	0.119	0.266	<0.016	0.517	<0.019	<0.018	<0.017
Naphthalene	0.16 a	2.1 a	<0.018	0.026	<0.019	<0.018	0.024	0.073	<0.016	**0.2**	<0.019	<0.018	<0.017
Phenanthrene	0.24 a	1.5 a	<0.018	0.156	<0.019	0.115	0.184	**0.262**	<0.016	**0.812**	<0.019	<0.018	<0.017
Pyrene	0.665 a	2.6 a	<0.018	0.382	<0.019	0.45	0.294	**0.751**	<0.016	**1.21**	<0.019	<0.018	<0.017
Total PAHs	4.022 a	44.792 a	<0.018	2.56	<0.019	2.763	1.948	**4.449**	<0.016	**9.019**	<0.019	<0.018	<0.017
Extractable Petroleum Hyrdocarbons													
C11-C22 Aromatics1,2	NA	NA	-	<16.2	-	-	<16.8	57.6	-	101	<18.9	<18.0	-
C11-C22 Unadjusted Aromatics1	NA	NA	-	<16.2	-	-	<16.8	61.3	-	103	<18.9	<18.0	-
C19-C36 Aliphatics1	NA	NA	-	<16.2	-	-	18.2	78.6	-	117	<18.9	<18.0	-
C9-C18 Aliphatics1	NA	NA	-	<16.2	-	-	<16.8	<21.6	-	26.1	<18.9	<18.0	-
Total EPH	NA	NA	-	<16.2	-	-	18.2	136.2	-	244.1	<18.9	<18.0	-

Table 3D
SEDIMENT POLYCYCLIC AROMATIC HYDROCARBONS AND EXTRACTABLE PETROLEUM HYDROCARBON RESULTS

Wynn Resort Casino
Everett, Massachusetts

Sample ID	Marine Sediment Benchmarks		GZ-215 0ft-0_5ft	GZ-215 4ft-6ft	GZ-216 0ft-0_5ft	GZ-216 2ft-4ft	GZ-216 4ft-6ft	GZ-217 0ft-0_5ft	GZ-217 6ft-8ft	GZ-218 0_5ft-2ft	GZ-218 0ft-0_5ft	GZ-218 4ft-6ft	GZ-219 0ft-0_5ft
Date Sampled			03/24/2015		03/24/2015	03/24/2015	03/24/2015	03/24/2015	03/24/2015	3/25/2015	3/25/2015	3/25/2015	3/25/2015
Depth (ft)			0-0.5	4-6	0-0.5	2-4	4-6	0-0.5	6-8	0.5-2	0-0.5	4-6	0-0.5
Type			Shallow	Deep	Shallow	Deep	Deep	Shallow	Deep	Shallow	Shallow	Deep	Shallow
Group			ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON
Analyte	ERLs	ERMs											
Polycyclic Aromatic Hydrocarbons (PAHs)													
2-Methylnaphthalene	0.07 a	0.67 a	0.03	<0.015	0.049	<0.020	<0.018	**0.094**	<0.019	<0.109	0.033	<0.017	0.031
Acenaphthene	0.016 a	0.5 a	**0.039**	<0.015	**0.039**	**0.029**	<0.018	**0.079**	<0.019	**0.03**	**0.032**	<0.017	**0.027**
Acenaphthylene	0.044 a	0.64 a	**0.081**	<0.015	**0.149**	0.021	<0.018	**0.368**	<0.019	**0.328**	**0.212**	<0.017	**0.127**
Anthracene	0.085 a	1.1 a	**0.161**	<0.015	**0.24**	**0.1**	<0.018	**0.556**	<0.019	**0.336**	**0.234**	<0.017	**0.175**
Benzo(a)anthracene	0.261 a	1.6 a	**0.327**	<0.015	**0.442**	**0.327**	<0.018	**0.808**	<0.019	**0.718**	**0.527**	<0.017	**0.355**
Benzo(a)pyrene	0.43 a	1.6 a	0.382	<0.015	**0.497**	0.279	<0.018	**0.818**	<0.019	**0.674**	**0.735**	<0.017	**0.459**
Benzo(b)fluoranthene	NA	1.8 b	0.512	<0.015	0.594	0.315	<0.018	0.985	<0.019	0.804	1.2	<0.017	0.719
Benzo(g,h,i)perylene	NA	NA	0.217	<0.015	0.419	0.139	<0.018	0.472	<0.019	0.282	0.404	<0.017	0.249
Benzo(k)fluoranthene	NA	NA	0.145	<0.015	0.205	0.113	<0.018	0.334	<0.019	0.216	0.293	<0.017	0.167
Chrysene	0.384 a	2.8 a	0.371	<0.015	**0.587**	0.305	0.018	**1.03**	<0.019	**0.882**	**0.713**	<0.017	**0.491**
Dibenzo(a,h)Anthracene	0.063 a	0.26 a	0.06	<0.015	**0.104**	0.045	<0.018	**0.154**	<0.019	<0.109	**0.127**	<0.017	**0.072**
Fluoranthene	0.6 a	5.1 a	**0.695**	<0.015	0.59	0.47	0.031	**0.924**	<0.019	**1.24**	**0.991**	<0.017	**0.624**
Fluorene	0.019 a	0.54 a	**0.053**	<0.015	**0.104**	**0.026**	<0.018	**0.18**	<0.019	**0.081**	**0.054**	<0.017	**0.046**
Hexachlorobenzene	NA	NA	<0.021	<0.015	<0.018	<0.008	<0.007	<0.009	<0.008	<0.022	<0.010	<0.007	<0.009
Indeno(1,2,3-cd)Pyrene	NA	NA	0.265	<0.015	0.435	0.151	<0.018	0.547	<0.019	0.33	0.493	<0.017	0.295
Naphthalene	0.16 a	2.1 a	0.13	<0.015	**0.184**	0.021	<0.018	**0.25**	<0.019	<0.109	0.1	<0.017	0.082
Phenanthrene	0.24 a	1.5 a	**0.445**	<0.015	**0.248**	0.11	<0.018	**0.762**	<0.019	**0.248**	**0.345**	<0.017	0.227
Pyrene	0.665 a	2.6 a	0.654	<0.015	**1.07**	0.47	0.031	**1.7**	<0.019	**1.49**	**1.12**	0.018	**0.849**
Total PAHs	4.022 a	44.792 a	**4.567**	<0.015	**5.956**	2.921	0.08	**10.061**	<0.019	**7.659**	**7.613**	0.018	**4.995**
Extractable Petroleum Hyrdocarbons													
C11-C22 Aromatics1,2	NA	NA	37.6	-	199	<20.3	-	217	-	38.8	57.2	-	63
C11-C22 Unadjusted Aromatics1	NA	NA	37.6	-	204	20.6	-	227	-	42.7	62	-	68.7
C19-C36 Aliphatics1	NA	NA	64.9	-	124	<20.3	-	188	-	43.3	97.5	-	108
C9-C18 Aliphatics1	NA	NA	<21.6	-	29.4	<20.3	-	59	-	<21.6	<25.2	-	<23.1
Total EPH	NA	NA	102.5	-	352.4	<20.3	-	464	-	82.1	154.7	-	171

Table 3D
SEDIMENT POLYCYCLIC AROMATIC HYDROCARBONS AND EXTRACTABLE PETROLEUM HYDROCARBON RESULTS

Wynn Resort Casino
Everett, Massachusetts

Sample ID	Marine Sediment Benchmarks		GZ-219 4ft-6ft	GZ-220 0_5ft-2ft	GZ-220 0ft-0_5ft	GZ-220 2ft-4ft	GZ-221 0ft-0_5ft	GZ-221 4ft-6ft	GZ-222 0_5ft-2ft	GZ-222 0ft-0_5ft	GZ-222 2ft-4ft	GZ-223 0ft-0_5ft	GZ-223 2ft-4ft
Date Sampled			3/25/2015	3/30/2015	3/30/2015	3/30/2015	3/30/2015	3/30/2015	3/30/2015	3/30/2015	3/30/2015	3/30/2015	3/30/2015
Depth (ft)			4-6	0.5-2	0-0.5	2-4	0-0.5	4-6	0.5-2	0-0.5	2-4	0-0.5	2-4
Type			Deep	Shallow	Shallow	Deep	Shallow	Deep	Shallow	Shallow	Deep	Shallow	Deep
Group			ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON
Analyte	ERLs	ERMs											
Polycyclic Aromatic Hydrocarbons (PAHs)													
2-Methylnaphthalene	0.07 a	0.67 a	<0.016	**0.423**	<0.025	<0.019	<0.026	<0.018	0.029	0.025	<0.018	**0.09**	0.036
Acenaphthene	0.016 a	0.5 a	<0.016	**0.271**	**0.039**	<0.019	**0.027**	<0.018	**0.021**	**0.026**	<0.018	**0.241**	**0.032**
Acenaphthylene	0.044 a	0.64 a	<0.016	**0.925**	**0.077**	<0.019	**0.083**	<0.018	**0.198**	**0.104**	**0.319**	**0.183**	**0.677**
Anthracene	0.085 a	1.1 a	<0.016	**1.74**	**0.138**	<0.019	**0.107**	<0.018	**0.25**	**0.142**	**0.351**	**0.557**	**0.516**
Benzo(a)anthracene	0.261 a	1.6 a	<0.016	**2.15**	**0.268**	0.023	**0.269**	<0.018	**0.425**	**0.347**	**0.725**	**1.09**	**1.58**
Benzo(a)pyrene	0.43 a	1.6 a	<0.016	**2.18**	0.339	0.025	0.359	<0.018	**0.452**	**0.45**	**0.596**	**1.25**	**1.32**
Benzo(b)fluoranthene	NA	1.8 b	<0.016	3.36	0.471	0.03	0.507	<0.018	0.527	0.673	0.519	1.84	1.52
Benzo(g,h,i)perylene	NA	NA	<0.016	0.902	0.162	<0.019	0.298	<0.018	0.164	0.216	0.279	0.853	0.669
Benzo(k)fluoranthene	NA	NA	<0.016	0.693	0.121	<0.019	0.137	<0.018	0.171	0.174	0.134	0.52	1.51
Chrysene	0.384 a	2.8 a	<0.016	**2.33**	0.34	0.028	0.345	<0.018	**0.518**	**0.439**	**0.763**	**1.17**	**1.58**
Dibenzo(a,h)Anthracene	0.063 a	0.26 a	<0.016	**0.385**	0.052	<0.019	**0.071**	<0.018	**0.067**	0.063	**0.086**	**0.239**	**0.247**
Fluoranthene	0.6 a	5.1 a	<0.016	**5.89**	**0.602**	0.045	0.578	<0.018	**0.914**	**0.652**	**0.949**	**2.21**	**2.12**
Fluorene	0.019 a	0.54 a	<0.016	**0.378**	**0.049**	<0.019	**0.037**	<0.018	**0.049**	**0.045**	**0.043**	**0.316**	**0.098**
Hexachlorobenzene	NA	NA	<0.006	<0.027	<0.025	<0.019	<0.026	<0.018	<0.019	<0.022	<0.018	<0.024	<0.022
Indeno(1,2,3-cd)Pyrene	NA	NA	<0.016	1.24	0.209	<0.019	0.32	<0.018	0.216	0.27	0.271	1.03	0.677
Naphthalene	0.16 a	2.1 a	<0.016	**1.41**	0.105	<0.019	0.083	<0.018	0.086	0.082	0.028	**0.26**	0.081
Phenanthrene	0.24 a	1.5 a	<0.016	**1.19**	**0.362**	<0.019	**0.279**	<0.018	0.161	**0.299**	0.15	**1.94**	**0.301**
Pyrene	0.665 a	2.6 a	<0.016	**5.17**	0.58	0.045	0.564	<0.018	**0.81**	0.609	**1.32**	**2.26**	**3.41**
Total PAHs	4.022 a	44.792 a	<0.016	**30.637**	3.914	0.196	**4.064**	<0.018	**5.058**	**4.616**	**6.533**	**16.049**	**16.374**
Extractable Petroleum Hyrdocarbons													
C11-C22 Aromatics1,2	NA	NA	-	179	100	-	133	-	-	65.5	-	56.7	-
C11-C22 Unadjusted Aromatics1	NA	NA	-	179	106	-	192	-	-	67.8	-	58.1	-
C19-C36 Aliphatics1	NA	NA	-	58.4	130	-	110	-	-	77.9	-	68.3	-
C9-C18 Aliphatics1	NA	NA	-	<26.6	25.9	-	<25.9	-	-	<22.2	-	<24.0	-
Total EPH	NA	NA	-	237.4	255.9	-	243	-	-	143.4	-	125	-

Table 3D
SEDIMENT POLYCYCLIC AROMATIC HYDROCARBONS AND EXTRACTABLE PETROLEUM HYDROCARBON RESULTS

Wynn Resort Casino
Everett, Massachusetts

Sample ID	Marine Sediment Benchmarks		GZ-224 0_5ft-2ft	GZ-224 0ft-0_5ft	GZ-225 0ft-0_5ft	GZ-225 4ft-6ft	GZ-225 6ft-7.2ft	GZ-226 0_5ft-2ft	GZ-226 0ft-0_5ft	GZ-226 2ft-4ft	LC-101 0ft-0_5ft	LC-101 2ft-4ft	LC-101 6ft-8ft
Date Sampled			3/30/2015	3/30/2015	03/27/2015	03/27/2015	03/27/2015	3/30/2015	3/30/2015	3/30/2015	03/26/2015	03/26/2015	03/26/2015
Depth (ft)			0.5-2	0-0.5	0-0.5	4-6	6-7.2	0.5-2	0-0.5	2-4	0-0.5	2-4	6-8
Type			Shallow	Shallow	Shallow	Deep	Deep	Shallow	Shallow	Deep	Shallow	Deep	Deep
Group			ON	ON	ON	ON	ON	ON	ON	ON	LC	LC	LC
Analyte	ERLs	ERMs											
Polycyclic Aromatic Hydrocarbons (PAHs)													
2-Methylnaphthalene	0.07 a	0.67 a	**0.088**	0.033	<0.025	<0.022	<0.016	0.024	0.03	<0.017	**0.23**	<0.020	<0.017
Acenaphthene	0.016 a	0.5 a	**0.07**	**0.046**	<0.025	<0.022	<0.016	**0.022**	**0.037**	<0.017	**0.302**	<0.020	<0.017
Acenaphthylene	0.044 a	0.64 a	**1.29**	**0.111**	**0.055**	**0.072**	<0.016	**0.128**	**0.144**	<0.017	**1.17**	**0.051**	<0.017
Anthracene	0.085 a	1.1 a	**1.18**	**0.168**	**0.089**	0.056	<0.016	**0.169**	**0.183**	<0.017	**2.65**	0.052	<0.017
Benzo(a)anthracene	0.261 a	1.6 a	**2.85**	**0.578**	0.195	0.144	<0.016	**0.447**	**0.392**	<0.017	**3.97**	0.089	<0.017
Benzo(a)pyrene	0.43 a	1.6 a	**2.33**	**0.755**	0.237	0.143	<0.016	**0.516**	**0.545**	<0.017	**4.25**	0.091	<0.017
Benzo(b)fluoranthene	NA	1.8 b	2.87	1.13	0.365	0.155	<0.016	0.553	0.823	<0.017	5.03	0.135	<0.017
Benzo(g,h,i)perylene	NA	NA	1.02	0.501	0.102	0.048	<0.016	0.212	0.237	<0.017	1.66	0.045	<0.017
Benzo(k)fluoranthene	NA	NA	0.593	0.311	0.132	0.05	<0.016	0.161	0.268	<0.017	1.28	0.035	<0.017
Chrysene	0.384 a	2.8 a	**3.51**	**0.688**	0.256	0.167	<0.016	**0.449**	**0.486**	0.019	**3.63**	0.1	<0.017
Dibenzo(a,h)Anthracene	0.063 a	0.26 a	**0.395**	**0.167**	0.032	<0.022	<0.016	0.055	**0.076**	<0.017	**0.656**	<0.020	<0.017
Fluoranthene	0.6 a	5.1 a	**4.69**	**0.876**	0.401	0.256	<0.016	**0.753**	**0.764**	0.028	**8.56**	0.169	<0.017
Fluorene	0.019 a	0.54 a	**0.257**	**0.059**	<0.025	<0.022	<0.016	**0.044**	**0.057**	<0.017	**0.747**	<0.020	<0.017
Hexachlorobenzene	NA	NA	<0.023	<0.018	<0.025	<0.022	<0.016	<0.020	<0.023	<0.017	<0.025	<0.020	<0.017
Indeno(1,2,3-cd)Pyrene	NA	NA	1.17	0.603	0.126	0.057	<0.016	0.244	0.319	<0.017	2.08	0.052	<0.017
Naphthalene	0.16 a	2.1 a	**0.224**	0.1	0.045	<0.022	<0.016	0.071	0.136	<0.017	**0.867**	0.055	<0.017
Phenanthrene	0.24 a	1.5 a	**0.933**	**0.353**	0.138	0.053	<0.016	**0.248**	**0.314**	<0.017	**5.46**	0.042	<0.017
Pyrene	0.665 a	2.6 a	**5.37**	**0.795**	0.355	0.265	<0.016	**0.72**	**0.853**	0.033	**7.27**	0.193	<0.017
Total PAHs	4.022 a	44.792 a	**28.84**	**7.274**	2.528	1.466	<0.016	**4.816**	**5.664**	0.08	**49.812**	1.109	<0.017
Extractable Petroleum Hyrdocarbons													
C11-C22 Aromatics1,2	NA	NA	172	23.7	25.9	-	-	-	25.9	-	72.7	-	-
C11-C22 Unadjusted Aromatics1	NA	NA	193	24.8	31.9	-	-	-	25.9	-	88.3	-	-
C19-C36 Aliphatics1	NA	NA	166	38.6	80.9	-	-	-	<22.9	-	118	-	-
C9-C18 Aliphatics1	NA	NA	<23.2	<18.0	<25.3	-	-	-	<22.9	-	<25.2	-	-
Total EPH	NA	NA	338	62.3	106.8	-	-	-	25.9	-	190.7	-	-

Table 3D
SEDIMENT POLYCYCLIC AROMATIC HYDROCARBONS AND EXTRACTABLE PETROLEUM HYDROCARBON RESULTS

Wynn Resort Casino
Everett, Massachusetts

Sample ID	Marine Sediment Benchmarks		LC-102 0_5ft-2ft	LC-102 0ft-0_5ft	LC-103 0ft-0_5ft	LC-103 2ft-4ft	LC-103 4ft-6ft	LC-104 0_5ft-2ft	LC-104 0ft-0_5ft	LC-105 0ft-0_5ft	LC-105 2ft-4ft	LC-105 4ft-6ft	LC-106 0_5ft-2ft
Date Sampled			03/26/2015	03/26/2015	03/26/2015	03/26/2015	03/26/2015	03/26/2015	03/26/2015	03/26/2015	03/26/2015	03/26/2015	03/26/2015
Depth (ft)			0.5-2	0-0.5	0-0.5	2-4	4-6	0.5-2	0-0.5	0-0.5	2-4	4-6	0.5-2
Type			Shallow	Shallow	Shallow	Deep	Deep	Shallow	Shallow	Shallow	Deep	Deep	Shallow
Group	ERLs	ERMs	LC	LC	LC	LC	LC	LC	LC	LC	LC	LC	LC
Analyte													
Polycyclic Aromatic Hydrocarbons (PAHs)													
2-Methylnaphthalene	0.07 a	0.67 a	**0.126**	**0.127**	0.049	<0.017	<0.017	**0.447**	0.041	0.046	<0.028	<0.016	**0.08**
Acenaphthene	0.016 a	0.5 a	**0.074**	**0.108**	**0.054**	<0.017	<0.017	**1.56**	**0.058**	**0.07**	<0.028	<0.016	**0.072**
Acenaphthylene	0.044 a	0.64 a	**0.41**	**0.341**	**0.221**	<0.017	<0.017	**1.04**	**0.176**	**0.296**	**0.15**	0.04	**0.33**
Anthracene	0.085 a	1.1 a	**0.363**	**0.511**	**0.27**	<0.017	<0.017	**6.84**	**0.242**	**0.379**	**0.137**	0.039	**0.343**
Benzo(a)anthracene	0.261 a	1.6 a	**0.619**	**1.21**	**0.726**	<0.017	<0.017	**11.8**	**0.713**	**1.07**	0.181	0.046	**0.624**
Benzo(a)pyrene	0.43 a	1.6 a	**0.677**	**1.51**	**0.92**	<0.017	<0.017	**11.5**	**0.884**	**1.45**	0.244	0.052	**0.924**
Benzo(b)fluoranthene	NA	1.8 b	0.955	2.53	1.29	<0.017	<0.017	13.7	1.27	2.3	0.328	0.054	1.53
Benzo(g,h,i)perylene	NA	NA	0.37	0.706	0.759	<0.017	<0.017	7.45	0.617	1.08	0.178	0.028	0.416
Benzo(k)fluoranthene	NA	NA	0.287	0.694	0.326	<0.017	<0.017	1.61	0.308	0.49	0.093	0.019	0.445
Chrysene	0.384 a	2.8 a	**0.672**	**1.57**	**0.87**	<0.017	<0.017	**11.4**	**0.924**	**1.48**	0.232	0.04	**0.778**
Dibenzo(a,h)Anthracene	0.063 a	0.26 a	**0.115**	**0.232**	**0.185**	<0.017	<0.017	**1.74**	**0.168**	**0.296**	0.053	<0.016	**0.134**
Fluoranthene	0.6 a	5.1 a	**1.19**	**2.33**	**1.38**	<0.017	<0.017	**33.8**	**1.52**	**2.28**	0.369	0.132	**1.22**
Fluorene	0.019 a	0.54 a	**0.127**	**0.181**	**0.084**	<0.017	<0.017	**2.87**	**0.082**	**0.106**	**0.03**	**0.025**	**0.108**
Hexachlorobenzene	NA	NA	<0.037	<0.038	<0.028	<0.017	<0.017	<0.020	<0.034	<0.037	<0.028	<0.016	<0.033
Indeno(1,2,3-cd)Pyrene	NA	NA	0.41	0.888	0.824	<0.017	<0.017	8.75	0.699	1.24	0.184	0.029	0.55
Naphthalene	0.16 a	2.1 a	**0.58**	**0.544**	**0.248**	<0.017	<0.017	**1.3**	**0.212**	**0.223**	**0.176**	0.032	**0.49**
Phenanthrene	0.24 a	1.5 a	**0.481**	**1.16**	**0.609**	<0.017	<0.017	**28.3**	**0.718**	**0.953**	0.08	0.113	**0.594**
Pyrene	0.665 a	2.6 a	**1.6**	**2.45**	**1.51**	0.023	<0.017	**29.8**	**1.45**	**2.33**	0.481	0.136	**1.36**
Total PAHs	4.022 a	44.792 a	**9.056**	**17.092**	**10.325**	0.023	<0.017	**173.907**	**10.082**	**16.089**	2.916	0.785	**9.998**
Extractable Petroleum Hyrdocarbons													
C11-C22 Aromatics1,2	NA	NA	434	40.8	53	-	-	-	47.7	45.3	-	<16.2	93.7
C11-C22 Unadjusted Aromatics1	NA	NA	434	43	58.9	-	-	-	51.1	49.1	-	<16.2	99.9
C19-C36 Aliphatics1	NA	NA	266	99.4	90.7	-	-	-	105	109	-	<16.2	192
C9-C18 Aliphatics1	NA	NA	145	<37.3	<27.8	-	-	-	<34.3	<37.0	-	<16.2	36.2
Total EPH	NA	NA	845	140.2	143.7	-	-	-	152.7	154.3	-	<16.2	321.9

Table 3D
SEDIMENT POLYCYCLIC AROMATIC HYDROCARBONS AND EXTRACTABLE PETROLEUM HYDROCARBON RESULTS

Wynn Resort Casino
Everett, Massachusetts

Sample ID	Marine Sediment Benchmarks		LC-106 0ft-0_5ft	LC-106 4ft-6ft	LC-107 0ft-0_5ft	LC-107 2ft-4ft	LC-108 0_5ft-2ft	LC-108 0ft-0_5ft	LC-108 4ft-6ft	LC-109 0ft-0_5ft	LC-109 4ft-6ft	LC-110 0ft-0_5ft	LC-110 2ft-4ft
Date Sampled			03/26/2015	03/26/2015	03/26/2015	03/26/2015	03/26/2015	03/26/2015	03/26/2015	03/26/2015	03/26/2015	03/27/2015	03/27/2015
Depth (ft)			0-0.5	4-6	0-0.5	2-4	0.5-2	0-0.5	4-6	0-0.5	4-6	0-0.5	2-4
Type			Shallow	Deep	Shallow	Deep	Shallow	Shallow	Deep	Shallow	Deep	Shallow	Deep
Group	ERLs	ERMs	LC	LC	LC	LC	LC	LC	LC	LC	LC	LC	LC
Analyte													
Polycyclic Aromatic Hydrocarbons (PAHs)													
2-Methylnaphthalene	0.07 a	0.67 a	0.046	**0.805**	0.05	**0.758**	0.044	0.056	**0.344**	**0.074**	**3.48**	**0.084**	**0.232**
Acenaphthene	0.016 a	0.5 a	**0.055**	**0.728**	**0.092**	**2.27**	**0.054**	**0.08**	**2.31**	**0.094**	**27**	**0.147**	**0.175**
Acenaphthylene	0.044 a	0.64 a	**0.198**	**0.8**	**0.268**	**0.488**	**0.264**	**0.31**	**1.8**	**0.417**	**101**	**0.429**	**1.15**
Anthracene	0.085 a	1.1 a	**0.292**	**1.3**	**0.419**	**5.61**	**0.257**	**0.349**	**4.6**	**0.423**	**177**	**0.574**	**1.16**
Benzo(a)anthracene	0.261 a	1.6 a	**0.62**	**1.15**	**1.26**	**10.8**	**0.469**	**0.877**	**4.25**	**1.01**	**129**	**1.4**	**3.32**
Benzo(a)pyrene	0.43 a	1.6 a	**0.888**	**0.99**	**1.64**	**7.84**	**0.579**	**1.2**	**4.54**	**1.36**	**130**	**1.72**	**3.86**
Benzo(b)fluoranthene	NA	1.8 b	1.37	1.37	2.9	10.6	0.79	1.71	5.31	2.1	147	2.27	4.17
Benzo(g,h,i)perylene	NA	NA	0.38	0.337	0.845	4.33	0.312	0.691	3.59	0.85	87.8	1.07	1.34
Benzo(k)fluoranthene	NA	NA	0.489	0.482	0.751	3.73	0.323	0.596	1.67	0.472	40.1	0.668	0.807
Chrysene	0.384 a	2.8 a	**0.893**	**1.25**	**1.72**	**10.8**	**0.467**	**1.19**	**4.21**	**1.27**	**104**	**1.54**	**3.56**
Dibenzo(a,h)Anthracene	0.063 a	0.26 a	**0.116**	**0.122**	**0.26**	**1.23**	**0.097**	**0.217**	**0.688**	**0.248**	**23**	**0.31**	**0.521**
Fluoranthene	0.6 a	5.1 a	**1.64**	**2.19**	**3.21**	**31.9**	**0.772**	**1.84**	**13.5**	**2.18**	**411**	**2.52**	**5.75**
Fluorene	0.019 a	0.54 a	**0.082**	**0.248**	**0.126**	**2.97**	**0.082**	**0.118**	**1.86**	**0.165**	**80.1**	**0.194**	**0.3**
Hexachlorobenzene	NA	NA	<0.039	<0.026	<0.040	<0.025	<0.030	<0.015	<0.037	<0.036	<0.043	<0.030	<0.018
Indeno(1,2,3-cd)Pyrene	NA	NA	0.473	0.402	1.05	5.51	0.372	0.812	3.65	0.99	93.9	1.32	1.68
Naphthalene	0.16 a	2.1 a	**0.234**	**4.9**	**0.205**	**1.32**	**0.168**	**0.281**	**3.34**	**0.372**	**20.7**	**0.537**	**0.543**
Phenanthrene	0.24 a	1.5 a	**0.634**	**2.27**	**1.15**	**24.9**	**0.448**	**0.878**	**8.35**	**1.14**	**415**	**1.3**	**1.51**
Pyrene	0.665 a	2.6 a	**1.29**	**2.52**	**2.74**	**23.8**	**1.14**	**1.89**	**11.5**	**2.21**	**322**	**2.68**	**6.26**
Total PAHs	4.022 a	44.792 a	**9.7**	**21.864**	**18.686**	**148.856**	**6.638**	**13.095**	**75.512**	**15.375**	**2312.08**	**18.763**	**36.338**
Extractable Petroleum Hyrdocarbons													
C11-C22 Aromatics1,2	NA	NA	45.1	-	149	631	-	66.5	371	103	-	137	-
C11-C22 Unadjusted Aromatics1	NA	NA	47.3	-	163	638	-	72	496	121	-	152	-
C19-C36 Aliphatics1	NA	NA	132	-	277	474	-	138	275	163	-	179	-
C9-C18 Aliphatics1	NA	NA	<39.4	-	<41.0	293	-	<38.7	139	<36.1	-	34.9	-
Total EPH	NA	NA	177.1	-	426	1398	-	204.5	785	266	-	350.9	-

Table 3D
SEDIMENT POLYCYCLIC AROMATIC HYDROCARBONS AND EXTRACTABLE PETROLEUM HYDROCARBON RESULTS

Wynn Resort Casino
Everett, Massachusetts

Sample ID	Marine Sediment Benchmarks				LC-111 0_5ft-2ft	LC-111 0ft-0_5ft	LC-111 4ft-6ft	LC-112 0ft-0_5ft	LC-112 4ft-6ft
Date Sampled					03/27/2015	03/27/2015	03/27/2015	03/27/2015	03/27/2015
Depth (ft)					0.5-2	0-0.5	4-6	0-0.5	4-6
Type					Shallow	Shallow	Deep	Shallow	Deep
Group	ERLs		ERMs		LC	LC	LC	LC	LC
Analyte									
Polycyclic Aromatic Hydrocarbons (PAHs)									
2-Methylnaphthalene	0.07	a	0.67	a	**0.277**	**0.106**	<0.021	**0.19**	<0.016
Acenaphthene	0.016	a	0.5	a	**0.084**	**0.122**	<0.021	**0.104**	<0.016
Acenaphthylene	0.044	a	0.64	a	**1.02**	**0.452**	<0.021	**0.484**	0.032
Anthracene	0.085	a	1.1	a	**0.854**	**0.567**	<0.021	**0.556**	**0.095**
Benzo(a)anthracene	0.261	a	1.6	a	**1.63**	**1.34**	0.028	**1.25**	0.187
Benzo(a)pyrene	0.43	a	1.6	a	**1.96**	**1.82**	0.034	**1.76**	0.182
Benzo(b)fluoranthene	NA		1.8	b	2.6	2.45	0.043	2.43	0.188
Benzo(g,h,i)perylene	NA		NA		0.84	0.961	0.022	0.776	0.096
Benzo(k)fluoranthene	NA		NA		0.71	0.808	<0.021	0.968	0.061
Chrysene	0.384	a	2.8	a	**1.56**	**1.54**	0.031	**1.43**	0.175
Dibenzo(a,h)Anthracene	0.063	a	0.26	a	**0.348**	**0.294**	<0.021	**0.251**	0.023
Fluoranthene	0.6	a	5.1	a	**1.8**	**2.65**	0.051	**2.27**	0.363
Fluorene	0.019	a	0.54	a	**0.214**	**0.172**	<0.021	**0.171**	**0.023**
Hexachlorobenzene	NA		NA		<0.028	<0.032	<0.021	<0.030	<0.016
Indeno(1,2,3-cd)Pyrene	NA		NA		1.07	1.23	0.024	0.998	0.113
Naphthalene	0.16	a	2.1	a	**2.24**	**0.7**	<0.021	**0.908**	0.026
Phenanthrene	0.24	a	1.5	a	**0.759**	**1.23**	<0.021	**1.09**	0.194
Pyrene	0.665	a	2.6	a	**4.35**	**2.6**	0.07	**2.36**	0.38
Total PAHs	4.022	a	44.792	a	**22.316**	**19.042**	0.303	**17.996**	2.138
Extractable Petroleum Hyrdocarbons									
C11-C22 Aromatics1,2	NA		NA		-	139	-	45.9	<16.1
C11-C22 Unadjusted Aromatics1	NA		NA		-	175	-	50.3	<16.1
C19-C36 Aliphatics1	NA		NA		-	137	-	52.9	<16.1
C9-C18 Aliphatics1	NA		NA		-	<32.0	-	<31.0	<16.1
Total EPH	NA		NA		-	276	-	98.8	<16.1

Wynn Resort Casino
Everett, Massachusetts

Notes:

1. Results are presented in mg/kg unless otherwise noted.
2. "<" indicates that an analyte was tested for but not detected above the Method Reporting Limit (MRL). "-" indicates that an analyte was not tested for. NA indicates that a benchmark value is not available.
3. Samples are designated as "Shallow" if any portion of the sample depth occurs within the uppermost 2 feet of sediment. All other samples are designated as "Deep."
4. Group designations are as follows: ON = On-Site, OFF-W = Off-Site West, OFF-E = Off-Site East, and LC = Local Conditions.
5. Marine sediment benchmarks are from the following sources:
    a. Effects Range - Low (ERL) and Effects Range - Median (ERM) Marine Sediment screening values from Long, et al., 1995.
    b. ERL and ERM equivalent Marine Sediment benchmark values from http://epa.gov/region5/waste/cars/pdfs/ecological-screening-levels-200308.pdf
6. Bolded values exceed the conservative ERL screening value.
7. Shaded values exceed the ERM benchmark value.
8. The LC-# series of samples are Local Conditions samples

Table 3E
SEDIMENT VOLATILE ORGANIC COMPOUNDS RESULTS

Wynn Resort Casino
Everett, Massachusetts

Sample ID	Marine Sediment Benchmarks		GZ-201 0ft-3ft	GZ-203 0ft-3ft	GZ-205 0ft-3ft	GZ-206 0ft-3ft	GZ-207 0ft-3ft	GZ-211 0ft-3ft	GZ-213 0ft-3ft	GZ-215 0ft-3ft	GZ-217 0ft-3ft	GZ-219 0ft-3ft	GZ-221 0ft-3ft	GZ-223 0ft-3ft	GZ-225 0ft-3ft
Date Sampled				03/24/2015	3/25/2015	3/25/2015	3/25/2015	3/30/2015	3/25/2015		03/24/2015	3/25/2015	3/30/2015	3/30/2015	03/27/2015
Depth (ft)			0-3	0-3	0-3	0-3	0-3	0-3	0-3	0-3	0-3	0-3	0-3	0-3	0-3
Type			Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow
Group	ERLs	ERMs	OFF-E	OFF-E	OFF-E	ON	ON	OFF-E	ON	ON	ON	ON	ON	ON	ON
Analyte															
Volatile Organic Compounds (Low Level)															
1,1,1,2-Tetrachloroethane	NA	NA	<0.0054	<0.0063	<0.0158	<0.0143	<0.0163	<0.0056	<0.0021	<0.0017	<0.0028	<0.0059	<0.0047	<0.0066	<0.0062
1,1,1-Trichloroethane	NA	NA	<0.0054	<0.0063	<0.0158	<0.0143	<0.0163	<0.0056	<0.0021	<0.0017	<0.0028	<0.0059	<0.0047	<0.0066	<0.0062
1,1,2,2-Tetrachloroethane	NA	NA	<0.0022	<0.0025	<0.0063	<0.0057	<0.0065	<0.0023	<0.0008	<0.0007	<0.0011	<0.0023	<0.0019	<0.0026	<0.0025
1,1,2-Trichloroethane	NA	NA	<0.0054	<0.0063	<0.0158	<0.0143	<0.0163	<0.0056	<0.0021	<0.0017	<0.0028	<0.0059	<0.0047	<0.0066	<0.0062
1,1-Dichloroethane	NA	NA	<0.0054	<0.0063	<0.0158	<0.0143	<0.0163	<0.0056	<0.0021	<0.0017	<0.0028	<0.0059	<0.0047	<0.0066	<0.0062
1,1-Dichloroethene	NA	NA	<0.0054	<0.0063	<0.0158	<0.0143	<0.0163	<0.0056	<0.0021	<0.0017	<0.0028	<0.0059	<0.0047	<0.0066	<0.0062
1,1-Dichloropropene	NA	NA	<0.0054	<0.0063	<0.0158	<0.0143	<0.0163	<0.0056	<0.0021	<0.0017	<0.0028	<0.0059	<0.0047	<0.0066	<0.0062
1,2,3-Trichlorobenzene	NA	NA	<0.0054	<0.0063	<0.0158	<0.0143	<0.0163	<0.0056	<0.0021	<0.0017	<0.0028	<0.0059	<0.0047	<0.0066	<0.0062
1,2,3-Trichloropropane	NA	NA	<0.0054	<0.0063	<0.0158	<0.0143	<0.0163	<0.0056	<0.0021	<0.0017	<0.0028	<0.0059	<0.0047	<0.0066	<0.0062
1,2,4-Trichlorobenzene	NA	NA	<0.0054	<0.0063	<0.0158	<0.0143	<0.0163	<0.0056	<0.0021	<0.0017	<0.0028	<0.0059	<0.0047	<0.0066	<0.0062
1,2,4-Trimethylbenzene	NA	NA	<0.0054	0.0382	<0.0158	0.0716	<0.0163	<0.0056	<0.0021	<0.0017	<0.0028	<0.0059	<0.0047	<0.0066	<0.0062
1,2-Dibromo-3-Chloropropane	NA	NA	<0.0054	<0.0063	<0.0158	<0.0143	<0.0163	<0.0056	<0.0021	<0.0017	<0.0028	<0.0059	<0.0047	<0.0066	<0.0062
1,2-Dibromoethane	NA	NA	<0.0054	<0.0063	<0.0158	<0.0143	<0.0163	<0.0056	<0.0021	<0.0017	<0.0028	<0.0059	<0.0047	<0.0066	<0.0062
1,2-Dichlorobenzene	NA	0.013 b	<0.0054	<0.0063	<0.0158	<0.0143	<0.0163	<0.0056	<0.0021	<0.0017	<0.0028	<0.0059	<0.0047	<0.0066	<0.0062
1,2-Dichloroethane	NA	NA	<0.0054	<0.0063	<0.0158	<0.0143	<0.0163	<0.0056	<0.0021	<0.0017	<0.0028	<0.0059	<0.0047	<0.0066	<0.0062
1,2-Dichloropropane	NA	NA	<0.0054	<0.0063	<0.0158	<0.0143	<0.0163	<0.0056	<0.0021	<0.0017	<0.0028	<0.0059	<0.0047	<0.0066	<0.0062
1,3,5-Trimethylbenzene	NA	NA	<0.0054	0.0234	<0.0158	0.0448	<0.0163	<0.0056	<0.0021	<0.0017	<0.0028	<0.0059	<0.0047	<0.0066	<0.0062
1,3-Dichlorobenzene	NA	NA	<0.0054	<0.0063	<0.0158	<0.0143	<0.0163	<0.0056	<0.0021	<0.0017	<0.0028	<0.0059	<0.0047	<0.0066	<0.0062
1,3-Dichloropropane	NA	NA	<0.0054	<0.0063	<0.0158	<0.0143	<0.0163	<0.0056	<0.0021	<0.0017	<0.0028	<0.0059	<0.0047	<0.0066	<0.0062
1,4-Dichlorobenzene	NA	0.11 a	<0.0054	<0.0063	<0.0158	<0.0143	<0.0163	<0.0056	<0.0021	<0.0017	<0.0028	<0.0059	<0.0047	<0.0066	<0.0062
1,4-Dioxane	NA	NA	<0.109	<0.127	<0.316	<0.285	<0.326	<0.113	<0.0412	<0.0348	<0.0569	<0.117	<0.0939	<0.132	<0.124
2,2-Dichloropropane	NA	NA	<0.0054	<0.0063	<0.0158	<0.0143	<0.0163	<0.0056	<0.0021	<0.0017	<0.0028	<0.0059	<0.0047	<0.0066	<0.0062
2-Butanone	NA	NA	<0.0109	0.205	0.0433	0.316	0.0436	<0.0113	0.0068	<0.0035	0.0119	<0.0117	0.0095	<0.0132	<0.0124
2-Chlorotoluene	NA	NA	0.074	2.12	0.079	3.35	0.0237	<0.0056	<0.0021	<0.0017	<0.0028	<0.0059	<0.0047	<0.0066	<0.0062
2-Hexanone	NA	NA	<0.0109	<0.0127	<0.0316	<0.0285	<0.0326	<0.0113	<0.0041	<0.0035	<0.0057	<0.0117	<0.0094	<0.0132	<0.0124
4-Chlorotoluene	NA	NA	<0.0054	0.825	<0.0158	1.89	<0.0163	<0.0056	<0.0021	<0.0017	<0.0028	<0.0059	<0.0047	<0.0066	<0.0062
4-Isopropyltoluene	NA	NA	<0.0054	<0.0063	<0.0158	<0.0143	<0.0163	<0.0056	<0.0021	<0.0017	<0.0028	<0.0059	<0.0047	<0.0066	<0.0062
4-Methyl-2-Pentanone	NA	NA	<0.0109	0.0163	<0.0316	<0.0285	<0.0326	<0.0113	<0.0041	<0.0035	<0.0057	<0.0117	<0.0094	<0.0132	<0.0124
Acetone	NA	NA	<0.0109	1.18	0.278	1.75	0.317	0.0206	0.0504	0.0171	0.0898	<0.0117	0.0742	0.0716	0.0617
Benzene	0.34 b	NA	<0.0054	0.0366	<0.0158	0.0469	<0.0163	<0.0056	<0.0021	<0.0017	<0.0028	<0.0059	<0.0047	<0.0066	<0.0062
Bromobenzene	NA	NA	<0.0054	<0.0063	<0.0158	<0.0143	<0.0163	<0.0056	<0.0021	<0.0017	<0.0028	<0.0059	<0.0047	<0.0066	<0.0062
Bromochloromethane	NA	NA	<0.0054	<0.0063	<0.0158	<0.0143	<0.0163	<0.0056	<0.0021	<0.0017	<0.0028	<0.0059	<0.0047	<0.0066	<0.0062
Bromodichloromethane	NA	NA	<0.0054	<0.0063	<0.0158	<0.0143	<0.0163	<0.0056	<0.0021	<0.0017	<0.0028	<0.0059	<0.0047	<0.0066	<0.0062
Bromoform	NA	NA	<0.0054	<0.0063	<0.0158	<0.0143	<0.0163	<0.0056	<0.0021	<0.0017	<0.0028	<0.0059	<0.0047	<0.0066	<0.0062
Bromomethane	NA	NA	<0.0109	<0.0127	<0.0316	<0.0285	<0.0326	<0.0113	<0.0041	<0.0035	<0.0057	<0.0117	<0.0094	<0.0132	<0.0124
Carbon Disulfide	NA	NA	<0.0054	0.0294	0.024	0.0422	0.0334	0.0103	0.0045	0.0066	0.006	0.0078	0.0083	0.0066	0.0142
Carbon Tetrachloride	NA	NA	<0.0054	<0.0063	<0.0158	<0.0143	<0.0163	<0.0056	<0.0021	<0.0017	<0.0028	<0.0059	<0.0047	<0.0066	<0.0062
Chlorobenzene	NA	NA	<0.0054	0.0324	<0.0158	0.0641	<0.0163	<0.0056	<0.0021	<0.0017	<0.0028	<0.0059	<0.0047	<0.0066	<0.0062
Chloroethane	NA	NA	<0.0109	<0.0127	<0.0316	<0.0285	<0.0326	<0.0113	<0.0041	<0.0035	<0.0057	<0.0117	<0.0094	<0.0132	<0.0124
Chloroform	NA	NA	<0.0054	<0.0063	<0.0158	<0.0143	<0.0163	<0.0056	<0.0021	<0.0017	<0.0028	<0.0059	<0.0047	<0.0066	<0.0062
Chloromethane	NA	NA	<0.0109	<0.0127	<0.0316	<0.0285	<0.0326	<0.0113	<0.0041	<0.0035	<0.0057	<0.0117	<0.0094	<0.0132	<0.0124
cis-1,2-Dichloroethene	NA	NA	<0.0054	<0.0063	<0.0158	<0.0143	<0.0163	<0.0056	<0.0021	<0.0017	<0.0028	<0.0059	<0.0047	<0.0066	<0.0062
cis-1,3-Dichloropropene	NA	NA	<0.0054	<0.0063	<0.0158	<0.0143	<0.0163	<0.0056	<0.0021	<0.0017	<0.0028	<0.0059	<0.0047	<0.0066	<0.0062
Dibromochloromethane	NA	NA	<0.0022	<0.0025	<0.0063	<0.0057	<0.0065	<0.0023	<0.0008	<0.0007	<0.0011	<0.0023	<0.0019	<0.0026	<0.0025
Dibromomethane	NA	NA	<0.0054	<0.0063	<0.0158	<0.0143	<0.0163	<0.0056	<0.0021	<0.0017	<0.0028	<0.0059	<0.0047	<0.0066	<0.0062
Dichlorodifluoromethane	NA	NA	<0.0109	<0.0127	<0.0316	<0.0285	<0.0326	<0.0113	<0.0041	<0.0035	<0.0057	<0.0117	<0.0094	<0.0132	<0.0124
Diethyl Ether	NA	NA	<0.0054	0.0102	<0.0158	<0.0143	<0.0163	<0.0056	<0.0021	<0.0017	<0.0028	<0.0059	<0.0047	<0.0066	<0.0062
Di-isopropyl ether	NA	NA	<0.0054	<0.0063	<0.0158	<0.0143	<0.0163	<0.0056	<0.0021	<0.0017	<0.0028	<0.0059	<0.0047	<0.0066	<0.0062
Ethyl tertiary-butyl ether	NA	NA	<0.0054	<0.0063	<0.0158	<0.0143	<0.0163	<0.0056	<0.0021	<0.0017	<0.0028	<0.0059	<0.0047	<0.0066	<0.0062
Ethylbenzene	1.4 b	NA	<0.0054	0.18	<0.0158	0.398	<0.0163	<0.0056	<0.0021	<0.0017	<0.0028	<0.0059	<0.0047	<0.0066	<0.0062
Hexachlorobutadiene	NA	NA	<0.0054	<0.0063	<0.0158	<0.0143	<0.0163	<0.0056	<0.0021	<0.0017	<0.0028	<0.0059	<0.0047	<0.0066	<0.0062

Sample ID	Marine Sediment Benchmarks		GZ-201 0ft-3ft	GZ-203 0ft-3ft	GZ-205 0ft-3ft	GZ-206 0ft-3ft	GZ-207 0ft-3ft	GZ-211 0ft-3ft	GZ-213 0ft-3ft	GZ-215 0ft-3ft	GZ-217 0ft-3ft	GZ-219 0ft-3ft	GZ-221 0ft-3ft	GZ-223 0ft-3ft	GZ-225 0ft-3ft
Date Sampled				03/24/2015	3/25/2015	3/25/2015	3/25/2015	3/30/2015	3/25/2015		03/24/2015	3/25/2015	3/30/2015	3/30/2015	03/27/2015
Depth (ft)			0-3	0-3	0-3	0-3	0-3	0-3	0-3	0-3	0-3	0-3	0-3	0-3	0-3
Type			Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow
Group	ERLs	ERMs	OFF-E	OFF-E	OFF-E	ON	ON	OFF-E	ON	ON	ON	ON	ON	ON	ON
Analyte															
Isopropylbenzene	NA	NA	<0.0054	0.0088	<0.0158	0.0155	<0.0163	<0.0056	<0.0021	<0.0017	<0.0028	<0.0059	<0.0047	<0.0066	<0.0062
Methyl tert-Butyl Ether	NA	NA	<0.0054	<0.0063	<0.0158	<0.0143	<0.0163	<0.0056	<0.0021	<0.0017	<0.0028	<0.0059	<0.0047	<0.0066	<0.0062
Methylene Chloride	NA	NA	<0.0109	<0.0127	<0.0316	<0.0285	<0.0326	<0.0113	<0.0041	<0.0035	<0.0057	<0.0117	<0.0094	<0.0132	<0.0124
Naphthalene	0.16 a	2.1 a	0.0105	**0.761**	<0.0158	**0.994**	0.0216	<0.0056	<0.0021	<0.0017	<0.0028	<0.0059	<0.0047	<0.0066	<0.0062
n-Butylbenzene	NA	NA	<0.0054	<0.0063	<0.0158	<0.0143	<0.0163	<0.0056	<0.0021	<0.0017	<0.0028	<0.0059	<0.0047	<0.0066	<0.0062
n-Propylbenzene	NA	NA	<0.0054	<0.0063	<0.0158	<0.0143	<0.0163	<0.0056	<0.0021	<0.0017	<0.0028	<0.0059	<0.0047	<0.0066	<0.0062
sec-Butylbenzene	NA	NA	<0.0054	0.0069	<0.0158	0.0161	<0.0163	<0.0056	<0.0021	<0.0017	<0.0028	<0.0059	<0.0047	<0.0066	<0.0062
Styrene	NA	NA	<0.0054	<0.0063	<0.0158	<0.0143	<0.0163	<0.0056	<0.0021	<0.0017	<0.0028	<0.0059	<0.0047	<0.0066	<0.0062
tert-Butylbenzene	NA	NA	<0.0054	<0.0063	<0.0158	<0.0143	<0.0163	<0.0056	<0.0021	<0.0017	<0.0028	<0.0059	<0.0047	<0.0066	<0.0062
Tertiary-amyl methyl ether	NA	NA	<0.0054	<0.0063	<0.0158	<0.0143	<0.0163	<0.0056	<0.0021	<0.0017	<0.0028	<0.0059	<0.0047	<0.0066	<0.0062
Tetrachloroethene	0.45 b	NA	<0.0054	<0.0063	<0.0158	<0.0143	<0.0163	<0.0056	<0.0021	<0.0017	<0.0028	<0.0059	<0.0047	<0.0066	<0.0062
Tetrahydrofuran	NA	NA	<0.0054	<0.0063	<0.0158	<0.0143	<0.0163	<0.0056	<0.0021	<0.0017	<0.0028	<0.0059	<0.0047	<0.0066	<0.0062
Toluene	2.5 b	NA	<0.0054	0.0423	<0.0158	0.1	<0.0163	<0.0056	<0.0021	<0.0017	<0.0028	<0.0059	<0.0047	<0.0066	<0.0062
trans-1,2-Dichloroethene	NA	NA	<0.0054	<0.0063	<0.0158	<0.0143	<0.0163	<0.0056	<0.0021	<0.0017	<0.0028	<0.0059	<0.0047	<0.0066	<0.0062
trans-1,3-Dichloropropene	NA	NA	<0.0054	<0.0063	<0.0158	<0.0143	<0.0163	<0.0056	<0.0021	<0.0017	<0.0028	<0.0059	<0.0047	<0.0066	<0.0062
Trichloroethene	1.6 b	NA	<0.0054	<0.0063	<0.0158	<0.0143	<0.0163	<0.0056	<0.0021	<0.0017	<0.0028	<0.0059	<0.0047	<0.0066	<0.0062
Trichlorofluoromethane	NA	NA	<0.0054	<0.0063	<0.0158	<0.0143	<0.0163	<0.0056	<0.0021	<0.0017	<0.0028	<0.0059	<0.0047	<0.0066	<0.0062
Vinyl Chloride	NA	NA	<0.0109	<0.0127	<0.0316	<0.0285	<0.0326	<0.0113	<0.0041	<0.0035	<0.0057	<0.0117	<0.0094	<0.0132	<0.0124
Xylene O	NA	NA	<0.0054	0.0501	<0.0158	0.102	<0.0163	<0.0056	<0.0021	<0.0017	<0.0028	<0.0059	<0.0047	<0.0066	<0.0062
Xylene P,M	NA	NA	<0.0109	0.0758	<0.0316	0.143	<0.0326	<0.0113	<0.0041	<0.0035	<0.0057	<0.0117	<0.0094	<0.0132	<0.0124
Xylenes (Total)	NA	NA	<0.0109	0.126	<0.0316	0.245	<0.0326	<0.0113	<0.0041	<0.0035	<0.0057	<0.0117	<0.0094	<0.0132	<0.0124

Sample ID	Marine Sediment Benchmarks		GZ-201 0ft-3ft	GZ-203 0ft-3ft	GZ-205 0ft-3ft	GZ-206 0ft-3ft	GZ-207 0ft-3ft	GZ-211 0ft-3ft	GZ-213 0ft-3ft	GZ-215 0ft-3ft	GZ-217 0ft-3ft	GZ-219 0ft-3ft	GZ-221 0ft-3ft	GZ-223 0ft-3ft	GZ-225 0ft-3ft
Date Sampled				03/24/2015	3/25/2015	3/25/2015	3/25/2015	3/30/2015	3/25/2015		03/24/2015	3/25/2015	3/30/2015	3/30/2015	03/27/2015
Depth (ft)			0-3	0-3	0-3	0-3	0-3	0-3	0-3	0-3	0-3	0-3	0-3	0-3	0-3
Type			Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow
Group	ERLs	ERMs	OFF-E	OFF-E	OFF-E	ON	ON	OFF-E	ON	ON	ON	ON	ON	ON	ON
Analyte															
Volatile Organic Compounds (Methanol)															
1,1,1,2-Tetrachloroethane	NA	NA	<0.392	<0.403	-	<0.497	-	-	-	-	<0.201	-	-	-	-
1,1,1-Trichloroethane	NA	NA	<0.196	<0.202	-	<0.248	-	-	-	-	<0.100	-	-	-	-
1,1,2,2-Tetrachloroethane	NA	NA	<0.196	<0.202	-	<0.248	-	-	-	-	<0.100	-	-	-	-
1,1,2-Trichloroethane	NA	NA	<0.196	<0.202	-	<0.248	-	-	-	-	<0.100	-	-	-	-
1,1-Dichloroethane	NA	NA	<0.196	<0.202	-	<0.248	-	-	-	-	<0.100	-	-	-	-
1,1-Dichloroethene	NA	NA	<0.196	<0.202	-	<0.248	-	-	-	-	<0.100	-	-	-	-
1,1-Dichloropropene	NA	NA	<0.196	<0.202	-	<0.248	-	-	-	-	<0.100	-	-	-	-
1,2,3-Trichlorobenzene	NA	NA	<0.196	<0.202	-	<0.248	-	-	-	-	<0.100	-	-	-	-
1,2,3-Trichloropropane	NA	NA	<0.196	<0.202	-	<0.248	-	-	-	-	<0.100	-	-	-	-
1,2,4-Trichlorobenzene	NA	NA	<0.196	<0.202	-	<0.248	-	-	-	-	<0.100	-	-	-	-
1,2,4-Trimethylbenzene	NA	NA	<0.196	<0.202	-	<0.248	-	-	-	-	<0.100	-	-	-	-
1,2-Dibromo-3-Chloropropane	NA	NA	<0.784	<0.806	-	<0.993	-	-	-	-	<0.402	-	-	-	-
1,2-Dibromoethane	NA	NA	<0.196	<0.202	-	<0.248	-	-	-	-	<0.100	-	-	-	-
1,2-Dichlorobenzene	NA	0.013 b	<0.196	<0.202	-	<0.248	-	-	-	-	<0.100	-	-	-	-
1,2-Dichloroethane	NA	NA	<0.196	<0.202	-	<0.248	-	-	-	-	<0.100	-	-	-	-
1,2-Dichloropropane	NA	NA	<0.196	<0.202	-	<0.248	-	-	-	-	<0.100	-	-	-	-
1,3,5-Trimethylbenzene	NA	NA	<0.196	<0.202	-	<0.248	-	-	-	-	<0.100	-	-	-	-
1,3-Dichlorobenzene	NA	NA	<0.196	<0.202	-	<0.248	-	-	-	-	<0.100	-	-	-	-
1,3-Dichloropropane	NA	NA	<0.196	<0.202	-	<0.248	-	-	-	-	<0.100	-	-	-	-
1,4-Dichlorobenzene	NA	0.11 a	<0.196	<0.202	-	<0.248	-	-	-	-	<0.100	-	-	-	-
1,4-Dioxane - Screen	NA	NA	<19.6	<20.2	-	<24.8	-	-	-	-	<10.0	-	-	-	-
2,2-Dichloropropane	NA	NA	<0.392	<0.403	-	<0.497	-	-	-	-	<0.201	-	-	-	-
2-Butanone	NA	NA	<0.784	<0.806	-	<0.993	-	-	-	-	<0.402	-	-	-	-
2-Chlorotoluene	NA	NA	<0.196	0.552	-	7.56	-	-	-	-	<0.100	-	-	-	-
2-Hexanone	NA	NA	<0.784	<0.806	-	<0.993	-	-	-	-	<0.402	-	-	-	-
4-Chlorotoluene	NA	NA	<0.196	<0.202	-	2.25	-	-	-	-	<0.100	-	-	-	-
4-Isopropyltoluene	NA	NA	<0.196	<0.202	-	<0.248	-	-	-	-	<0.100	-	-	-	-
4-Methyl-2-Pentanone	NA	NA	<0.784	<0.806	-	<0.993	-	-	-	-	<0.402	-	-	-	-
Acetone	NA	NA	<0.784	1.31	-	1.44	-	-	-	-	0.434	-	-	-	-
Benzene	0.34 b	NA	<0.196	<0.202	-	<0.248	-	-	-	-	<0.100	-	-	-	-
Bromobenzene	NA	NA	<0.196	<0.202	-	<0.248	-	-	-	-	<0.100	-	-	-	-
Bromochloromethane	NA	NA	<0.196	<0.202	-	<0.248	-	-	-	-	<0.100	-	-	-	-
Bromodichloromethane	NA	NA	<0.196	<0.202	-	<0.248	-	-	-	-	<0.100	-	-	-	-
Bromoform	NA	NA	<0.196	<0.202	-	<0.248	-	-	-	-	<0.100	-	-	-	-
Bromomethane	NA	NA	<0.392	<0.403	-	<0.497	-	-	-	-	<0.201	-	-	-	-
Carbon Disulfide	NA	NA	<0.196	<0.202	-	<0.248	-	-	-	-	<0.100	-	-	-	-
Carbon Tetrachloride	NA	NA	<0.196	<0.202	-	<0.248	-	-	-	-	<0.100	-	-	-	-
Chlorobenzene	NA	NA	<0.196	<0.202	-	<0.248	-	-	-	-	<0.100	-	-	-	-
Chloroethane	NA	NA	<0.392	<0.403	-	<0.497	-	-	-	-	<0.201	-	-	-	-
Chloroform	NA	NA	<0.196	<0.202	-	<0.248	-	-	-	-	<0.100	-	-	-	-
Chloromethane	NA	NA	<0.392	<0.403	-	<0.497	-	-	-	-	<0.201	-	-	-	-
cis-1,2-Dichloroethene	NA	NA	<0.196	<0.202	-	<0.248	-	-	-	-	<0.100	-	-	-	-
cis-1,3-Dichloropropene	NA	NA	<0.196	<0.202	-	<0.248	-	-	-	-	<0.100	-	-	-	-
Dibromochloromethane	NA	NA	<0.196	<0.202	-	<0.248	-	-	-	-	<0.100	-	-	-	-
Dibromomethane	NA	NA	<0.196	<0.202	-	<0.248	-	-	-	-	<0.100	-	-	-	-
Dichlorodifluoromethane	NA	NA	<0.196	<0.202	-	<0.248	-	-	-	-	<0.100	-	-	-	-
Diethyl Ether	NA	NA	<0.196	<0.202	-	<0.248	-	-	-	-	<0.100	-	-	-	-
Di-isopropyl ether	NA	NA	<0.196	<0.202	-	<0.248	-	-	-	-	<0.100	-	-	-	-
Ethyl tertiary-butyl ether	NA	NA	<0.196	<0.202	-	<0.248	-	-	-	-	<0.100	-	-	-	-
Ethylbenzene	1.4 b	NA	<0.196	<0.202	-	0.447	-	-	-	-	<0.100	-	-	-	-
Hexachlorobutadiene	NA	NA	<0.196	<0.202	-	<0.248	-	-	-	-	<0.100	-	-	-	-

Table 3E
SEDIMENT VOLATILE ORGANIC COMPOUNDS RESULTS

Wynn Resort Casino
Everett, Massachusetts

Sample ID	Marine Sediment Benchmarks		GZ-201 0ft-3ft	GZ-203 0ft-3ft	GZ-205 0ft-3ft	GZ-206 0ft-3ft	GZ-207 0ft-3ft	GZ-211 0ft-3ft	GZ-213 0ft-3ft	GZ-215 0ft-3ft	GZ-217 0ft-3ft	GZ-219 0ft-3ft	GZ-221 0ft-3ft	GZ-223 0ft-3ft	GZ-225 0ft-3ft
Date Sampled				03/24/2015	3/25/2015	3/25/2015	3/25/2015	3/30/2015	3/25/2015		03/24/2015	3/25/2015	3/30/2015	3/30/2015	03/27/2015
Depth (ft)			0-3	0-3	0-3	0-3	0-3	0-3	0-3	0-3	0-3	0-3	0-3	0-3	0-3
Type			Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow
Group	ERLs	ERMs	OFF-E	OFF-E	OFF-E	ON	ON	OFF-E	ON	ON	ON	ON	ON	ON	ON
Analyte															
Isopropylbenzene	NA	NA	<0.196	<0.202	-	<0.248	-	-	-	-	<0.100	-	-	-	-
Methyl tert-Butyl Ether	NA	NA	<0.196	<0.202	-	<0.248	-	-	-	-	<0.100	-	-	-	-
Methylene Chloride	NA	NA	<0.784	<0.806	-	<0.993	-	-	-	-	<0.402	-	-	-	-
Naphthalene	0.16 a	2.1 a	<0.196	**0.637**	-	**4.84**	-	-	-	-	<0.100	-	-	-	-
n-Butylbenzene	NA	NA	<0.196	<0.202	-	<0.248	-	-	-	-	<0.100	-	-	-	-
n-Propylbenzene	NA	NA	<0.196	<0.202	-	<0.248	-	-	-	-	<0.100	-	-	-	-
sec-Butylbenzene	NA	NA	<0.196	<0.202	-	<0.248	-	-	-	-	<0.100	-	-	-	-
Styrene	NA	NA	<0.196	<0.202	-	<0.248	-	-	-	-	<0.100	-	-	-	-
tert-Butylbenzene	NA	NA	<0.196	<0.202	-	<0.248	-	-	-	-	<0.100	-	-	-	-
Tertiary-amyl methyl ether	NA	NA	<0.196	<0.202	-	<0.248	-	-	-	-	<0.100	-	-	-	-
Tetrachloroethene	0.45 b	NA	<0.196	<0.202	-	<0.248	-	-	-	-	<0.100	-	-	-	-
Tetrahydrofuran	NA	NA	<0.784	<0.806	-	<0.993	-	-	-	-	<0.402	-	-	-	-
Toluene	2.5 b	NA	<0.196	<0.202	-	<0.248	-	-	-	-	<0.100	-	-	-	-
trans-1,2-Dichloroethene	NA	NA	<0.196	<0.202	-	<0.248	-	-	-	-	<0.100	-	-	-	-
trans-1,3-Dichloropropene	NA	NA	<0.196	<0.202	-	<0.248	-	-	-	-	<0.100	-	-	-	-
Trichloroethene	1.6 b	NA	<0.196	<0.202	-	<0.248	-	-	-	-	<0.100	-	-	-	-
Trichlorofluoromethane	NA	NA	<0.196	<0.202	-	<0.248	-	-	-	-	<0.100	-	-	-	-
Vinyl Chloride	NA	NA	<0.196	<0.202	-	<0.248	-	-	-	-	<0.100	-	-	-	-
Xylene O	NA	NA	<0.196	<0.202	-	<0.248	-	-	-	-	<0.100	-	-	-	-
Xylene P,M	NA	NA	<0.392	<0.403	-	<0.497	-	-	-	-	<0.201	-	-	-	-
Xylenes (Total)	NA	NA	<0.392	<0.403	-	<0.497	-	-	-	-	<0.201	-	-	-	-

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Wynn Resort Casino
Everett, Massachusetts

Notes:

1. Results are presented in mg/kg unless otherwise noted.
2. "<" indicates that an analyte was tested for but not detected above the Method Reporting Limit (MRL). "-" indicates that an analyte was not tested for. NA indicates that a benchmark value is not available.
3. Samples are designated as "Shallow" if any portion of the sample depth occurs within the uppermost 2 feet of sediment. All other samples are designated as "Deep."
4. Group designations are as follows: ON = On-Site, OFF-W = Off-Site West, OFF-E = Off-Site East, and LC = Local Conditions.
5. Marine sediment benchmarks are from the following sources:
    a. Effects Range - Low (ERL) and Effects Range - Median (ERM) Marine Sediment screening values from Long, et al., 1995.
    b. ERL and ERM equivalent Marine Sediment benchmark values from http://epa.gov/region5/waste/cars/pdfs/ecological-screening-levels-200308.pdf
6. Bolded values exceed the conservative ERL screening value.
7. Shaded values exceed the ERM benchmark value.
8. The LC-# series of samples are Local Conditions samples

Table 4A
2013 TOXICITY TEST RESULTS
Leptocheirus plumulosus 28-day Exposures

Wynn Resort Casino
Everett, Massachusetts

Sample ID	Percent Survival	Biomass (mg)	Reproduction (offspring)	Signficant Difference From Lab Control:			Arsenic	Lead	Mercury
				Survival	Biomass	Reproduction	(mg/kg)		
GZ-104T 0-0_5ft	54	0.3262	0.679		*	*	182	1070	2.51
GZ-114T 0-0_5ft	64	0.355	0.853		*	*	41.4	288	1.15
GZ-116T 0-0_5ft	86	0.8829	1.296			*	75.7	116	0.484
GZ-126T 0-0_5ft	84	0.3373	0		*	*	24.5	140	0.506
GZ-135T 0-0_5ft	94	0.8751	1.56			*	7.4	29.3	0.099
GZ-137T 0-0_5ft	82	0.4499	0.3		*	*	17.9	133	0.777
Laboratory Control	91	1.393	4.194				--	--	--

Notes:

1. Endpoint values (percent survival, biomass, and reproduction) are averages among five replicates run for each sample.
2. Biomass is average mg/individual at test initiation (dry weight of surviving amphipods/20).
3. Reproduction is average number of offspring per surviving adult amphipod.
4. * indicates that there was a statistally significant difference at the 95% confidence level between the water-side samples and the local conditions reference sample for the toxicity test endpoint.

Table 4B
2015 TOXICITY TEST RESULTS
Leptocheirus plumulosus 28-day Exposures

Wynn Resort Casino
Everett, Massachusetts

Sample ID	Percent Survival	Biomass (mg)	Reproduction (offspring)	Signficant Difference From Local Conditions Reference Sample:									Arsenic	Lead (mg/kg)	Mercury
				Survival			Biomass			Reproduction					
				LC-102	LC-105	LC-112	LC-102	LC-105	LC-112	LC-102	LC-105	LC-112			
GZ-203 0ft-0_5ft	77	1.418	1.475										25.5	200	0.728
GZ-207 0ft-0_5ft	69	1.272	1.183					*					37.6	237	0.668
GZ-209 0ft-0_5ft	73	1.473	3.029										38.6	245	1.03
GZ-213 0ft-0_5ft	82	1.167	0.329					*		*		*	54.1	190	0.551
GZ-214 0ft-0_5ft	70	1.213	0.854					*		*			43.7	263	0.847
GZ-217 0ft-0_5ft	57	0.538	0.151	*	*	*	*	*	*	*	*	*	164	791	0.979
GZ-223 0ft-0_5ft	85	1.46	1.613										35.6	250	0.974
GZ-224 0ft-0_5ft	71	0.941	0.118				*	*	*	*	*	*	70.7	649	0.672
GZ-225 0ft-0_5ft	73	1.021	1.357				*	*					41.1	389	0.319
LC-102 0ft-0_5ft	83	1.586	2.366										22.7	770	0.13
LC-105 0ft-0_5ft	87	1.772	1.519										19.5	194	0.095
LC-112 0ft-0_5ft	85	1.42	2.081					*					15.1	183	0.76
Artificial Laboratory Control	62	0.8779	1.73										--	--	--
Natural Laboratory Control	71	1.035	1.352										--	--	--

Notes:

1. Endpoint values (percent survival, biomass, and reproduction) are averages among five replicates run for each sample.
2. Biomass is average mg/individual at test initiation (dry weight of surviving amphipods/20).
3. Reproduction is average number of offspring per surviving adult amphipod.
4. * indicates that there was a statistally significant difference at the 95% confidence level between the water-side samples and the local conditions reference sample for the toxicity test endpoint.

TABLE 5
STUDY AREA AND LOCAL CONDITIONS SHALLOW SEDIMENT SUMMARY STATISTICS

Wynn Resort Casino
Everett, Massachusetts

Analyte[3]	Study Area (Shallow)				Local Conditions (Shallow)				Marine Sediment Benchmarks			
	Frequency of Detection	Maximum	Mean	Median	Frequency of Detection	Maximum	Mean	Median	ERL		ERM	
Total Organic Carbon	82 / 82	138000	39658	40300	14 / 14	89400	66914	63500	NA		NA	
Volatile Organic Compounds (Low Level)												
1,2,4-Trimethylbenzene	2 / 13	0.072	0.055	0.055	0 / 0	--	--	--	NA		NA	
1,3,5-Trimethylbenzene	2 / 13	0.045	0.034	0.034	0 / 0	--	--	--	NA		NA	
2-Butanone	7 / 13	0.316	0.091	0.043	0 / 0	--	--	--	NA		NA	
2-Chlorotoluene	5 / 13	3.35	1.13	0.079	0 / 0	--	--	--	NA		NA	
4-Chlorotoluene	2 / 13	1.89	1.36	1.36	0 / 0	--	--	--	NA		NA	
4-Methyl-2-Pentanone	1 / 13	0.016	0.016	0.016	0 / 0	--	--	--	NA		NA	
Acetone	11 / 13	1.75	0.355	0.074	0 / 0	--	--	--	NA		NA	
Benzene	2 / 13	0.047	0.042	0.042	0 / 0	--	--	--	0.34	b	NA	
Carbon Disulfide	12 / 13	0.042	0.016	0.009	0 / 0	--	--	--	NA		NA	
Chlorobenzene	2 / 13	0.064	0.048	0.048	0 / 0	--	--	--	NA		NA	
Diethyl Ether	1 / 13	0.010	0.010	0.010	0 / 0	--	--	--	NA		NA	
Ethylbenzene	2 / 13	0.398	0.289	0.289	0 / 0	--	--	--	1.4	b	NA	
Isopropylbenzene	2 / 13	0.016	0.012	0.012	0 / 0	--	--	--	NA		NA	
Naphthalene	4 / 13	**0.994**	**0.447**	**0.391**	0 / 0	--	--	--	0.16	a	2.1	a
sec-Butylbenzene	2 / 13	0.016	0.012	0.012	0 / 0	--	--	--	NA		NA	
Toluene	2 / 13	0.100	0.071	0.071	0 / 0	--	--	--	2.5	b	NA	
Xylene O	2 / 13	0.102	0.076	0.076	0 / 0	--	--	--	NA		NA	
Xylene P,M	2 / 13	0.143	0.109	0.109	0 / 0	--	--	--	NA		NA	
Xylenes (Total)	2 / 13	0.245	0.186	0.186	0 / 0	--	--	--	NA		NA	
Volatile Organic Compounds (Methanol)												
2-Chlorotoluene	2 / 4	7.56	4.06	4.06	0 / 0	--	--	--	NA		NA	
4-Chlorotoluene	1 / 4	2.25	2.25	2.25	0 / 0	--	--	--	NA		NA	
Acetone	3 / 4	1.44	1.06	1.31	0 / 0	--	--	--	NA		NA	
Ethylbenzene	1 / 4	0.447	0.447	0.447	0 / 0	--	--	--	1.4	b	NA	
Naphthalene	2 / 4	**4.84**	**2.74**	**2.74**	0 / 0	--	--	--	0.16	a	2.1	a
Polychlorinated Biphenyls (PCBs)												
Aroclor 1248	45 / 59	113	3.68	0.266	14 / 14	6.83	0.860	0.338	NA		NA	
Aroclor 1254	47 / 59	3.09	0.708	0.485	14 / 14	8.39	1.25	0.635	NA		NA	
Aroclor 1260	42 / 59	0.995	0.264	0.222	13 / 14	0.850	0.330	0.299	NA		NA	
Aroclor 1262	1 / 59	0.009	0.009	0.009	0 / 14	ND	ND	ND	NA		NA	
Aroclor 1268	0 / 59	ND	ND	ND	0 / 14	ND	ND	ND	NA		NA	
Total PCBs	50 / 59	**113**	**4.20**	**1.06**	14 / 14	**15.2**	**2.41**	**1.28**	0.023	a	0.18	a
Semi-Volatile Organic Compounds (SVOCs)												
bis(2-Ethylhexyl)phthalate	45 / 59	**1870**	**86.7**	**2.11**	14 / 14	**278**	**24.0**	**2.49**	0.18216	b	2.64651	b
Butylbenzylphthalate	1 / 59	0.844	0.844	0.844	0 / 14	ND	ND	ND	NA		0.063	b
Carbazole	1 / 17	0.400	0.400	0.400	0 / 0	--	--	--	NA		NA	
Dibenzofuran	1 / 59	0.727	0.727	0.727	0 / 14	ND	ND	ND	NA		NA	
Di-n-octylphthalate	9 / 59	40.5	11.3	5.25	1 / 14	25.1	25.1	25.1	NA		NA	
Hexachlorobutadiene	1 / 40	0.282	0.282	0.282	0 / 14	ND	ND	ND	NA		NA	
Polycyclic Aromatic Hydrocarbons (PAHs)												
2-Methylnaphthalene	20 / 50	**0.571**	**0.109**	0.049	17 / 17	**0.447**	**0.122**	**0.080**	0.07	a	0.67	a
Acenaphthene	31 / 50	**0.505**	**0.079**	**0.037**	17 / 17	**1.56**	**0.184**	**0.084**	0.016	a	0.5	a
Acenaphthylene	42 / 50	**1.29**	**0.223**	**0.142**	17 / 17	**1.17**	**0.460**	**0.341**	0.044	a	0.64	a
Anthracene	43 / 50	**1.74**	**0.344**	**0.176**	17 / 17	**6.84**	**0.935**	**0.419**	0.085	a	1.1	a
Benzo(a)anthracene	49 / 50	**2.85**	**0.573**	**0.418**	17 / 17	**11.8**	**1.80**	**1.07**	0.261	a	1.6	a
Benzo(a)pyrene	49 / 50	**2.33**	**0.652**	**0.481**	17 / 17	**11.5**	**2.06**	**1.45**	0.43	a	1.6	a
Benzo(b)fluoranthene	49 / 50	3.36	0.928	0.673	17 / 17	13.7	2.78	2.27	NA		1.8	b
Benzo(g,h,i)perylene	49 / 50	1.69	0.420	0.282	17 / 17	7.45	1.16	0.776	NA		NA	
Benzo(k)fluoranthene	45 / 50	1.42	0.317	0.205	17 / 17	1.61	0.660	0.596	NA		NA	
Chrysene	49 / 50	**3.51**	**0.705**	**0.486**	17 / 17	**11.4**	**1.94**	**1.43**	0.384	a	2.8	a
Dibenzo(a,h)Anthracene	40 / 50	**0.460**	**0.138**	**0.099**	17 / 17	**1.74**	**0.333**	**0.248**	0.063	a	0.26	a
Fluoranthene	48 / 50	**5.89**	**1.06**	**0.696**	17 / 17	**33.8**	**4.19**	**2.18**	0.6	a	5.1	a
Fluorene	36 / 50	**0.896**	**0.118**	**0.055**	17 / 17	**2.87**	**0.331**	**0.127**	0.019	a	0.54	a
Indeno(1,2,3-cd)Pyrene	49 / 50	1.89	0.481	0.320	17 / 17	8.75	1.40	0.990	NA		NA	
Naphthalene	39 / 50	**7.91**	**0.416**	0.130	17 / 17	**2.24**	**0.595**	**0.490**	0.16	a	2.1	a
Phenanthrene	48 / 50	**3.63**	**0.522**	**0.298**	17 / 17	**28.3**	**2.76**	**0.953**	0.24	a	1.5	a
Pyrene	50 / 50	**5.37**	**1.19**	**0.773**	17 / 17	**29.8**	**4.06**	**2.33**	0.665	a	2.6	a
Total PAHs	50 / 50	**30.6**	**7.78**	**5.07**	17 / 17	**174**	**25.8**	**16.1**	4.022	a	44.792	a
Classical Chemisty												
Corrosivity (pH)	13 / 13	8.41	7.89	7.91	0 / 0	--	--	--	NA		NA	
Eh (ORP)	13 / 13	311	184	184	0 / 0	--	--	--	NA		NA	
Percent Water	13 / 13	2.05	0.942	0.732	0 / 0	--	--	--	NA		NA	
Reactive Sulfide	3 / 13	29.4	22.4	29.2	0 / 0	--	--	--	NA		NA	
Extractable Petroleum Hydrocarbons												
C11-C22 Aromatics1,2	51 / 59	2790	291	68.0	14 / 14	434	105	69.6	NA		NA	
C19-C36 Aliphatics1	51 / 59	1570	180	117	14 / 14	277	147	135	NA		NA	
C9-C18 Aliphatics1	17 / 59	524	128	71.9	3 / 14	145	72.0	36.2	NA		NA	
Total EPH	54 / 59	4312	485	181	14 / 14	845	268	198	NA		NA	
Total Metals												
Antimony	14 / 96	2.60	1.51	1.56	6 / 17	2.01	1.05	0.790	NA		9.3	b
Arsenic	96 / 96	**249**	**53.0**	**35.1**	17 / 17	**35.5**	**21.5**	**21.0**	8.2	a	70	a
Barium	96 / 96	190	45.8	44.0	17 / 17	201	75.4	64.8	NA		48	b
Beryllium	94 / 96	1.50	0.446	0.400	17 / 17	0.870	0.581	0.570	NA		NA	
Cadmium	73 / 96	**8.98**	**1.36**	1.06	17 / 17	**8.51**	**2.10**	**1.26**	1.2	a	9.6	a
Chromium	96 / 96	**169**	49.2	42.4	17 / 17	**170**	**85.1**	76.3	81	a	370	a
Lead	96 / 96	**1210**	**256**	**209**	17 / 17	**770**	**269**	**211**	47	a	218	a
Mercury	94 / 96	**11.9**	**1.20**	**0.766**	17 / 17	**1.08**	**0.408**	**0.256**	0.15	a	0.71	a
Nickel	96 / 96	**84.4**	16.7	15.2	17 / 17	**67.4**	**28.7**	**25.1**	21	a	52	a
Selenium	30 / 96	104	19.8	5.32	0 / 17	ND	ND	ND	NA		1	b
Silver	79 / 96	**5.11**	**1.31**	**1.09**	16 / 17	**3.09**	**1.44**	**1.22**	1	a	3.7	a
Thallium	1 / 96	1.37	1.37	1.37	0 / 17	ND	ND	ND	NA		NA	
Vanadium	96 / 96	354	54.3	50.0	17 / 17	484	102	69.1	NA		57	b
Zinc	96 / 96	**1310**	**292**	**258**	17 / 17	**618**	**360**	**334**	150	a	410	a

Notes:
1. Results are presented in mg/kg unless otherwise noted.
2. "--" indicates that an analyte was not tested for. "ND" indicates that an analyte was tested for but not detected above the reporting limit.
"NA" indicates that a benchmark value is not available
3. Only Analytes which were detected at least once are presented.
4. Shallow samples are those collected from the 0'-0.5' and 0.5'-2' depth intervals, and any other samples collected at a depth interval starting within 2' of the sediment surface
5. Marine sediment benchmarks are from the following sources:
a. Effects Range - Low (ERL) and Effects Range - Median (ERM) Marine Sediment screening values from Long, et al., 1995.
b. ERL and Er-M equivalent Marine Sediment benchmark values from http://epa.gov/region5/waste/cars/pdfs/ecological-screening-levels-200308.pdf
6. Bolded values exceed the conservative ERL screening value.
7. Shaded values exceed the ERM benchmark value.

TABLE 6
Sediment COPEC Selection Table

Wynn Resort Casino
Everett, Massachusetts

Analyte	Select Contaminants for Site Plan Development					COPEC Selection				
	Study Area - Shallow Samples			Local Conditions Shallow Samples	Site Plan Warranted?	Statistical Comparisons: On-Site Area Shallow > Local Conditions	Former Everett Staging Yard Soil			Sediment COPEC?
	Frequency of Detection	ERM Freq. of Exceedances	95th Percentile	UTL95-95			Freq. of Detection	Average	Median	
Polycyclic Aromatic Hydrocarbons										
Total PAHs	100%	None	25.1	26.4	N	N	22.69%	26.15	14.38	
Polychlorinated Biphenyls										
Total PCBs	85%	68%	9.1	2.22	Y	N	11.87%	2.84	0.732	
Extractable Petroleum Hydrocarbons										
Total EPH	97%	NA	1528	483.3	Y	N	43.34%	446.55	258	
Phthalates										
bis(2-Ethylhexyl)phthalate	76%	36%	485	1	Y	N	6.57%	530.43	2.06	
Metals										
Arsenic	100%	20%	182	37.9	Y	Y	71.84%	34.01	14.9	Y
Mercury	98%	53%	4.14	1.51	Y	Y	42.06%	2.07	0.38	Y
Lead	100%	44%	751	423	Y	Y	61.31%	511.96	102.5	Y
Barium	100%	NA	77.5	88	N	N	96.92%	65.48	46.5	
Beryllium	98%	NA	0.761	0.755	N	N	--	--	--	
Cadmium	76%	None	2.59	1.97	N	N	14.83%	1.59	2.94	
Chromium	100%	None	91.9	99.5	N	N	96.92%	27.43	22.25	
Nickel	100%	2.1%	28.5	35.9	N	N	--	--	--	
Silver	82%	3.1%	2.38	1.79	N	N	14.66%	1.38	2.865	
Vanadium	100%	NA	103	101	N	N	--	--	--	
Zinc	100%	14%	675	625	N	N	--	--	--	

Notes:

1. Concentrations are in mg/kg unless otherwise noted.
2. ERM = Effects Range Median. See text for definition of ERM.
3. UTL95-95 = Upper Threshold Limit represeting the upper 95% confidence limit on the 95th percentile.
   The UTL95-95 was calculated using the EPA ProUCL v.5 statistical package
4. Average values shown for the Former Everett Staging Yard Soil samples incorporate 1/2 * RL as estimated concentrations for non-detect results.
5. The median values are based on detected values only.
6. EPH data were not available for the Former Everett Staging Yard soil samples; statistics shown are for total petroleum hydrocarbon concentrations.

TABLE 7
SUMMARY OF STATISTICAL TEST RESULTS
STUDY AREA SEDIMENT VS. LOCAL CONDITIONS

Wynn Resort Casino
Everett, Massachusetts

Analyte	Sample Group	Distribution Goodness of Fit Test Results		Equal Variances?	Significant Difference from LC		
		Normal	Log normal		T-Test	WS T-Test	WMW
Arsenic	Off-Site West	Y	Y	N	--	NS	--
	Off-Site East	Y	Y	Y	NS	--	--
	Water-Side Site	N	N	--	--	--	S*
	Local Conditions	Y	Y				
Mercury	Off-Site West	Y	Y	Y	NS*	--	--
	Off-Site East	Y	Y	Y	NS*	--	--
	Water-Side Site	N	N	--	--	--	S
	Local Conditions	N	Y				
Lead	Off-Site West	Y	N	--	--	--	NS
	Off-Site East	Y	Y	--	--	--	NS
	Water-Side Site	N	N	--	--	--	NS[6]
	Local Conditions	N	N				
Barium	Off-Site West	Y	Y	--	--	--	NS
	Off-Site East	N	Y	--	--	--	NS
	Water-Side Site	Y	Y	--	--	--	NS
	Local Conditions	N	N				
Beryllium	Off-Site West	Y	Y	Y	NS	--	--
	Off-Site East	Y	Y	N	--	NS	--
	Water-Side Site	Y	Y	N	--	NS	--
	Local Conditions	Y	Y				
Cadmium	Off-Site West	N	Y	--	--	--	NS
	Off-Site East	Y	Y	--	--	--	NS
	Water-Side Site	N	Y	--	--	--	NS
	Local Conditions	N	N				
Chromium	Off-Site West	N	Y	--	--	--	NS
	Off-Site East	N	N	--	--	--	NS
	Water-Side Site	Y	Y	--	--	--	NS
	Local Conditions	N	N				
Nickel	Off-Site West	N	Y	--	--	--	NS
	Off-Site East	Y	Y	--	--	--	NS
	Water-Side Site	N	Y	--	--	--	NS
	Local Conditions	N	N				
Silver	Off-Site West	Y	Y	Y	NS*	--	--
	Off-Site East	Y	Y	Y	NS*	--	--
	Water-Side Site	N	Y	N	--	NS*	--
	Local Conditions	N	Y				
Vanadium	Off-Site West	N	Y	--	--	--	NS
	Off-Site East	Y	Y	--	--	--	NS
	Water-Side Site	N	Y	--	--	--	NS
	Local Conditions	N	N				
Zinc	Off-Site West	N	Y	N	--	NS*	--
	Off-Site East	Y	Y	N	--	NS*	--
	Water-Side Site	N	Y	N	--	NS*	--
	Local Conditions	Y	Y				
Total PAHs	Off-Site West	Y	Y	--	--	--	NS
	Off-Site East	Y	N	--	--	--	NS
	Water-Side Site	N	Y	--	--	--	NS
	Local Conditions	N	N				
Total PCBs	Off-Site West	Y	Y	--	--	--	NS
	Off-Site East	N	Y	--	--	--	NS
	Water-Side Site	N	Y	--	--	--	NS
	Local Conditions	N	N				
Bis (2-ethylhexyl) phthalate	Off-Site West	Y	Y	--	--	--	NS
	Off-Site East	Y	Y	--	--	--	NS
	Water-Side Site	N	N	--	--	--	NS
	Local Conditions	N	N				
EPH	Off-Site West	Y	Y	Y	NS	--	--
	Off-Site East	N	Y	N	--	NS*	--
	Water-Side Site	N	Y	N	--	NS*	--
	Local Conditions	Y	Y				

Notes:

1. "--" indicates that a comparison using this test method was not appropriate based on data distrubution.
   "NS" indicates that there is no significant difference between the data group and the local conditions.
   "S" indicates that there is a significant dif
2. "*" indicates that the test was run using log transformed data.
3. Statistical analyses were conducted using the U.S. Environmental Protection Agency ProUCL v.5.0 statistical package.
4. Appendix H presents a summary of statistical methods used, decision tree, and result reports generated by ProUCL.
5. T-Test = Student's T-Test.
   WS T-Test=Welch-Satterthwaite two-sample T test for normally distributed data sets with unequal variances.
   WMW = Wilcoxon-Mann-Whitney non-parametric test for comparing data sets that are not normally distributed.
6. When the high outlier Local Conditions value of 770 mg/kg is removed from the statistical test run, Lead concentrations in the water-side site are significantly elevated above Local Conditions. (Outliers identified using the Dixon's and Rosner's outlier tests.)
7. Statistical tests were run for each of the other contaminants with high outlier values removed; removing the outliers did not change the outcome of the statistical comparisions.

Table 8A
ON-SITE SEDIMENT SUMMARY STATISTICS

Wynn Resort Casino
Everett, Massachusetts

Analyte[2]	Water-Side Site (Shallow)				Water-Side Site (2'-4')				Water-Side Site (4'-6')				Water-Side Site (6'-10')				Marine Sediment Benchmarks			
	Frequency of Detection	Maximum	Mean	Median	Frequency of Detection	Maximum	Mean	Median	Frequency of Detection	Maximum	Mean	Median	Frequency of Detection	Maximum	Mean	Median	ERL		ERM	
Total Organic Carbon	52 / 52	138000	45471	43800	11 / 11	70100	47964	56500	6 / 6	58300	38783	46300	4 / 4	71000	29528	20950	NA		NA	
Volatile Organic Compounds (Low Level)																				
1,2,4-Trimethylbenzene	1 / 9	0.072	0.072	0.072	0 / 0	--	--	--	0 / 0	--	--	--	0 / 0	--	--	--	NA		NA	
1,3,5-Trimethylbenzene	1 / 9	0.045	0.045	0.045	0 / 0	--	--	--	0 / 0	--	--	--	0 / 0	--	--	--	NA		NA	
2-Butanone	5 / 9	0.316	0.078	0.012	0 / 0	--	--	--	0 / 0	--	--	--	0 / 0	--	--	--	NA		NA	
2-Chlorotoluene	2 / 9	3.35	1.69	1.69	0 / 0	--	--	--	0 / 0	--	--	--	0 / 0	--	--	--	NA		NA	
4-Chlorotoluene	1 / 9	1.89	1.89	1.89	0 / 0	--	--	--	0 / 0	--	--	--	0 / 0	--	--	--	NA		NA	
Acetone	8 / 9	1.75	0.304	0.073	0 / 0	--	--	--	0 / 0	--	--	--	0 / 0	--	--	--	NA		NA	
Benzene	1 / 9	0.047	0.047	0.047	0 / 0	--	--	--	0 / 0	--	--	--	0 / 0	--	--	--	0.34	b	NA	
Carbon Disulfide	9 / 9	0.042	0.014	0.008	0 / 0	--	--	--	0 / 0	--	--	--	0 / 0	--	--	--	NA		NA	
Chlorobenzene	1 / 9	0.064	0.064	0.064	0 / 0	--	--	--	0 / 0	--	--	--	0 / 0	--	--	--	NA		NA	
Ethylbenzene	1 / 9	0.398	0.398	0.398	0 / 0	--	--	--	0 / 0	--	--	--	0 / 0	--	--	--	1.4	b	NA	
Isopropylbenzene	1 / 9	0.016	0.016	0.016	0 / 0	--	--	--	0 / 0	--	--	--	0 / 0	--	--	--	NA		NA	
Naphthalene	2 / 9	**0.994**	**0.508**	**0.508**	0 / 0	--	--	--	0 / 0	--	--	--	0 / 0	--	--	--	0.16	a	2.1	a
sec-Butylbenzene	1 / 9	0.016	0.016	0.016	0 / 0	--	--	--	0 / 0	--	--	--	0 / 0	--	--	--	NA		NA	
Toluene	1 / 9	0.100	0.100	0.100	0 / 0	--	--	--	0 / 0	--	--	--	0 / 0	--	--	--	2.5	b	NA	
Xylene O	1 / 9	0.102	0.102	0.102	0 / 0	--	--	--	0 / 0	--	--	--	0 / 0	--	--	--	NA		NA	
Xylene P,M	1 / 9	0.143	0.143	0.143	0 / 0	--	--	--	0 / 0	--	--	--	0 / 0	--	--	--	NA		NA	
Xylenes (Total)	1 / 9	0.245	0.245	0.245	0 / 0	--	--	--	0 / 0	--	--	--	0 / 0	--	--	--	NA		NA	
Volatile Organic Compounds (Methanol)																				
2-Chlorotoluene	1 / 2	7.56	7.56	7.56	0 / 0	--	--	--	0 / 0	--	--	--	0 / 0	--	--	--	NA		NA	
4-Chlorotoluene	1 / 2	2.25	2.25	2.25	0 / 0	--	--	--	0 / 0	--	--	--	0 / 0	--	--	--	NA		NA	
Acetone	2 / 2	1.44	0.937	0.937	0 / 0	--	--	--	0 / 0	--	--	--	0 / 0	--	--	--	NA		NA	
Ethylbenzene	1 / 2	0.447	0.447	0.447	0 / 0	--	--	--	0 / 0	--	--	--	0 / 0	--	--	--	1.4	b	NA	
Naphthalene	1 / 2	**4.84**	**4.84**	**4.84**	0 / 0	--	--	--	0 / 0	--	--	--	0 / 0	--	--	--	0.16	a	2.1	a
Polychlorinated Biphenyls (PCBs)																				
Aroclor 1248	33 / 40	113	4.08	0.175	5 / 9	59.7	17.4	2.51	2 / 3	2.08	1.20	1.20	2 / 4	2.45	1.37	1.37	NA		NA	
Aroclor 1254	33 / 40	3.09	0.719	0.452	5 / 9	3.88	2.23	2.81	2 / 3	2.63	1.47	1.47	2 / 4	1.11	0.805	0.805	NA		NA	
Aroclor 1260	30 / 40	0.995	0.274	0.189	3 / 9	1.42	1.31	1.26	2 / 3	1.77	0.930	0.930	1 / 4	0.685	0.685	0.685	NA		NA	
Aroclor 1262	1 / 40	0.009	0.009	0.009	0 / 9	ND	ND	ND	0 / 3	ND	ND	ND	1 / 4	0.187	0.187	0.187	NA		NA	
Total PCBs	35 / 40	**113**	**4.76**	**0.779**	7 / 9	**59.7**	**14.6**	**6.56**	2 / 3	**6.48**	**3.59**	**3.59**	2 / 4	**4.25**	**2.61**	**2.61**	0.023	a	0.18	a
Semi-Volatile Organic Compounds (SVOCs)																				
1,2-Dichlorobenzene	0 / 40	ND	ND	ND	1 / 9	0.564	0.564	0.564	0 / 3	ND	ND	ND	0 / 4	ND	ND	ND	NA		0.013	b
bis(2-Ethylhexyl)phthalate	31 / 40	**1870**	**92.2**	**2.27**	7 / 9	**2900**	**825**	**357**	2 / 3	**74.0**	**53.3**	**53.3**	3 / 4	**789**	**434**	**498**	0.18216	b	2.64651	b
Butylbenzylphthalate	1 / 40	0.844	0.844	0.844	1 / 9	0.598	0.598	0.598	0 / 3	ND	ND	ND	2 / 4	0.748	0.714	0.714	NA		0.063	b
Dibenzofuran	0 / 40	ND	ND	ND	0 / 9	ND	ND	ND	0 / 3	ND	ND	ND	1 / 4	0.624	0.624	0.624	NA		NA	
Di-n-octylphthalate	6 / 40	40.5	15.5	7.04	5 / 9	183	52.3	28.2	0 / 3	ND	ND	ND	3 / 4	36.2	13.7	4.14	NA		NA	
Hexachlorobutadiene	1 / 28	0.282	0.282	0.282	0 / 3	ND	ND	ND	1 / 2	0.178	0.178	0.178	0 / 0	--	--	--	NA		NA	
Polycyclic Aromatic Hydrocarbons (PAHs)																				
2-Methylnaphthalene	18 / 33	**0.571**	**0.105**	0.041	5 / 13	**0.253**	**0.141**	**0.114**	3 / 12	**1.02**	**0.485**	**0.380**	1 / 9	**6.35**	**6.35**	**6.35**	0.07	a	0.67	a
Acenaphthene	24 / 33	**0.505**	**0.084**	**0.038**	5 / 13	**0.158**	**0.070**	**0.060**	3 / 12	**1.10**	**0.577**	**0.430**	1 / 9	**3.34**	**3.34**	**3.34**	0.016	a	0.5	a
Acenaphthylene	27 / 33	**1.29**	**0.268**	**0.165**	10 / 13	**0.677**	**0.178**	**0.099**	5 / 12	**1.04**	**0.313**	**0.147**	1 / 9	**1.89**	**1.89**	**1.89**	0.044	a	0.64	a
Anthracene	28 / 33	**1.74**	**0.409**	**0.218**	10 / 13	**0.516**	**0.199**	**0.155**	5 / 12	**1.52**	**0.522**	**0.369**	2 / 9	**3.83**	**1.94**	**1.94**	0.085	a	1.1	a
Benzo(a)anthracene	33 / 33	**2.85**	**0.643**	**0.442**	10 / 13	**1.58**	**0.412**	0.240	5 / 12	**1.55**	**0.523**	**0.316**	2 / 9	**3.25**	**1.66**	**1.66**	0.261	a	1.6	a
Benzo(a)pyrene	33 / 33	**2.33**	**0.725**	**0.516**	10 / 13	**1.32**	0.371	0.220	5 / 12	**2.24**	**0.707**	0.349	2 / 9	**2.25**	**1.15**	**1.15**	0.43	a	1.6	a
Benzo(b)fluoranthene	33 / 33	3.36	1.05	0.752	11 / 13	1.52	0.450	0.278	5 / 12	2.49	0.823	0.478	3 / 9	3.33	1.14	0.065	NA		1.8	b
Benzo(g,h,i)perylene	33 / 33	1.69	0.465	0.298	9 / 13	0.669	0.263	0.157	5 / 12	1.46	0.417	0.185	3 / 9	1.62	0.565	0.038	NA		NA	
Benzo(k)fluoranthene	30 / 33	1.42	0.356	0.237	9 / 13	1.51	0.289	0.113	5 / 12	0.745	0.254	0.144	2 / 9	1.40	0.714	0.714	NA		NA	
Chrysene	33 / 33	**3.51**	**0.796**	**0.518**	11 / 13	**1.58**	**0.407**	0.182	6 / 12	**1.89**	**0.527**	0.332	3 / 9	**3.09**	**1.06**	0.067	0.384	a	2.8	a
Dibenzo(a,h)Anthracene	25 / 33	**0.460**	**0.161**	**0.127**	5 / 13	**0.247**	**0.114**	**0.086**	2 / 12	**0.544**	**0.292**	**0.292**	1 / 9	**0.601**	**0.601**	**0.601**	0.063	a	0.26	a
Fluoranthene	32 / 33	**5.89**	**1.24**	**0.759**	12 / 13	**2.12**	0.555	0.417	6 / 12	**2.19**	**0.725**	0.529	3 / 9	**4.93**	**1.69**	0.114	0.6	a	5.1	a
Fluorene	25 / 33	**0.896**	**0.139**	**0.057**	6 / 13	**0.187**	**0.104**	**0.106**	3 / 12	**1.35**	**0.678**	**0.350**	1 / 9	**3.36**	**3.36**	**3.36**	0.019	a	0.54	a
Indeno(1,2,3-cd)Pyrene	33 / 33	1.89	0.535	0.330	9 / 13	0.677	0.280	0.162	5 / 12	1.59	0.449	0.195	3 / 9	1.79	0.622	0.041	NA		NA	
Naphthalene	27 / 33	**7.91**	**0.509**	0.136	8 / 13	**1.15**	**0.357**	**0.164**	3 / 12	**3.32**	**2.05**	**2.65**	2 / 9	**15.2**	**7.65**	**7.65**	0.16	a	2.1	a
Phenanthrene	32 / 33	**3.63**	**0.612**	**0.330**	10 / 13	**0.767**	**0.386**	**0.342**	5 / 12	**5.13**	**1.57**	**1.08**	3 / 9	**9.55**	**3.23**	0.122	0.24	a	1.5	a
Pyrene	33 / 33	**5.37**	**1.41**	**0.849**	12 / 13	**3.41**	**0.755**	0.458	7 / 12	**4.65**	**1.06**	0.644	3 / 9	**6.84**	**2.33**	0.125	0.665	a	2.6	a
Total PAHs	33 / 33	**30.6**	**9.06**	**5.66**	12 / 13	**16.4**	**4.43**	3.73	7 / 12	**33.8**	**7.83**	3.87	3 / 9	**72.6**	**24.6**	0.818	4.022	a	44.792	a
Classical Chemisty																				
Corrosivity (pH)	9 / 9	8.41	7.91	8.03	0 / 0	--	--	--	0 / 0	--	--	--	0 / 0	--	--	--	NA		NA	
Eh (ORP)	9 / 9	311	181	177	0 / 0	--	--	--	0 / 0	--	--	--	0 / 0	--	--	--	NA		NA	
Percent Water	9 / 9	2.05	0.862	0.732	0 / 0	--	--	--	0 / 0	--	--	--	0 / 0	--	--	--	NA		NA	
Reactive Sulfide	2 / 9	29.4	19.0	19.0	0 / 0	--	--	--	0 / 0	--	--	--	0 / 1	ND	ND	ND	NA		NA	
Extractable Petroleum Hydrocarbons																				
C11-C22 Aromatics1,2	37 / 40	2790	327	77.6	7 / 9	2630	1083	949	2 / 3	947	773	773	2 / 4	2530	2035	2035	NA		NA	
C19-C36 Aliphatics1	37 / 40	1570	192	108	7 / 9	1170	467	305	2 / 3	944	573	573	2 / 4	898	652	652	NA		NA	
C9-C18 Aliphatics1	12 / 40	524	130	75.8	5 / 9	442	273	228	2 / 3	169	167	167	2 / 4	612	378	378	NA		NA	
Total EPH	39 / 40	4312	532	178	7 / 9	2935	1745	1524	2 / 3	2060	1513	1513	2 / 4	4040	3064	3064	NA		NA	
Total Metals																				
Antimony	9 / 58	2.50	1.59	1.57	0 / 29	ND	ND	ND	1 / 28	1.22	1.22	1.22	1 / 18	2.90	2.90	2.90	NA		9.3	b
Arsenic	58 / 58	**249**	**72.7**	**45.8**	27 / 29	**357**	**100**	**82.4**	26 / 28	**204**	**45.7**	**33.7**	18 / 18	**204**	**39.8**	**9.30**	8.2	a	70	a
Barium	58 / 58	190	52.5	49.3	29 / 29	163	59.8	61.6	28 / 28	98.6	42.5	41.1	18 / 18	133	46.5	49.0	NA		48	b
Beryllium	56 / 58	1.50	0.505	0.485	28 / 29	1.51	0.647	0.640	27 / 28	1.01	0.475	0.460	18 / 18	0.940	0.524	0.510	NA		NA	
Cadmium	48 / 58	**8.98**	**1.53**	**1.24**	24 / 29	**8.49**	**3.01**	**2.52**	18 / 28	**2.91**	**1.64**	**1.78**	11 / 18	**4.91**	**1.94**	**1.51**	1.2	a	9.6	a
Chromium	58 / 58	**169**	57.4	52.7	29 / 29	**212**	**90.6**	**88.0**	28 / 28	**201**	62.5	44.6	18 / 18	**183**	69.6	52.6	81	a	370	a
Lead	58 / 58	**1210**	**338**	**251**	29 / 29	**1800**	**317**	**270**	24 / 28	**452**	**150**	**157**	16 / 18	**710**	**162**	**147**	47	a	218	a
Mercury	58 / 58	**11.9**	**1.65**	**0.996**	26 / 29	**10.3**	**2.35**	**1.91**	18 / 28	**2.97**	**1.39**	**1.21**	10 / 18	**5.21**	**2.27**	**1.92**	0.15	a	0.71	a
Nickel	58 / 58	**84.4**	19.1	16.2	29 / 29	**38.2**	20.0	17.8	28 / 28	**30.4**	14.0	11.9	18 / 18	**23.9**	14.1	11.5	21	a	52	a
Selenium	24 / 58	104	24.1	8.20	11 / 29	14.9	7.50	6.60	3 / 28	26.8	12.7	8.29	1 / 18	5.57	5.57	5.57	NA		1	b
Silver	51 / 58	**5.11**	**1.42**	**1.23**	22 / 29	**10.8**	**2.81**	**2.52**	16 / 28	**4.95**	**1.96**	**1.78**	9 / 18	**5.14**	**2.25**	**1.74**	1	a	3.7	a
Thallium	1 / 58	1.37	1.37	1.37	0 / 29	ND	ND	ND	0 / 28	ND	ND	ND	0 / 18	ND	ND	ND	NA		NA	
Vanadium	58 / 58	354	62.3	57.2	29 / 29	307	128	140	28 / 28	235	76.8	46.3	18 / 18	192	77.4	49.5	NA		57	b
Zinc	58 / 58	**1230**	**341**	**314**	29 / 29	**956**	**344**	**342**	28 / 28	**427**	**153**	125	18 / 18	**833**	**162**	66.8	150	a	410	a

Notes:
1. Results are presented in mg/kg unless otherwise noted.
2. "--" indicates that an analyte was not tested for. "ND" indicates that an analyte was tested for but not detected above the reporting limit.
"NA" indicates that a benchmark value is not available
3. Only Analytes which were detected at least once are presented.
4. Shallow samples are those collected from the 0'-0.5' and 0.5'-2' depth intervals, and any other samples collected at a depth interval starting within 2' of the sediment surface
5. Marine sediment benchmarks are from the following sources:
a. Effects Range - Low (ERL) and Effects Range - Median (ERM) Marine Sediment screening values from Long, et al., 1995.
b. ERL and ERM equivalent Marine Sediment benchmark values from http://epa. ERL and Er-M equivalent Marine Sediment benchmark values
6. Bolded values exceed the conservative ERL screening value.
7. Shaded values exceed the ERM benchmark value.

Table 8B
OFF-SITE EAST SEDIMENT SUMMARY STATISTICS

Wynn Resort Casino
Everett, Massachusetts

Analyte[2]	Off-Site East (Shallow)				Off-Site East (2'-4')				Off-Site East (4'-10')				Marine Sediment Benchmarks			
	Frequency of Detection	Maximum	Mean	Median	Frequency of Detection	Maximum	Mean	Median	Frequency of Detection	Maximum	Mean	Median	ERL		ERM	
Total Organic Carbon	12 / 12	76200	41693	45550	1 / 1	50900	50900	50900	0 / 0	--	--	--	NA		NA	
Volatile Organic Compounds (Low Level)																
1,2,4-Trimethylbenzene	1 / 4	0.038	0.038	0.038	0 / 0	--	--	--	0 / 0	--	--	--	NA		NA	
1,3,5-Trimethylbenzene	1 / 4	0.023	0.023	0.023	0 / 0	--	--	--	0 / 0	--	--	--	NA		NA	
2-Butanone	2 / 4	0.205	0.124	0.124	0 / 0	--	--	--	0 / 0	--	--	--	NA		NA	
2-Chlorotoluene	3 / 4	2.12	0.758	0.079	0 / 0	--	--	--	0 / 0	--	--	--	NA		NA	
4-Chlorotoluene	1 / 4	0.825	0.825	0.825	0 / 0	--	--	--	0 / 0	--	--	--	NA		NA	
4-Methyl-2-Pentanone	1 / 4	0.016	0.016	0.016	0 / 0	--	--	--	0 / 0	--	--	--	NA		NA	
Acetone	3 / 4	1.18	0.493	0.278	0 / 0	--	--	--	0 / 0	--	--	--	NA		NA	
Benzene	1 / 4	0.037	0.037	0.037	0 / 0	--	--	--	0 / 0	--	--	--	0.34	b	NA	
Carbon Disulfide	3 / 4	0.029	0.021	0.024	0 / 0	--	--	--	0 / 0	--	--	--	NA		NA	
Chlorobenzene	1 / 4	0.032	0.032	0.032	0 / 0	--	--	--	0 / 0	--	--	--	NA		NA	
Diethyl Ether	1 / 4	0.010	0.010	0.010	0 / 0	--	--	--	0 / 0	--	--	--	NA		NA	
Ethylbenzene	1 / 4	0.180	0.180	0.180	0 / 0	--	--	--	0 / 0	--	--	--	1.4	b	NA	
Isopropylbenzene	1 / 4	0.009	0.009	0.009	0 / 0	--	--	--	0 / 0	--	--	--	NA		NA	
Naphthalene	2 / 4	**0.761**	**0.386**	**0.386**	0 / 0	--	--	--	0 / 0	--	--	--	0.16	a	2.1	a
sec-Butylbenzene	1 / 4	0.007	0.007	0.007	0 / 0	--	--	--	0 / 0	--	--	--	NA		NA	
Toluene	1 / 4	0.042	0.042	0.042	0 / 0	--	--	--	0 / 0	--	--	--	2.5	b	NA	
Xylene O	1 / 4	0.050	0.050	0.050	0 / 0	--	--	--	0 / 0	--	--	--	NA		NA	
Xylene P,M	1 / 4	0.076	0.076	0.076	0 / 0	--	--	--	0 / 0	--	--	--	NA		NA	
Xylenes (Total)	1 / 4	0.126	0.126	0.126	0 / 0	--	--	--	0 / 0	--	--	--	NA		NA	
Volatile Organic Compounds (Methanol)																
2-Chlorotoluene	1 / 2	0.552	0.552	0.552	0 / 0	--	--	--	0 / 0	--	--	--	NA		NA	
Acetone	1 / 2	1.31	1.31	1.31	0 / 0	--	--	--	0 / 0	--	--	--	NA		NA	
Naphthalene	1 / 2	**0.637**	**0.637**	**0.637**	0 / 0	--	--	--	0 / 0	--	--	--	0.16	a	2.1	a
Polychlorinated Biphenyls (PCBs)																
Aroclor 1248	11 / 12	21.5	2.76	0.496	1 / 1	1.77	1.77	1.77	0 / 0	--	--	--	NA		NA	
Aroclor 1254	10 / 12	2.83	0.722	0.650	1 / 1	2.07	2.07	2.07	0 / 0	--	--	--	NA		NA	
Aroclor 1260	10 / 12	0.699	0.244	0.257	1 / 1	0.741	0.741	0.741	0 / 0	--	--	--	NA		NA	
Total PCBs	11 / 12	**21.5**	**3.64**	**1.44**	1 / 1	**4.58**	**4.58**	**4.58**	0 / 0	--	--	--	0.023	a	0.18	a
Semi-Volatile Organic Compounds (SVOCs)																
bis(2-Ethylhexyl)phthalate	10 / 12	**694**	**103**	**1.76**	1 / 1	**1120**	**1120**	**1120**	0 / 0	--	--	--	0.18216	b	2.64651	b
Butylbenzylphthalate	0 / 12	ND	ND	ND	0 / 1	ND	ND	ND	0 / 0	--	--	--	NA		0.063	b
Dibenzofuran	0 / 12	ND	ND	ND	0 / 1	ND	ND	ND	0 / 0	--	--	--	NA		NA	
Di-n-octylphthalate	3 / 12	5.25	3.02	2.47	1 / 1	2.19	2.19	2.19	0 / 0	--	--	--	NA		NA	
Hexachlorobutadiene	0 / 12	ND	ND	ND	0 / 1	ND	ND	ND	0 / 0	--	--	--	NA		NA	
Polycyclic Aromatic Hydrocarbons (PAHs)																
2-Methylnaphthalene	0 / 10	ND	ND	ND	2 / 4	**1.54**	**0.985**	**0.985**	3 / 5	**0.083**	0.055	0.060	0.07	a	0.67	a
Acenaphthene	5 / 10	**0.049**	**0.031**	**0.029**	3 / 4	**0.599**	**0.358**	**0.447**	2 / 5	**0.135**	**0.078**	**0.078**	0.016	a	0.5	a
Acenaphthylene	9 / 10	**0.190**	**0.076**	**0.071**	3 / 4	**0.519**	**0.360**	**0.509**	3 / 5	**0.087**	**0.061**	**0.078**	0.044	a	0.64	a
Anthracene	9 / 10	**0.187**	**0.108**	**0.104**	3 / 4	**1.07**	**0.718**	**1.03**	3 / 5	**0.309**	**0.144**	**0.088**	0.085	a	1.1	a
Benzo(a)anthracene	9 / 10	**0.521**	**0.291**	**0.291**	3 / 4	**0.975**	**0.638**	**0.864**	3 / 5	0.169	0.125	0.154	0.261	a	1.6	a
Benzo(a)pyrene	9 / 10	**0.690**	0.358	0.350	3 / 4	**0.904**	**0.625**	**0.868**	3 / 5	0.197	0.139	0.173	0.43	a	1.6	a
Benzo(b)fluoranthene	9 / 10	1.07	0.507	0.517	3 / 4	1.43	0.904	1.16	3 / 5	0.276	0.191	0.242	NA		1.8	b
Benzo(g,h,i)perylene	9 / 10	0.581	0.255	0.187	2 / 4	0.568	0.494	0.494	3 / 5	0.106	0.075	0.091	NA		NA	
Benzo(k)fluoranthene	9 / 10	0.337	0.151	0.137	3 / 4	0.459	0.301	0.392	2 / 5	0.103	0.084	0.084	NA		NA	
Chrysene	9 / 10	**0.693**	0.361	0.354	3 / 4	**1.14**	**0.787**	**1.12**	3 / 5	0.234	0.158	0.183	0.384	a	2.8	a
Dibenzo(a,h)Anthracene	9 / 10	**0.146**	**0.066**	0.055	1 / 4	**0.121**	**0.121**	**0.121**	2 / 5	0.032	0.031	0.031	0.063	a	0.26	a
Fluoranthene	9 / 10	**1.07**	0.578	**0.612**	3 / 4	**2.41**	**1.63**	**2.30**	3 / 5	0.455	0.284	0.303	0.6	a	5.1	a
Fluorene	7 / 10	**0.073**	**0.039**	**0.038**	3 / 4	**1.06**	**0.584**	**0.665**	2 / 5	**0.160**	**0.095**	**0.095**	0.019	a	0.54	a
Indeno(1,2,3-cd)Pyrene	9 / 10	0.628	0.280	0.222	2 / 4	0.581	0.520	0.520	3 / 5	0.114	0.082	0.102	NA		NA	
Naphthalene	7 / 10	**0.223**	0.107	0.125	3 / 4	**14.8**	**6.15**	**3.52**	4 / 5	**1.17**	**0.377**	0.157	0.16	a	2.1	a
Phenanthrene	9 / 10	**0.442**	0.236	0.230	3 / 4	**2.81**	**1.72**	**2.26**	3 / 5	**0.636**	**0.262**	0.124	0.24	a	1.5	a
Pyrene	10 / 10	**1.09**	0.515	0.502	3 / 4	**2.58**	**1.79**	**2.56**	3 / 5	0.560	0.333	0.332	0.665	a	2.6	a
Total PAHs	10 / 10	**7.99**	3.57	3.48	3 / 4	**33.2**	**17.9**	**19.3**	4 / 5	**4.73**	1.95	1.42	4.022	a	44.792	a
Classical Chemisty																
Corrosivity (pH)	4 / 4	8.18	7.86	7.87	0 / 0	--	--	--	0 / 0	--	--	--	NA		NA	
Eh (ORP)	4 / 4	272	195	217	0 / 0	--	--	--	0 / 0	--	--	--	NA		NA	
Percent Water	4 / 4	1.99	1.22	1.22	0 / 0	--	--	--	0 / 0	--	--	--	NA		NA	
Reactive Sulfide	1 / 4	29.2	29.2	29.2	0 / 0	--	--	--	0 / 0	--	--	--	NA		NA	
Extractable Petroleum Hydrocarbons																
C11-C22 Aromatics1,2	8 / 12	818	239	58.8	1 / 1	2280	2280	2280	0 / 0	--	--	--	NA		NA	
C19-C36 Aliphatics1	9 / 12	256	120	120	1 / 1	391	391	391	0 / 0	--	--	--	NA		NA	
C9-C18 Aliphatics1	2 / 12	269	220	220	1 / 1	574	574	574	0 / 0	--	--	--	NA		NA	
Total EPH	9 / 12	1154	381	183	1 / 1	3245	3245	3245	0 / 0	--	--	--	NA		NA	
Total Metals																
Antimony	2 / 14	0.540	0.520	0.520	0 / 4	ND	ND	ND	1 / 5	0.580	0.580	0.580	NA		9.3	b
Arsenic	14 / 14	**36.5**	**21.2**	**21.6**	4 / 4	**61.4**	**28.1**	**23.3**	5 / 5	**18.8**	**12.1**	**14.0**	8.2	a	70	a
Barium	14 / 14	69.4	40.1	47.0	4 / 4	75.0	46.2	46.1	5 / 5	50.7	34.5	33.4	NA		48	b
Beryllium	14 / 14	0.710	0.444	0.505	4 / 4	0.570	0.453	0.460	5 / 5	0.580	0.424	0.450	NA		NA	
Cadmium	9 / 14	**1.54**	1.01	1.06	2 / 4	**1.74**	**1.59**	**1.59**	3 / 5	**1.38**	0.883	0.770	1.2	a	9.6	a
Chromium	14 / 14	**88.6**	48.7	60.8	4 / 4	**96.5**	55.5	54.8	5 / 5	63.5	34.7	32.0	81	a	370	a
Lead	14 / 14	**237**	**141**	**154**	4 / 4	**246**	**130**	**133**	5 / 5	**178**	**72.3**	**77.2**	47	a	218	a
Mercury	14 / 14	**0.728**	**0.343**	**0.254**	3 / 4	**1.11**	**0.558**	**0.307**	3 / 5	**0.498**	**0.301**	**0.218**	0.15	a	0.71	a
Nickel	14 / 14	**30.4**	16.4	17.9	4 / 4	17.4	14.2	14.9	5 / 5	**22.9**	14.5	12.4	21	a	52	a
Selenium	1 / 14	2.23	2.23	2.23	0 / 4	ND	ND	ND	0 / 5	ND	ND	ND	NA		1	b
Silver	7 / 14	**2.11**	**1.23**	**1.09**	2 / 4	**1.30**	**1.03**	**1.03**	1 / 5	**1.36**	**1.36**	**1.36**	1	a	3.7	a
Vanadium	14 / 14	105	53.1	61.4	4 / 4	109	66.6	67.9	5 / 5	90.0	44.0	36.8	NA		57	b
Zinc	14 / 14	**674**	**255**	**280**	4 / 4	**280**	**171**	**189**	5 / 5	**216**	106	128	150	a	410	a

Notes:
1. Results are presented in mg/kg unless otherwise noted.
2. "--" indicates that an analyte was not tested for. "ND" indicates that an analyte was tested for but not detected above the reporting limit.
"NA" indicates that a benchmark value is not available
3. Only Analytes which were detected at least once are presented.
4. Shallow samples are those collected from the 0'-0.5' and 0.5'-2' depth intervals, and any other samples collected at a depth interval starting within 2' of the sediment surface
5. Marine sediment benchmarks are from the following sources:
a. Effects Range - Low (ERL) and Effects Range - Median (ERM) Marine Sediment screening values from Long, et al., 1995.
b. ERL and ERM equivalent Marine Sediment benchmark values from http://epa. ERL and Er-M equivalent Marine Sediment benchmark values
6. Bolded values exceed the conservative ERL screening value.
7. Shaded values exceed the ERM benchmark value.

Analyte[2]	Off-Site West (Shallow)				Off-Site West (2'-4')				Off-Site West (4'-6')				Off-Site West (6'-10')				Marine Sediment Benchmarks			
	Frequency of Detection	Maximum	Mean	Median	Frequency of Detection	Maximum	Mean	Median	Frequency of Detection	Maximum	Mean	Median	Frequency of Detection	Maximum	Mean	Median	ERL		ERM	
Total Organic Carbon	18 / 18	61300	21506	15650	5 / 5	32100	11796	6760	0 / 0	--	--	--	2 / 2	19100	14600	14600	NA		NA	
2-Chlorotoluene	0 / 0	--	--	--	0 / 0	--	--	--	0 / 0	--	--	--	0 / 0	--	--	--	NA		NA	
4-Chlorotoluene	0 / 0	--	--	--	0 / 0	--	--	--	0 / 0	--	--	--	0 / 0	--	--	--	NA		NA	
Acetone	0 / 0	--	--	--	0 / 0	--	--	--	0 / 0	--	--	--	0 / 0	--	--	--	NA		NA	
Ethylbenzene	0 / 0	--	--	--	0 / 0	--	--	--	0 / 0	--	--	--	0 / 0	--	--	--	1.4	b	NA	
Naphthalene	0 / 0	--	--	--	0 / 0	--	--	--	0 / 0	--	--	--	0 / 0	--	--	--	0.16	a	2.1	a
Polychlorinated Biphenyls (PCBs)																				
Aroclor 1248	1 / 7	0.411	0.411	0.411	1 / 3	0.080	0.080	0.080	0 / 0	--	--	--	0 / 0	--	--	--	NA		NA	
Aroclor 1254	4 / 7	1.44	0.579	0.403	1 / 3	0.083	0.083	0.083	0 / 0	--	--	--	0 / 0	--	--	--	NA		NA	
Aroclor 1260	2 / 7	0.367	0.213	0.213	0 / 3	ND	ND	ND	0 / 0	--	--	--	0 / 0	--	--	--	NA		NA	
Total PCBs	4 / 7	**1.49**	**0.789**	**0.796**	1 / 3	**0.219**	**0.219**	**0.219**	0 / 0	--	--	--	0 / 0	--	--	--	0.023	a	0.18	a
Semi-Volatile Organic Compounds (SVOCs)																				
1,2-Dichlorobenzene	0 / 7	ND	ND	ND	0 / 3	ND	ND	ND	0 / 0	--	--	--	0 / 0	--	--	--	NA		0.013	b
bis(2-Ethylhexyl)phthalate	4 / 7	**6.37**	**3.85**	**4.31**	1 / 3	**30.1**	**30.1**	**30.1**	0 / 0	--	--	--	0 / 0	--	--	--	0.18216	b	2.64651	b
Carbazole	1 / 7	0.400	0.400	0.400	0 / 3	ND	ND	ND	0 / 0	--	--	--	0 / 0	--	--	--	NA		NA	
Dibenzofuran	1 / 7	0.727	0.727	0.727	0 / 3	ND	ND	ND	0 / 0	--	--	--	0 / 0	--	--	--	NA		NA	
Di-n-octylphthalate	0 / 7	ND	ND	ND	0 / 3	ND	ND	ND	0 / 0	--	--	--	0 / 0	--	--	--	NA		NA	
Hexachlorobutadiene	0 / 0	--	--	--	0 / 0	--	--	--	0 / 0	--	--	--	0 / 0	--	--	--	NA		NA	
Polycyclic Aromatic Hydrocarbons (PAHs)																				
2-Methylnaphthalene	2 / 7	**0.171**	**0.146**	**0.146**	1 / 3	**0.107**	**0.107**	**0.107**	0 / 0	--	--	--	0 / 0	--	--	--	0.07	a	0.67	a
Acenaphthene	2 / 7	**0.165**	**0.148**	**0.148**	1 / 3	**0.190**	**0.190**	**0.190**	0 / 0	--	--	--	0 / 0	--	--	--	0.016	a	0.5	a
Acenaphthylene	6 / 7	**0.496**	**0.241**	**0.201**	1 / 3	**0.258**	**0.258**	**0.258**	0 / 0	--	--	--	0 / 0	--	--	--	0.044	a	0.64	a
Anthracene	6 / 7	**0.625**	**0.390**	**0.406**	1 / 3	**0.703**	**0.703**	**0.703**	0 / 0	--	--	--	0 / 0	--	--	--	0.085	a	1.1	a
Benzo(a)anthracene	7 / 7	**1.15**	**0.606**	**0.640**	1 / 3	**0.906**	**0.906**	**0.906**	0 / 0	--	--	--	0 / 0	--	--	--	0.261	a	1.6	a
Benzo(a)pyrene	7 / 7	**1.50**	**0.685**	**0.738**	1 / 3	**0.982**	**0.982**	**0.982**	0 / 0	--	--	--	0 / 0	--	--	--	0.43	a	1.6	a
Benzo(b)fluoranthene	7 / 7	2.16	0.898	0.840	2 / 3	1.18	0.597	0.597	0 / 0	--	--	--	0 / 0	--	--	--	NA		1.8	b
Benzo(g,h,i)perylene	7 / 7	1.03	0.423	0.443	1 / 3	0.552	0.552	0.552	0 / 0	--	--	--	0 / 0	--	--	--	NA		NA	
Benzo(k)fluoranthene	6 / 7	0.858	0.372	0.351	1 / 3	0.437	0.437	0.437	0 / 0	--	--	--	0 / 0	--	--	--	NA		NA	
Chrysene	7 / 7	**1.47**	**0.719**	**0.670**	1 / 3	**0.946**	**0.946**	**0.946**	0 / 0	--	--	--	0 / 0	--	--	--	0.384	a	2.8	a
Dibenzo(a,h)Anthracene	6 / 7	**0.299**	**0.152**	**0.154**	1 / 3	**0.181**	**0.181**	**0.181**	0 / 0	--	--	--	0 / 0	--	--	--	0.063	a	0.26	a
Fluoranthene	7 / 7	**1.88**	**0.883**	**0.975**	2 / 3	**1.52**	**0.767**	**0.767**	0 / 0	--	--	--	0 / 0	--	--	--	0.6	a	5.1	a
Fluorene	4 / 7	**0.218**	**0.127**	**0.140**	1 / 3	**0.187**	**0.187**	**0.187**	0 / 0	--	--	--	0 / 0	--	--	--	0.019	a	0.54	a
Indeno(1,2,3-cd)Pyrene	7 / 7	1.16	0.485	0.532	1 / 3	0.641	0.641	0.641	0 / 0	--	--	--	0 / 0	--	--	--	NA		NA	
Naphthalene	5 / 7	**0.825**	**0.342**	**0.285**	1 / 3	**0.394**	**0.394**	**0.394**	0 / 0	--	--	--	0 / 0	--	--	--	0.16	a	2.1	a
Phenanthrene	7 / 7	**1.21**	**0.478**	**0.296**	1 / 3	**1.19**	**1.19**	**1.19**	0 / 0	--	--	--	0 / 0	--	--	--	0.24	a	1.5	a
Pyrene	7 / 7	**2.36**	**1.17**	**1.08**	2 / 3	**2.02**	**1.02**	**1.02**	0 / 0	--	--	--	0 / 0	--	--	--	0.665	a	2.6	a
Total PAHs	7 / 7	**17.5**	**7.73**	**7.20**	2 / 3	**12.4**	**6.22**	**6.22**	0 / 0	--	--	--	0 / 0	--	--	--	4.022	a	44.792	a
Extractable Petroleum Hydrocarbons																				
C11-C22 Aromatics1,2	6 / 7	262	139	121	1 / 3	66.9	66.9	66.9	0 / 0	--	--	--	0 / 0	--	--	--	NA		NA	
C19-C36 Aliphatics1	5 / 7	398	198	151	1 / 3	61.2	61.2	61.2	0 / 0	--	--	--	0 / 0	--	--	--	NA		NA	
C9-C18 Aliphatics1	3 / 7	71.9	60.2	54.6	0 / 3	ND	ND	ND	0 / 0	--	--	--	0 / 0	--	--	--	NA		NA	
Total EPH	6 / 7	678	334	279	1 / 3	128	128	128	0 / 0	--	--	--	0 / 0	--	--	--	NA		NA	
Total Metals																				
Antimony	3 / 24	2.60	1.93	1.80	1 / 13	1.50	1.50	1.50	0 / 7	ND	ND	ND	0 / 4	ND	ND	ND	NA		9.3	b
Arsenic	24 / 24	**68.3**	**23.7**	**20.9**	12 / 13	**31.0**	**8.58**	3.60	7 / 7	**33.8**	**8.47**	4.50	3 / 4	**42.5**	**16.4**	4.20	8.2	a	70	a
Barium	24 / 24	64.9	32.8	30.4	13 / 13	59.0	16.8	9.80	7 / 7	72.6	18.5	8.80	4 / 4	90.1	32.4	14.5	NA		48	b
Beryllium	24 / 24	0.730	0.309	0.265	13 / 13	0.600	0.237	0.220	7 / 7	0.630	0.274	0.240	4 / 4	0.440	0.318	0.320	NA		NA	
Cadmium	16 / 24	**3.38**	1.06	0.870	4 / 13	**1.75**	0.675	0.330	2 / 7	**2.36**	**1.32**	**1.32**	3 / 4	**3.74**	**1.46**	0.350	1.2	a	9.6	a
Chromium	24 / 24	**86.6**	29.8	20.0	13 / 13	61.6	14.9	10.6	7 / 7	75.7	20.2	10.2	4 / 4	**104**	35.9	14.7	81	a	370	a
Lead	24 / 24	**298**	**124**	**119**	6 / 13	**146**	**75.7**	**85.3**	4 / 7	**177**	**47.8**	5.60	2 / 4	**307**	**155**	**155**	47	a	218	a
Mercury	22 / 24	**1.10**	**0.541**	**0.485**	3 / 13	**1.38**	**0.751**	**0.816**	1 / 7	**1.73**	**1.73**	**1.73**	1 / 4	**2.44**	**2.44**	**2.44**	0.15	a	0.71	a
Nickel	24 / 24	**29.9**	11.0	9.35	13 / 13	19.2	7.30	6.40	7 / 7	20.0	8.54	7.10	4 / 4	15.4	9.68	8.65	21	a	52	a
Selenium	5 / 24	4.43	2.55	2.25	1 / 13	1.78	1.78	1.78	0 / 7	ND	ND	ND	1 / 4	3.12	3.12	3.12	NA		1	b
Silver	21 / 24	**2.83**	**1.07**	0.900	3 / 13	**1.38**	**1.10**	0.960	2 / 7	**1.53**	0.890	0.890	1 / 4	**2.08**	**2.08**	**2.08**	1	a	3.7	a
Vanadium	24 / 24	131	35.5	25.5	13 / 13	51.3	17.3	14.3	7 / 7	57.3	21.2	16.2	4 / 4	97.5	37.1	18.8	NA		57	b
Zinc	24 / 24	**1310**	**194**	133	13 / 13	**276**	57.5	19.8	7 / 7	**310**	61.5	21.2	4 / 4	**485**	138	24.7	150	a	410	a

Notes:
1. Results are presented in mg/kg unless otherwise noted.
2. "--" indicates that an analyte was not tested for. "ND" indicates that an analyte was tested for but not detected above the reporting limit.
   "NA" indicates that a benchmark value is not available
3. Only Analytes which were detected at least once are presented.
4. Shallow samples are those collected from the 0'-0.5' and 0.5'-2' depth intervals, and any other samples collected at a depth interval starting within 2' of the sediment surface
5. Marine sediment benchmarks are from the following sources:
   a. Effects Range - Low (ERL) and Effects Range - Median (ERM) Marine Sediment screening values from Long, et al., 1995.
   b. ERL and ERM equivalent Marine Sediment benchmark values from http://epa ERL and Er-M equivalent Marine Sediment benchmark values
6. Bolded values exceed the conservative ERL screening value.
7. Shaded values exceed the ERM benchmark value.

Table 8D
LOCAL CONDITIONS SEDIMENT SUMMARY STATISTICS

Wynn Resort Casino
Everett, Massachusetts

Analyte[2]	Local Conditions (Shallow)				Local Conditions (2'-4')				Local Conditions (4'-10')				Marine Sediment Benchmarks			
	Frequency of Detection	Maximum	Mean	Median	Frequency of Detection	Maximum	Mean	Median	Frequency of Detection	Maximum	Mean	Median	ERL		ERM	
Total Organic Carbon	14 / 14	89400	66914	63500	1 / 1	35900	35900	35900	3 / 3	33400	14863	7310	NA		NA	
Polychlorinated Biphenyls (PCBs)																
Aroclor 1248	14 / 14	6.83	0.860	0.338	1 / 1	4.83	4.83	4.83	1 / 3	0.067	0.067	0.067	NA		NA	
Aroclor 1254	14 / 14	8.39	1.25	0.635	1 / 1	4.52	4.52	4.52	2 / 3	0.234	0.121	0.121	NA		NA	
Aroclor 1260	13 / 14	0.850	0.330	0.299	0 / 1	ND	ND	ND	1 / 3	0.158	0.158	0.158	NA		NA	
Total PCBs	14 / 14	**15.2**	**2.41**	**1.28**	1 / 1	**9.35**	**9.35**	**9.35**	2 / 3	**0.459**	**0.234**	**0.234**	0.023	a	0.18	a
Semi-Volatile Organic Compounds (SVOCs)																
1,2-Dichlorobenzene	0 / 14	ND	ND	ND	0 / 1	ND	ND	ND	0 / 3	ND	ND	ND	NA		0.013	b
bis(2-Ethylhexyl)phthalate	14 / 14	**278**	**24.0**	**2.49**	1 / 1	**250**	**250**	**250**	2 / 3	**35.7**	**18.1**	**18.1**	0.18216	b	2.64651	b
Dibenzofuran	0 / 14	ND	ND	ND	0 / 1	ND	ND	ND	1 / 3	0.861	0.861	0.861	NA		NA	
Di-n-octylphthalate	1 / 14	25.1	25.1	25.1	1 / 1	43.5	43.5	43.5	1 / 3	1.26	1.26	1.26	NA		NA	
Hexachlorobutadiene	0 / 14	ND	ND	ND	0 / 1	ND	ND	ND	0 / 3	ND	ND	ND	NA		NA	
Phenol	0 / 14	ND	ND	ND	0 / 1	ND	ND	ND	1 / 3	0.307	0.307	0.307	NA		0.13	b
Polycyclic Aromatic Hydrocarbons (PAHs)																
2-Methylnaphthalene	17 / 17	**0.447**	**0.122**	**0.080**	2 / 5	**0.758**	**0.495**	**0.495**	3 / 8	**3.48**	**1.54**	**0.805**	0.07	a	0.67	a
Acenaphthene	17 / 17	**1.56**	**0.184**	**0.084**	2 / 5	**2.27**	**1.22**	**1.22**	3 / 8	**27.0**	**10.0**	**2.31**	0.016	a	0.5	a
Acenaphthylene	17 / 17	**1.17**	**0.460**	**0.341**	4 / 5	**1.15**	**0.460**	**0.319**	5 / 8	**101**	**20.7**	**0.800**	0.044	a	0.64	a
Anthracene	17 / 17	**6.84**	**0.935**	**0.419**	4 / 5	**5.61**	**1.74**	**0.649**	5 / 8	**177**	**36.6**	**1.30**	0.085	a	1.1	a
Benzo(a)anthracene	17 / 17	**11.8**	**1.80**	**1.07**	4 / 5	**10.8**	**3.60**	**1.75**	6 / 8	**129**	**22.4**	**0.669**	0.261	a	1.6	a
Benzo(a)pyrene	17 / 17	**11.5**	**2.06**	**1.45**	4 / 5	**7.84**	**3.01**	**2.05**	6 / 8	**130**	**22.6**	**0.586**	0.43	a	1.6	a
Benzo(b)fluoranthene	17 / 17	13.7	2.78	2.27	4 / 5	10.6	3.81	2.25	6 / 8	147	25.7	0.779	NA		1.8	b
Benzo(g,h,i)perylene	17 / 17	7.45	1.16	0.776	4 / 5	4.33	1.47	0.759	6 / 8	87.8	15.3	0.217	NA		NA	
Benzo(k)fluoranthene	17 / 17	1.61	0.660	0.596	4 / 5	3.73	1.17	0.450	5 / 8	40.1	8.47	0.482	NA		NA	
Chrysene	17 / 17	**11.4**	**1.94**	**1.43**	4 / 5	**10.8**	**3.67**	**1.90**	6 / 8	**104**	**18.3**	**0.713**	0.384	a	2.8	a
Dibenzo(a,h)Anthracene	17 / 17	**1.74**	**0.333**	**0.248**	3 / 5	**1.23**	**0.601**	**0.521**	4 / 8	**23.0**	**5.96**	**0.405**	0.063	a	0.26	a
Fluoranthene	17 / 17	**33.8**	**4.19**	**2.18**	4 / 5	**31.9**	**9.55**	**3.06**	6 / 8	**411**	**71.2**	**1.28**	0.6	a	5.1	a
Fluorene	17 / 17	**2.87**	**0.331**	**0.127**	3 / 5	**2.97**	**1.10**	**0.300**	5 / 8	**80.1**	**16.5**	**0.248**	0.019	a	0.54	a
Indeno(1,2,3-cd)Pyrene	17 / 17	8.75	1.40	0.990	4 / 5	5.51	1.86	0.932	6 / 8	93.9	16.4	0.258	NA		NA	
Naphthalene	17 / 17	**2.24**	**0.595**	**0.490**	4 / 5	**1.32**	**0.524**	**0.360**	5 / 8	**20.7**	**5.80**	**3.34**	0.16	a	2.1	a
Phenanthrene	17 / 17	**28.3**	**2.76**	**0.953**	4 / 5	**24.9**	**6.63**	**0.795**	5 / 8	**415**	**85.2**	**2.27**	0.24	a	1.5	a
Pyrene	17 / 17	**29.8**	**4.06**	**2.33**	5 / 5	**23.8**	**6.15**	0.481	6 / 8	**322**	**56.1**	**1.45**	0.665	a	2.6	a
Total PAHs	17 / 17	**174**	**25.8**	**16.1**	5 / 5	**149**	**37.8**	2.92	6 / 8	**2312**	**402**	**12.0**	4.022	a	44.792	a
Classical Chemisty																
Corrosivity (pH)	0 / 0	--	--	--	0 / 0	--	--	--	0 / 0	--	--	--	NA		NA	
Eh (ORP)	0 / 0	--	--	--	0 / 0	--	--	--	0 / 0	--	--	--	NA		NA	
Percent Water	0 / 0	--	--	--	0 / 0	--	--	--	0 / 0	--	--	--	NA		NA	
Reactive Sulfide	0 / 0	--	--	--	0 / 0	--	--	--	0 / 0	--	--	--	NA		NA	
Extractable Petroleum Hydrocarbons																
C11-C22 Aromatics1,2	14 / 14	434	105	69.6	1 / 1	631	631	631	1 / 3	371	371	371	NA		NA	
C19-C36 Aliphatics1	14 / 14	277	147	135	1 / 1	474	474	474	1 / 3	275	275	275	NA		NA	
C9-C18 Aliphatics1	3 / 14	145	72.0	36.2	1 / 1	293	293	293	1 / 3	139	139	139	NA		NA	
Total EPH	14 / 14	845	268	198	1 / 1	1398	1398	1398	1 / 3	785	785	785	NA		NA	
Total Metals																
Antimony	6 / 17	2.01	1.05	0.790	0 / 5	ND	ND	ND	0 / 8	ND	ND	ND	NA		9.3	b
Arsenic	17 / 17	**35.5**	**21.5**	**21.0**	5 / 5	**29.8**	**17.5**	**19.9**	8 / 8	**33.6**	**14.9**	7.82	8.2	a	70	a
Barium	17 / 17	201	75.4	64.8	5 / 5	83.5	44.9	36.7	8 / 8	97.7	50.4	46.3	NA		48	b
Beryllium	17 / 17	0.870	0.581	0.570	5 / 5	0.840	0.476	0.400	8 / 8	0.950	0.555	0.545	NA		NA	
Cadmium	17 / 17	**8.51**	**2.10**	**1.26**	3 / 5	**2.32**	**1.48**	**1.65**	3 / 8	**4.50**	**3.27**	**3.70**	1.2	a	9.6	a
Chromium	17 / 17	**170**	**85.1**	76.3	5 / 5	**92.3**	53.7	41.1	8 / 8	**86.5**	35.9	29.3	81	a	370	a
Lead	17 / 17	**770**	**269**	**211**	5 / 5	**258**	**116**	**94.9**	7 / 8	**336**	**90.5**	10.4	47	a	218	a
Mercury	17 / 17	**1.08**	**0.408**	**0.256**	4 / 5	**0.375**	**0.264**	**0.291**	2 / 8	**0.455**	**0.295**	**0.295**	0.15	a	0.71	a
Nickel	17 / 17	**67.4**	**28.7**	**25.1**	5 / 5	**28.9**	18.4	13.9	8 / 8	**30.9**	17.2	17.2	21	a	52	a
Selenium	0 / 17	ND	ND	ND	0 / 5	ND	ND	ND	2 / 8	3.63	2.77	2.77	NA		1	b
Silver	16 / 17	**3.09**	**1.44**	**1.22**	2 / 5	**1.20**	0.855	0.855	1 / 8	0.610	0.610	0.610	1	a	3.7	a
Thallium	0 / 17	ND	ND	ND	0 / 5	ND	ND	ND	0 / 8	ND	ND	ND	NA		NA	
Vanadium	17 / 17	484	102	69.1	5 / 5	131	57.2	38.3	8 / 8	74.3	38.1	37.7	NA		57	b
Zinc	17 / 17	**618**	**360**	**334**	5 / 5	**354**	**189**	**165**	8 / 8	**309**	111	45.8	150	a	410	a

Notes:
1. Results are presented in mg/kg unless otherwise noted.
2. "--" indicates that an analyte was not tested for. "ND" indicates that an analyte was tested for but not detected above the reporting limit.
"NA" indicates that a benchmark value is not available
3. Only Analytes which were detected at least once are presented.
4. Shallow samples are those collected from the 0'-0.5' and 0.5'-2' depth intervals, and any other samples collected at a depth interval starting within 2' of the sediment surface
5. Marine sediment benchmarks are from the following sources:
a. Effects Range - Low (ERL) and Effects Range - Median (ERM) Marine Sediment screening values from Long, et al., 1995.
b. ERL and ERMM equivalent Marine Sediment benchmark values from http://eț ERL and Er-M equivalent Marine Sediment benchmark values
6. Bolded values exceed the conservative ERL screening value.
7. Shaded values exceed the ERM benchmark value.

FIGURES



PROJ. MGR.: DEL
DESIGNED BY: DEL
REVIEWED BY: DEL
OPERATOR: SMW

DATE: 12-30-2015

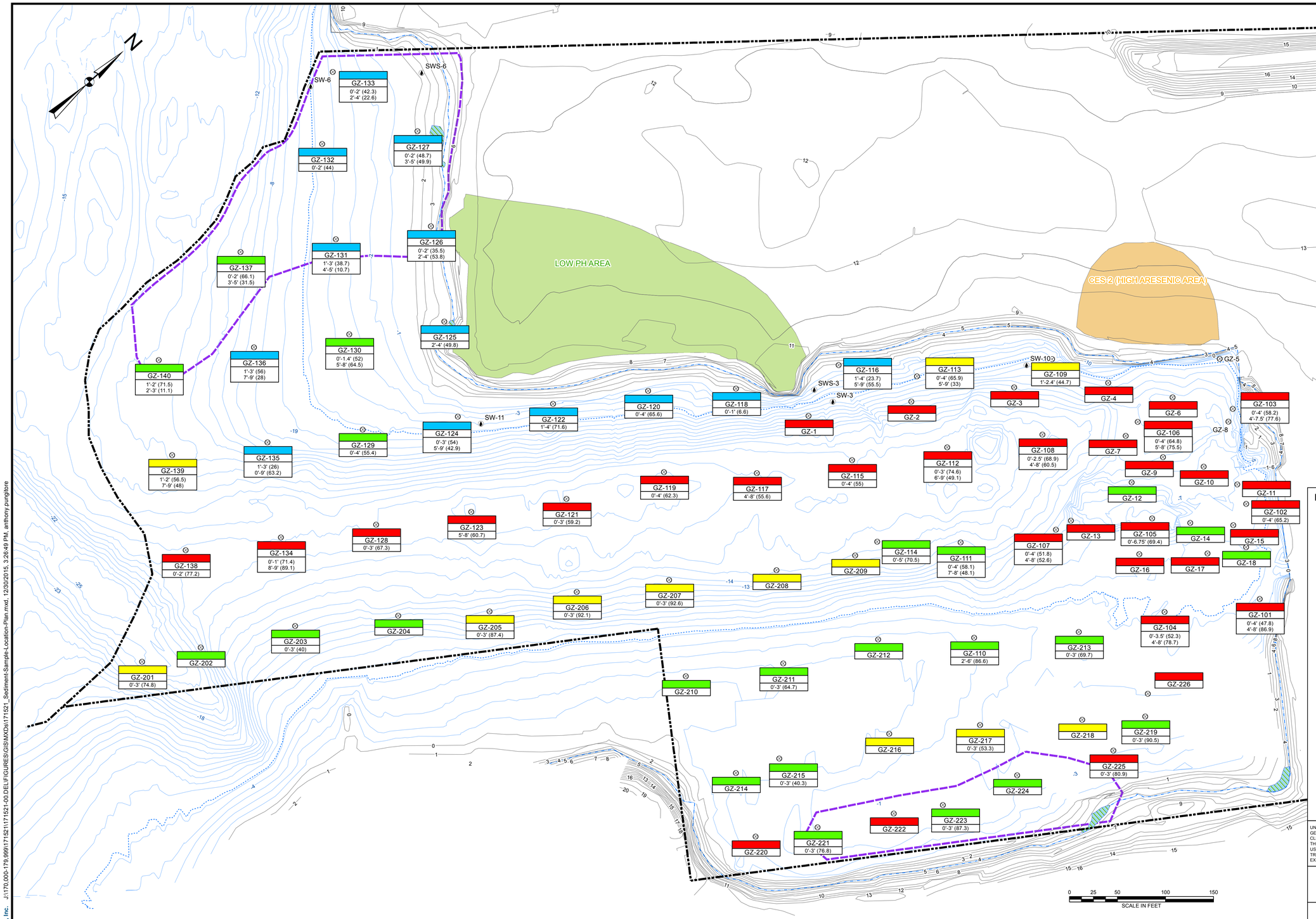
LOCUS PLAN

FORMER EVERETT STAGING YARD
EVERETT, MASSACHUSETTS

JOB NO.
01.0171521.10

FIGURE NO.
1

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LEGEND

- SURFACE WATER (SW), SURFACE WATER SEEP (SWS)
- SEDIMENT CORING LOCATION
- LITHOLOGY INDICATOR
  SAMPLE ID
  PERCENT PASSING NO. 200 SIEVE
  WITH CORRESPONDING DEPTHS
  (Example: GZ-101, 0'-4' (47.8))
- APPROXIMATE PARCEL BOUNDARY
- APPROXIMATE LIMITS OF LOW PENETRATION DEPTHS AND SHALLOW REFUSALS
- SURFICIAL CONTOUR
- BATHYMETRIC CONTOUR
- MEAN ANNUAL HIGH WATER
- MEAN ANNUAL LOW WATER
- CES-2 (HIGH ARSENIC AREA)
- LOW PH AREA
- SALT MARSH

LITHOLOGY KEY

CLAYEY SILT SILT SAND	ORGANIC CLAYEY SILT SAND	CLAYEY SILT CLAY	SAND SAND & SILT

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SOURCE

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2) THE LOCATION AND ELEVATIONS OF THE CORINGS, SAMPLING LOCATIONS, SELECTED SITE FEATURES AND EXPLORATIONS WERE APPROXIMATELY DETERMINED BY GPS. THIS DATA SHOULD BE CONSIDERED ACCURATE ONLY TO THE DEGREE IMPLIED BY THE METHOD USED.

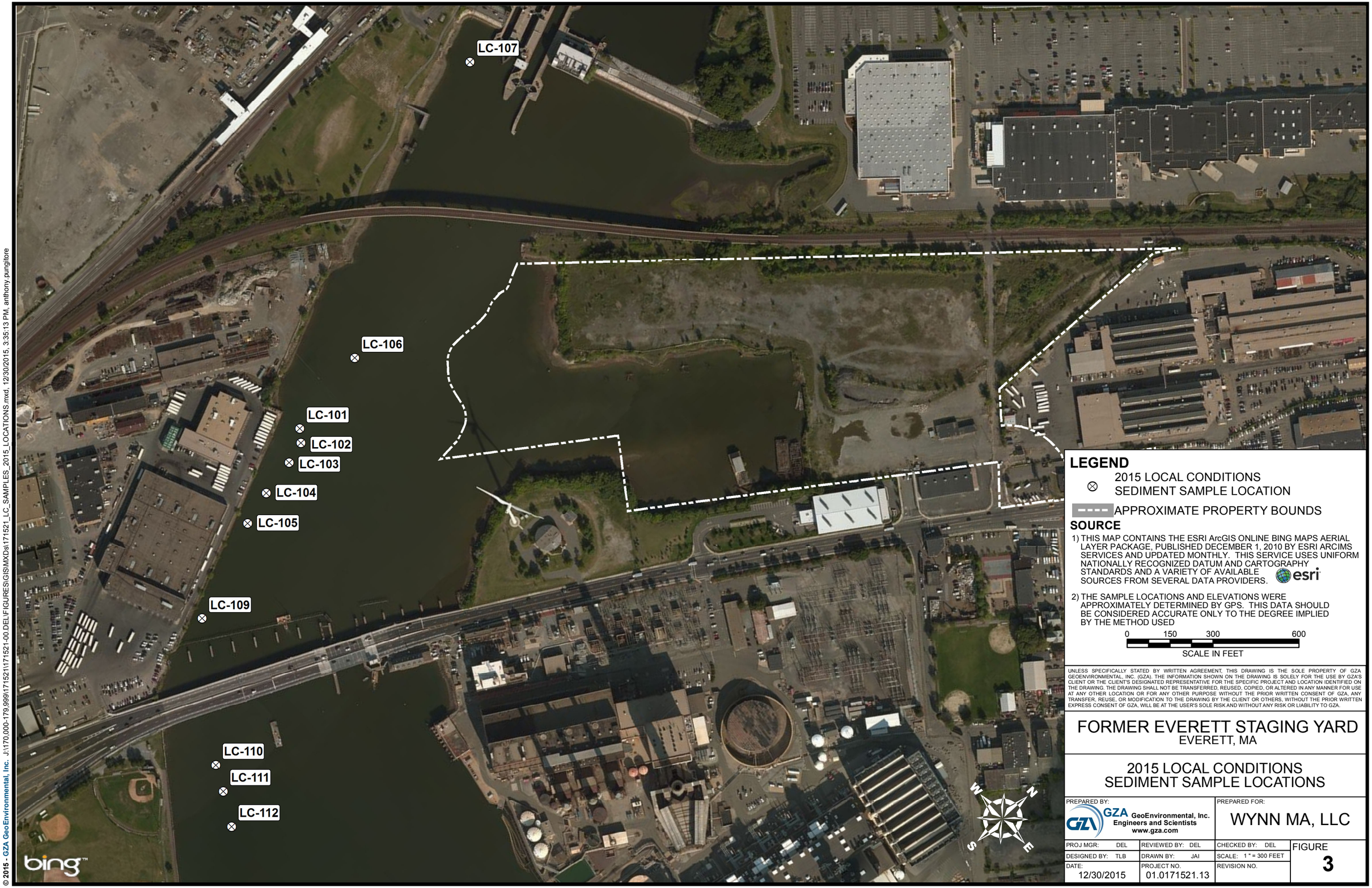
FORMER EVERETT STAGING YARD
EVERETT, MA

WATER-SIDE SAMPLE LOCATION PLAN

PREPARED BY:
GZA GeoEnvironmental, Inc.
Engineers and Scientists
www.gza.com

PROJ MGR: DEL	REVIEWED BY: DEL	CHECKED BY: DEL	FIGURE	
DESIGNED BY: TLB	DRAWN BY: SMW	SCALE: 1 INCH = 50 FT		2
DATE: 12-30-2015	PROJECT NO. 01.0171521.13	REVISION NO.		

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J:\170,000-179,999\171521\171521-00.DEL\FIGURES\GIS\MXDs\171521_Sediment-Sample-Location-Plan.mxd, 12/30/2015, 3:28:49 PM, anthony pungliore



LEGEND

⊗ 2015 LOCAL CONDITIONS SEDIMENT SAMPLE LOCATION

APPROXIMATE PROPERTY BOUNDS

SOURCE

1) THIS MAP CONTAINS THE ESRI ArcGIS ONLINE BING MAPS AERIAL LAYER PACKAGE, PUBLISHED DECEMBER 1, 2010 BY ESRI ARCIMS SERVICES AND UPDATED MONTHLY. THIS SERVICE USES UNIFORM NATIONALLY RECOGNIZED DATUM AND CARTOGRAPHY STANDARDS AND A VARIETY OF AVAILABLE SOURCES FROM SEVERAL DATA PROVIDERS. esri

2) THE SAMPLE LOCATIONS AND ELEVATIONS WERE APPROXIMATELY DETERMINED BY GPS. THIS DATA SHOULD BE CONSIDERED ACCURATE ONLY TO THE DEGREE IMPLIED BY THE METHOD USED

0 150 300 600

SCALE IN FEET

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FORMER EVERETT STAGING YARD
EVERETT, MA

2015 LOCAL CONDITIONS SEDIMENT SAMPLE LOCATIONS

PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		PREPARED FOR: WYNN MA, LLC	
PROJ MGR: DEL	REVIEWED BY: DEL	CHECKED BY: DEL	FIGURE 3
DESIGNED BY: TLB	DRAWN BY: JAI	SCALE: 1 " = 300 FEET	
DATE: 12/30/2015	PROJECT NO. 01.0171521.13	REVISION NO.	

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ARSENIC CONCENTRATIONS IN SEDIMENT (mg/kg)

SOUTH WEST SHOAL / OFF-SITE WEST

OFF-SITE EAST

GZ-133: 30.3 / 52.8 / 25.6 / NA / NA
GZ-132: 21.5 / 68.3 / NA / NA / NA
GZ-127: 24.7 / 24.7 / 8 / 5.9 / NA
GZ-126: 24.5 / 13.6 / 1.2 / NA / NA
GZ-125: 5.3 / NA / 1.6 / 2 / 2.5
GZ-131: 13.8 / 23.4 / 3.5 / 4.5 / NA
GZ-130: 4.2 / NA / 3.1 / 2.4 / NA
GZ-137: 17.9 / NA / 15.4 / 7.2 / NA
GZ-136: 34.6 / 27.9 / 5.1 / 3.9 / 4.2
GZ-140: 11.3 / 28.1 / NA / NA / NA
GZ-139: 11 / NA / 2 / NA / 1.4
GZ-135: 7.4 / NA / 3.5 / 5.5 / NA
GZ-129: 11.6 / NA / 3.7 / NA / NA
GZ-124: 20.2 / NA / 1.8 / NA / NA
GZ-122: 14.2 / 51.5 / 6.6 / NA / NA
GZ-120: 122 / NA / 93.7 / NA / NA
GZ-118: 155 / 106 / NA / NA / NA
GZ-116: 75.7 / 29.2 / 26.5 / 4 / 6.9
GZ-113: 39.7 / NA / 46.4 / 78.3 / NA
GZ-109: 75.7 / 29.2 / NA / NA / NA
GZ-5: 10 / NA / NA / NA / NA
GZ-103: NA / NA / 93.8 / 26.2 / 59.4
GZ-102: NA / NA / 82.9 / 37.6 / 78.6
GZ-101: 48.2 / NA / 77.3 / 65.4 / 30.3
GZ-119: 33 / NA / 93.1 / NA / NA
GZ-117: 38.6 / NA / 153 / 112 / NA
GZ-115: 45.7 / NA / 323 / 204 / NA
GZ-112: 54.2 / NA / 94.8 / NA / 87.3
GZ-108: 51.5 / NA / 96.9 / 89.7 / 43.5
GZ-106: NA / NA / 67.5 / 108 / 39.5
GZ-121: 27.3 / NA / 49.1 / 31.3 / NA
GZ-123: 26.8 / NA / 59 / 39.9 / NA
GZ-128: 33.2 / NA / 54.4 / 30.4 / NA
GZ-134: 30.7 / 35.5 / NA / 53.4 / 31.2
GZ-138: 30.3 / 28.6 / 31 / 33.8 / 42.5
GZ-204: 29.5 / NA / 61.4 / NA / 16.5
GZ-203: 25.5 / 36.5 / NA / 18.8 / NA
GZ-205: 25.8 / 35.7 / 31.2 / NA / 5.22
GZ-206: 34.2 / 45.8 / NA / 18.8 / NA
GZ-207: 37.6 / 44.9 / NA / 77.6 / 6.18
GZ-208: 34.3 / NA / NA / 36.1 / NA
GZ-209: 41.4 / NA / 132 / 2.2 / NA
GZ-114: 38.6 / NA / 62.2 / NA / 3.54
GZ-111: 28.8 / NA / 77.6 / NA / 9.5
GZ-107: 33.4 / NA / 137 / NA / NA
GZ-105: NA / NA / 139 / 93 / 205
GZ-104: 125 / NA / 78.7 / 1.9 / 2.9
GZ-101: 48.2 / NA / 77.3 / 65.4 / 30.3
GZ-202: 29.9 / NA / 15.3 / NA / NA
GZ-201: 17 / 20.4 / NA / 14 / NA
GZ-210: 9.98 / 6.04 / 4.53 / NA / NA
GZ-211: 22.7 / 10.8 / NA / 5.95 / NA
GZ-212: 17.2 / 9.78 / NA / NA / NA
GZ-110: 28.5 / NA / 2.5 / NA / NA
GZ-213: 54.1 / 57.9 / NA / 5.95 / NA
GZ-226: 32.2 / 91.8 / <1.86 / NA / NA
GZ-219: 7.07 / 66.3 / NA / 3.96 / NA
GZ-218: 58.2 / 183 / NA / 8.14 / NA
GZ-225: 41.1 / 27.8 / NA / 51.9 / 3.46
GZ-224: 70.7 / 159 / NA / NA / NA
GZ-217: 184 / 92.1 / NA / NA / 5.33
GZ-216: 52.2 / NA / 11.5 / 5.37 / NA
GZ-214: 43.7 / NA / <2.02 / <2.01 / 3.31
GZ-215: 45.8 / 8.17 / NA / 2.73 / NA
GZ-220: 45.8 / 209 / 3.43 / NA / NA
GZ-221: 37.9 / 135 / NA / <2.00 / NA
GZ-222: 28 / 48.4 / 32.1 / NA / NA
GZ-223: 35.6 / 137 / 107 / NA / NA

LEGEND

- GZ-101 ⊗ 2013 AND 2015 SEDIMENT CORE LOCATIONS FOR SUPPLEMENTAL PHASE II
- GZ-1 ⊗ 2013 SEDIMENT CORE LOCATIONS COMPOSITE SAMPLES FOR DREDGE PERMITS
- APPROXIMATE PARCEL BOUNDARY
- WATER-SIDE DISPOSAL SITE BOUNDARY
- BATHYMETRIC CONTOUR
- SURFICIAL CONTOUR
- APPROXIMATE LIMITS OF DREDGE AREA
- SALT MARSH

SAMPLE DEPTH (FEET)

48.2	0.0-0.5'
NA	0.5-2.0'
77.3	2.0-4.0'
65.4	4.0-6.0'
30.3	6.0' OR GREATER

CONCENTRATION RANGE (mg/kg)

NA	NOT ANALYZED
	NON DETECT
	0-8.2 ≤ ER-L
	8.2-35 ≤ ER-M
	35-70 ≤ ER-M
	70-140 ERM X 2
	140 OR GREATER

BLUE OUTLINE INDICATES SURFICIAL SAMPLE EXCEEDING THE ARSENIC CLEANUP GOAL OF 38.6 MG/KG

0 25 50 100 150
SCALE IN FEET

SOURCE

1) THE BASE MAP WAS DEVELOPED FROM PLANS OR ELECTRONIC FILES PROVIDED BY "FELDMAN LAND SURVEYORS" ENTITLED "EXISTING CONDITIONS PLAN" DATED: 02-20-2015, ORIGINAL SCALE: 1"=20', DRAWING NO. 14517, CAD FILE: 14517-EX-DRAFT-03-20-15.DWG.

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FORMER EVERETT STAGING YARD
EVERETT, MA

ARSENIC CONCENTRATIONS IN SEDIMENT

PREPARED BY:
GZA GeoEnvironmental, Inc.
Engineers and Scientists
www.gza.com

PROJ MGR: DEL	REVIEWED BY: DEL	CHECKED BY: DEL	FIGURE 4A
DESIGNED BY: TLB	DRAWN BY: SMW	SCALE: 1 INCH = 50 FT	
DATE: 12-30-2015	PROJECT NO. 01.0171521.13	REVISION NO.	

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SOUTH WEST SHOAL / OFF-SITE WEST

OFF-SITE EAST

LEAD CONCENTRATIONS IN SEDIMENT (mg/kg)

LEGEND

- GZ-101 — 2013 AND 2015 SEDIMENT CORE LOCATIONS FOR SUPPLEMENTAL PHASE II
- GZ-1 — 2013 SEDIMENT CORE LOCATIONS COMPOSITE SAMPLES FOR DREDGE PERMITS
- APPROXIMATE PARCEL BOUNDARY
- WATER-SIDE DISPOSAL SITE BOUNDARY
- BATHYMETRIC CONTOUR
- SURFICIAL CONTOUR
- APPROXIMATE LIMITS OF DREDGE AREA
- SALT MARSH

SAMPLE DEPTH (FEET)

260	0.0-0.5'
	0.5-2.0'
435	2.0-4.0'
257	4.0-6.0'
770	6.0' OR GREATER

BLUE OUTLINE INDICATES SURFICIAL SAMPLE EXCEEDING THE LEAD CLEANUP GOAL OF 250 MG/KG

CONCENTRATION RANGE (mg/kg)

NA	NOT ANALYZED
	NON DETECT
	0-47 ≤ ER-L
	47-132 1/2 ER-M
	132-218 ≤ ER-M
	218-436 2 X ER-M
	436 OR GREATER

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0 25 50 100 150
SCALE IN FEET

SOURCE

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FORMER EVERETT STAGING YARD
EVERETT, MA

LEAD CONCENTRATIONS IN SEDIMENT

PREPARED BY:
GZA GeoEnvironmental, Inc.
Engineers and Scientists
www.gza.com

PROJ MGR: DEL	REVIEWED BY: DEL	CHECKED BY: DEL	FIGURE	
DESIGNED BY: TLB	DRAWN BY: SMW	SCALE: 1 INCH = 50 FT		4B
DATE: 12-30-2015	PROJECT NO. 01.0171521.13	REVISION NO.		

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SOUTH WEST SHOAL / OFF-SITE WEST

OFF-SITE EAST

MERCURY CONCENTRATIONS IN SEDIMENT (mg/kg)

SCALE IN FEET: 0, 25, 50, 100, 150

LEGEND

- GZ-101 — 2013 AND 2015 SEDIMENT CORE LOCATIONS FOR SUPPLEMENTAL PHASE II
- GZ-1 — 2013 SEDIMENT CORE LOCATIONS COMPOSITE SAMPLES FOR DREDGE PERMITS
- APPROXIMATE PARCEL BOUNDARY
- WATER-SIDE DISPOSAL SITE BOUNDARY
- BATHYMETRIC CONTOUR
- SURFICIAL CONTOUR
- APPROXIMATE LIMITS OF DREDGE AREA
- SALT MARSH

SAMPLE DEPTH (FEET)

1'-2'	0.0-0.5'
	0.5-2.0'
4.00	2.0-4.0'
2.93	4.0-6.0'
9.23	6.0' OR GREATER

CONCENTRATION RANGE (mg/kg)

NA	NOT ANALYZED
	NON DETECT
	0-0.15 ≤ ER-L
	0.15-0.71 ≤ ER-M
	0.71-1.4 2 X ER-M
	1.4-2.1 3 X ER-M
	2.1 OR GREATER

BLUE OUTLINE INDICATES SURFICIAL SAMPLE EXCEEDING THE MERCURY CLEANUP GOAL OF 1.03 MG/KG

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FORMER EVERETT STAGING YARD
EVERETT, MA

MERCURY CONCENTRATIONS IN SEDIMENT

SOURCE

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PREPARED BY:
GZA GeoEnvironmental, Inc.
Engineers and Scientists
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PROJ MGR: DEL	REVIEWED BY: DEL	CHECKED BY: DEL	FIGURE 4C
DESIGNED BY: TLB	DRAWN BY: SMW	SCALE: 1 INCH = 50 FT	
DATE: 12-30-2015	PROJECT NO. 01.0171521.13	REVISION NO.	

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SOUTH WEST SHOAL / OFF-SITE WEST

OFF-SITE EAST

Bis (2-ETHYLHEXYL) PHTHALATE CONCENTRATIONS IN SEDIMENT (mg/kg)

SCALE IN FEET: 0, 25, 50, 100, 150

LEGEND

- GZ-101 — 2013 AND 2015 SEDIMENT CORE LOCATIONS FOR SUPPLEMENTAL PHASE II
- GZ-1 — 2013 SEDIMENT CORE LOCATIONS COMPOSITE SAMPLES FOR DREDGE PERMITS
- APPROXIMATE PARCEL BOUNDARY
- WATER-SIDE DISPOSAL SITE BOUNDARY
- BATHYMETRIC CONTOUR
- SURFICIAL CONTOUR
- APPROXIMATE LIMITS OF DREDGE AREA
- SALT MARSH

SAMPLE DEPTH (FEET)

7	0.0-0.5'
NA	0.5-2.0'
357	2.0-4.0'
NA	4.0-6.0'
NA	6.0' OR GREATER
NA	NOT ANALYZED

CONCENTRATION RANGE (PPM)

NA	NOT ANALYZED
	NON DETECT
	0-2.65
	2.65-10
	10-100
	100-1000
	1000 OR GREATER

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FORMER EVERETT STAGING YARD
EVERETT, MA

Bis(2-ETHYLHEXYL) PHTHALATE CONCENTRATIONS IN SEDIMENT

SOURCE

1) THE BASE MAP WAS DEVELOPED FROM PLANS OR ELECTRONIC FILES PROVIDED BY "FELDMAN LAND SURVEYORS" ENTITLED "EXISTING CONDITIONS PLAN" DATED: 02-20-2015, ORIGINAL SCALE: 1"=20', DRAWING NO. 14517, CAD FILE: 14517-EX-DRAFT-03-20-15.DWG.

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PREPARED BY:
GZA GeoEnvironmental, Inc.
Engineers and Scientists
www.gza.com

PROJ MGR: DEL	REVIEWED BY: DEL	CHECKED BY: DEL		FIGURE
DESIGNED BY: TLB	DRAWN BY: SMW	SCALE: 1 INCH = 50 FT		4D
DATE: 12-30-2015	PROJECT NO. 01.0171521.13	REVISION NO.		

© 2015 - GZA GeoEnvironmental, Inc. J:\170,000-179,999\171521\171521-00.DEL\FIGURES\GIS\MXD\a171521_Sediment-Contamination-PCB.mxd, 12/30/2015, 3:58:19 PM, anthony.purgiotore

PCB CONCENTRATIONS IN SEDIMENT (mg/kg)

SOUTH WEST SHOAL / OFF-SITE WEST

OFF-SITE EAST

GZ-133 GZ-132 GZ-127 GZ-126 GZ-131 GZ-137 GZ-125 GZ-130 GZ-136 GZ-140 GZ-122 GZ-120 GZ-118 GZ-116 GZ-113 GZ-109 GZ-5 GZ-4 GZ-3 GZ-2 GZ-1 GZ-6 GZ-103 GZ-8 GZ-106 GZ-108 GZ-7 GZ-9 GZ-10 GZ-11 GZ-102 GZ-12 GZ-105 GZ-14 GZ-15 GZ-13 GZ-107 GZ-16 GZ-17 GZ-18 GZ-101 GZ-104 GZ-213 GZ-110 GZ-226 GZ-219 GZ-218 GZ-225 GZ-217 GZ-224 GZ-216 GZ-212 GZ-211 GZ-210 GZ-215 GZ-214 GZ-220 GZ-221 GZ-222 GZ-223 GZ-207 GZ-206 GZ-208 GZ-209 GZ-114 GZ-111 GZ-112 GZ-115 GZ-119 GZ-117 GZ-121 GZ-123 GZ-128 GZ-134 GZ-138 GZ-203 GZ-204 GZ-205 GZ-202 GZ-201 GZ-139 GZ-135 GZ-129 GZ-124

0 25 50 100 150
SCALE IN FEET

LEGEND

- GZ-101 — 2013 AND 2015 SEDIMENT CORE LOCATIONS FOR SUPPLEMENTAL PHASE II
- GZ-1 — 2013 SEDIMENT CORE LOCATIONS COMPOSITE SAMPLES FOR DREDGE PERMITS
- APPROXIMATE PARCEL BOUNDARY
- WATER-SIDE DISPOSAL SITE BOUNDARY
- BATHYMETRIC CONTOUR
- SURFICIAL CONTOUR
- APPROXIMATE LIMITS OF DREDGE AREA
- SALT MARSH

SAMPLE DEPTH (FEET)

3.278	0.0-0.5'
NA	0.5-2.0'
6.56	2.0-4.0'
NA	4.0-6.0'
NA	6.0' OR GREATER

CONCENTRATION RANGE (PPM)

NA	NOT ANALYZED
	0-0.18 ≤ ER-L
	0.18-1
	1-10
	10-50
	50 OR GREATER

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FORMER EVERETT STAGING YARD
EVERETT, MA

PCB CONCENTRATIONS IN SEDIMENT

SOURCE

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PREPARED BY:
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Engineers and Scientists
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PROJ MGR: DEL	REVIEWED BY: DEL	CHECKED BY: DEL	FIGURE	
DESIGNED BY: TLB	DRAWN BY: SMW	SCALE: 1 INCH = 50 FT		4E
DATE: 12-30-2015	PROJECT NO. 01.0171521.13	REVISION NO.		

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J:\170,000-179,999\171521\171521-00.DEL\FIGURES\GIS\MXD\a171521_Sediment-Contamination-EPH.mxd, 12/30/2015, 4:04:44 PM, anthony purgiotore

SOUTH WEST SHOAL / OFF-SITE WEST

OFF-SITE EAST

GZ-133 GZ-127 GZ-132 GZ-126 GZ-131 GZ-137 GZ-125 GZ-130 GZ-136 GZ-140 GZ-122 GZ-120 GZ-118 GZ-116 GZ-109 GZ-5 GZ-124 GZ-1 GZ-113 GZ-3 GZ-4 GZ-6 GZ-103 GZ-129 GZ-2 GZ-106 GZ-8 GZ-135 GZ-139 GZ-108 GZ-7 GZ-9 GZ-10 GZ-11 GZ-119 GZ-117 GZ-115 GZ-112 GZ-102 GZ-121 GZ-123 GZ-12 GZ-105 GZ-14 GZ-15 GZ-128 GZ-13 GZ-107 GZ-16 GZ-17 GZ-18 GZ-134 GZ-138 GZ-207 GZ-208 GZ-209 GZ-114 GZ-111 GZ-101 GZ-206 GZ-104 GZ-203 GZ-204 GZ-205 GZ-213 GZ-202 GZ-201 GZ-211 GZ-212 GZ-110 GZ-210 GZ-226 GZ-217 GZ-218 GZ-219 GZ-216 GZ-225 GZ-215 GZ-224 GZ-214 GZ-223 GZ-222 GZ-221 GZ-220

EPH CONCENTRATIONS IN SEDIMENT (mg/kg)

0 25 50 100 150
SCALE IN FEET

LEGEND

- GZ-101 — 2013 AND 2015 SEDIMENT CORE LOCATIONS FOR SUPPLEMENTAL PHASE II
- GZ-1 — 2013 SEDIMENT CORE LOCATIONS COMPOSITE SAMPLES FOR DREDGE PERMITS
- APPROXIMATE PARCEL BOUNDARY
- WATER-SIDE DISPOSAL SITE BOUNDARY
- BATHYMETRIC CONTOUR
- SURFICIAL CONTOUR
- APPROXIMATE LIMITS OF DREDGE AREA
- SALT MARSH

SAMPLE DEPTH (FEET)

1274	0.0-0.5'
NA	0.5-2.0'
2386	2.0-4.0'
NA	4.0-6.0'
NA	6.0' OR GREATER

CONCENTRATION RANGE (mg/kg)

NA	NOT ANALYZED
	NON DETECT
	0-200
	200-400
	400-598 ≤ EqP SCREENING LEVEL
	598-1500
	1500 OR GREATER

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FORMER EVERETT STAGING YARD
EVERETT, MA

EXTRACTABLE PETROLEUM HYDROCARBON CONCENTRATIONS IN SEDIMENT

PREPARED BY:
GZA GeoEnvironmental, Inc.
Engineers and Scientists
www.gza.com

PROJ MGR: DEL	REVIEWED BY: DEL	CHECKED BY: DEL	FIGURE	
DESIGNED BY: TLB	DRAWN BY: SMW	SCALE: 1 INCH = 50 FT		4F
DATE: 12-30-2015	PROJECT NO. 01.0171521.13	REVISION NO.		

Figure 5A - Arsenic Concentration Distribution in Shallow Sediment

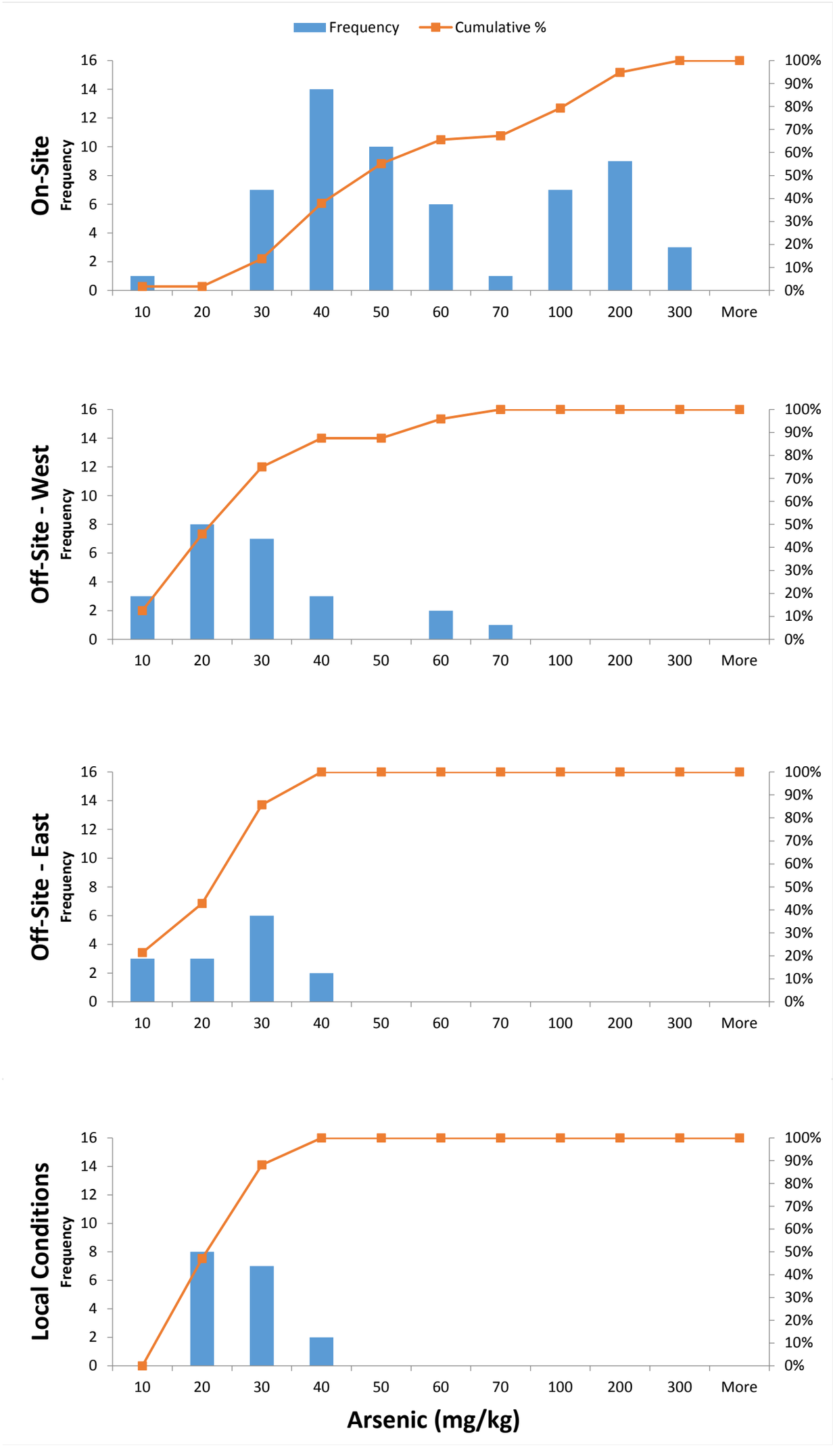


Figure 5B - Lead Concentration Distribution in Shallow Sediment

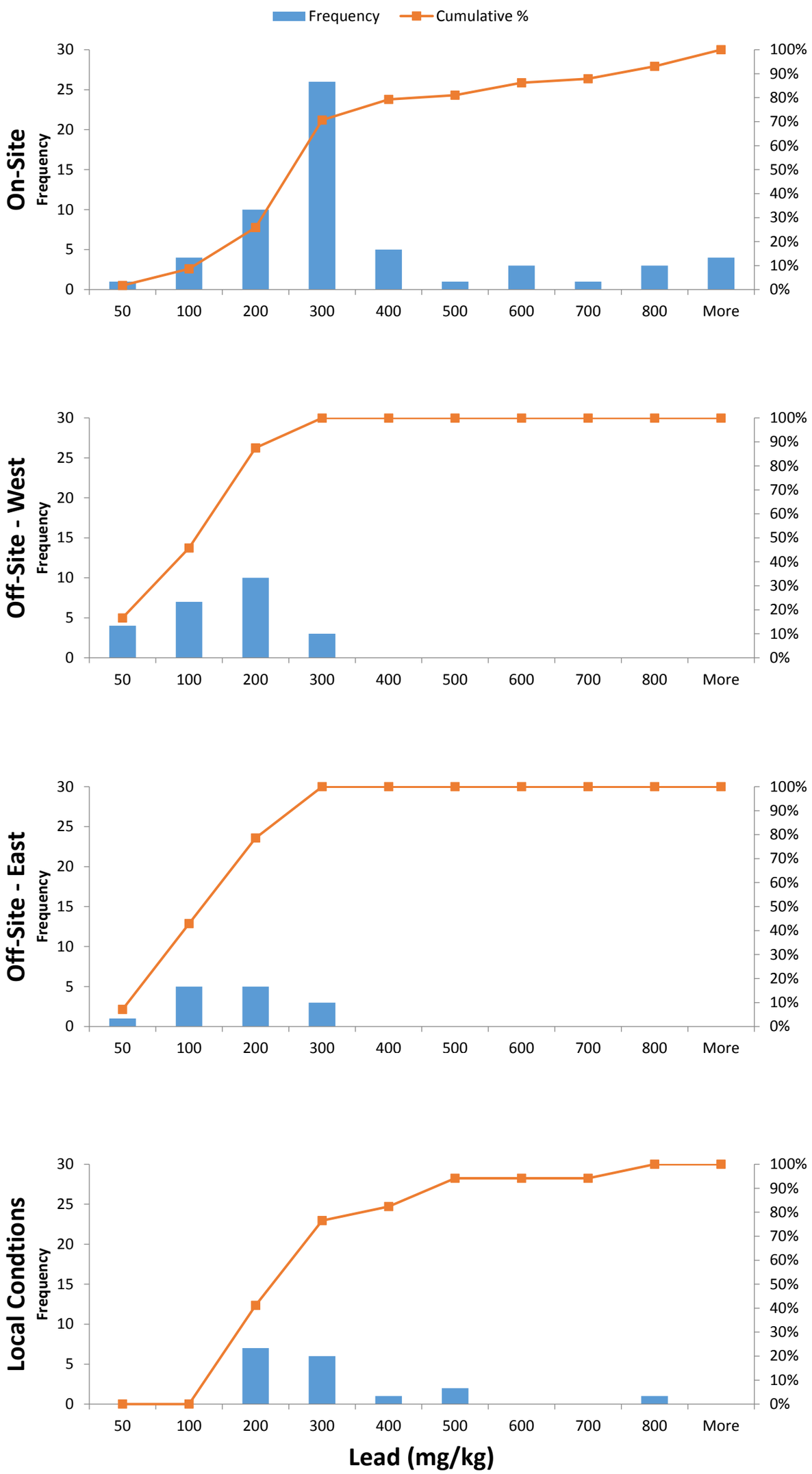


Table 5C - Mercury Concentration Distribution in Shallow Sediment

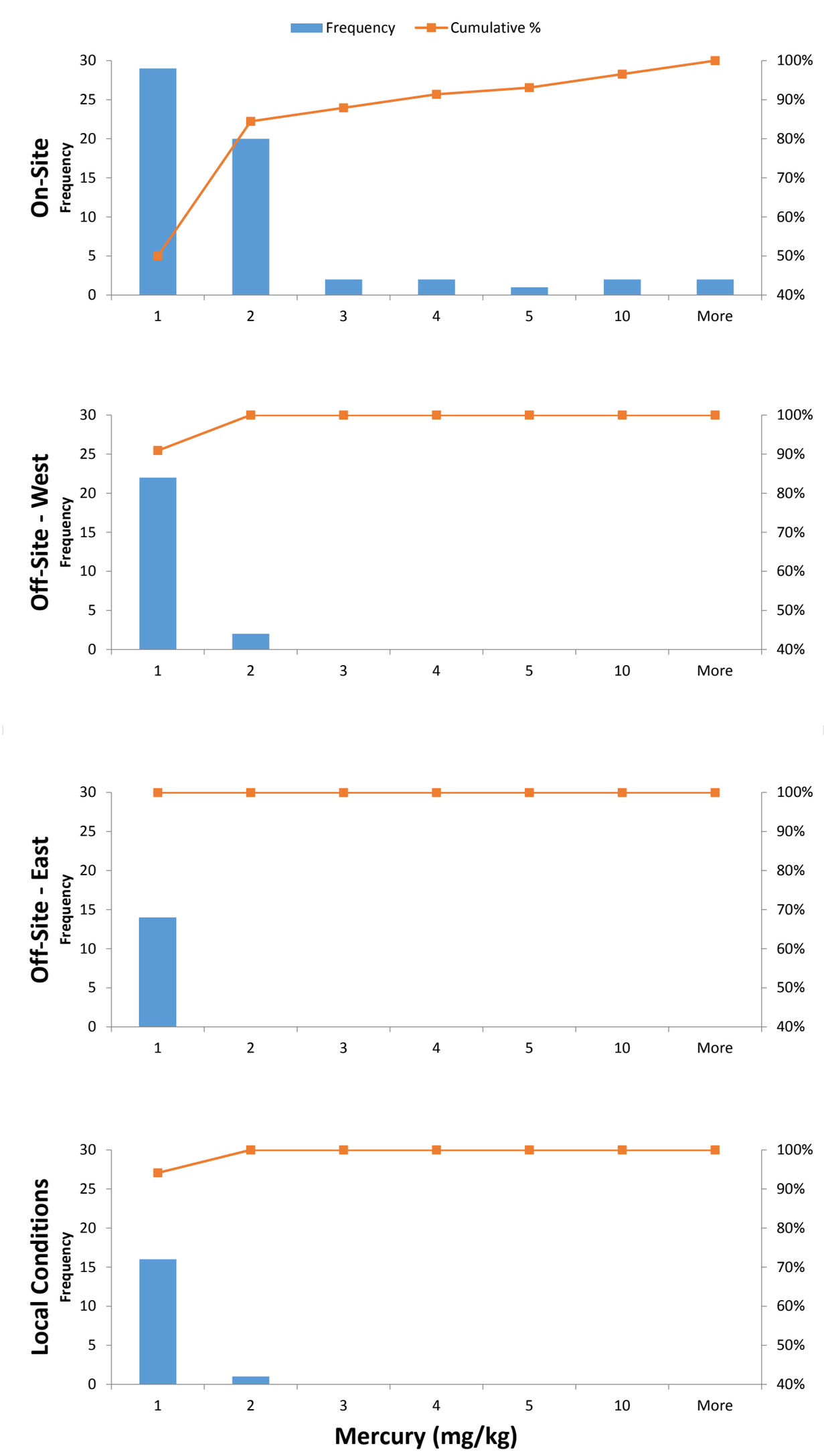


Figure 6A
Arsenic Concentrations in Toxicity Test Samples

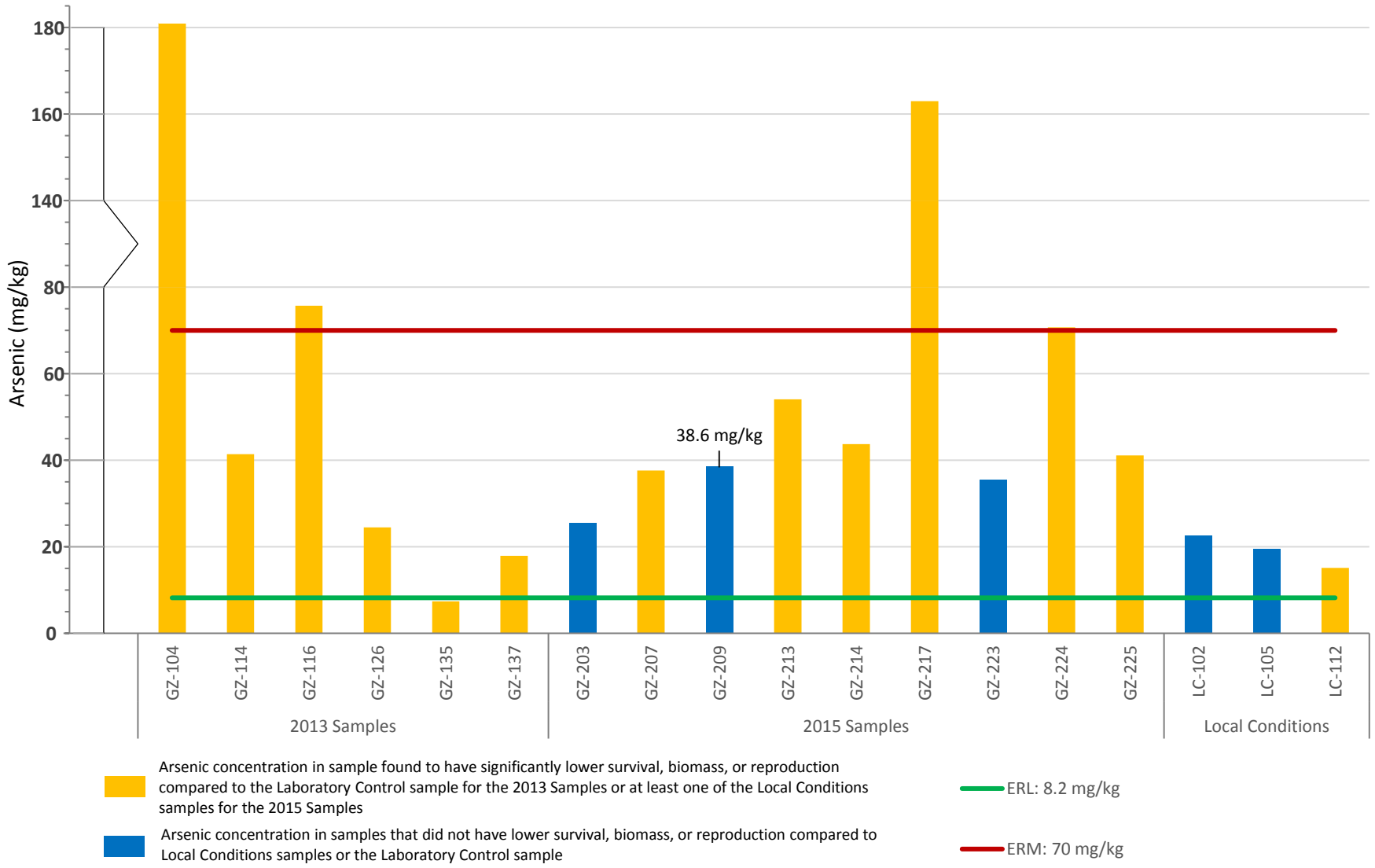


Figure 6B
Lead Concentrations in Toxicity Test Samples

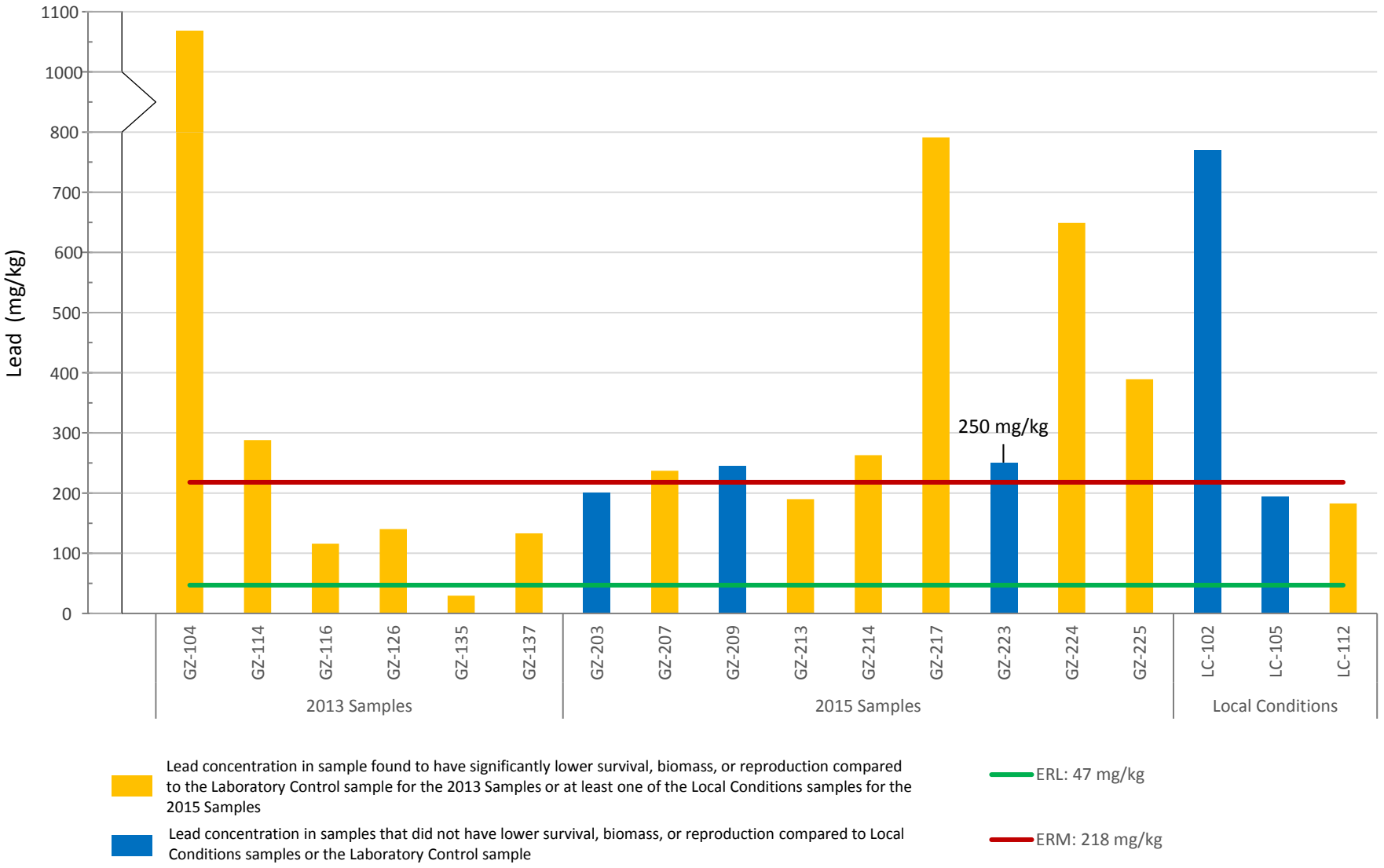
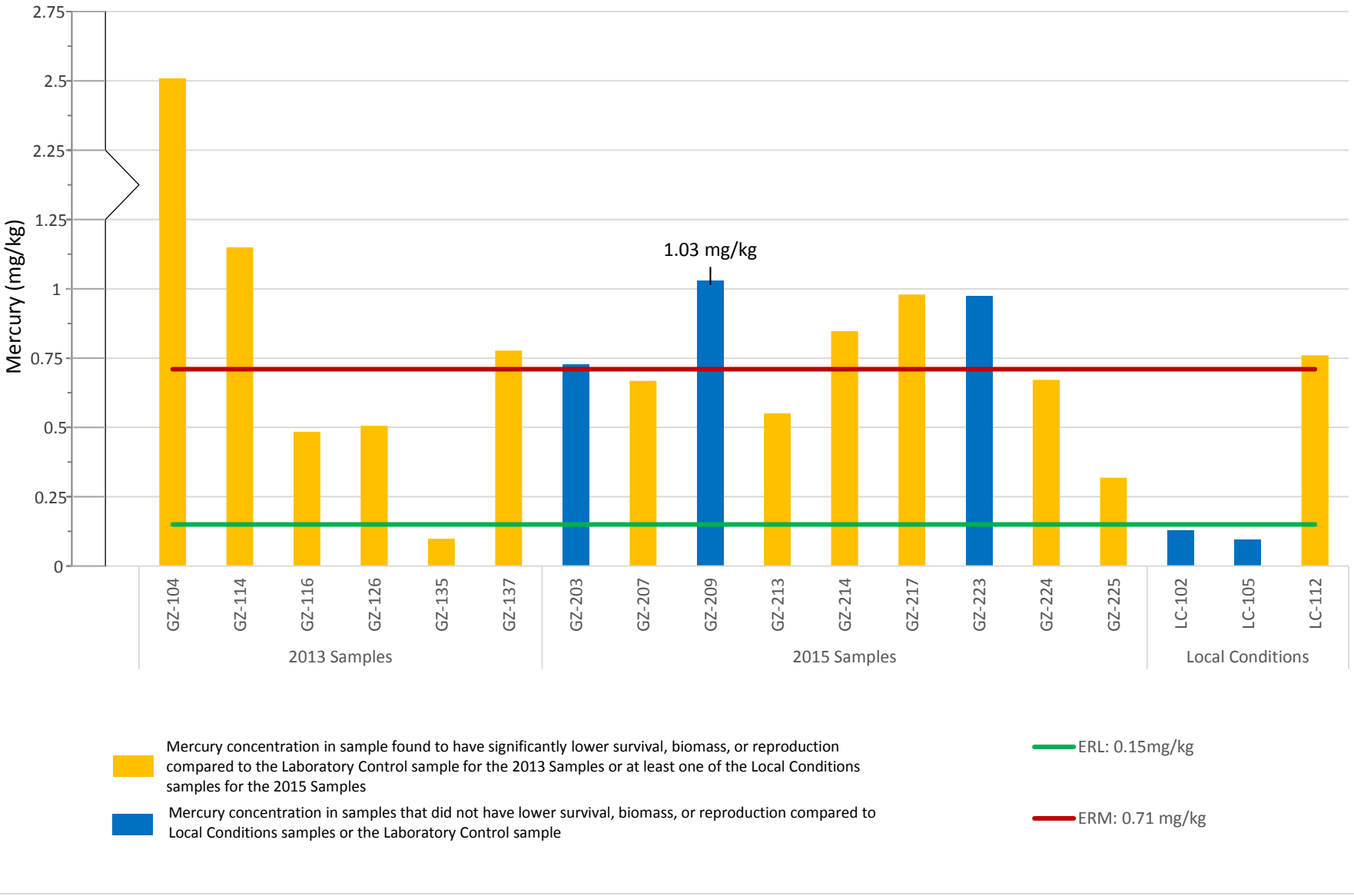
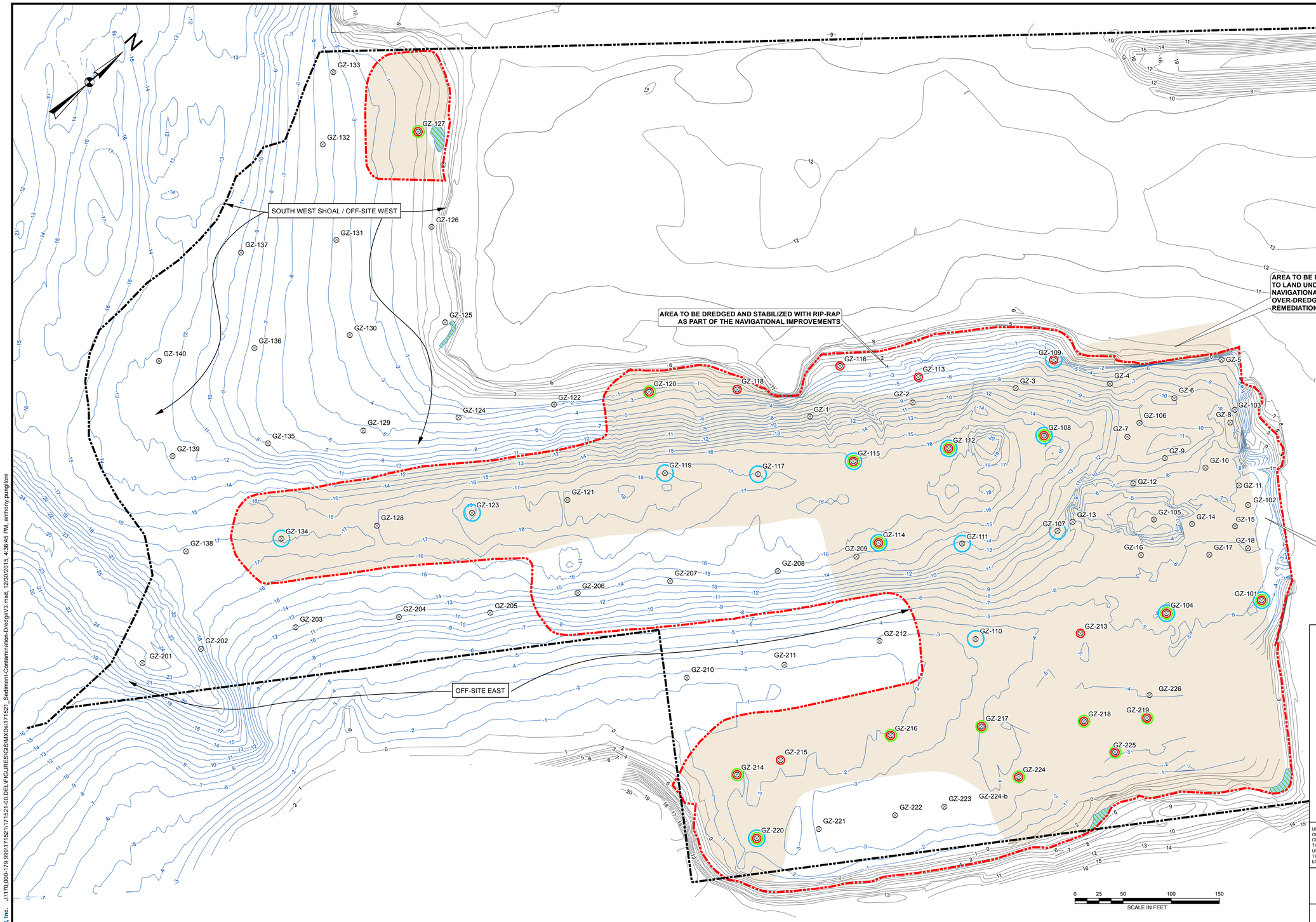


Figure 6C
Mercury Concentrations in Toxicity Test Samples





LEGEND

- GZ-101 — SEDIMENT CORING LOCATION
- APPROXIMATE PARCEL BOUNDARY
- WATER-SIDE DISPOSAL SITE BOUNDARY
- SURFICIAL CONTOUR
- BATHYMETRIC CONTOUR
- APPROXIMATE LIMITS OF DREDGE AREA
- SALT MARSH

CONTAMINATION KEY

- INDICATES SURFICIAL ARSENIC EXCEEDANCE > 38.6 (mg/kg)
- INDICATES SURFICIAL LEAD EXCEEDANCE > 250 (mg/kg)
- INDICATES SURFICIAL MERCURY EXCEEDANCE > 1.03 (mg/kg)

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FORMER EVERETT STAGING YARD
EVERETT, MA

PROPOSED EXTENT OF SEDIMENT DREDGING

SOURCE

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PREPARED BY:
GZA GeoEnvironmental, Inc.
Engineers and Scientists
www.gza.com

PROJ MGR: DEL	REVIEWED BY: DEL	CHECKED BY: DEL	FIGURE 7
DESIGNED BY: TLB	DRAWN BY: SMW	SCALE: 1 INCH = 50 FT	
DATE: 12-30-2015	PROJECT NO. 01.0171521.13	REVISION NO.	

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APPENDIX A

LIMITATIONS

GEOHYDROLOGICAL LIMITATIONS

Use of Report

1. GZA GeoEnvironmental, Inc. (GZA) prepared this report on behalf of, and for the exclusive use of our Client for the stated purpose(s) and location(s) identified in the Proposal for Services and/or Report. Use of this report, in whole or in part, at other locations, or for other purposes, may lead to inappropriate conclusions; and we do not accept any responsibility for the consequences of such use(s). Further, reliance by any party not expressly identified in the agreement, for any use, without our prior written permission, shall be at that party's sole risk, and without any liability to GZA.

Standard of Care

2. GZA's findings and conclusions are based on the work conducted as part of the Scope of Services set forth in the Proposal for Services and/or Report and reflect our professional judgment. These findings and conclusions must be considered not as scientific or engineering certainties, but rather as our professional opinions concerning the limited data gathered during the course of our work. Conditions other than described in this report may be found at the subject location(s).

3. GZA's services were performed using the degree of skill and care ordinarily exercised by qualified professionals performing the same type of services, at the same time, under similar conditions, at the same or a similar property. No warranty, expressed or implied, is made. Specifically, GZA does not and cannot represent that the Site contains no hazardous material, oil, or other latent condition beyond that observed by GZA during its study. Additionally, GZA makes no warranty that any response action or recommended action will achieve all of its objectives or that the findings of this study will be upheld by a local, state or federal agency.

4. In conducting our work, GZA relied upon certain information made available by public agencies, Client and/or others. GZA did not attempt to independently verify the accuracy or completeness of that information. Inconsistencies in this information which we have noted, if any, are discussed in the Report.

Subsurface Conditions

5. The generalized soil profile(s) provided in our Report are based on widely-spaced subsurface explorations and are intended only to convey trends in subsurface conditions. The boundaries between strata are approximate and idealized, and were based on our assessment of subsurface conditions. The composition of strata, and the transitions between strata, may be more variable and more complex than indicated. For more specific information on soil conditions at a specific location refer to the exploration logs. The nature and extent of variations between these explorations may not become evident until further exploration or construction. If variations or other latent conditions then become evident, it will be necessary to reevaluate the conclusions and recommendations of this report.

6. Water level readings have been made, as described in this Report, in and monitoring wells at the specified times and under the stated conditions. These data have been reviewed and

interpretations have been made in this report. Fluctuations in the level of the groundwater however occur due to temporal or spatial variations in areal recharge rates, soil heterogeneities, the presence of subsurface utilities, and/or natural or artificially induced perturbations. The observed water table may be other than indicated in the Report.

Compliance with Codes and Regulations

7. We used reasonable care in identifying and interpreting applicable codes and regulations necessary to execute our scope of work. These codes and regulations are subject to various, and possibly contradictory, interpretations. Interpretations and compliance with codes and regulations by other parties is beyond our control.

Screening and Analytical Testing

8. GZA collected environmental samples at the locations identified in the Report. These samples were analyzed for the specific parameters identified in the report. Additional constituents, for which analyses were not conducted, may be present in soil, groundwater, surface water, sediment and/or air. Future Site activities and uses may result in a requirement for additional testing.

9. Our interpretation of field screening and laboratory data is presented in the Report. Unless otherwise noted, we relied upon the laboratory's QA/QC program to validate these data.

10. Variations in the types and concentrations of contaminants observed at a given location or time may occur due to release mechanisms, disposal practices, changes in flow paths, and/or the influence of various physical, chemical, biological or radiological processes. Subsequently observed concentrations may be other than indicated in the Report.

Interpretation of Data

11. Our opinions are based on available information as described in the Report, and on our professional judgment. Additional observations made over time, and/or space, may not support the opinions provided in the Report.

Additional Information

12. In the event that the Client or others authorized to use this report obtain additional information on environmental or hazardous waste issues at the Site not contained in this report, such information shall be brought to GZA's attention forthwith. GZA will evaluate such information and, on the basis of this evaluation, may modify the conclusions stated in this report.

Additional Services

13. GZA recommends that we be retained to provide services during any future investigations, design, implementation activities, construction, and/or property development/ redevelopment at the Site. This will allow us the opportunity to: i) observe conditions and compliance with our design concepts and opinions; ii) allow for changes in the event that conditions are other than anticipated; iii) provide modifications to our design; and iv) assess the consequences of changes in technologies and/or regulations.

Conceptual Site Model

14. Our opinions were developed, in part, based upon a comparison of site data to conditions anticipated within our Conceptual Site Model (CSM). The CSM is based on available information, and professional judgment. There are rarely sufficient data to develop a unique CSM. Therefore observations over time, and/or space, may vary from those depicted in the CSM provided in this report. In addition, the CSM should be evaluated and refined (as appropriate) whenever significant new information and/or data is obtained.

Numerical Model

15. Actual subsurface conditions are likely more complex than indicated in the Report. Our mathematical model is, by its very nature, a simplification of actual conditions. Except as noted in the report, we did not validate the code used in the model. In constructing the model, point specific data was generalized and extrapolated across the study area. In addition, in areas where field data was not available, we used professional judgment, based on experience and regional information, to construct the model. Model assumptions are provided in **Appendix I.** Actual flow patterns, contaminant concentrations, and/or ground water discharges, and contaminant masses may be other than simulated. As additional field data becomes available our numerical model can be modified to better reflect conditions of possible interest.

Risk Characterization

16. Our risk evaluation was performed in accordance with generally accepted practices of appropriate Federal and/or state regulatory agencies, and of other consultants undertaking similar studies at the same time, for similar purposes, and under similar circumstances. The findings of the risk evaluation are dependent on the numerous assumptions and uncertainties inherent in the risk characterization process. Sources of the uncertainty may include Site conditions; Site use; the nature, extent, concentration and distribution of contaminants; and the available toxicity and/or health/risk based regulatory information. Consequently, the findings of the risk characterization are not an absolute characterization of actual risks; but rather serve to highlight potential incremental risks associated with activities indicated in the Report. Actual risks may be other than indicated in the Report.

APPENDIX B

SURFACE WATER LABORATORY REPORTS

CERTIFICATE OF ANALYSIS

David E Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Avenue
Norwood, MA 02062

RE: Wynn Everett - MCP (01.0171521.1)
ESS Laboratory Work Order Number: 1505527

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard
Laboratory Director

REVIEWED
By ESS Laboratory at 4:36 pm, Jun 02, 2015

Analytical Summary
The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with NELAC Standards, A2LA and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett - MCP

ESS Laboratory Work Order: 1505527

SAMPLE RECEIPT

The following samples were received on May 21, 2015 for the analyses specified on the enclosed Chain of Custody Record.

To achieve CAM compliance for MCP data, ESS Laboratory has performed and reviewed all QA/QC Requirements and Performance Standards listed in each method. Holding times and preservation have also been reviewed. All CAM requirements have been achieved unless noted in the project narrative.

Each method has been set-up in the laboratory to reach required MCP standards. The methods for aqueous VOA and Soil Methanol VOA have known limitations for certain analytes. The regulatory standards may not be achieved due to these limitations. In addition, for all methods, matrix interferences, dilutions, and %Solids may elevate method reporting limits above regulatory standards. ESS Laboratory can provide, upon request, a Data Checker (regulatory standard comparison spreadsheet) electronic deliverable which will highlight these exceedances.

For EPH soil samples, the aromatic range results have been corrected for identified cartridge contaminant in accordance with the CAM protocol.

Lab Number	Sample Name	Matrix	Analysis
1505527-01	SWS-3-05-21-15	Surface Water	6010C, 7010, 7196A, 7470A, 8270C, 8270D SIM, EPH8270, MADEP-EPH
1505527-02	SW-3-05-21-15	Surface Water	6010C, 7010, 7196A, 7470A, 8270C, 8270D SIM, EPH8270, MADEP-EPH
1505527-03	SWS-6-05-21-15	Surface Water	6010C, 7010, 7196A, 7470A, 8270C, 8270D SIM, EPH8270, MADEP-EPH
1505527-04	SW-6-05-21-15	Surface Water	6010C, 7010, 7196A, 7470A, 8270C, 8270D SIM, EPH8270, MADEP-EPH

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett - MCP

ESS Laboratory Work Order: 1505527

PROJECT NARRATIVE

8270C Semi-Volatile Organic Compounds

1505527-02	**Internal Standard(s) outside of criteria. Sample was reanalyzed to confirm (IC).**
	Chrysene-d12 (47% @ 50-200%), Perylene-d12 (46% @ 50-200%)
CYE0365-CCV1	**Calibration required quadratic regression (Q).**
	2,4-Dinitrophenol (96% @ 70-130%)
CYE0365-CCV1	**Continuing Calibration recovery is above upper control limit (C+).**
	N-Nitrosodimethylamine (131% @ 70-130%)
CYE0367-CCV1	**Continuing Calibration recovery is above upper control limit (C+).**
	2-Chloronaphthalene (155% @ 70-130%), bis(2-Chloroethyl)ether (133% @ 70-130%), N-Nitrosodimethylamine (139% @ 70-130%)

8270D(SIM) Semi-Volatile Organic Compounds

1505527-01	**Surrogate recovery(ies) above upper control limit (S+).**
	2,4,6-Tribromophenol (112% @ 15-110%)
1505527-02	**Surrogate recovery(ies) above upper control limit (S+).**
	2,4,6-Tribromophenol (121% @ 15-110%)
CE52636-BLK1	**Surrogate recovery(ies) above upper control limit (S+).**
	2,4,6-Tribromophenol (120% @ 15-110%)
CYE0340-CCV1	**Continuing Calibration recovery is above upper control limit (C+).**
	2,4,6-Tribromophenol (152% @ 70-130%)

Dissolved Metals

1505527-01	**Elevated Method Reporting Limits due to sample matrix (EL).**
	Thallium
1505527-02	**Elevated Method Reporting Limits due to sample matrix (EL).**
	Thallium
1505527-03	**Elevated Method Reporting Limits due to sample matrix (EL).**
	Thallium
1505527-04	**Elevated Method Reporting Limits due to sample matrix (EL).**
	Thallium
CE52211-BSD1	**Blank Spike recovery is below lower control limit (B-).**
	Arsenic (74% @ 80-120%), Barium (75% @ 80-120%), Beryllium (78% @ 80-120%), Cadmium (77% @ 80-120%), Chromium (76% @ 80-120%), Lead (74% @ 80-120%), Nickel (79% @ 80-120%), Silver (77% @ 80-120%), Vanadium (76% @ 80-120%)

No other observations noted.

End of Project Narrative.

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett - MCP

ESS Laboratory Work Order: 1505527

DATA USABILITY LINKS

Definitions of Quality Control Parameters

Semivolatile Organics Internal Standard Information

Semivolatile Organics Surrogate Information

Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists

CURRENT SW-846 METHODOLOGY VERSIONS

Analytical Methods

1010A - Flashpoint
6010C - ICP
6020A - ICP MS
7010 - Graphite Furnace
7196A - Hexavalent Chromium
7470A - Aqueous Mercury
7471B - Solid Mercury
8011 - EDB/DBCP/TCP
8015D - GRO/DRO
8081B - Pesticides
8082A - PCB
8100M - TPH
8151A - Herbicides
8260B - VOA
8270D - SVOA
8270D SIM - SVOA Low Level
9014 - Cyanide
9038 - Sulfate
9040C - Aqueous pH
9045D - Solid pH (Corrosivity)
9050A - Specific Conductance
9056A - Anions (IC)
9060A - TOC
9095B - Paint Filter
MADEP 04-1.1 - EPH / VPH

Prep Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3546 - Microwave Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5030C - Aqueous Purge and Trap
5035 - Solid Purge and Trap

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett - MCP

ESS Laboratory Work Order: 1505527

MassDEP Analytical Protocol Certification Form

MADEP RTN: _____

This form provides certification for the following data set: **1505527-01 through 1505527-04**

Matrices: (X) Ground Water/Surface Water ( ) Soil/Sediment ( ) Drinking Water ( ) Air ( ) Other:_____

CAM Protocol (check all that apply below):

( ) 8260 VOC CAM II A	(X) 7470/7471 Hg CAM III B	( ) MassDEP VPH CAM IV A	( ) 8081 Pesticides CAM V B	(X) 7196 Hex Cr CAM VI B	( ) MassDEP APH CAM IX A
(X) 8270 SVOC CAM II B	(X) 7010 Metals CAM III C	(X) MassDEP EPH CAM IV B	( ) 8151 Herbicides CAM V C	( ) 8330 Explosives CAM VIII A	( ) TO-15 VOC CAM IX B
(X) 6010 Metals CAM III A	( ) 6020 Metals CAM III D	( ) 8082 PCB CAM V A	( ) 6860 Perchlorate CAM VIII B	( ) 9014 Total Cyanide/PAC CAM VI A	

Affirmative responses to questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	Yes (X) No ( )
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	Yes (X) No ( )
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	Yes (X) No ( )
D	Does the laboratory report comply with all the reporting requirements specified in the CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	Yes (X) No ( )
E	a. VPH, EPH, APH and TO-15 only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	Yes (X) No ( )
	b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	Yes ( ) No ( )
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	Yes (X) No ( )

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocols(s)?	Yes ( ) No (X)*
	***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**	
H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	Yes ( ) No (X)*
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	Yes (X) No ( )*

***All negative responses must be addressed in an attached laboratory narrative.**

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: Laurel Stoddard

Date: June 02, 2015

Printed Name: Laurel Stoddard

Position: Laboratory Director

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett - MCP
Client Sample ID: SWS-3-05-21-15
Date Sampled: 05/21/15 09:20
Percent Solids: N/A

ESS Laboratory Work Order: 1505527
ESS Laboratory Sample ID: 1505527-01
Sample Matrix: Surface Water
Units: ug/L

Extraction Method: 3005A/200.7

Dissolved Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (5.0)		7010		2	KJK	05/31/15 13:50	50	25	CE52211
Arsenic	**348** (25.0)		6010C		1	JP	05/23/15 0:20	50	25	CE52211
Barium	ND (25.0)		6010C		1	KJK	05/23/15 21:14	50	25	CE52211
Beryllium	ND (0.5)		6010C		1	KJK	05/23/15 21:14	50	25	CE52211
Cadmium	**7.6** (2.5)		6010C		1	KJK	05/23/15 21:14	50	25	CE52211
Chromium	ND (10.0)		6010C		1	KJK	05/23/15 21:14	50	25	CE52211
Lead	ND (10.0)		6010C		1	KJK	05/23/15 0:20	50	25	CE52211
Mercury	ND (0.20)		7470A		1	BJV	05/26/15 13:53	20	40	CE52230
Nickel	ND (25.0)		6010C		1	KJK	05/23/15 21:14	50	25	CE52211
Selenium	ND (10.0)		7010		2	KJK	05/31/15 9:28	50	25	CE52211
Silver	ND (5.0)		6010C		1	KJK	05/23/15 21:14	50	25	CE52211
Thallium	**EL** ND (3.0)		7010		3	KJK	05/29/15 20:03	50	25	CE52211
Vanadium	ND (10.0)		6010C		1	KJK	05/23/15 21:14	50	25	CE52211
Zinc	ND (25.0)		6010C		1	KJK	05/23/15 21:14	50	25	CE52211

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett - MCP
Client Sample ID: SWS-3-05-21-15
Date Sampled: 05/21/15 09:20
Percent Solids: N/A
Initial Volume: 1070
Final Volume: 1
Extraction Method: 3520C

ESS Laboratory Work Order: 1505527
ESS Laboratory Sample ID: 1505527-01
Sample Matrix: Surface Water
Units: ug/L
Analyst: ML
Prepared: 5/26/15 19:05

8270C Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (9.3)		8270C		1	05/27/15 23:40	CYE0367	CE52612
1,2-Dichlorobenzene	ND (9.3)		8270C		1	05/27/15 23:40	CYE0367	CE52612
1,3-Dichlorobenzene	ND (9.3)		8270C		1	05/27/15 23:40	CYE0367	CE52612
1,4-Dichlorobenzene	ND (9.3)		8270C		1	05/27/15 23:40	CYE0367	CE52612
2,4,5-Trichlorophenol	ND (9.3)		8270C		1	05/27/15 23:40	CYE0367	CE52612
2,4,6-Trichlorophenol	ND (9.3)		8270C		1	05/27/15 23:40	CYE0367	CE52612
2,4-Dichlorophenol	ND (9.3)		8270C		1	05/27/15 23:40	CYE0367	CE52612
2,4-Dimethylphenol	ND (46.7)		8270C		1	05/27/15 23:40	CYE0367	CE52612
2,4-Dinitrophenol	ND (46.7)		8270C		1	05/27/15 23:40	CYE0367	CE52612
2,4-Dinitrotoluene	ND (9.3)		8270C		1	05/27/15 23:40	CYE0367	CE52612
2,6-Dinitrotoluene	ND (9.3)		8270C		1	05/27/15 23:40	CYE0367	CE52612
2-Chloronaphthalene	ND (9.3)		8270C		1	05/27/15 23:40	CYE0367	CE52612
2-Chlorophenol	ND (9.3)		8270C		1	05/27/15 23:40	CYE0367	CE52612
2-Methylphenol	ND (9.3)		8270C		1	05/27/15 23:40	CYE0367	CE52612
2-Nitrophenol	ND (9.3)		8270C		1	05/27/15 23:40	CYE0367	CE52612
3,3´-Dichlorobenzidine	ND (18.7)		8270C		1	05/27/15 23:40	CYE0367	CE52612
3+4-Methylphenol	ND (18.7)		8270C		1	05/27/15 23:40	CYE0367	CE52612
4-Bromophenyl-phenylether	ND (9.3)		8270C		1	05/27/15 23:40	CYE0367	CE52612
4-Chloroaniline	ND (18.7)		8270C		1	05/27/15 23:40	CYE0367	CE52612
4-Nitrophenol	ND (46.7)		8270C		1	05/27/15 23:40	CYE0367	CE52612
Acetophenone	ND (9.3)		8270C		1	05/27/15 23:40	CYE0367	CE52612
Aniline	ND (9.3)		8270C		1	05/27/15 23:40	CYE0367	CE52612
Azobenzene	ND (18.7)		8270C		1	05/27/15 23:40	CYE0367	CE52612
bis(2-Chloroethoxy)methane	ND (9.3)		8270C		1	05/27/15 23:40	CYE0367	CE52612
bis(2-Chloroethyl)ether	ND (9.3)		8270C		1	05/27/15 23:40	CYE0367	CE52612
bis(2-chloroisopropyl)Ether	ND (9.3)		8270C		1	05/27/15 23:40	CYE0367	CE52612
bis(2-Ethylhexyl)phthalate	ND (5.6)		8270C		1	05/27/15 23:40	CYE0367	CE52612
Butylbenzylphthalate	ND (9.3)		8270C		1	05/27/15 23:40	CYE0367	CE52612
Dibenzofuran	ND (9.3)		8270C		1	05/27/15 23:40	CYE0367	CE52612
Diethylphthalate	ND (9.3)		8270C		1	05/27/15 23:40	CYE0367	CE52612
Dimethylphthalate	ND (9.3)		8270C		1	05/27/15 23:40	CYE0367	CE52612
Di-n-butylphthalate	ND (9.3)		8270C		1	05/27/15 23:40	CYE0367	CE52612

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett - MCP
Client Sample ID: SWS-3-05-21-15
Date Sampled: 05/21/15 09:20
Percent Solids: N/A
Initial Volume: 1070
Final Volume: 1
Extraction Method: 3520C

ESS Laboratory Work Order: 1505527
ESS Laboratory Sample ID: 1505527-01
Sample Matrix: Surface Water
Units: ug/L
Analyst: ML
Prepared: 5/26/15 19:05

8270C Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Di-n-octylphthalate	ND (9.3)		8270C		1	05/27/15 23:40	CYE0367	CE52612
Hexachlorobutadiene	ND (9.3)		8270C		1	05/27/15 23:40	CYE0367	CE52612
Hexachloroethane	ND (4.7)		8270C		1	05/27/15 23:40	CYE0367	CE52612
Isophorone	ND (9.3)		8270C		1	05/27/15 23:40	CYE0367	CE52612
Nitrobenzene	ND (9.3)		8270C		1	05/27/15 23:40	CYE0367	CE52612
N-Nitrosodimethylamine	ND (9.3)		8270C		1	05/27/15 23:40	CYE0367	CE52612
Phenol	ND (9.3)		8270C		1	05/27/15 23:40	CYE0367	CE52612

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*68 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*74 %*		*15-110*
Surrogate: 2-Chlorophenol-d4	*70 %*		*15-110*
Surrogate: 2-Fluorobiphenyl	*67 %*		*30-130*
Surrogate: 2-Fluorophenol	*64 %*		*15-110*
Surrogate: Nitrobenzene-d5	*67 %*		*30-130*
Surrogate: Phenol-d6	*71 %*		*15-110*
Surrogate: p-Terphenyl-d14	*70 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett - MCP
Client Sample ID: SWS-3-05-21-15
Date Sampled: 05/21/15 09:20
Percent Solids: N/A
Initial Volume: 1070
Final Volume: 0.25
Extraction Method: 3510C

ESS Laboratory Work Order: 1505527
ESS Laboratory Sample ID: 1505527-01
Sample Matrix: Surface Water
Units: ug/L
Analyst: VSC
Prepared: 5/26/15 17:45

8270D(SIM) Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	ND (0.19)		8270D SIM		1	05/27/15 16:31	CYE0340	CE52636
Acenaphthene	**0.21** (0.19)		8270D SIM		1	05/27/15 16:31	CYE0340	CE52636
Acenaphthylene	ND (0.19)		8270D SIM		1	05/27/15 16:31	CYE0340	CE52636
Anthracene	**0.20** (0.19)		8270D SIM		1	05/27/15 16:31	CYE0340	CE52636
Benzo(a)anthracene	**0.05** (0.05)		8270D SIM		1	05/27/15 16:31	CYE0340	CE52636
Benzo(a)pyrene	ND (0.05)		8270D SIM		1	05/27/15 16:31	CYE0340	CE52636
Benzo(b)fluoranthene	**0.06** (0.05)		8270D SIM		1	05/27/15 16:31	CYE0340	CE52636
Benzo(g,h,i)perylene	ND (0.19)		8270D SIM		1	05/27/15 16:31	CYE0340	CE52636
Benzo(k)fluoranthene	ND (0.05)		8270D SIM		1	05/27/15 16:31	CYE0340	CE52636
Chrysene	**0.06** (0.05)		8270D SIM		1	05/27/15 16:31	CYE0340	CE52636
Dibenzo(a,h)Anthracene	ND (0.05)		8270D SIM		1	05/27/15 16:31	CYE0340	CE52636
Fluoranthene	**0.44** (0.19)		8270D SIM		1	05/27/15 16:31	CYE0340	CE52636
Fluorene	ND (0.19)		8270D SIM		1	05/27/15 16:31	CYE0340	CE52636
Hexachlorobenzene	ND (0.19)		8270D SIM		1	05/27/15 16:31	CYE0340	CE52636
Indeno(1,2,3-cd)Pyrene	ND (0.05)		8270D SIM		1	05/27/15 16:31	CYE0340	CE52636
Naphthalene	**0.42** (0.19)		8270D SIM		1	05/27/15 16:31	CYE0340	CE52636
Pentachlorophenol	ND (0.84)		8270D SIM		1	05/27/15 16:31	CYE0340	CE52636
Phenanthrene	**0.27** (0.19)		8270D SIM		1	05/27/15 16:31	CYE0340	CE52636
Pyrene	**0.29** (0.19)		8270D SIM		1	05/27/15 16:31	CYE0340	CE52636

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*46 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*112 %*	*S+*	*15-110*
Surrogate: 2-Fluorobiphenyl	*60 %*		*30-130*
Surrogate: Nitrobenzene-d5	*71 %*		*30-130*
Surrogate: p-Terphenyl-d14	*77 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett - MCP
Client Sample ID: SWS-3-05-21-15
Date Sampled: 05/21/15 09:20
Percent Solids: N/A

ESS Laboratory Work Order: 1505527
ESS Laboratory Sample ID: 1505527-01
Sample Matrix: Surface Water

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Hexavalent Chromium	ND (10)		7196A		1	JLK	05/22/15 7:37	ug/L	CE52201

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett - MCP
Client Sample ID: SWS-3-05-21-15
Date Sampled: 05/21/15 09:20
Percent Solids: N/A
Initial Volume: 1070
Final Volume: 1
Extraction Method: 3510C

ESS Laboratory Work Order: 1505527
ESS Laboratory Sample ID: 1505527-01
Sample Matrix: Surface Water
Units: ug/L

Prepared: 5/22/15 12:48

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (93)		MADEP-EPH		1	DPS	05/27/15 18:04	CYE0371	CE52232
C19-C36 Aliphatics1	ND (93)		MADEP-EPH		1	DPS	05/27/15 18:04	CYE0371	CE52232
C11-C22 Unadjusted Aromatics1	**122** (93.5)		EPH8270		1	JXS	05/26/15 20:04	CYE0328	CE52232
C11-C22 Aromatics1,2	**122** (93.5)		EPH8270			JXS	05/26/15 20:04		[CALC]
Preservative:	**pH <= 2**		MADEP-EPH			DPS			CE52232

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*67 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*85 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*96 %*		*40-140*
Surrogate: O-Terphenyl	*76 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett - MCP
Client Sample ID: SW-3-05-21-15
Date Sampled: 05/21/15 09:45
Percent Solids: N/A

ESS Laboratory Work Order: 1505527
ESS Laboratory Sample ID: 1505527-02
Sample Matrix: Surface Water
Units: ug/L

Extraction Method: 3005A/200.7

Dissolved Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (5.0)		7010		2	KJK	05/31/15 14:19	50	25	CE52211
Arsenic	**18.1** (2.5)		7010		1	KJK	05/24/15 3:40	50	25	CE52211
Barium	**25.1** (25.0)		6010C		1	KJK	05/23/15 21:32	50	25	CE52211
Beryllium	ND (0.5)		6010C		1	KJK	05/23/15 21:32	50	25	CE52211
Cadmium	ND (2.5)		6010C		1	KJK	05/23/15 21:32	50	25	CE52211
Chromium	ND (10.0)		6010C		1	KJK	05/23/15 21:32	50	25	CE52211
Lead	ND (10.0)		6010C		1	KJK	05/23/15 0:25	50	25	CE52211
Mercury	ND (0.20)		7470A		1	BJV	05/26/15 13:56	20	40	CE52230
Nickel	ND (25.0)		6010C		1	KJK	05/23/15 21:32	50	25	CE52211
Selenium	ND (10.0)		7010		2	KJK	05/31/15 9:33	50	25	CE52211
Silver	ND (5.0)		6010C		1	KJK	05/23/15 21:32	50	25	CE52211
Thallium	**EL** ND (3.0)		7010		3	KJK	05/29/15 20:08	50	25	CE52211
Vanadium	ND (10.0)		6010C		1	KJK	05/23/15 21:32	50	25	CE52211
Zinc	ND (25.0)		6010C		1	KJK	05/23/15 21:32	50	25	CE52211

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett - MCP
Client Sample ID: SW-3-05-21-15
Date Sampled: 05/21/15 09:45
Percent Solids: N/A
Initial Volume: 1070
Final Volume: 1
Extraction Method: 3520C

ESS Laboratory Work Order: 1505527
ESS Laboratory Sample ID: 1505527-02
Sample Matrix: Surface Water
Units: ug/L
Analyst: VSC
Prepared: 5/26/15 19:05

8270C Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (9.3)		8270C		1	05/28/15 15:52	CYE0377	CE52612
1,2-Dichlorobenzene	ND (9.3)		8270C		1	05/28/15 15:52	CYE0377	CE52612
1,3-Dichlorobenzene	ND (9.3)		8270C		1	05/28/15 15:52	CYE0377	CE52612
1,4-Dichlorobenzene	ND (9.3)		8270C		1	05/28/15 15:52	CYE0377	CE52612
2,4,5-Trichlorophenol	ND (9.3)		8270C		1	05/28/15 15:52	CYE0377	CE52612
2,4,6-Trichlorophenol	ND (9.3)		8270C		1	05/28/15 15:52	CYE0377	CE52612
2,4-Dichlorophenol	ND (9.3)		8270C		1	05/28/15 15:52	CYE0377	CE52612
2,4-Dimethylphenol	ND (46.7)		8270C		1	05/28/15 15:52	CYE0377	CE52612
2,4-Dinitrophenol	ND (46.7)		8270C		1	05/28/15 15:52	CYE0377	CE52612
2,4-Dinitrotoluene	ND (9.3)		8270C		1	05/28/15 15:52	CYE0377	CE52612
2,6-Dinitrotoluene	ND (9.3)		8270C		1	05/28/15 15:52	CYE0377	CE52612
2-Chloronaphthalene	ND (9.3)		8270C		1	05/28/15 15:52	CYE0377	CE52612
2-Chlorophenol	ND (9.3)		8270C		1	05/28/15 15:52	CYE0377	CE52612
2-Methylphenol	ND (9.3)		8270C		1	05/28/15 15:52	CYE0377	CE52612
2-Nitrophenol	ND (9.3)		8270C		1	05/28/15 15:52	CYE0377	CE52612
3,3´-Dichlorobenzidine	ND (18.7)		8270C		1	05/28/15 15:52	CYE0377	CE52612
3+4-Methylphenol	ND (18.7)		8270C		1	05/28/15 15:52	CYE0377	CE52612
4-Bromophenyl-phenylether	ND (9.3)		8270C		1	05/28/15 15:52	CYE0377	CE52612
4-Chloroaniline	ND (18.7)		8270C		1	05/28/15 15:52	CYE0377	CE52612
4-Nitrophenol	ND (46.7)		8270C		1	05/28/15 15:52	CYE0377	CE52612
Acetophenone	ND (9.3)		8270C		1	05/28/15 15:52	CYE0377	CE52612
Aniline	ND (9.3)		8270C		1	05/28/15 15:52	CYE0377	CE52612
Azobenzene	ND (18.7)		8270C		1	05/28/15 15:52	CYE0377	CE52612
bis(2-Chloroethoxy)methane	ND (9.3)		8270C		1	05/28/15 15:52	CYE0377	CE52612
bis(2-Chloroethyl)ether	ND (9.3)		8270C		1	05/28/15 15:52	CYE0377	CE52612
bis(2-chloroisopropyl)Ether	ND (9.3)		8270C		1	05/28/15 15:52	CYE0377	CE52612
bis(2-Ethylhexyl)phthalate	ND (5.6)		8270C		1	05/28/15 15:52	CYE0377	CE52612
Butylbenzylphthalate	ND (9.3)		8270C		1	05/28/15 15:52	CYE0377	CE52612
Dibenzofuran	ND (9.3)		8270C		1	05/28/15 15:52	CYE0377	CE52612
Diethylphthalate	ND (9.3)		8270C		1	05/28/15 15:52	CYE0377	CE52612
Dimethylphthalate	ND (9.3)		8270C		1	05/28/15 15:52	CYE0377	CE52612
Di-n-butylphthalate	ND (9.3)		8270C		1	05/28/15 15:52	CYE0377	CE52612

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett - MCP
Client Sample ID: SW-3-05-21-15
Date Sampled: 05/21/15 09:45
Percent Solids: N/A
Initial Volume: 1070
Final Volume: 1
Extraction Method: 3520C

ESS Laboratory Work Order: 1505527
ESS Laboratory Sample ID: 1505527-02
Sample Matrix: Surface Water
Units: ug/L
Analyst: VSC
Prepared: 5/26/15 19:05

8270C Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Di-n-octylphthalate	ND (9.3)		8270C		1	05/28/15 15:52	CYE0377	CE52612
Hexachlorobutadiene	ND (9.3)		8270C		1	05/28/15 15:52	CYE0377	CE52612
Hexachloroethane	ND (4.7)		8270C		1	05/28/15 15:52	CYE0377	CE52612
Isophorone	ND (9.3)		8270C		1	05/28/15 15:52	CYE0377	CE52612
Nitrobenzene	ND (9.3)		8270C		1	05/28/15 15:52	CYE0377	CE52612
N-Nitrosodimethylamine	ND (9.3)		8270C		1	05/28/15 15:52	CYE0377	CE52612
Phenol	ND (9.3)		8270C		1	05/28/15 15:52	CYE0377	CE52612

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*59 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*68 %*		*15-110*
Surrogate: 2-Chlorophenol-d4	*52 %*		*15-110*
Surrogate: 2-Fluorobiphenyl	*62 %*		*30-130*
Surrogate: 2-Fluorophenol	*39 %*		*15-110*
Surrogate: Nitrobenzene-d5	*60 %*		*30-130*
Surrogate: Phenol-d6	*54 %*		*15-110*
Surrogate: p-Terphenyl-d14	*79 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett - MCP
Client Sample ID: SW-3-05-21-15
Date Sampled: 05/21/15 09:45
Percent Solids: N/A
Initial Volume: 1070
Final Volume: 0.25
Extraction Method: 3510C

ESS Laboratory Work Order: 1505527
ESS Laboratory Sample ID: 1505527-02
Sample Matrix: Surface Water
Units: ug/L
Analyst: VSC
Prepared: 5/26/15 17:45

8270D(SIM) Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	ND (0.19)		8270D SIM		1	05/27/15 17:21	CYE0340	CE52636
Acenaphthene	ND (0.19)		8270D SIM		1	05/27/15 17:21	CYE0340	CE52636
Acenaphthylene	ND (0.19)		8270D SIM		1	05/27/15 17:21	CYE0340	CE52636
Anthracene	ND (0.19)		8270D SIM		1	05/27/15 17:21	CYE0340	CE52636
Benzo(a)anthracene	ND (0.05)		8270D SIM		1	05/27/15 17:21	CYE0340	CE52636
Benzo(a)pyrene	ND (0.05)		8270D SIM		1	05/27/15 17:21	CYE0340	CE52636
Benzo(b)fluoranthene	ND (0.05)		8270D SIM		1	05/27/15 17:21	CYE0340	CE52636
Benzo(g,h,i)perylene	ND (0.19)		8270D SIM		1	05/27/15 17:21	CYE0340	CE52636
Benzo(k)fluoranthene	ND (0.05)		8270D SIM		1	05/27/15 17:21	CYE0340	CE52636
Chrysene	ND (0.05)		8270D SIM		1	05/27/15 17:21	CYE0340	CE52636
Dibenzo(a,h)Anthracene	ND (0.05)		8270D SIM		1	05/27/15 17:21	CYE0340	CE52636
Fluoranthene	ND (0.19)		8270D SIM		1	05/27/15 17:21	CYE0340	CE52636
Fluorene	ND (0.19)		8270D SIM		1	05/27/15 17:21	CYE0340	CE52636
Hexachlorobenzene	ND (0.19)		8270D SIM		1	05/27/15 17:21	CYE0340	CE52636
Indeno(1,2,3-cd)Pyrene	ND (0.05)		8270D SIM		1	05/27/15 17:21	CYE0340	CE52636
Naphthalene	ND (0.19)		8270D SIM		1	05/27/15 17:21	CYE0340	CE52636
Pentachlorophenol	ND (0.84)		8270D SIM		1	05/27/15 17:21	CYE0340	CE52636
Phenanthrene	ND (0.19)		8270D SIM		1	05/27/15 17:21	CYE0340	CE52636
Pyrene	ND (0.19)		8270D SIM		1	05/27/15 17:21	CYE0340	CE52636

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*54 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*121 %*	*S+*	*15-110*
Surrogate: 2-Fluorobiphenyl	*71 %*		*30-130*
Surrogate: Nitrobenzene-d5	*88 %*		*30-130*
Surrogate: p-Terphenyl-d14	*83 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett - MCP
Client Sample ID: SW-3-05-21-15
Date Sampled: 05/21/15 09:45
Percent Solids: N/A

ESS Laboratory Work Order: 1505527
ESS Laboratory Sample ID: 1505527-02
Sample Matrix: Surface Water

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Hexavalent Chromium	ND (10)		7196A		1	JLK	05/22/15 7:37	ug/L	CE52201

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett - MCP
Client Sample ID: SW-3-05-21-15
Date Sampled: 05/21/15 09:45
Percent Solids: N/A
Initial Volume: 1070
Final Volume: 1
Extraction Method: 3510C

ESS Laboratory Work Order: 1505527
ESS Laboratory Sample ID: 1505527-02
Sample Matrix: Surface Water
Units: ug/L

Prepared: 5/22/15 12:48

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (93)		MADEP-EPH		1	DPS	05/27/15 18:54	CYE0371	CE52232
C19-C36 Aliphatics1	ND (93)		MADEP-EPH		1	DPS	05/27/15 18:54	CYE0371	CE52232
C11-C22 Unadjusted Aromatics1	ND (93.5)		EPH8270		1	JXS	05/26/15 20:41	CYE0328	CE52232
C11-C22 Aromatics1,2	ND (93.5)		EPH8270			JXS	05/26/15 20:41		[CALC]
Preservative:	**pH <= 2**		MADEP-EPH			DPS			CE52232

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*66 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*90 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*96 %*		*40-140*
Surrogate: O-Terphenyl	*79 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett - MCP
Client Sample ID: SWS-6-05-21-15
Date Sampled: 05/21/15 10:38
Percent Solids: N/A

ESS Laboratory Work Order: 1505527
ESS Laboratory Sample ID: 1505527-03
Sample Matrix: Surface Water
Units: ug/L

Extraction Method: 3005A/200.7

Dissolved Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (5.0)		7010		2	KJK	05/31/15 14:25	50	25	CE52211
Arsenic	**6.2** (2.5)		7010		1	KJK	05/24/15 3:56	50	25	CE52211
Barium	ND (25.0)		6010C		1	KJK	05/23/15 21:37	50	25	CE52211
Beryllium	ND (0.5)		6010C		1	KJK	05/23/15 21:37	50	25	CE52211
Cadmium	ND (2.5)		6010C		1	KJK	05/23/15 21:37	50	25	CE52211
Chromium	ND (10.0)		6010C		1	KJK	05/23/15 21:37	50	25	CE52211
Lead	ND (10.0)		6010C		1	KJK	05/23/15 0:31	50	25	CE52211
Mercury	ND (0.20)		7470A		1	BJV	05/26/15 13:58	20	40	CE52230
Nickel	ND (25.0)		6010C		1	KJK	05/23/15 21:37	50	25	CE52211
Selenium	ND (10.0)		7010		2	KJK	05/31/15 9:39	50	25	CE52211
Silver	ND (5.0)		6010C		1	KJK	05/23/15 21:37	50	25	CE52211
Thallium	**EL** ND (4.0)		7010		4	KJK	05/29/15 20:48	50	25	CE52211
Vanadium	ND (10.0)		6010C		1	KJK	05/23/15 21:37	50	25	CE52211
Zinc	**30.9** (25.0)		6010C		1	KJK	05/23/15 21:37	50	25	CE52211

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett - MCP
Client Sample ID: SWS-6-05-21-15
Date Sampled: 05/21/15 10:38
Percent Solids: N/A
Initial Volume: 1070
Final Volume: 1
Extraction Method: 3520C

ESS Laboratory Work Order: 1505527
ESS Laboratory Sample ID: 1505527-03
Sample Matrix: Surface Water
Units: ug/L
Analyst: ML
Prepared: 5/26/15 19:05

8270C Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (9.3)		8270C		1	05/28/15 0:51	CYE0367	CE52612
1,2-Dichlorobenzene	ND (9.3)		8270C		1	05/28/15 0:51	CYE0367	CE52612
1,3-Dichlorobenzene	ND (9.3)		8270C		1	05/28/15 0:51	CYE0367	CE52612
1,4-Dichlorobenzene	ND (9.3)		8270C		1	05/28/15 0:51	CYE0367	CE52612
2,4,5-Trichlorophenol	ND (9.3)		8270C		1	05/28/15 0:51	CYE0367	CE52612
2,4,6-Trichlorophenol	ND (9.3)		8270C		1	05/28/15 0:51	CYE0367	CE52612
2,4-Dichlorophenol	ND (9.3)		8270C		1	05/28/15 0:51	CYE0367	CE52612
2,4-Dimethylphenol	ND (46.7)		8270C		1	05/28/15 0:51	CYE0367	CE52612
2,4-Dinitrophenol	ND (46.7)		8270C		1	05/28/15 0:51	CYE0367	CE52612
2,4-Dinitrotoluene	ND (9.3)		8270C		1	05/28/15 0:51	CYE0367	CE52612
2,6-Dinitrotoluene	ND (9.3)		8270C		1	05/28/15 0:51	CYE0367	CE52612
2-Chloronaphthalene	ND (9.3)		8270C		1	05/28/15 0:51	CYE0367	CE52612
2-Chlorophenol	ND (9.3)		8270C		1	05/28/15 0:51	CYE0367	CE52612
2-Methylphenol	ND (9.3)		8270C		1	05/28/15 0:51	CYE0367	CE52612
2-Nitrophenol	ND (9.3)		8270C		1	05/28/15 0:51	CYE0367	CE52612
3,3´-Dichlorobenzidine	ND (18.7)		8270C		1	05/28/15 0:51	CYE0367	CE52612
3+4-Methylphenol	ND (18.7)		8270C		1	05/28/15 0:51	CYE0367	CE52612
4-Bromophenyl-phenylether	ND (9.3)		8270C		1	05/28/15 0:51	CYE0367	CE52612
4-Chloroaniline	ND (18.7)		8270C		1	05/28/15 0:51	CYE0367	CE52612
4-Nitrophenol	ND (46.7)		8270C		1	05/28/15 0:51	CYE0367	CE52612
Acetophenone	ND (9.3)		8270C		1	05/28/15 0:51	CYE0367	CE52612
Aniline	ND (9.3)		8270C		1	05/28/15 0:51	CYE0367	CE52612
Azobenzene	ND (18.7)		8270C		1	05/28/15 0:51	CYE0367	CE52612
bis(2-Chloroethoxy)methane	ND (9.3)		8270C		1	05/28/15 0:51	CYE0367	CE52612
bis(2-Chloroethyl)ether	ND (9.3)		8270C		1	05/28/15 0:51	CYE0367	CE52612
bis(2-chloroisopropyl)Ether	ND (9.3)		8270C		1	05/28/15 0:51	CYE0367	CE52612
bis(2-Ethylhexyl)phthalate	ND (5.6)		8270C		1	05/28/15 0:51	CYE0367	CE52612
Butylbenzylphthalate	ND (9.3)		8270C		1	05/28/15 0:51	CYE0367	CE52612
Dibenzofuran	ND (9.3)		8270C		1	05/28/15 0:51	CYE0367	CE52612
Diethylphthalate	ND (9.3)		8270C		1	05/28/15 0:51	CYE0367	CE52612
Dimethylphthalate	ND (9.3)		8270C		1	05/28/15 0:51	CYE0367	CE52612
Di-n-butylphthalate	ND (9.3)		8270C		1	05/28/15 0:51	CYE0367	CE52612

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett - MCP
Client Sample ID: SWS-6-05-21-15
Date Sampled: 05/21/15 10:38
Percent Solids: N/A
Initial Volume: 1070
Final Volume: 1
Extraction Method: 3520C

ESS Laboratory Work Order: 1505527
ESS Laboratory Sample ID: 1505527-03
Sample Matrix: Surface Water
Units: ug/L
Analyst: ML
Prepared: 5/26/15 19:05

8270C Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Di-n-octylphthalate	ND (9.3)		8270C		1	05/28/15 0:51	CYE0367	CE52612
Hexachlorobutadiene	ND (9.3)		8270C		1	05/28/15 0:51	CYE0367	CE52612
Hexachloroethane	ND (4.7)		8270C		1	05/28/15 0:51	CYE0367	CE52612
Isophorone	ND (9.3)		8270C		1	05/28/15 0:51	CYE0367	CE52612
Nitrobenzene	ND (9.3)		8270C		1	05/28/15 0:51	CYE0367	CE52612
N-Nitrosodimethylamine	ND (9.3)		8270C		1	05/28/15 0:51	CYE0367	CE52612
Phenol	ND (9.3)		8270C		1	05/28/15 0:51	CYE0367	CE52612

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*61 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*73 %*		*15-110*
Surrogate: 2-Chlorophenol-d4	*66 %*		*15-110*
Surrogate: 2-Fluorobiphenyl	*63 %*		*30-130*
Surrogate: 2-Fluorophenol	*60 %*		*15-110*
Surrogate: Nitrobenzene-d5	*65 %*		*30-130*
Surrogate: Phenol-d6	*65 %*		*15-110*
Surrogate: p-Terphenyl-d14	*52 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett - MCP
Client Sample ID: SWS-6-05-21-15
Date Sampled: 05/21/15 10:38
Percent Solids: N/A
Initial Volume: 1070
Final Volume: 0.25
Extraction Method: 3510C

ESS Laboratory Work Order: 1505527
ESS Laboratory Sample ID: 1505527-03
Sample Matrix: Surface Water
Units: ug/L
Analyst: VSC
Prepared: 5/26/15 17:45

8270D(SIM) Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	ND (0.19)		8270D SIM		1	05/27/15 18:10	CYE0340	CE52636
Acenaphthene	ND (0.19)		8270D SIM		1	05/27/15 18:10	CYE0340	CE52636
Acenaphthylene	ND (0.19)		8270D SIM		1	05/27/15 18:10	CYE0340	CE52636
Anthracene	ND (0.19)		8270D SIM		1	05/27/15 18:10	CYE0340	CE52636
Benzo(a)anthracene	ND (0.05)		8270D SIM		1	05/27/15 18:10	CYE0340	CE52636
Benzo(a)pyrene	ND (0.05)		8270D SIM		1	05/27/15 18:10	CYE0340	CE52636
Benzo(b)fluoranthene	ND (0.05)		8270D SIM		1	05/27/15 18:10	CYE0340	CE52636
Benzo(g,h,i)perylene	ND (0.19)		8270D SIM		1	05/27/15 18:10	CYE0340	CE52636
Benzo(k)fluoranthene	ND (0.05)		8270D SIM		1	05/27/15 18:10	CYE0340	CE52636
Chrysene	ND (0.05)		8270D SIM		1	05/27/15 18:10	CYE0340	CE52636
Dibenzo(a,h)Anthracene	ND (0.05)		8270D SIM		1	05/27/15 18:10	CYE0340	CE52636
Fluoranthene	ND (0.19)		8270D SIM		1	05/27/15 18:10	CYE0340	CE52636
Fluorene	ND (0.19)		8270D SIM		1	05/27/15 18:10	CYE0340	CE52636
Hexachlorobenzene	ND (0.19)		8270D SIM		1	05/27/15 18:10	CYE0340	CE52636
Indeno(1,2,3-cd)Pyrene	ND (0.05)		8270D SIM		1	05/27/15 18:10	CYE0340	CE52636
Naphthalene	ND (0.19)		8270D SIM		1	05/27/15 18:10	CYE0340	CE52636
Pentachlorophenol	ND (0.84)		8270D SIM		1	05/27/15 18:10	CYE0340	CE52636
Phenanthrene	ND (0.19)		8270D SIM		1	05/27/15 18:10	CYE0340	CE52636
Pyrene	ND (0.19)		8270D SIM		1	05/27/15 18:10	CYE0340	CE52636

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*40 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*96 %*		*15-110*
Surrogate: 2-Fluorobiphenyl	*54 %*		*30-130*
Surrogate: Nitrobenzene-d5	*68 %*		*30-130*
Surrogate: p-Terphenyl-d14	*68 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett - MCP
Client Sample ID: SWS-6-05-21-15
Date Sampled: 05/21/15 10:38
Percent Solids: N/A

ESS Laboratory Work Order: 1505527
ESS Laboratory Sample ID: 1505527-03
Sample Matrix: Surface Water

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Hexavalent Chromium	ND (10)		7196A		1	JLK	05/22/15 7:37	ug/L	CE52201

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett - MCP
Client Sample ID: SWS-6-05-21-15
Date Sampled: 05/21/15 10:38
Percent Solids: N/A
Initial Volume: 1070
Final Volume: 1
Extraction Method: 3510C

ESS Laboratory Work Order: 1505527
ESS Laboratory Sample ID: 1505527-03
Sample Matrix: Surface Water
Units: ug/L

Prepared: 5/22/15 12:48

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (93)		MADEP-EPH		1	DPS	05/27/15 19:45	CYE0371	CE52232
C19-C36 Aliphatics1	ND (93)		MADEP-EPH		1	DPS	05/27/15 19:45	CYE0371	CE52232
C11-C22 Unadjusted Aromatics1	ND (93.5)		EPH8270		1	JXS	05/26/15 21:17	CYE0328	CE52232
C11-C22 Aromatics1,2	ND (93.5)		EPH8270			JXS	05/26/15 21:17		[CALC]
Preservative:	**pH <= 2**		MADEP-EPH			DPS			CE52232

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*62 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*84 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*93 %*		*40-140*
Surrogate: O-Terphenyl	*69 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett - MCP
Client Sample ID: SW-6-05-21-15
Date Sampled: 05/21/15 11:00
Percent Solids: N/A

ESS Laboratory Work Order: 1505527
ESS Laboratory Sample ID: 1505527-04
Sample Matrix: Surface Water
Units: ug/L

Extraction Method: 3005A/200.7

Dissolved Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (5.0)		7010		2	KJK	05/31/15 14:30	50	25	CE52211
Arsenic	ND (2.5)		7010		1	KJK	05/24/15 4:08	50	25	CE52211
Barium	**27.3** (25.0)		6010C		1	KJK	05/23/15 21:43	50	25	CE52211
Beryllium	ND (0.5)		6010C		1	KJK	05/23/15 21:43	50	25	CE52211
Cadmium	ND (2.5)		6010C		1	KJK	05/23/15 21:43	50	25	CE52211
Chromium	ND (10.0)		6010C		1	KJK	05/23/15 21:43	50	25	CE52211
Lead	ND (10.0)		6010C		1	KJK	05/23/15 0:36	50	25	CE52211
Mercury	ND (0.20)		7470A		1	BJV	05/26/15 14:01	20	40	CE52230
Nickel	ND (25.0)		6010C		1	KJK	05/23/15 21:43	50	25	CE52211
Selenium	ND (10.0)		7010		2	KJK	05/31/15 9:44	50	25	CE52211
Silver	ND (5.0)		6010C		1	KJK	05/23/15 21:43	50	25	CE52211
Thallium	**EL** ND (3.0)		7010		3	KJK	05/29/15 20:31	50	25	CE52211
Vanadium	ND (10.0)		6010C		1	KJK	05/23/15 21:43	50	25	CE52211
Zinc	**26.6** (25.0)		6010C		1	KJK	05/23/15 21:43	50	25	CE52211

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett - MCP
Client Sample ID: SW-6-05-21-15
Date Sampled: 05/21/15 11:00
Percent Solids: N/A
Initial Volume: 1070
Final Volume: 1
Extraction Method: 3520C

ESS Laboratory Work Order: 1505527
ESS Laboratory Sample ID: 1505527-04
Sample Matrix: Surface Water
Units: ug/L
Analyst: ML
Prepared: 5/26/15 19:05

8270C Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (9.3)		8270C		1	05/28/15 1:27	CYE0367	CE52612
1,2-Dichlorobenzene	ND (9.3)		8270C		1	05/28/15 1:27	CYE0367	CE52612
1,3-Dichlorobenzene	ND (9.3)		8270C		1	05/28/15 1:27	CYE0367	CE52612
1,4-Dichlorobenzene	ND (9.3)		8270C		1	05/28/15 1:27	CYE0367	CE52612
2,4,5-Trichlorophenol	ND (9.3)		8270C		1	05/28/15 1:27	CYE0367	CE52612
2,4,6-Trichlorophenol	ND (9.3)		8270C		1	05/28/15 1:27	CYE0367	CE52612
2,4-Dichlorophenol	ND (9.3)		8270C		1	05/28/15 1:27	CYE0367	CE52612
2,4-Dimethylphenol	ND (46.7)		8270C		1	05/28/15 1:27	CYE0367	CE52612
2,4-Dinitrophenol	ND (46.7)		8270C		1	05/28/15 1:27	CYE0367	CE52612
2,4-Dinitrotoluene	ND (9.3)		8270C		1	05/28/15 1:27	CYE0367	CE52612
2,6-Dinitrotoluene	ND (9.3)		8270C		1	05/28/15 1:27	CYE0367	CE52612
2-Chloronaphthalene	ND (9.3)		8270C		1	05/28/15 1:27	CYE0367	CE52612
2-Chlorophenol	ND (9.3)		8270C		1	05/28/15 1:27	CYE0367	CE52612
2-Methylphenol	ND (9.3)		8270C		1	05/28/15 1:27	CYE0367	CE52612
2-Nitrophenol	ND (9.3)		8270C		1	05/28/15 1:27	CYE0367	CE52612
3,3´-Dichlorobenzidine	ND (18.7)		8270C		1	05/28/15 1:27	CYE0367	CE52612
3+4-Methylphenol	ND (18.7)		8270C		1	05/28/15 1:27	CYE0367	CE52612
4-Bromophenyl-phenylether	ND (9.3)		8270C		1	05/28/15 1:27	CYE0367	CE52612
4-Chloroaniline	ND (18.7)		8270C		1	05/28/15 1:27	CYE0367	CE52612
4-Nitrophenol	ND (46.7)		8270C		1	05/28/15 1:27	CYE0367	CE52612
Acetophenone	ND (9.3)		8270C		1	05/28/15 1:27	CYE0367	CE52612
Aniline	ND (9.3)		8270C		1	05/28/15 1:27	CYE0367	CE52612
Azobenzene	ND (18.7)		8270C		1	05/28/15 1:27	CYE0367	CE52612
bis(2-Chloroethoxy)methane	ND (9.3)		8270C		1	05/28/15 1:27	CYE0367	CE52612
bis(2-Chloroethyl)ether	ND (9.3)		8270C		1	05/28/15 1:27	CYE0367	CE52612
bis(2-chloroisopropyl)Ether	ND (9.3)		8270C		1	05/28/15 1:27	CYE0367	CE52612
bis(2-Ethylhexyl)phthalate	**6.0** (5.6)		8270C		1	05/28/15 1:27	CYE0367	CE52612
Butylbenzylphthalate	ND (9.3)		8270C		1	05/28/15 1:27	CYE0367	CE52612
Dibenzofuran	ND (9.3)		8270C		1	05/28/15 1:27	CYE0367	CE52612
Diethylphthalate	ND (9.3)		8270C		1	05/28/15 1:27	CYE0367	CE52612
Dimethylphthalate	ND (9.3)		8270C		1	05/28/15 1:27	CYE0367	CE52612
Di-n-butylphthalate	ND (9.3)		8270C		1	05/28/15 1:27	CYE0367	CE52612

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett - MCP
Client Sample ID: SW-6-05-21-15
Date Sampled: 05/21/15 11:00
Percent Solids: N/A
Initial Volume: 1070
Final Volume: 1
Extraction Method: 3520C

ESS Laboratory Work Order: 1505527
ESS Laboratory Sample ID: 1505527-04
Sample Matrix: Surface Water
Units: ug/L
Analyst: ML
Prepared: 5/26/15 19:05

8270C Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Di-n-octylphthalate	ND (9.3)		8270C		1	05/28/15 1:27	CYE0367	CE52612
Hexachlorobutadiene	ND (9.3)		8270C		1	05/28/15 1:27	CYE0367	CE52612
Hexachloroethane	ND (4.7)		8270C		1	05/28/15 1:27	CYE0367	CE52612
Isophorone	ND (9.3)		8270C		1	05/28/15 1:27	CYE0367	CE52612
Nitrobenzene	ND (9.3)		8270C		1	05/28/15 1:27	CYE0367	CE52612
N-Nitrosodimethylamine	ND (9.3)		8270C		1	05/28/15 1:27	CYE0367	CE52612
Phenol	ND (9.3)		8270C		1	05/28/15 1:27	CYE0367	CE52612

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*51 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*65 %*		*15-110*
Surrogate: 2-Chlorophenol-d4	*53 %*		*15-110*
Surrogate: 2-Fluorobiphenyl	*51 %*		*30-130*
Surrogate: 2-Fluorophenol	*50 %*		*15-110*
Surrogate: Nitrobenzene-d5	*49 %*		*30-130*
Surrogate: Phenol-d6	*53 %*		*15-110*
Surrogate: p-Terphenyl-d14	*51 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett - MCP
Client Sample ID: SW-6-05-21-15
Date Sampled: 05/21/15 11:00
Percent Solids: N/A
Initial Volume: 1070
Final Volume: 0.25
Extraction Method: 3510C

ESS Laboratory Work Order: 1505527
ESS Laboratory Sample ID: 1505527-04
Sample Matrix: Surface Water
Units: ug/L
Analyst: VSC
Prepared: 5/26/15 17:45

8270D(SIM) Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	ND (0.19)		8270D SIM		1	05/27/15 19:01	CYE0340	CE52636
Acenaphthene	ND (0.19)		8270D SIM		1	05/27/15 19:01	CYE0340	CE52636
Acenaphthylene	ND (0.19)		8270D SIM		1	05/27/15 19:01	CYE0340	CE52636
Anthracene	ND (0.19)		8270D SIM		1	05/27/15 19:01	CYE0340	CE52636
Benzo(a)anthracene	**0.14** (0.05)		8270D SIM		1	05/27/15 19:01	CYE0340	CE52636
Benzo(a)pyrene	**0.18** (0.05)		8270D SIM		1	05/27/15 19:01	CYE0340	CE52636
Benzo(b)fluoranthene	**0.28** (0.05)		8270D SIM		1	05/27/15 19:01	CYE0340	CE52636
Benzo(g,h,i)perylene	ND (0.19)		8270D SIM		1	05/27/15 19:01	CYE0340	CE52636
Benzo(k)fluoranthene	**0.10** (0.05)		8270D SIM		1	05/27/15 19:01	CYE0340	CE52636
Chrysene	**0.20** (0.05)		8270D SIM		1	05/27/15 19:01	CYE0340	CE52636
Dibenzo(a,h)Anthracene	ND (0.05)		8270D SIM		1	05/27/15 19:01	CYE0340	CE52636
Fluoranthene	**0.33** (0.19)		8270D SIM		1	05/27/15 19:01	CYE0340	CE52636
Fluorene	ND (0.19)		8270D SIM		1	05/27/15 19:01	CYE0340	CE52636
Hexachlorobenzene	ND (0.19)		8270D SIM		1	05/27/15 19:01	CYE0340	CE52636
Indeno(1,2,3-cd)Pyrene	**0.17** (0.05)		8270D SIM		1	05/27/15 19:01	CYE0340	CE52636
Naphthalene	ND (0.19)		8270D SIM		1	05/27/15 19:01	CYE0340	CE52636
Pentachlorophenol	ND (0.84)		8270D SIM		1	05/27/15 19:01	CYE0340	CE52636
Phenanthrene	ND (0.19)		8270D SIM		1	05/27/15 19:01	CYE0340	CE52636
Pyrene	**0.28** (0.19)		8270D SIM		1	05/27/15 19:01	CYE0340	CE52636

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*44 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*103 %*		*15-110*
Surrogate: 2-Fluorobiphenyl	*58 %*		*30-130*
Surrogate: Nitrobenzene-d5	*70 %*		*30-130*
Surrogate: p-Terphenyl-d14	*73 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett - MCP
Client Sample ID: SW-6-05-21-15
Date Sampled: 05/21/15 11:00
Percent Solids: N/A

ESS Laboratory Work Order: 1505527
ESS Laboratory Sample ID: 1505527-04
Sample Matrix: Surface Water

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Hexavalent Chromium	ND (10)		7196A		1	JLK	05/22/15 7:37	ug/L	CE52201

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett - MCP
Client Sample ID: SW-6-05-21-15
Date Sampled: 05/21/15 11:00
Percent Solids: N/A
Initial Volume: 1050
Final Volume: 1
Extraction Method: 3510C

ESS Laboratory Work Order: 1505527
ESS Laboratory Sample ID: 1505527-04
Sample Matrix: Surface Water
Units: ug/L

Prepared: 5/22/15 12:48

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (95)		MADEP-EPH		1	DPS	05/27/15 20:35	CYE0371	CE52232
C19-C36 Aliphatics1	**134** (95)		MADEP-EPH		1	DPS	05/27/15 20:35	CYE0371	CE52232
C11-C22 Unadjusted Aromatics1	ND (95.2)		EPH8270		1	JXS	05/26/15 21:54	CYE0328	CE52232
C11-C22 Aromatics1,2	ND (95.2)		EPH8270			JXS	05/26/15 21:54		[CALC]
Preservative:	**pH <= 2**		MADEP-EPH			DPS			CE52232

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*62 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*73 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*93 %*		*40-140*
Surrogate: O-Terphenyl	*64 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett - MCP

ESS Laboratory Work Order: 1505527

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Dissolved Metals										
Batch CE52211 - 3005A/200.7										
Blank										
Antimony	ND	2.5	ug/L							
Arsenic	ND	25.0	ug/L							
Arsenic	ND	2.5	ug/L							
Barium	ND	25.0	ug/L							
Beryllium	ND	0.5	ug/L							
Cadmium	ND	2.5	ug/L							
Chromium	ND	10.0	ug/L							
Lead	ND	10.0	ug/L							
Nickel	ND	25.0	ug/L							
Selenium	ND	5.0	ug/L							
Silver	ND	5.0	ug/L							
Thallium	ND	1.0	ug/L							
Vanadium	ND	10.0	ug/L							
Zinc	ND	25.0	ug/L							
LCS										
Antimony	291	50.0	ug/L	250.0		116	80-120			
Arsenic	243	25.0	ug/L	250.0		97	80-120			
Arsenic	220	50.0	ug/L	250.0		88	80-120			
Barium	227	25.0	ug/L	250.0		91	80-120			
Beryllium	23.4	0.5	ug/L	25.00		94	80-120			
Cadmium	117	2.5	ug/L	125.0		93	80-120			
Chromium	230	10.0	ug/L	250.0		92	80-120			
Lead	226	10.0	ug/L	250.0		90	80-120			
Nickel	236	25.0	ug/L	250.0		94	80-120			
Selenium	583	100	ug/L	500.0		117	80-120			
Silver	117	5.0	ug/L	125.0		94	80-120			
Thallium	226	20.0	ug/L	250.0		90	80-120			
Vanadium	230	10.0	ug/L	250.0		92	80-120			
Zinc	240	25.0	ug/L	250.0		96	80-120			
LCS Dup										
Antimony	242	50.0	ug/L	250.0		97	80-120	18	20	
Arsenic	200	25.0	ug/L	250.0		80	80-120	20	20	
Arsenic	184	50.0	ug/L	250.0		74	80-120	18	20	B-
Barium	188	25.0	ug/L	250.0		75	80-120	19	20	B-
Beryllium	19.5	0.5	ug/L	25.00		78	80-120	18	20	B-
Cadmium	96.6	2.5	ug/L	125.0		77	80-120	19	20	B-
Chromium	191	10.0	ug/L	250.0		76	80-120	19	20	B-
Lead	184	10.0	ug/L	250.0		74	80-120	20	20	B-
Nickel	196	25.0	ug/L	250.0		79	80-120	18	20	B-
Selenium	491	100	ug/L	500.0		98	80-120	17	20	
Silver	96.5	5.0	ug/L	125.0		77	80-120	19	20	B-
Thallium	205	20.0	ug/L	250.0		82	80-120	9	20	
Vanadium	190	10.0	ug/L	250.0		76	80-120	19	20	B-
Zinc	200	25.0	ug/L	250.0		80	80-120	18	20	

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett - MCP

ESS Laboratory Work Order: 1505527

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Dissolved Metals										
Batch CE52230 - 245.1/7470A										
Blank										
Mercury	ND	0.20	ug/L							
LCS										
Mercury	6.03	0.20	ug/L	6.000		101	80-120			
LCS Dup										
Mercury	6.14	0.20	ug/L	6.000		102	80-120	2	20	
8270C Semi-Volatile Organic Compounds										
Batch CE52612 - 3520C										
Blank										
1,2,4-Trichlorobenzene	ND	10.0	ug/L							
1,2-Dichlorobenzene	ND	10.0	ug/L							
1,3-Dichlorobenzene	ND	10.0	ug/L							
1,4-Dichlorobenzene	ND	10.0	ug/L							
2,4,5-Trichlorophenol	ND	10.0	ug/L							
2,4,6-Trichlorophenol	ND	10.0	ug/L							
2,4-Dichlorophenol	ND	10.0	ug/L							
2,4-Dimethylphenol	ND	50.0	ug/L							
2,4-Dinitrophenol	ND	50.0	ug/L							
2,4-Dinitrotoluene	ND	10.0	ug/L							
2,6-Dinitrotoluene	ND	10.0	ug/L							
2-Chloronaphthalene	ND	10.0	ug/L							
2-Chlorophenol	ND	10.0	ug/L							
2-Methylphenol	ND	10.0	ug/L							
2-Nitrophenol	ND	10.0	ug/L							
3,3´-Dichlorobenzidine	ND	20.0	ug/L							
3+4-Methylphenol	ND	20.0	ug/L							
4-Bromophenyl-phenylether	ND	10.0	ug/L							
4-Chloroaniline	ND	20.0	ug/L							
4-Nitrophenol	ND	50.0	ug/L							
Acetophenone	ND	10.0	ug/L							
Aniline	ND	10.0	ug/L							
Azobenzene	ND	20.0	ug/L							
bis(2-Chloroethoxy)methane	ND	10.0	ug/L							
bis(2-Chloroethyl)ether	ND	10.0	ug/L							
bis(2-chloroisopropyl)Ether	ND	10.0	ug/L							
bis(2-Ethylhexyl)phthalate	ND	6.0	ug/L							
Butylbenzylphthalate	ND	10.0	ug/L							
Dibenzofuran	ND	10.0	ug/L							
Diethylphthalate	ND	10.0	ug/L							
Dimethylphthalate	ND	10.0	ug/L							
Di-n-butylphthalate	ND	10.0	ug/L							
Di-n-octylphthalate	ND	10.0	ug/L							
Hexachlorobutadiene	ND	10.0	ug/L							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett - MCP

ESS Laboratory Work Order: 1505527

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270C Semi-Volatile Organic Compounds										
Batch CE52612 - 3520C										
Hexachloroethane	ND	5.0	ug/L							
Isophorone	ND	10.0	ug/L							
Nitrobenzene	ND	10.0	ug/L							
N-Nitrosodimethylamine	ND	10.0	ug/L							
Phenol	ND	10.0	ug/L							
Surrogate: 1,2-Dichlorobenzene-d4	*60.5*		ug/L	*100.0*		*60*	*30-130*			
Surrogate: 2,4,6-Tribromophenol	*99.8*		ug/L	*150.0*		*67*	*15-110*			
Surrogate: 2-Chlorophenol-d4	*96.9*		ug/L	*150.0*		*65*	*15-110*			
Surrogate: 2-Fluorobiphenyl	*60.9*		ug/L	*100.0*		*61*	*30-130*			
Surrogate: 2-Fluorophenol	*85.5*		ug/L	*150.0*		*57*	*15-110*			
Surrogate: Nitrobenzene-d5	*64.1*		ug/L	*100.0*		*64*	*30-130*			
Surrogate: Phenol-d6	*96.1*		ug/L	*150.0*		*64*	*15-110*			
Surrogate: p-Terphenyl-d14	*69.1*		ug/L	*100.0*		*69*	*30-130*			
LCS										
1,2,4-Trichlorobenzene	56.1	10.0	ug/L	100.0		56	40-140			
1,2-Dichlorobenzene	44.5	10.0	ug/L	100.0		44	40-140			
1,3-Dichlorobenzene	43.1	10.0	ug/L	100.0		43	40-140			
1,4-Dichlorobenzene	42.8	10.0	ug/L	100.0		43	40-140			
2,4,5-Trichlorophenol	69.3	10.0	ug/L	100.0		69	30-130			
2,4,6-Trichlorophenol	64.4	10.0	ug/L	100.0		64	30-130			
2,4-Dichlorophenol	61.3	10.0	ug/L	100.0		61	30-130			
2,4-Dimethylphenol	63.6	50.0	ug/L	100.0		64	30-130			
2,4-Dinitrophenol	42.1	50.0	ug/L	100.0		42	30-130			
2,4-Dinitrotoluene	68.3	10.0	ug/L	100.0		68	40-140			
2,6-Dinitrotoluene	65.3	10.0	ug/L	100.0		65	40-140			
2-Chloronaphthalene	89.0	10.0	ug/L	100.0		89	40-140			
2-Chlorophenol	56.0	10.0	ug/L	100.0		56	30-130			
2-Methylphenol	58.3	10.0	ug/L	100.0		58	30-130			
2-Nitrophenol	57.6	10.0	ug/L	100.0		58	30-130			
3,3´-Dichlorobenzidine	56.3	20.0	ug/L	100.0		56	40-140			
3+4-Methylphenol	125	20.0	ug/L	200.0		63	30-130			
4-Bromophenyl-phenylether	63.3	10.0	ug/L	100.0		63	40-140			
4-Chloroaniline	51.6	20.0	ug/L	100.0		52	40-140			
4-Nitrophenol	48.6	50.0	ug/L	100.0		49	30-130			
Acetophenone	59.4	10.0	ug/L	100.0		59	40-140			
Aniline	47.4	10.0	ug/L	100.0		47	40-140			
Azobenzene	58.0	20.0	ug/L	100.0		58	40-140			
bis(2-Chloroethoxy)methane	57.0	10.0	ug/L	100.0		57	40-140			
bis(2-Chloroethyl)ether	74.8	10.0	ug/L	100.0		75	40-140			
bis(2-chloroisopropyl)Ether	57.0	10.0	ug/L	100.0		57	40-140			
bis(2-Ethylhexyl)phthalate	66.1	6.0	ug/L	100.0		66	40-140			
Butylbenzylphthalate	64.1	10.0	ug/L	100.0		64	40-140			
Dibenzofuran	63.9	10.0	ug/L	100.0		64	40-140			
Diethylphthalate	69.0	10.0	ug/L	100.0		69	40-140			
Dimethylphthalate	65.3	10.0	ug/L	100.0		65	40-140			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett - MCP

ESS Laboratory Work Order: 1505527

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270C Semi-Volatile Organic Compounds										
Batch CE52612 - 3520C										
Di-n-butylphthalate	69.8	10.0	ug/L	100.0		70	40-140			
Di-n-octylphthalate	70.3	10.0	ug/L	100.0		70	40-140			
Hexachlorobutadiene	55.3	10.0	ug/L	100.0		55	40-140			
Hexachloroethane	43.5	5.0	ug/L	100.0		44	40-140			
Isophorone	54.7	10.0	ug/L	100.0		55	40-140			
Nitrobenzene	60.3	10.0	ug/L	100.0		60	40-140			
N-Nitrosodimethylamine	82.1	10.0	ug/L	100.0		82	40-140			
Phenol	55.2	10.0	ug/L	100.0		55	30-130			
Surrogate: 1,2-Dichlorobenzene-d4	*63.8*		ug/L	*100.0*		*64*	*30-130*			
Surrogate: 2,4,6-Tribromophenol	*114*		ug/L	*150.0*		*76*	*15-110*			
Surrogate: 2-Chlorophenol-d4	*96.8*		ug/L	*150.0*		*64*	*15-110*			
Surrogate: 2-Fluorobiphenyl	*70.2*		ug/L	*100.0*		*70*	*30-130*			
Surrogate: 2-Fluorophenol	*83.5*		ug/L	*150.0*		*56*	*15-110*			
Surrogate: Nitrobenzene-d5	*66.6*		ug/L	*100.0*		*67*	*30-130*			
Surrogate: Phenol-d6	*97.9*		ug/L	*150.0*		*65*	*15-110*			
Surrogate: p-Terphenyl-d14	*71.3*		ug/L	*100.0*		*71*	*30-130*			
LCS Dup										
1,2,4-Trichlorobenzene	59.0	10.0	ug/L	100.0		59	40-140	5	20	
1,2-Dichlorobenzene	47.5	10.0	ug/L	100.0		47	40-140	7	20	
1,3-Dichlorobenzene	45.9	10.0	ug/L	100.0		46	40-140	6	20	
1,4-Dichlorobenzene	45.2	10.0	ug/L	100.0		45	40-140	6	20	
2,4,5-Trichlorophenol	73.5	10.0	ug/L	100.0		74	30-130	6	20	
2,4,6-Trichlorophenol	68.4	10.0	ug/L	100.0		68	30-130	6	20	
2,4-Dichlorophenol	66.9	10.0	ug/L	100.0		67	30-130	9	20	
2,4-Dimethylphenol	66.6	50.0	ug/L	100.0		67	30-130	5	20	
2,4-Dinitrophenol	45.8	50.0	ug/L	100.0		46	30-130	8	20	
2,4-Dinitrotoluene	72.0	10.0	ug/L	100.0		72	40-140	5	20	
2,6-Dinitrotoluene	71.8	10.0	ug/L	100.0		72	40-140	9	20	
2-Chloronaphthalene	93.2	10.0	ug/L	100.0		93	40-140	5	20	
2-Chlorophenol	61.3	10.0	ug/L	100.0		61	30-130	9	20	
2-Methylphenol	62.5	10.0	ug/L	100.0		62	30-130	7	20	
2-Nitrophenol	61.0	10.0	ug/L	100.0		61	30-130	6	20	
3,3´-Dichlorobenzidine	59.3	20.0	ug/L	100.0		59	40-140	5	20	
3+4-Methylphenol	133	20.0	ug/L	200.0		66	30-130	6	20	
4-Bromophenyl-phenylether	66.8	10.0	ug/L	100.0		67	40-140	5	20	
4-Chloroaniline	51.0	20.0	ug/L	100.0		51	40-140	1	20	
4-Nitrophenol	51.1	50.0	ug/L	100.0		51	30-130	5	20	
Acetophenone	63.1	10.0	ug/L	100.0		63	40-140	6	20	
Aniline	50.2	10.0	ug/L	100.0		50	40-140	6	20	
Azobenzene	61.1	20.0	ug/L	100.0		61	40-140	5	20	
bis(2-Chloroethoxy)methane	59.1	10.0	ug/L	100.0		59	40-140	4	20	
bis(2-Chloroethyl)ether	80.6	10.0	ug/L	100.0		81	40-140	8	20	
bis(2-chloroisopropyl)Ether	58.9	10.0	ug/L	100.0		59	40-140	3	20	
bis(2-Ethylhexyl)phthalate	71.1	6.0	ug/L	100.0		71	40-140	7	20	
Butylbenzylphthalate	66.9	10.0	ug/L	100.0		67	40-140	4	20	

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett - MCP

ESS Laboratory Work Order: 1505527

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270C Semi-Volatile Organic Compounds										
Batch CE52612 - 3520C										
Dibenzofuran	66.2	10.0	ug/L	100.0		66	40-140	4	20	
Diethylphthalate	74.2	10.0	ug/L	100.0		74	40-140	7	20	
Dimethylphthalate	70.5	10.0	ug/L	100.0		70	40-140	8	20	
Di-n-butylphthalate	73.9	10.0	ug/L	100.0		74	40-140	6	20	
Di-n-octylphthalate	75.2	10.0	ug/L	100.0		75	40-140	7	20	
Hexachlorobutadiene	59.0	10.0	ug/L	100.0		59	40-140	7	20	
Hexachloroethane	46.4	5.0	ug/L	100.0		46	40-140	6	20	
Isophorone	59.1	10.0	ug/L	100.0		59	40-140	8	20	
Nitrobenzene	63.7	10.0	ug/L	100.0		64	40-140	5	20	
N-Nitrosodimethylamine	84.9	10.0	ug/L	100.0		85	40-140	3	20	
Phenol	60.3	10.0	ug/L	100.0		60	30-130	9	20	
Surrogate: 1,2-Dichlorobenzene-d4	*62.1*		ug/L	*100.0*		*62*	*30-130*			
Surrogate: 2,4,6-Tribromophenol	*115*		ug/L	*150.0*		*77*	*15-110*			
Surrogate: 2-Chlorophenol-d4	*98.3*		ug/L	*150.0*		*66*	*15-110*			
Surrogate: 2-Fluorobiphenyl	*68.0*		ug/L	*100.0*		*68*	*30-130*			
Surrogate: 2-Fluorophenol	*87.6*		ug/L	*150.0*		*58*	*15-110*			
Surrogate: Nitrobenzene-d5	*65.1*		ug/L	*100.0*		*65*	*30-130*			
Surrogate: Phenol-d6	*97.2*		ug/L	*150.0*		*65*	*15-110*			
Surrogate: p-Terphenyl-d14	*69.8*		ug/L	*100.0*		*70*	*30-130*			
8270D(SIM) Semi-Volatile Organic Compounds										
Batch CE52636 - 3510C										
Blank										
2-Methylnaphthalene	ND	0.20	ug/L							
Acenaphthene	ND	0.20	ug/L							
Acenaphthylene	ND	0.20	ug/L							
Anthracene	ND	0.20	ug/L							
Benzo(a)anthracene	ND	0.05	ug/L							
Benzo(a)pyrene	ND	0.05	ug/L							
Benzo(b)fluoranthene	ND	0.05	ug/L							
Benzo(g,h,i)perylene	ND	0.20	ug/L							
Benzo(k)fluoranthene	ND	0.05	ug/L							
Chrysene	ND	0.05	ug/L							
Dibenzo(a,h)Anthracene	ND	0.05	ug/L							
Fluoranthene	ND	0.20	ug/L							
Fluorene	ND	0.20	ug/L							
Hexachlorobenzene	ND	0.20	ug/L							
Indeno(1,2,3-cd)Pyrene	ND	0.05	ug/L							
Naphthalene	ND	0.20	ug/L							
Pentachlorophenol	ND	0.90	ug/L							
Phenanthrene	ND	0.20	ug/L							
Pyrene	ND	0.20	ug/L							
Surrogate: 1,2-Dichlorobenzene-d4	*1.27*		ug/L	*2.500*		*51*	*30-130*			
Surrogate: 2,4,6-Tribromophenol	*4.49*		ug/L	*3.750*		*120*	*15-110*			*S+*
Surrogate: 2-Fluorobiphenyl	*1.58*		ug/L	*2.500*		*63*	*30-130*			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett - MCP

ESS Laboratory Work Order: 1505527

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D(SIM) Semi-Volatile Organic Compounds										
Batch CE52636 - 3510C										
Surrogate: Nitrobenzene-d5	*2.05*		ug/L	*2.500*		*82*	*30-130*			
Surrogate: p-Terphenyl-d14	*1.93*		ug/L	*2.500*		*77*	*30-130*			
LCS										
2-Methylnaphthalene	1.84	0.20	ug/L	4.000		46	40-140			
Acenaphthene	2.38	0.20	ug/L	4.000		59	40-140			
Acenaphthylene	2.31	0.20	ug/L	4.000		58	40-140			
Anthracene	2.88	0.20	ug/L	4.000		72	40-140			
Benzo(a)anthracene	3.06	0.05	ug/L	4.000		77	40-140			
Benzo(a)pyrene	3.21	0.05	ug/L	4.000		80	40-140			
Benzo(b)fluoranthene	3.21	0.05	ug/L	4.000		80	40-140			
Benzo(g,h,i)perylene	3.19	0.20	ug/L	4.000		80	40-140			
Benzo(k)fluoranthene	3.40	0.05	ug/L	4.000		85	40-140			
Chrysene	3.14	0.05	ug/L	4.000		78	40-140			
Dibenzo(a,h)Anthracene	3.17	0.05	ug/L	4.000		79	40-140			
Fluoranthene	3.10	0.20	ug/L	4.000		77	40-140			
Fluorene	2.53	0.20	ug/L	4.000		63	40-140			
Hexachlorobenzene	3.21	0.20	ug/L	4.000		80	40-140			
Indeno(1,2,3-cd)Pyrene	3.20	0.05	ug/L	4.000		80	40-140			
Naphthalene	2.02	0.20	ug/L	4.000		51	40-140			
Pentachlorophenol	1.83	0.90	ug/L	4.000		46	30-130			
Phenanthrene	2.78	0.20	ug/L	4.000		69	40-140			
Pyrene	3.10	0.20	ug/L	4.000		77	40-140			
Surrogate: 1,2-Dichlorobenzene-d4	*0.991*		ug/L	*2.500*		*40*	*30-130*			
Surrogate: 2,4,6-Tribromophenol	*4.10*		ug/L	*3.750*		*109*	*15-110*			
Surrogate: 2-Fluorobiphenyl	*1.33*		ug/L	*2.500*		*53*	*30-130*			
Surrogate: Nitrobenzene-d5	*1.56*		ug/L	*2.500*		*62*	*30-130*			
Surrogate: p-Terphenyl-d14	*1.72*		ug/L	*2.500*		*69*	*30-130*			
LCS Dup										
2-Methylnaphthalene	1.75	0.20	ug/L	4.000		44	40-140	5	20	
Acenaphthene	2.20	0.20	ug/L	4.000		55	40-140	8	20	
Acenaphthylene	2.16	0.20	ug/L	4.000		54	40-140	6	20	
Anthracene	2.84	0.20	ug/L	4.000		71	40-140	1	20	
Benzo(a)anthracene	3.22	0.05	ug/L	4.000		81	40-140	5	20	
Benzo(a)pyrene	3.46	0.05	ug/L	4.000		86	40-140	8	20	
Benzo(b)fluoranthene	3.42	0.05	ug/L	4.000		86	40-140	7	20	
Benzo(g,h,i)perylene	3.43	0.20	ug/L	4.000		86	40-140	7	20	
Benzo(k)fluoranthene	3.62	0.05	ug/L	4.000		91	40-140	6	20	
Chrysene	3.30	0.05	ug/L	4.000		83	40-140	5	20	
Dibenzo(a,h)Anthracene	3.42	0.05	ug/L	4.000		85	40-140	8	20	
Fluoranthene	3.39	0.20	ug/L	4.000		85	40-140	9	20	
Fluorene	2.33	0.20	ug/L	4.000		58	40-140	8	20	
Hexachlorobenzene	3.13	0.20	ug/L	4.000		78	40-140	2	20	
Indeno(1,2,3-cd)Pyrene	3.42	0.05	ug/L	4.000		85	40-140	6	20	
Naphthalene	1.94	0.20	ug/L	4.000		48	40-140	4	20	

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
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ESS Laboratory Work Order: 1505527

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D(SIM) Semi-Volatile Organic Compounds										
Batch CE52636 - 3510C										
Pentachlorophenol	2.08	0.90	ug/L	4.000		52	30-130	13	20	
Phenanthrene	2.72	0.20	ug/L	4.000		68	40-140	2	20	
Pyrene	3.18	0.20	ug/L	4.000		80	40-140	3	20	
Surrogate: 1,2-Dichlorobenzene-d4	*0.995*		ug/L	*2.500*		*40*	*30-130*			
Surrogate: 2,4,6-Tribromophenol	*4.14*		ug/L	*3.750*		*110*	*15-110*			
Surrogate: 2-Fluorobiphenyl	*1.30*		ug/L	*2.500*		*52*	*30-130*			
Surrogate: Nitrobenzene-d5	*1.53*		ug/L	*2.500*		*61*	*30-130*			
Surrogate: p-Terphenyl-d14	*1.81*		ug/L	*2.500*		*72*	*30-130*			
Classical Chemistry										
Batch CE52201 - General Preparation										
Blank										
Hexavalent Chromium	ND	10	ug/L							
LCS										
Hexavalent Chromium	0.5		mg/L	0.4998		98	90-110			
LCS Dup										
Hexavalent Chromium	0.5		mg/L	0.4998		98	90-110	0.3	20	
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CE52232 - 3510C										
Blank										
C19-C36 Aliphatics1	ND	100	ug/L							
C9-C18 Aliphatics1	ND	100	ug/L							
Decane (C10)	ND	5	ug/L							
Docosane (C22)	ND	5	ug/L							
Dodecane (C12)	ND	5	ug/L							
Eicosane (C20)	ND	5	ug/L							
Hexacosane (C26)	ND	5	ug/L							
Hexadecane (C16)	ND	5	ug/L							
Hexatriacontane (C36)	ND	5	ug/L							
Nonadecane (C19)	ND	5	ug/L							
Nonane (C9)	ND	5	ug/L							
Octacosane (C28)	ND	5	ug/L							
Octadecane (C18)	ND	5	ug/L							
Tetracosane (C24)	ND	5	ug/L							
Tetradecane (C14)	ND	5	ug/L							
Triacontane (C30)	ND	5	ug/L							
Surrogate: 1-Chlorooctadecane	*34.9*		ug/L	*50.00*		*70*	*40-140*			
Blank										
2-Methylnaphthalene	ND	5.0	ug/L							
Acenaphthene	ND	5.0	ug/L							
Acenaphthylene	ND	5.0	ug/L							
Anthracene	ND	5.0	ug/L							

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ESS Laboratory Work Order: 1505527

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CE52232 - 3510C										
Benzo(a)anthracene	ND	5.0	ug/L							
Benzo(a)pyrene	ND	10.0	ug/L							
Benzo(b)fluoranthene	ND	5.0	ug/L							
Benzo(g,h,i)perylene	ND	10.0	ug/L							
Benzo(k)fluoranthene	ND	10.0	ug/L							
C11-C22 Unadjusted Aromatics1	ND	100	ug/L							
Chrysene	ND	10.0	ug/L							
Dibenzo(a,h)Anthracene	ND	5.0	ug/L							
Fluoranthene	ND	10.0	ug/L							
Fluorene	ND	5.0	ug/L							
Indeno(1,2,3-cd)Pyrene	ND	5.0	ug/L							
Naphthalene	ND	10.0	ug/L							
Phenanthrene	ND	5.0	ug/L							
Pyrene	ND	5.0	ug/L							
Surrogate: 2-Bromonaphthalene	*51.0*		ug/L	*50.00*		*102*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*54.0*		ug/L	*50.00*		*108*	*40-140*			
Surrogate: O-Terphenyl	*44.0*		ug/L	*50.00*		*88*	*40-140*			
LCS										
C19-C36 Aliphatics1	391	100	ug/L	400.0		98	40-140			
C9-C18 Aliphatics1	228	100	ug/L	300.0		76	40-140			
Decane (C10)	28	5	ug/L	50.00		57	40-140			
Docosane (C22)	48	5	ug/L	50.00		95	40-140			
Dodecane (C12)	32	5	ug/L	50.00		65	40-140			
Eicosane (C20)	48	5	ug/L	50.00		96	40-140			
Hexacosane (C26)	49	5	ug/L	50.00		97	40-140			
Hexadecane (C16)	46	5	ug/L	50.00		92	40-140			
Hexatriacontane (C36)	49	5	ug/L	50.00		97	40-140			
Nonadecane (C19)	48	5	ug/L	50.00		97	40-140			
Nonane (C9)	21	5	ug/L	50.00		42	30-140			
Octacosane (C28)	48	5	ug/L	50.00		96	40-140			
Octadecane (C18)	47	5	ug/L	50.00		95	40-140			
Tetracosane (C24)	46	5	ug/L	50.00		91	40-140			
Tetradecane (C14)	42	5	ug/L	50.00		84	40-140			
Triacontane (C30)	49	5	ug/L	50.00		99	40-140			
Surrogate: 1-Chlorooctadecane	*39.1*		ug/L	*50.00*		*78*	*40-140*			
LCS										
2-Methylnaphthalene	47.0	5.0	ug/L	50.00		94	40-140			
Acenaphthene	48.5	5.0	ug/L	50.00		97	40-140			
Acenaphthylene	50.8	5.0	ug/L	50.00		102	40-140			
Anthracene	52.0	5.0	ug/L	50.00		104	40-140			
Benzo(a)anthracene	51.6	5.0	ug/L	50.00		103	40-140			
Benzo(a)pyrene	57.8	10.0	ug/L	50.00		116	40-140			
Benzo(b)fluoranthene	49.3	5.0	ug/L	50.00		99	40-140			
Benzo(g,h,i)perylene	54.7	10.0	ug/L	50.00		109	40-140			

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ESS Laboratory Work Order: 1505527

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CE52232 - 3510C										
Benzo(k)fluoranthene	50.1	10.0	ug/L	50.00		100	40-140			
C11-C22 Unadjusted Aromatics1	891	100	ug/L	850.0		105	40-140			
Chrysene	53.2	10.0	ug/L	50.00		106	40-140			
Dibenzo(a,h)Anthracene	56.1	5.0	ug/L	50.00		112	40-140			
Fluoranthene	50.5	10.0	ug/L	50.00		101	40-140			
Fluorene	51.6	5.0	ug/L	50.00		103	40-140			
Indeno(1,2,3-cd)Pyrene	55.0	5.0	ug/L	50.00		110	40-140			
Naphthalene	44.6	10.0	ug/L	50.00		89	40-140			
Phenanthrene	52.0	5.0	ug/L	50.00		104	40-140			
Pyrene	50.8	5.0	ug/L	50.00		102	40-140			
Surrogate: 2-Bromonaphthalene	*51.7*		ug/L	*50.00*		*103*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*55.2*		ug/L	*50.00*		*110*	*40-140*			
Surrogate: O-Terphenyl	*47.4*		ug/L	*50.00*		*95*	*40-140*			
LCS										
2-Methylnaphthalene Breakthrough	0.0		%				0-5			
Naphthalene Breakthrough	0.0		%				0-5			
LCS Dup										
C19-C36 Aliphatics1	384	100	ug/L	400.0		96	40-140	2	25	
C9-C18 Aliphatics1	223	100	ug/L	300.0		74	40-140	2	25	
Decane (C10)	27	5	ug/L	50.00		55	40-140	3	25	
Docosane (C22)	47	5	ug/L	50.00		93	40-140	2	25	
Dodecane (C12)	31	5	ug/L	50.00		63	40-140	3	25	
Eicosane (C20)	47	5	ug/L	50.00		94	40-140	2	25	
Hexacosane (C26)	48	5	ug/L	50.00		95	40-140	2	25	
Hexadecane (C16)	45	5	ug/L	50.00		91	40-140	1	25	
Hexatriacontane (C36)	48	5	ug/L	50.00		95	40-140	2	25	
Nonadecane (C19)	47	5	ug/L	50.00		95	40-140	2	25	
Nonane (C9)	21	5	ug/L	50.00		41	30-140	3	25	
Octacosane (C28)	47	5	ug/L	50.00		94	40-140	2	25	
Octadecane (C18)	47	5	ug/L	50.00		93	40-140	2	25	
Tetracosane (C24)	45	5	ug/L	50.00		90	40-140	2	25	
Tetradecane (C14)	41	5	ug/L	50.00		82	40-140	2	25	
Triacontane (C30)	48	5	ug/L	50.00		97	40-140	2	25	
Surrogate: 1-Chlorooctadecane	*36.7*		ug/L	*50.00*		*73*	*40-140*			
LCS Dup										
2-Methylnaphthalene	42.0	5.0	ug/L	50.00		84	40-140	11	20	
Acenaphthene	44.6	5.0	ug/L	50.00		89	40-140	8	20	
Acenaphthylene	45.9	5.0	ug/L	50.00		92	40-140	10	20	
Anthracene	49.9	5.0	ug/L	50.00		100	40-140	4	20	
Benzo(a)anthracene	50.7	5.0	ug/L	50.00		101	40-140	2	20	
Benzo(a)pyrene	56.0	10.0	ug/L	50.00		112	40-140	3	20	
Benzo(b)fluoranthene	49.1	5.0	ug/L	50.00		98	40-140	0.5	20	
Benzo(g,h,i)perylene	53.4	10.0	ug/L	50.00		107	40-140	2	20	
Benzo(k)fluoranthene	50.5	10.0	ug/L	50.00		101	40-140	0.8	20	

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett - MCP

ESS Laboratory Work Order: 1505527

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CE52232 - 3510C										
C11-C22 Unadjusted Aromatics1	828	100	ug/L	850.0		97	40-140	7	25	
Chrysene	50.5	10.0	ug/L	50.00		101	40-140	5	20	
Dibenzo(a,h)Anthracene	53.9	5.0	ug/L	50.00		108	40-140	4	20	
Fluoranthene	48.6	10.0	ug/L	50.00		97	40-140	4	20	
Fluorene	46.9	5.0	ug/L	50.00		94	40-140	10	20	
Indeno(1,2,3-cd)Pyrene	54.2	5.0	ug/L	50.00		108	40-140	1	20	
Naphthalene	41.3	10.0	ug/L	50.00		83	40-140	8	20	
Phenanthrene	48.8	5.0	ug/L	50.00		98	40-140	6	20	
Pyrene	49.3	5.0	ug/L	50.00		99	40-140	3	20	
Surrogate: 2-Bromonaphthalene	*48.8*		ug/L	*50.00*		*98*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*51.4*		ug/L	*50.00*		*103*	*40-140*			
Surrogate: O-Terphenyl	*42.2*		ug/L	*50.00*		*84*	*40-140*			
LCS Dup										
2-Methylnaphthalene Breakthrough	0.0		%				0-5		200	
Naphthalene Breakthrough	0.0		%				0-5		200	

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett - MCP

ESS Laboratory Work Order: 1505527

Notes and Definitions

Z-06	pH <= 2
U	Analyte included in the analysis, but not detected
S+	Surrogate recovery(ies) above upper control limit (S+).
Q	Calibration required quadratic regression (Q).
IC	Internal Standard(s) outside of criteria. Sample was reanalyzed to confirm (IC).
EL	Elevated Method Reporting Limits due to sample matrix (EL).
D	Diluted.
C+	Continuing Calibration recovery is above upper control limit (C+).
B-	Blank Spike recovery is below lower control limit (B-).
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	Detection Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett - MCP

ESS Laboratory Work Order: 1505527

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Department of Defense (DoD) Environmental Laboratory Accreditation Program (ELAP)
A2LA Accredited: Testing Cert# 2864.01
http://www.a2la.org/scopepdf/2864-01.pdf

Rhode Island Potable and Non Potable Water: LAI00179
http://www.health.ri.gov/find/labs/analytical/ESS.pdf

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750
http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI0002
http://www.maine.gov/dhhs/mecdc/environmental-health/water/dwp-services/labcert/documents/AllLabs.xls

Massachusetts Potable and Non Potable Water: M-RI002
http://public.dep.state.ma.us/Labcert/Labcert.aspx

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424
http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313
http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006
http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

United States Department of Agriculture Soil Permit: P330-12-00139

Pennsylvania: 68-01752
http://www.depweb.state.pa.us/portal/server.pt/community/labs/13780/laboratory_accreditation_program/590095

CHEMISTRY

A2LA Accredited: Testing Cert # 2864.01
Lead in Paint, Phthalates, Lead in Children's Metals Products (Including Jewelry)
http://www.A2LA.org/dirsearchnew/newsearch.cfm

CPSC ID# 1141
Lead Paint, Lead in Children's Metals Jewelry
http://www.cpsc.gov/cgi-bin/labapplist.aspx

Sample and Cooler Receipt Checklist

Client: GZA GeoEnvironmental, Inc.
Client Project ID: _____
Shipped/Delivered Via: ESS Courier

ESS Project ID: 15050527
Date Project Due: ~~5/28/15~~ 5/29/15 w 5/21/15
Days For Project: 5 Day

Items to be checked upon receipt:

1. Air Bill Manifest Present?	* No	10. Are the samples properly preserved:	Yes
Air No.:	w 5/21/15	11. Proper sample containers used?	Yes
2. Were Custody Seals Present? YES	No	12. Any air bubbles in the VOA vials?	N/A
3. Were Custody Seals Intact? YES	N/A	13. Holding times exceeded?	No
4. Is Radiation count < 100 CPM?	Yes	14. Sufficient sample volumes?	Yes
5. Is a cooler present?	Yes	15. Any Subcontracting needed?	No
Cooler Temp: **3.5**		16. Are ESS labels on correct containers?	**Yes|No**
Iced With: **Ice**		17. Were samples received intact?	**Yes|No**
6. Was COC included with samples?	Yes	ESS Sample IDs:	
7. Was COC signed and dated by client?	Yes	Sub Lab:	
8. Does the COC match the sample	Yes	Analysis:	
9. Is COC complete and correct?	Yes	TAT:	

18. Was there need to call project manager to discuss status? If yes, please explain.
2 plastics NO 10 for SWS-6-05-21-15 w 5/21/15

Who was called?:_____ By whom? _____

Sample Number	Properly Preserved	Container Type	# of Containers	Preservative
1	Yes	1 L Glass	2	HCL
1	Yes	1 L Glass	4	NP
1	Yes	250 ml Plastic	1	HNO3
1	Yes	500 ml Plastic	1	NP
2	Yes	1 L Glass	2	HCL
2	Yes	1 L Glass	4	NP
2	Yes	250 ml Plastic	1	HNO3
2	Yes	500 ml Plastic	1	NP
3	Yes	1 L Glass	2	HCL
3	Yes	1 L Glass	4	NP
3	Yes	250 ml Plastic	1	HNO3
3	Yes	500 ml Plastic	1	NP
4	Yes	1 L Glass	2	HCL
4	Yes	1 L Glass	4	NP
4	Yes	250 ml Plastic	1	HNO3
4	Yes	500 ml Plastic	1	NP

Completed By: _____ Date/Time: 5/21/15 1728
Reviewed By: _____ Date/Time: 5/21/15 1740

CUSTODY SEAL

Date: 5-21-15

Signature: _____

ENVIRONMENTAL SAMPLING SUPPLY
www.essvial.com 800-233-8425

ESS Laboratory

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

Page 1 of 1

Turn Time: X Standard Other ____
If faster than 5 days, prior approval by laboratory is required # ____

State where samples were collected from:
MA RI CT NH NJ NY ME Other ____

Is this project for any of the following:
MA-MCP Navy USACE Other ____

Reporting Limits

ESS LAB PROJECT ID: 1505527

Electronic Deliverable Yes ___ No ___
Format: Excel ___ Access ___ PDF ___ Other ____

Co. Name	Project #	Project Name (20 Char. or less)
GZA GeoEnvironmental	171521.13	Wynn Everett
~~David E. Leone~~		

Contact Person	Address	
David E. Leone	249 Vanderbilt Ave	

City	State	Zip	PO#
Norwood	MA	02062	

Telephone #	Fax #	Email Address
(781) 278-5766		davide.leone@gza.com

ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	8260 VOA / 624 / 524.2	8021 MTBE/BTEX / 8015 GRO	8100 TPH / 8015 DRO	EPH w/o PAHs	EPH w/PAHs / 4 Diesel	8081 Pesticides / 8082 PCB / 608 Pesticides / 608 PCB	8270 SVOA / 625 / PAH 8270	RCRA5 / RCRA8 / PP13 / TAL23	TCLP-RCRA8 / NBC7	MCP-METALS (13) w/Hg / (MCP-14 METALS)	Hexavalent Cr				Notes
1	05-21-15	0920		X	SW	SWS-3-05-21-15	1,2,4	8	P,G				X			X			X	X				1,2
2	05-21-15	0945		X	SW	SW-3-05-21-15	1,2,4	8	P,G				X			X			X	X				1,2
3	05-21-15	10:38		X	SW	SWS-6-05-21-15	1,2,4	8	P,G				X			X			X	X				1,2
4	05-21-15	11:00		X	SW	SW-6-05-21-15	1,2,4	8	P,G				X			X			X	X				1,2

Container Type: P-Poly G-Glass S-Sterile V-VOA
Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present ___ Yes ___ No
Seals Intact ___ Yes ___ No NA: ___
Cooler Temp: 2.3, 2.3, 2.3 ice 5/21/15 mm

Internal Use Only
[ ] Pickup
[ ] Technicians ____

Preservation Code 1- NP, 2- HCl, 3- H_2SO_4, 4- HNO_3, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9- ____

Sampled by: Alice Blayney

*EPH ranges only per client request cmt 5/26/15

Comments: Email Results to: Timothy.Briggs@gza.com along w/ David E. Leone
Notes: 1. Run PAH SIM 2. MCP-14 Dissolved metals were field filtered

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	05-21-15 12:45		5/21/15 1300		5/21/15 1705		5/21/15 1720
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt

10/26/04 A

ESS Laboratory

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

Page 1 of 1

Turn Time: X Standard Other ____
If faster than 5 days, prior approval by laboratory is required # ____

State where samples were collected from:
(MA) RI CT NH NJ NY ME Other ____

Is this project for any of the following:
(MA-MCP) Navy USACE Other ____

Reporting Limits

ESS LAB PROJECT ID: 1505527

Electronic Deliverable Yes ___ No ___
Format: Excel ___ Access ___ PDF ___ Other ____

Co. Name	Project #	Project Name (20 Char. or less)
~~David E. Leone~~ GZA GeoEnvironmental	171521.13	Wynn Everett

Contact Person	Address
David E. Leone	249 Vanderbilt Ave

City	State	Zip	PO#
Norwood	MA	02062	

Telephone #	Fax #	Email Address
(781) 278-5766		davide.leone@gza.com

ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	8260 624 524.2 VOA	8021 8015 VPH MTBE/BTEX GRO w/targets	8100 8015 TPH DRO	EPH w/o PAHs	EPH w/PAHs 4 Diesel	8081 Pesticides 8082 PCB 608 Pesticides 608 PCB	8270 625 PAH SVOA 8270	RCRA5 RCRA8 PP13 TAL23	TCLP-RCRA8 NBC7	MCP-METALS (13) w/Hg	MCP-METALS (14)	Hexavalent Cr				Notes
1	05-21-15	0920		X	SW	SWS-3-05-21-15	1,2,4	8	P,G				X			X			X		X				1,2
2	05-21-15	0945		X	SW	SW-3-05-21-15	1,2,4	8	P,G				X			X			X		X				1,2
3	05-21-15	10:38		X	SW	SWS-6-05-21-15	1,2,4	8	P,G				X			X			X		X				1,2
4	05-21-15	11:00		X	SW	SW-6-05-21-15	1,2,4	8	P,G				X			X			X		X				1,2

Container Type: P-Poly G-Glass S-Sterile V-VOA
Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present ___ Yes ___ No
Seals Intact ___ Yes ___ No NA: ___
Cooler Temp: ~~2.3,2.3,3.5~~ 1.8 ice 5/21/15 mm

Internal Use Only
[~~]~~ Pickup
[ ] Technicians ____

Preservation Code 1- NP, 2- HCl, 3- H_2SO_4, 4- HNO_3, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9- ____

Sampled by: Alice Blayney

Comments: Email Results to: Timothy.Briggs@gza.com along w/ David E. Leone
Notes: 1. Run PAH SIM 2. MCP-14 Dissolved metals were field filtered

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	05-21-15 12:45		5/21/15 1300		5/21/15 1705		5/21/15 1720
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt

10/26/04 A

CERTIFICATE OF ANALYSIS

David E Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Avenue
Norwood, MA 02062

RE: Wynn Everett - MCP (01.0171521.13)
ESS Laboratory Work Order Number: 1505568

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard
Laboratory Director

REVIEWED
By ESS Laboratory at 5:06 pm, Jun 04, 2015

Analytical Summary
The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with NELAC Standards, A2LA and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett - MCP

ESS Laboratory Work Order: 1505568

SAMPLE RECEIPT

The following samples were received on May 22, 2015 for the analyses specified on the enclosed Chain of Custody Record.

To achieve CAM compliance for MCP data, ESS Laboratory has performed and reviewed all QA/QC Requirements and Performance Standards listed in each method. Holding times and preservation have also been reviewed. All CAM requirements have been achieved unless noted in the project narrative.

Each method has been set-up in the laboratory to reach required MCP standards. The methods for aqueous VOA and Soil Methanol VOA have known limitations for certain analytes. The regulatory standards may not be achieved due to these limitations. In addition, for all methods, matrix interferences, dilutions, and %Solids may elevate method reporting limits above regulatory standards. ESS Laboratory can provide, upon request, a Data Checker (regulatory standard comparison spreadsheet) electronic deliverable which will highlight these exceedances.

Revision 1, June 5, 2015: This report has been revised to include a corrected certification form for Question G.

Lab Number	Sample Name	Matrix	Analysis
1505568-01	SW-10-05-22-15	Surface Water	6010C, 7010, 7196A, 7470A, 8270C, 8270D SIM, EPH8270, MADEP-EPH
1505568-02	SW-11-05-22-15	Surface Water	6010C, 7010, 7196A, 7470A, 8270C, 8270D SIM, EPH8270, MADEP-EPH

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett - MCP ESS Laboratory Work Order: 1505568

PROJECT NARRATIVE

8270C Semi-Volatile Organic Compounds

1505568-01 **Internal Standard(s) outside of criteria. Sample was reanalyzed to confirm (IC).**
Chrysene-d12 (49% @ 50-200%), Perylene-d12 (47% @ 50-200%)

CYE0365-CCV1 **Calibration required quadratic regression (Q).**
2,4-Dinitrophenol (96% @ 70-130%)

CYE0365-CCV1 **Continuing Calibration recovery is above upper control limit (C+).**
N-Nitrosodimethylamine (131% @ 70-130%)

CYE0367-CCV1 **Continuing Calibration recovery is above upper control limit (C+).**
2-Chloronaphthalene (155% @ 70-130%), bis(2-Chloroethyl)ether (133% @ 70-130%), N-Nitrosodimethylamine (139% @ 70-130%)

8270D(SIM) Semi-Volatile Organic Compounds

CE52636-BLK1 **Surrogate recovery(ies) above upper control limit (S+).**
2,4,6-Tribromophenol (120% @ 15-110%)

CYE0340-CCV1 **Continuing Calibration recovery is above upper control limit (C+).**
2,4,6-Tribromophenol (152% @ 70-130%)

Dissolved Metals

1505568-01 **Elevated Method Reporting Limits due to sample matrix (EL).**
Lead , Thallium

1505568-02 **Elevated Method Reporting Limits due to sample matrix (EL).**
Lead , Thallium

No other observations noted.

End of Project Narrative.

DATA USABILITY LINKS

Definitions of Quality Control Parameters

Semivolatile Organics Internal Standard Information

Semivolatile Organics Surrogate Information

Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett - MCP

ESS Laboratory Work Order: 1505568

CURRENT SW-846 METHODOLOGY VERSIONS

Analytical Methods

1010A - Flashpoint
6010C - ICP
6020A - ICP MS
7010 - Graphite Furnace
7196A - Hexavalent Chromium
7470A - Aqueous Mercury
7471B - Solid Mercury
8011 - EDB/DBCP/TCP
8015D - GRO/DRO
8081B - Pesticides
8082A - PCB
8100M - TPH
8151A - Herbicides
8260B - VOA
8270D - SVOA
8270D SIM - SVOA Low Level
9014 - Cyanide
9038 - Sulfate
9040C - Aqueous pH
9045D - Solid pH (Corrosivity)
9050A - Specific Conductance
9056A - Anions (IC)
9060A - TOC
9095B - Paint Filter
MADEP 04-1.1 - EPH / VPH

Prep Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3546 - Microwave Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5030C - Aqueous Purge and Trap
5035 - Solid Purge and Trap

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett - MCP

ESS Laboratory Work Order: 1505568

MassDEP Analytical Protocol Certification Form

MADEP RTN: _____

This form provides certification for the following data set: **1505568-01 through 1505568-02**

Matrices: (X) Ground Water/Surface Water ( ) Soil/Sediment ( ) Drinking Water ( ) Air ( ) Other:_____

CAM Protocol (check all that apply below):

( ) 8260 VOC CAM II A	(X) 7470/7471 Hg CAM III B	( ) MassDEP VPH CAM IV A	( ) 8081 Pesticides CAM V B	(X) 7196 Hex Cr CAM VI B	( ) MassDEP APH CAM IX A
(X) 8270 SVOC CAM II B	(X) 7010 Metals CAM III C	(X) MassDEP EPH CAM IV B	( ) 8151 Herbicides CAM V C	( ) 8330 Explosives CAM VIII A	( ) TO-15 VOC CAM IX B
(X) 6010 Metals CAM III A	( ) 6020 Metals CAM III D	( ) 8082 PCB CAM V A	( ) 6860 Perchlorate CAM VIII B	( ) 9014 Total Cyanide/PAC CAM VI A	

Affirmative responses to questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	Yes (X) No ( )
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	Yes (X) No ( )
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	Yes (X) No ( )
D	Does the laboratory report comply with all the reporting requirements specified in the CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	Yes (X) No ( )
E	a. VPH, EPH, APH and TO-15 only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	Yes (X) No ( )
	b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	Yes ( ) No ( )
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	Yes (X) No ( )

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocols(s)?	Yes ( ) No (X)*
	***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**	
H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	Yes ( ) No (X)*
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	Yes (X) No ( )*

***All negative responses must be addressed in an attached laboratory narrative.**

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: _____ Date: June 04, 2015

Printed Name: Laurel Stoddard Position: Laboratory Director

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett - MCP
Client Sample ID: SW-10-05-22-15
Date Sampled: 05/22/15 09:40
Percent Solids: N/A

ESS Laboratory Work Order: 1505568
ESS Laboratory Sample ID: 1505568-01
Sample Matrix: Surface Water
Units: ug/L

Extraction Method: 3005A/200.7

Dissolved Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (2.5)		7010		1	KJK	05/31/15 12:31	50	25	CE52605
Arsenic	**6.6** (5.0)		7010		2	KJK	06/03/15 16:35	50	25	CE52605
Barium	ND (50.0)		6010C		2	KJK	05/28/15 6:43	50	25	CE52605
Beryllium	ND (0.5)		6010C		1	KJK	05/27/15 0:39	50	25	CE52605
Cadmium	ND (2.5)		6010C		1	KJK	05/27/15 0:39	50	25	CE52605
Chromium	ND (10.0)		6010C		1	KJK	05/27/15 0:39	50	25	CE52605
Lead	**EL** ND (25.0)		6010C		2	KJK	05/28/15 6:43	50	25	CE52605
Mercury	ND (0.20)		7470A		1	BJV	05/26/15 15:00	20	40	CE52602
Nickel	ND (25.0)		6010C		1	KJK	05/27/15 0:39	50	25	CE52605
Selenium	ND (5.0)		7010		1	KJK	05/31/15 8:30	50	25	CE52605
Silver	ND (5.0)		6010C		1	KJK	05/27/15 0:39	50	25	CE52605
Thallium	**EL** ND (8.0)		7010		8	KJK	05/29/15 18:15	50	25	CE52605
Vanadium	ND (10.0)		6010C		1	KJK	05/27/15 0:39	50	25	CE52605
Zinc	**30.8** (25.0)		6010C		1	KJK	05/28/15 4:10	50	25	CE52605

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett - MCP
Client Sample ID: SW-10-05-22-15
Date Sampled: 05/22/15 09:40
Percent Solids: N/A
Initial Volume: 1070
Final Volume: 1
Extraction Method: 3520C

ESS Laboratory Work Order: 1505568
ESS Laboratory Sample ID: 1505568-01
Sample Matrix: Surface Water
Units: ug/L
Analyst: VSC
Prepared: 5/26/15 19:05

8270C Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (9.3)		8270C		1	05/28/15 16:28	CYE0377	CE52612
1,2-Dichlorobenzene	ND (9.3)		8270C		1	05/28/15 16:28	CYE0377	CE52612
1,3-Dichlorobenzene	ND (9.3)		8270C		1	05/28/15 16:28	CYE0377	CE52612
1,4-Dichlorobenzene	ND (9.3)		8270C		1	05/28/15 16:28	CYE0377	CE52612
2,4,5-Trichlorophenol	ND (9.3)		8270C		1	05/28/15 16:28	CYE0377	CE52612
2,4,6-Trichlorophenol	ND (9.3)		8270C		1	05/28/15 16:28	CYE0377	CE52612
2,4-Dichlorophenol	ND (9.3)		8270C		1	05/28/15 16:28	CYE0377	CE52612
2,4-Dimethylphenol	ND (46.7)		8270C		1	05/28/15 16:28	CYE0377	CE52612
2,4-Dinitrophenol	ND (46.7)		8270C		1	05/28/15 16:28	CYE0377	CE52612
2,4-Dinitrotoluene	ND (9.3)		8270C		1	05/28/15 16:28	CYE0377	CE52612
2,6-Dinitrotoluene	ND (9.3)		8270C		1	05/28/15 16:28	CYE0377	CE52612
2-Chloronaphthalene	ND (9.3)		8270C		1	05/28/15 16:28	CYE0377	CE52612
2-Chlorophenol	ND (9.3)		8270C		1	05/28/15 16:28	CYE0377	CE52612
2-Methylphenol	ND (9.3)		8270C		1	05/28/15 16:28	CYE0377	CE52612
2-Nitrophenol	ND (9.3)		8270C		1	05/28/15 16:28	CYE0377	CE52612
3,3´-Dichlorobenzidine	ND (18.7)		8270C		1	05/28/15 16:28	CYE0377	CE52612
3+4-Methylphenol	ND (18.7)		8270C		1	05/28/15 16:28	CYE0377	CE52612
4-Bromophenyl-phenylether	ND (9.3)		8270C		1	05/28/15 16:28	CYE0377	CE52612
4-Chloroaniline	ND (18.7)		8270C		1	05/28/15 16:28	CYE0377	CE52612
4-Nitrophenol	ND (46.7)		8270C		1	05/28/15 16:28	CYE0377	CE52612
Acetophenone	ND (9.3)		8270C		1	05/28/15 16:28	CYE0377	CE52612
Aniline	ND (9.3)		8270C		1	05/28/15 16:28	CYE0377	CE52612
Azobenzene	ND (18.7)		8270C		1	05/28/15 16:28	CYE0377	CE52612
bis(2-Chloroethoxy)methane	ND (9.3)		8270C		1	05/28/15 16:28	CYE0377	CE52612
bis(2-Chloroethyl)ether	ND (9.3)		8270C		1	05/28/15 16:28	CYE0377	CE52612
bis(2-chloroisopropyl)Ether	ND (9.3)		8270C		1	05/28/15 16:28	CYE0377	CE52612
bis(2-Ethylhexyl)phthalate	ND (5.6)		8270C		1	05/28/15 16:28	CYE0377	CE52612
Butylbenzylphthalate	ND (9.3)		8270C		1	05/28/15 16:28	CYE0377	CE52612
Dibenzofuran	ND (9.3)		8270C		1	05/28/15 16:28	CYE0377	CE52612
Diethylphthalate	ND (9.3)		8270C		1	05/28/15 16:28	CYE0377	CE52612
Dimethylphthalate	ND (9.3)		8270C		1	05/28/15 16:28	CYE0377	CE52612
Di-n-butylphthalate	ND (9.3)		8270C		1	05/28/15 16:28	CYE0377	CE52612

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett - MCP
Client Sample ID: SW-10-05-22-15
Date Sampled: 05/22/15 09:40
Percent Solids: N/A
Initial Volume: 1070
Final Volume: 1
Extraction Method: 3520C

ESS Laboratory Work Order: 1505568
ESS Laboratory Sample ID: 1505568-01
Sample Matrix: Surface Water
Units: ug/L
Analyst: VSC
Prepared: 5/26/15 19:05

8270C Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Di-n-octylphthalate	ND (9.3)		8270C		1	05/28/15 16:28	CYE0377	CE52612
Hexachlorobutadiene	ND (9.3)		8270C		1	05/28/15 16:28	CYE0377	CE52612
Hexachloroethane	ND (4.7)		8270C		1	05/28/15 16:28	CYE0377	CE52612
Isophorone	ND (9.3)		8270C		1	05/28/15 16:28	CYE0377	CE52612
Nitrobenzene	ND (9.3)		8270C		1	05/28/15 16:28	CYE0377	CE52612
N-Nitrosodimethylamine	ND (9.3)		8270C		1	05/28/15 16:28	CYE0377	CE52612
Phenol	ND (9.3)		8270C		1	05/28/15 16:28	CYE0377	CE52612

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*60 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*71 %*		*15-110*
Surrogate: 2-Chlorophenol-d4	*64 %*		*15-110*
Surrogate: 2-Fluorobiphenyl	*64 %*		*30-130*
Surrogate: 2-Fluorophenol	*58 %*		*15-110*
Surrogate: Nitrobenzene-d5	*61 %*		*30-130*
Surrogate: Phenol-d6	*65 %*		*15-110*
Surrogate: p-Terphenyl-d14	*71 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett - MCP
Client Sample ID: SW-10-05-22-15
Date Sampled: 05/22/15 09:40
Percent Solids: N/A
Initial Volume: 1060
Final Volume: 0.25
Extraction Method: 3510C

ESS Laboratory Work Order: 1505568
ESS Laboratory Sample ID: 1505568-01
Sample Matrix: Surface Water
Units: ug/L
Analyst: VSC
Prepared: 5/26/15 17:45

8270D(SIM) Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	ND (0.19)		8270D SIM		1	05/27/15 19:50	CYE0340	CE52636
Acenaphthene	ND (0.19)		8270D SIM		1	05/27/15 19:50	CYE0340	CE52636
Acenaphthylene	ND (0.19)		8270D SIM		1	05/27/15 19:50	CYE0340	CE52636
Anthracene	ND (0.19)		8270D SIM		1	05/27/15 19:50	CYE0340	CE52636
Benzo(a)anthracene	ND (0.05)		8270D SIM		1	05/27/15 19:50	CYE0340	CE52636
Benzo(a)pyrene	ND (0.05)		8270D SIM		1	05/27/15 19:50	CYE0340	CE52636
Benzo(b)fluoranthene	ND (0.05)		8270D SIM		1	05/27/15 19:50	CYE0340	CE52636
Benzo(g,h,i)perylene	ND (0.19)		8270D SIM		1	05/27/15 19:50	CYE0340	CE52636
Benzo(k)fluoranthene	ND (0.05)		8270D SIM		1	05/27/15 19:50	CYE0340	CE52636
Chrysene	ND (0.05)		8270D SIM		1	05/27/15 19:50	CYE0340	CE52636
Dibenzo(a,h)Anthracene	ND (0.05)		8270D SIM		1	05/27/15 19:50	CYE0340	CE52636
Fluoranthene	ND (0.19)		8270D SIM		1	05/27/15 19:50	CYE0340	CE52636
Fluorene	ND (0.19)		8270D SIM		1	05/27/15 19:50	CYE0340	CE52636
Hexachlorobenzene	ND (0.19)		8270D SIM		1	05/27/15 19:50	CYE0340	CE52636
Indeno(1,2,3-cd)Pyrene	ND (0.05)		8270D SIM		1	05/27/15 19:50	CYE0340	CE52636
Naphthalene	ND (0.19)		8270D SIM		1	05/27/15 19:50	CYE0340	CE52636
Pentachlorophenol	ND (0.85)		8270D SIM		1	05/27/15 19:50	CYE0340	CE52636
Phenanthrene	ND (0.19)		8270D SIM		1	05/27/15 19:50	CYE0340	CE52636
Pyrene	ND (0.19)		8270D SIM		1	05/27/15 19:50	CYE0340	CE52636

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*51 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*115 %*		*15-110*
Surrogate: 2-Fluorobiphenyl	*70 %*		*30-130*
Surrogate: Nitrobenzene-d5	*86 %*		*30-130*
Surrogate: p-Terphenyl-d14	*82 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett - MCP
Client Sample ID: SW-10-05-22-15
Date Sampled: 05/22/15 09:40
Percent Solids: N/A

ESS Laboratory Work Order: 1505568
ESS Laboratory Sample ID: 1505568-01
Sample Matrix: Surface Water

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Hexavalent Chromium	ND (10)		7196A		1	JLK	05/23/15 8:15	ug/L	CE52302

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett - MCP
Client Sample ID: SW-10-05-22-15
Date Sampled: 05/22/15 09:40
Percent Solids: N/A
Initial Volume: 1070
Final Volume: 1
Extraction Method: 3510C

ESS Laboratory Work Order: 1505568
ESS Laboratory Sample ID: 1505568-01
Sample Matrix: Surface Water
Units: ug/L

Prepared: 5/28/15 17:32

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (93)		MADEP-EPH		1	DPS	05/29/15 6:13	CYE0371	CE52810
C19-C36 Aliphatics1	ND (93)		MADEP-EPH		1	DPS	05/29/15 6:13	CYE0371	CE52810
C11-C22 Unadjusted Aromatics1	ND (93.5)		EPH8270		1	DPS	05/28/15 23:22	CYE0355	CE52810
C11-C22 Aromatics1,2	ND (93.5)		EPH8270			DPS	05/28/15 23:22		[CALC]
Preservative:	**pH <= 2**		MADEP-EPH			DPS			CE52810

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*68 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*96 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*92 %*		*40-140*
Surrogate: O-Terphenyl	*65 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett - MCP
Client Sample ID: SW-11-05-22-15
Date Sampled: 05/22/15 10:00
Percent Solids: N/A

ESS Laboratory Work Order: 1505568
ESS Laboratory Sample ID: 1505568-02
Sample Matrix: Surface Water
Units: ug/L

Extraction Method: 3005A/200.7

Dissolved Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (2.5)		7010		1	KJK	05/31/15 12:37	100	50	CE52605
Arsenic	ND (2.5)		7010		1	KJK	05/31/15 5:36	100	50	CE52605
Barium	ND (25.0)		6010C		1	KJK	05/27/15 0:44	100	50	CE52605
Beryllium	ND (0.5)		6010C		1	KJK	05/27/15 0:44	100	50	CE52605
Cadmium	ND (2.5)		6010C		1	KJK	05/27/15 0:44	100	50	CE52605
Chromium	ND (10.0)		6010C		1	KJK	05/27/15 0:44	100	50	CE52605
Lead	**EL** ND (25.0)		6010C		2	KJK	05/29/15 17:36	100	50	CE52605
Mercury	ND (0.20)		7470A		1	BJV	05/26/15 15:03	20	40	CE52602
Nickel	ND (25.0)		6010C		1	KJK	05/27/15 0:44	100	50	CE52605
Selenium	ND (5.0)		7010		1	KJK	05/31/15 8:36	100	50	CE52605
Silver	ND (5.0)		6010C		1	KJK	05/27/15 0:44	100	50	CE52605
Thallium	**EL** ND (10.0)		7010		10	KJK	05/29/15 19:01	100	50	CE52605
Vanadium	ND (10.0)		6010C		1	KJK	05/27/15 0:44	100	50	CE52605
Zinc	ND (25.0)		6010C		1	KJK	05/29/15 17:53	100	50	CE52605

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett - MCP
Client Sample ID: SW-11-05-22-15
Date Sampled: 05/22/15 10:00
Percent Solids: N/A
Initial Volume: 970
Final Volume: 1
Extraction Method: 3520C

ESS Laboratory Work Order: 1505568
ESS Laboratory Sample ID: 1505568-02
Sample Matrix: Surface Water
Units: ug/L
Analyst: ML
Prepared: 5/26/15 19:05

8270C Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (10.3)		8270C		1	05/28/15 2:38	CYE0367	CE52612
1,2-Dichlorobenzene	ND (10.3)		8270C		1	05/28/15 2:38	CYE0367	CE52612
1,3-Dichlorobenzene	ND (10.3)		8270C		1	05/28/15 2:38	CYE0367	CE52612
1,4-Dichlorobenzene	ND (10.3)		8270C		1	05/28/15 2:38	CYE0367	CE52612
2,4,5-Trichlorophenol	ND (10.3)		8270C		1	05/28/15 2:38	CYE0367	CE52612
2,4,6-Trichlorophenol	ND (10.3)		8270C		1	05/28/15 2:38	CYE0367	CE52612
2,4-Dichlorophenol	ND (10.3)		8270C		1	05/28/15 2:38	CYE0367	CE52612
2,4-Dimethylphenol	ND (51.5)		8270C		1	05/28/15 2:38	CYE0367	CE52612
2,4-Dinitrophenol	ND (51.5)		8270C		1	05/28/15 2:38	CYE0367	CE52612
2,4-Dinitrotoluene	ND (10.3)		8270C		1	05/28/15 2:38	CYE0367	CE52612
2,6-Dinitrotoluene	ND (10.3)		8270C		1	05/28/15 2:38	CYE0367	CE52612
2-Chloronaphthalene	ND (10.3)		8270C		1	05/28/15 2:38	CYE0367	CE52612
2-Chlorophenol	ND (10.3)		8270C		1	05/28/15 2:38	CYE0367	CE52612
2-Methylphenol	ND (10.3)		8270C		1	05/28/15 2:38	CYE0367	CE52612
2-Nitrophenol	ND (10.3)		8270C		1	05/28/15 2:38	CYE0367	CE52612
3,3´-Dichlorobenzidine	ND (20.6)		8270C		1	05/28/15 2:38	CYE0367	CE52612
3+4-Methylphenol	ND (20.6)		8270C		1	05/28/15 2:38	CYE0367	CE52612
4-Bromophenyl-phenylether	ND (10.3)		8270C		1	05/28/15 2:38	CYE0367	CE52612
4-Chloroaniline	ND (20.6)		8270C		1	05/28/15 2:38	CYE0367	CE52612
4-Nitrophenol	ND (51.5)		8270C		1	05/28/15 2:38	CYE0367	CE52612
Acetophenone	ND (10.3)		8270C		1	05/28/15 2:38	CYE0367	CE52612
Aniline	ND (10.3)		8270C		1	05/28/15 2:38	CYE0367	CE52612
Azobenzene	ND (20.6)		8270C		1	05/28/15 2:38	CYE0367	CE52612
bis(2-Chloroethoxy)methane	ND (10.3)		8270C		1	05/28/15 2:38	CYE0367	CE52612
bis(2-Chloroethyl)ether	ND (10.3)		8270C		1	05/28/15 2:38	CYE0367	CE52612
bis(2-chloroisopropyl)Ether	ND (10.3)		8270C		1	05/28/15 2:38	CYE0367	CE52612
bis(2-Ethylhexyl)phthalate	ND (6.2)		8270C		1	05/28/15 2:38	CYE0367	CE52612
Butylbenzylphthalate	ND (10.3)		8270C		1	05/28/15 2:38	CYE0367	CE52612
Dibenzofuran	ND (10.3)		8270C		1	05/28/15 2:38	CYE0367	CE52612
Diethylphthalate	ND (10.3)		8270C		1	05/28/15 2:38	CYE0367	CE52612
Dimethylphthalate	ND (10.3)		8270C		1	05/28/15 2:38	CYE0367	CE52612
Di-n-butylphthalate	ND (10.3)		8270C		1	05/28/15 2:38	CYE0367	CE52612

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett - MCP
Client Sample ID: SW-11-05-22-15
Date Sampled: 05/22/15 10:00
Percent Solids: N/A
Initial Volume: 970
Final Volume: 1
Extraction Method: 3520C

ESS Laboratory Work Order: 1505568
ESS Laboratory Sample ID: 1505568-02
Sample Matrix: Surface Water
Units: ug/L
Analyst: ML
Prepared: 5/26/15 19:05

8270C Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Di-n-octylphthalate	ND (10.3)		8270C		1	05/28/15 2:38	CYE0367	CE52612
Hexachlorobutadiene	ND (10.3)		8270C		1	05/28/15 2:38	CYE0367	CE52612
Hexachloroethane	ND (5.2)		8270C		1	05/28/15 2:38	CYE0367	CE52612
Isophorone	ND (10.3)		8270C		1	05/28/15 2:38	CYE0367	CE52612
Nitrobenzene	ND (10.3)		8270C		1	05/28/15 2:38	CYE0367	CE52612
N-Nitrosodimethylamine	ND (10.3)		8270C		1	05/28/15 2:38	CYE0367	CE52612
Phenol	ND (10.3)		8270C		1	05/28/15 2:38	CYE0367	CE52612

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*65 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*66 %*		*15-110*
Surrogate: 2-Chlorophenol-d4	*70 %*		*15-110*
Surrogate: 2-Fluorobiphenyl	*65 %*		*30-130*
Surrogate: 2-Fluorophenol	*69 %*		*15-110*
Surrogate: Nitrobenzene-d5	*64 %*		*30-130*
Surrogate: Phenol-d6	*70 %*		*15-110*
Surrogate: p-Terphenyl-d14	*62 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett - MCP
Client Sample ID: SW-11-05-22-15
Date Sampled: 05/22/15 10:00
Percent Solids: N/A
Initial Volume: 1070
Final Volume: 0.25
Extraction Method: 3510C

ESS Laboratory Work Order: 1505568
ESS Laboratory Sample ID: 1505568-02
Sample Matrix: Surface Water
Units: ug/L
Analyst: VSC
Prepared: 5/26/15 17:45

8270D(SIM) Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	ND (0.19)		8270D SIM		1	05/27/15 20:40	CYE0340	CE52636
Acenaphthene	ND (0.19)		8270D SIM		1	05/27/15 20:40	CYE0340	CE52636
Acenaphthylene	ND (0.19)		8270D SIM		1	05/27/15 20:40	CYE0340	CE52636
Anthracene	ND (0.19)		8270D SIM		1	05/27/15 20:40	CYE0340	CE52636
Benzo(a)anthracene	ND (0.05)		8270D SIM		1	05/27/15 20:40	CYE0340	CE52636
Benzo(a)pyrene	ND (0.05)		8270D SIM		1	05/27/15 20:40	CYE0340	CE52636
Benzo(b)fluoranthene	ND (0.05)		8270D SIM		1	05/27/15 20:40	CYE0340	CE52636
Benzo(g,h,i)perylene	ND (0.19)		8270D SIM		1	05/27/15 20:40	CYE0340	CE52636
Benzo(k)fluoranthene	ND (0.05)		8270D SIM		1	05/27/15 20:40	CYE0340	CE52636
Chrysene	ND (0.05)		8270D SIM		1	05/27/15 20:40	CYE0340	CE52636
Dibenzo(a,h)Anthracene	ND (0.05)		8270D SIM		1	05/27/15 20:40	CYE0340	CE52636
Fluoranthene	ND (0.19)		8270D SIM		1	05/27/15 20:40	CYE0340	CE52636
Fluorene	ND (0.19)		8270D SIM		1	05/27/15 20:40	CYE0340	CE52636
Hexachlorobenzene	ND (0.19)		8270D SIM		1	05/27/15 20:40	CYE0340	CE52636
Indeno(1,2,3-cd)Pyrene	ND (0.05)		8270D SIM		1	05/27/15 20:40	CYE0340	CE52636
Naphthalene	ND (0.19)		8270D SIM		1	05/27/15 20:40	CYE0340	CE52636
Pentachlorophenol	ND (0.84)		8270D SIM		1	05/27/15 20:40	CYE0340	CE52636
Phenanthrene	ND (0.19)		8270D SIM		1	05/27/15 20:40	CYE0340	CE52636
Pyrene	ND (0.19)		8270D SIM		1	05/27/15 20:40	CYE0340	CE52636

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1,2-Dichlorobenzene-d4	*47 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*87 %*		*15-110*
Surrogate: 2-Fluorobiphenyl	*61 %*		*30-130*
Surrogate: Nitrobenzene-d5	*75 %*		*30-130*
Surrogate: p-Terphenyl-d14	*70 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett - MCP
Client Sample ID: SW-11-05-22-15
Date Sampled: 05/22/15 10:00
Percent Solids: N/A

ESS Laboratory Work Order: 1505568
ESS Laboratory Sample ID: 1505568-02
Sample Matrix: Surface Water

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Hexavalent Chromium	ND (10)		7196A		1	JLK	05/23/15 8:15	ug/L	CE52302

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett - MCP
Client Sample ID: SW-11-05-22-15
Date Sampled: 05/22/15 10:00
Percent Solids: N/A
Initial Volume: 1060
Final Volume: 1
Extraction Method: 3510C

ESS Laboratory Work Order: 1505568
ESS Laboratory Sample ID: 1505568-02
Sample Matrix: Surface Water
Units: ug/L

Prepared: 5/28/15 17:32

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (94)		MADEP-EPH		1	DPS	05/29/15 8:45	CYE0371	CE52810
C19-C36 Aliphatics1	ND (94)		MADEP-EPH		1	DPS	05/29/15 8:45	CYE0371	CE52810
C11-C22 Unadjusted Aromatics1	ND (94.3)		EPH8270		1	DPS	05/28/15 23:59	CYE0355	CE52810
C11-C22 Aromatics1,2	ND (94.3)		EPH8270			DPS	05/28/15 23:59		[CALC]
Preservative:	**pH <= 2**		MADEP-EPH			DPS			CE52810

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*64 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*98 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*95 %*		*40-140*
Surrogate: O-Terphenyl	*70 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett - MCP

ESS Laboratory Work Order: 1505568

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Dissolved Metals										
Batch CE52602 - 245.1/7470A										
Blank										
Mercury	ND	0.20	ug/L							
LCS										
Mercury	5.70	0.20	ug/L	6.000		95	80-120			
LCS Dup										
Mercury	5.61	0.20	ug/L	6.000		93	80-120	2	20	
Batch CE52605 - 3005A/200.7										
Blank										
Antimony	ND	2.5	ug/L							
Arsenic	ND	2.5	ug/L							
Barium	ND	25.0	ug/L							
Beryllium	ND	0.5	ug/L							
Cadmium	ND	2.5	ug/L							
Chromium	ND	10.0	ug/L							
Lead	ND	12.5	ug/L							
Nickel	ND	25.0	ug/L							
Selenium	ND	5.0	ug/L							
Silver	ND	5.0	ug/L							
Thallium	ND	1.0	ug/L							
Vanadium	ND	10.0	ug/L							
Zinc	ND	25.0	ug/L							
LCS										
Antimony	266	50.0	ug/L	250.0		106	80-120			
Arsenic	214	50.0	ug/L	250.0		86	80-120			
Barium	240	25.0	ug/L	250.0		96	80-120			
Beryllium	23.9	0.5	ug/L	25.00		96	80-120			
Cadmium	113	2.5	ug/L	125.0		91	80-120			
Chromium	238	10.0	ug/L	250.0		95	80-120			
Lead	237	10.0	ug/L	250.0		95	80-120			
Nickel	235	25.0	ug/L	250.0		94	80-120			
Selenium	531	100	ug/L	500.0		106	80-120			
Silver	122	5.0	ug/L	125.0		97	80-120			
Thallium	214	20.0	ug/L	250.0		85	80-120			
Vanadium	240	10.0	ug/L	250.0		96	80-120			
Zinc	237	25.0	ug/L	250.0		95	80-120			
LCS Dup										
Antimony	276	50.0	ug/L	250.0		110	80-120	3	20	
Arsenic	223	50.0	ug/L	250.0		89	80-120	4	20	
Barium	249	25.0	ug/L	250.0		100	80-120	4	20	
Beryllium	24.9	0.5	ug/L	25.00		100	80-120	4	20	
Cadmium	118	2.5	ug/L	125.0		94	80-120	4	20	
Chromium	248	10.0	ug/L	250.0		99	80-120	4	20	
Lead	246	10.0	ug/L	250.0		98	80-120	4	20	
Nickel	246	25.0	ug/L	250.0		98	80-120	4	20	

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett - MCP

ESS Laboratory Work Order: 1505568

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Dissolved Metals										
Batch CE52605 - 3005A/200.7										
Selenium	555	100	ug/L	500.0		111	80-120	4	20	
Silver	128	5.0	ug/L	125.0		102	80-120	5	20	
Thallium	229	20.0	ug/L	250.0		92	80-120	7	20	
Vanadium	251	10.0	ug/L	250.0		100	80-120	5	20	
Zinc	253	25.0	ug/L	250.0		101	80-120	7	20	
8270C Semi-Volatile Organic Compounds										
Batch CE52612 - 3520C										
Blank										
1,2,4-Trichlorobenzene	ND	10.0	ug/L							
1,2-Dichlorobenzene	ND	10.0	ug/L							
1,3-Dichlorobenzene	ND	10.0	ug/L							
1,4-Dichlorobenzene	ND	10.0	ug/L							
2,4,5-Trichlorophenol	ND	10.0	ug/L							
2,4,6-Trichlorophenol	ND	10.0	ug/L							
2,4-Dichlorophenol	ND	10.0	ug/L							
2,4-Dimethylphenol	ND	50.0	ug/L							
2,4-Dinitrophenol	ND	50.0	ug/L							
2,4-Dinitrotoluene	ND	10.0	ug/L							
2,6-Dinitrotoluene	ND	10.0	ug/L							
2-Chloronaphthalene	ND	10.0	ug/L							
2-Chlorophenol	ND	10.0	ug/L							
2-Methylphenol	ND	10.0	ug/L							
2-Nitrophenol	ND	10.0	ug/L							
3,3´-Dichlorobenzidine	ND	20.0	ug/L							
3+4-Methylphenol	ND	20.0	ug/L							
4-Bromophenyl-phenylether	ND	10.0	ug/L							
4-Chloroaniline	ND	20.0	ug/L							
4-Nitrophenol	ND	50.0	ug/L							
Acetophenone	ND	10.0	ug/L							
Aniline	ND	10.0	ug/L							
Azobenzene	ND	20.0	ug/L							
bis(2-Chloroethoxy)methane	ND	10.0	ug/L							
bis(2-Chloroethyl)ether	ND	10.0	ug/L							
bis(2-chloroisopropyl)Ether	ND	10.0	ug/L							
bis(2-Ethylhexyl)phthalate	ND	6.0	ug/L							
Butylbenzylphthalate	ND	10.0	ug/L							
Dibenzofuran	ND	10.0	ug/L							
Diethylphthalate	ND	10.0	ug/L							
Dimethylphthalate	ND	10.0	ug/L							
Di-n-butylphthalate	ND	10.0	ug/L							
Di-n-octylphthalate	ND	10.0	ug/L							
Hexachlorobutadiene	ND	10.0	ug/L							
Hexachloroethane	ND	5.0	ug/L							
Isophorone	ND	10.0	ug/L							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett - MCP

ESS Laboratory Work Order: 1505568

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270C Semi-Volatile Organic Compounds										
Batch CE52612 - 3520C										
Nitrobenzene	ND	10.0	ug/L							
N-Nitrosodimethylamine	ND	10.0	ug/L							
Phenol	ND	10.0	ug/L							
Surrogate: 1,2-Dichlorobenzene-d4	*60.5*		ug/L	*100.0*		*60*	*30-130*			
Surrogate: 2,4,6-Tribromophenol	*99.8*		ug/L	*150.0*		*67*	*15-110*			
Surrogate: 2-Chlorophenol-d4	*96.9*		ug/L	*150.0*		*65*	*15-110*			
Surrogate: 2-Fluorobiphenyl	*60.9*		ug/L	*100.0*		*61*	*30-130*			
Surrogate: 2-Fluorophenol	*85.5*		ug/L	*150.0*		*57*	*15-110*			
Surrogate: Nitrobenzene-d5	*64.1*		ug/L	*100.0*		*64*	*30-130*			
Surrogate: Phenol-d6	*96.1*		ug/L	*150.0*		*64*	*15-110*			
Surrogate: p-Terphenyl-d14	*69.1*		ug/L	*100.0*		*69*	*30-130*			
LCS										
1,2,4-Trichlorobenzene	56.1	10.0	ug/L	100.0		56	40-140			
1,2-Dichlorobenzene	44.5	10.0	ug/L	100.0		44	40-140			
1,3-Dichlorobenzene	43.1	10.0	ug/L	100.0		43	40-140			
1,4-Dichlorobenzene	42.8	10.0	ug/L	100.0		43	40-140			
2,4,5-Trichlorophenol	69.3	10.0	ug/L	100.0		69	30-130			
2,4,6-Trichlorophenol	64.4	10.0	ug/L	100.0		64	30-130			
2,4-Dichlorophenol	61.3	10.0	ug/L	100.0		61	30-130			
2,4-Dimethylphenol	63.6	50.0	ug/L	100.0		64	30-130			
2,4-Dinitrophenol	42.1	50.0	ug/L	100.0		42	30-130			
2,4-Dinitrotoluene	68.3	10.0	ug/L	100.0		68	40-140			
2,6-Dinitrotoluene	65.3	10.0	ug/L	100.0		65	40-140			
2-Chloronaphthalene	89.0	10.0	ug/L	100.0		89	40-140			
2-Chlorophenol	56.0	10.0	ug/L	100.0		56	30-130			
2-Methylphenol	58.3	10.0	ug/L	100.0		58	30-130			
2-Nitrophenol	57.6	10.0	ug/L	100.0		58	30-130			
3,3´-Dichlorobenzidine	56.3	20.0	ug/L	100.0		56	40-140			
3+4-Methylphenol	125	20.0	ug/L	200.0		63	30-130			
4-Bromophenyl-phenylether	63.3	10.0	ug/L	100.0		63	40-140			
4-Chloroaniline	51.6	20.0	ug/L	100.0		52	40-140			
4-Nitrophenol	48.6	50.0	ug/L	100.0		49	30-130			
Acetophenone	59.4	10.0	ug/L	100.0		59	40-140			
Aniline	47.4	10.0	ug/L	100.0		47	40-140			
Azobenzene	58.0	20.0	ug/L	100.0		58	40-140			
bis(2-Chloroethoxy)methane	57.0	10.0	ug/L	100.0		57	40-140			
bis(2-Chloroethyl)ether	74.8	10.0	ug/L	100.0		75	40-140			
bis(2-chloroisopropyl)Ether	57.0	10.0	ug/L	100.0		57	40-140			
bis(2-Ethylhexyl)phthalate	66.1	6.0	ug/L	100.0		66	40-140			
Butylbenzylphthalate	64.1	10.0	ug/L	100.0		64	40-140			
Dibenzofuran	63.9	10.0	ug/L	100.0		64	40-140			
Diethylphthalate	69.0	10.0	ug/L	100.0		69	40-140			
Dimethylphthalate	65.3	10.0	ug/L	100.0		65	40-140			
Di-n-butylphthalate	69.8	10.0	ug/L	100.0		70	40-140			
Di-n-octylphthalate	70.3	10.0	ug/L	100.0		70	40-140			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett - MCP

ESS Laboratory Work Order: 1505568

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270C Semi-Volatile Organic Compounds										
Batch CE52612 - 3520C										
Hexachlorobutadiene	55.3	10.0	ug/L	100.0		55	40-140			
Hexachloroethane	43.5	5.0	ug/L	100.0		44	40-140			
Isophorone	54.7	10.0	ug/L	100.0		55	40-140			
Nitrobenzene	60.3	10.0	ug/L	100.0		60	40-140			
N-Nitrosodimethylamine	82.1	10.0	ug/L	100.0		82	40-140			
Phenol	55.2	10.0	ug/L	100.0		55	30-130			
Surrogate: 1,2-Dichlorobenzene-d4	*63.8*		ug/L	*100.0*		*64*	*30-130*			
Surrogate: 2,4,6-Tribromophenol	*114*		ug/L	*150.0*		*76*	*15-110*			
Surrogate: 2-Chlorophenol-d4	*96.8*		ug/L	*150.0*		*64*	*15-110*			
Surrogate: 2-Fluorobiphenyl	*70.2*		ug/L	*100.0*		*70*	*30-130*			
Surrogate: 2-Fluorophenol	*83.5*		ug/L	*150.0*		*56*	*15-110*			
Surrogate: Nitrobenzene-d5	*66.6*		ug/L	*100.0*		*67*	*30-130*			
Surrogate: Phenol-d6	*97.9*		ug/L	*150.0*		*65*	*15-110*			
Surrogate: p-Terphenyl-d14	*71.3*		ug/L	*100.0*		*71*	*30-130*			
LCS Dup										
1,2,4-Trichlorobenzene	59.0	10.0	ug/L	100.0		59	40-140	5	20	
1,2-Dichlorobenzene	47.5	10.0	ug/L	100.0		47	40-140	7	20	
1,3-Dichlorobenzene	45.9	10.0	ug/L	100.0		46	40-140	6	20	
1,4-Dichlorobenzene	45.2	10.0	ug/L	100.0		45	40-140	6	20	
2,4,5-Trichlorophenol	73.5	10.0	ug/L	100.0		74	30-130	6	20	
2,4,6-Trichlorophenol	68.4	10.0	ug/L	100.0		68	30-130	6	20	
2,4-Dichlorophenol	66.9	10.0	ug/L	100.0		67	30-130	9	20	
2,4-Dimethylphenol	66.6	50.0	ug/L	100.0		67	30-130	5	20	
2,4-Dinitrophenol	45.8	50.0	ug/L	100.0		46	30-130	8	20	
2,4-Dinitrotoluene	72.0	10.0	ug/L	100.0		72	40-140	5	20	
2,6-Dinitrotoluene	71.8	10.0	ug/L	100.0		72	40-140	9	20	
2-Chloronaphthalene	93.2	10.0	ug/L	100.0		93	40-140	5	20	
2-Chlorophenol	61.3	10.0	ug/L	100.0		61	30-130	9	20	
2-Methylphenol	62.5	10.0	ug/L	100.0		62	30-130	7	20	
2-Nitrophenol	61.0	10.0	ug/L	100.0		61	30-130	6	20	
3,3´-Dichlorobenzidine	59.3	20.0	ug/L	100.0		59	40-140	5	20	
3+4-Methylphenol	133	20.0	ug/L	200.0		66	30-130	6	20	
4-Bromophenyl-phenylether	66.8	10.0	ug/L	100.0		67	40-140	5	20	
4-Chloroaniline	51.0	20.0	ug/L	100.0		51	40-140	1	20	
4-Nitrophenol	51.1	50.0	ug/L	100.0		51	30-130	5	20	
Acetophenone	63.1	10.0	ug/L	100.0		63	40-140	6	20	
Aniline	50.2	10.0	ug/L	100.0		50	40-140	6	20	
Azobenzene	61.1	20.0	ug/L	100.0		61	40-140	5	20	
bis(2-Chloroethoxy)methane	59.1	10.0	ug/L	100.0		59	40-140	4	20	
bis(2-Chloroethyl)ether	80.6	10.0	ug/L	100.0		81	40-140	8	20	
bis(2-chloroisopropyl)Ether	58.9	10.0	ug/L	100.0		59	40-140	3	20	
bis(2-Ethylhexyl)phthalate	71.1	6.0	ug/L	100.0		71	40-140	7	20	
Butylbenzylphthalate	66.9	10.0	ug/L	100.0		67	40-140	4	20	
Dibenzofuran	66.2	10.0	ug/L	100.0		66	40-140	4	20	
Diethylphthalate	74.2	10.0	ug/L	100.0		74	40-140	7	20	

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett - MCP

ESS Laboratory Work Order: 1505568

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270C Semi-Volatile Organic Compounds										
Batch CE52612 - 3520C										
Dimethylphthalate	70.5	10.0	ug/L	100.0		70	40-140	8	20	
Di-n-butylphthalate	73.9	10.0	ug/L	100.0		74	40-140	6	20	
Di-n-octylphthalate	75.2	10.0	ug/L	100.0		75	40-140	7	20	
Hexachlorobutadiene	59.0	10.0	ug/L	100.0		59	40-140	7	20	
Hexachloroethane	46.4	5.0	ug/L	100.0		46	40-140	6	20	
Isophorone	59.1	10.0	ug/L	100.0		59	40-140	8	20	
Nitrobenzene	63.7	10.0	ug/L	100.0		64	40-140	5	20	
N-Nitrosodimethylamine	84.9	10.0	ug/L	100.0		85	40-140	3	20	
Phenol	60.3	10.0	ug/L	100.0		60	30-130	9	20	
Surrogate: 1,2-Dichlorobenzene-d4	*62.1*		ug/L	*100.0*		*62*	*30-130*			
Surrogate: 2,4,6-Tribromophenol	*115*		ug/L	*150.0*		*77*	*15-110*			
Surrogate: 2-Chlorophenol-d4	*98.3*		ug/L	*150.0*		*66*	*15-110*			
Surrogate: 2-Fluorobiphenyl	*68.0*		ug/L	*100.0*		*68*	*30-130*			
Surrogate: 2-Fluorophenol	*87.6*		ug/L	*150.0*		*58*	*15-110*			
Surrogate: Nitrobenzene-d5	*65.1*		ug/L	*100.0*		*65*	*30-130*			
Surrogate: Phenol-d6	*97.2*		ug/L	*150.0*		*65*	*15-110*			
Surrogate: p-Terphenyl-d14	*69.8*		ug/L	*100.0*		*70*	*30-130*			
8270D(SIM) Semi-Volatile Organic Compounds										
Batch CE52636 - 3510C										
Blank										
2-Methylnaphthalene	ND	0.20	ug/L							
Acenaphthene	ND	0.20	ug/L							
Acenaphthylene	ND	0.20	ug/L							
Anthracene	ND	0.20	ug/L							
Benzo(a)anthracene	ND	0.05	ug/L							
Benzo(a)pyrene	ND	0.05	ug/L							
Benzo(b)fluoranthene	ND	0.05	ug/L							
Benzo(g,h,i)perylene	ND	0.20	ug/L							
Benzo(k)fluoranthene	ND	0.05	ug/L							
Chrysene	ND	0.05	ug/L							
Dibenzo(a,h)Anthracene	ND	0.05	ug/L							
Fluoranthene	ND	0.20	ug/L							
Fluorene	ND	0.20	ug/L							
Hexachlorobenzene	ND	0.20	ug/L							
Indeno(1,2,3-cd)Pyrene	ND	0.05	ug/L							
Naphthalene	ND	0.20	ug/L							
Pentachlorophenol	ND	0.90	ug/L							
Phenanthrene	ND	0.20	ug/L							
Pyrene	ND	0.20	ug/L							
Surrogate: 1,2-Dichlorobenzene-d4	*1.27*		ug/L	*2.500*		*51*	*30-130*			
Surrogate: 2,4,6-Tribromophenol	*4.49*		ug/L	*3.750*		*120*	*15-110*			*S+*
Surrogate: 2-Fluorobiphenyl	*1.58*		ug/L	*2.500*		*63*	*30-130*			
Surrogate: Nitrobenzene-d5	*2.05*		ug/L	*2.500*		*82*	*30-130*			
Surrogate: p-Terphenyl-d14	*1.93*		ug/L	*2.500*		*77*	*30-130*			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett - MCP

ESS Laboratory Work Order: 1505568

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D(SIM) Semi-Volatile Organic Compounds										
Batch CE52636 - 3510C										
LCS										
2-Methylnaphthalene	1.84	0.20	ug/L	4.000		46	40-140			
Acenaphthene	2.38	0.20	ug/L	4.000		59	40-140			
Acenaphthylene	2.31	0.20	ug/L	4.000		58	40-140			
Anthracene	2.88	0.20	ug/L	4.000		72	40-140			
Benzo(a)anthracene	3.06	0.05	ug/L	4.000		77	40-140			
Benzo(a)pyrene	3.21	0.05	ug/L	4.000		80	40-140			
Benzo(b)fluoranthene	3.21	0.05	ug/L	4.000		80	40-140			
Benzo(g,h,i)perylene	3.19	0.20	ug/L	4.000		80	40-140			
Benzo(k)fluoranthene	3.40	0.05	ug/L	4.000		85	40-140			
Chrysene	3.14	0.05	ug/L	4.000		78	40-140			
Dibenzo(a,h)Anthracene	3.17	0.05	ug/L	4.000		79	40-140			
Fluoranthene	3.10	0.20	ug/L	4.000		77	40-140			
Fluorene	2.53	0.20	ug/L	4.000		63	40-140			
Hexachlorobenzene	3.21	0.20	ug/L	4.000		80	40-140			
Indeno(1,2,3-cd)Pyrene	3.20	0.05	ug/L	4.000		80	40-140			
Naphthalene	2.02	0.20	ug/L	4.000		51	40-140			
Pentachlorophenol	1.83	0.90	ug/L	4.000		46	30-130			
Phenanthrene	2.78	0.20	ug/L	4.000		69	40-140			
Pyrene	3.10	0.20	ug/L	4.000		77	40-140			
Surrogate: 1,2-Dichlorobenzene-d4	*0.991*		ug/L	*2.500*		*40*	*30-130*			
Surrogate: 2,4,6-Tribromophenol	*4.10*		ug/L	*3.750*		*109*	*15-110*			
Surrogate: 2-Fluorobiphenyl	*1.33*		ug/L	*2.500*		*53*	*30-130*			
Surrogate: Nitrobenzene-d5	*1.56*		ug/L	*2.500*		*62*	*30-130*			
Surrogate: p-Terphenyl-d14	*1.72*		ug/L	*2.500*		*69*	*30-130*			
LCS Dup										
2-Methylnaphthalene	1.75	0.20	ug/L	4.000		44	40-140	5	20	
Acenaphthene	2.20	0.20	ug/L	4.000		55	40-140	8	20	
Acenaphthylene	2.16	0.20	ug/L	4.000		54	40-140	6	20	
Anthracene	2.84	0.20	ug/L	4.000		71	40-140	1	20	
Benzo(a)anthracene	3.22	0.05	ug/L	4.000		81	40-140	5	20	
Benzo(a)pyrene	3.46	0.05	ug/L	4.000		86	40-140	8	20	
Benzo(b)fluoranthene	3.42	0.05	ug/L	4.000		86	40-140	7	20	
Benzo(g,h,i)perylene	3.43	0.20	ug/L	4.000		86	40-140	7	20	
Benzo(k)fluoranthene	3.62	0.05	ug/L	4.000		91	40-140	6	20	
Chrysene	3.30	0.05	ug/L	4.000		83	40-140	5	20	
Dibenzo(a,h)Anthracene	3.42	0.05	ug/L	4.000		85	40-140	8	20	
Fluoranthene	3.39	0.20	ug/L	4.000		85	40-140	9	20	
Fluorene	2.33	0.20	ug/L	4.000		58	40-140	8	20	
Hexachlorobenzene	3.13	0.20	ug/L	4.000		78	40-140	2	20	
Indeno(1,2,3-cd)Pyrene	3.42	0.05	ug/L	4.000		85	40-140	6	20	
Naphthalene	1.94	0.20	ug/L	4.000		48	40-140	4	20	
Pentachlorophenol	2.08	0.90	ug/L	4.000		52	30-130	13	20	
Phenanthrene	2.72	0.20	ug/L	4.000		68	40-140	2	20	
Pyrene	3.18	0.20	ug/L	4.000		80	40-140	3	20	

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett - MCP

ESS Laboratory Work Order: 1505568

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D(SIM) Semi-Volatile Organic Compounds										
Batch CE52636 - 3510C										
Surrogate: 1,2-Dichlorobenzene-d4	*0.995*		ug/L	*2.500*		*40*	*30-130*			
Surrogate: 2,4,6-Tribromophenol	*4.14*		ug/L	*3.750*		*110*	*15-110*			
Surrogate: 2-Fluorobiphenyl	*1.30*		ug/L	*2.500*		*52*	*30-130*			
Surrogate: Nitrobenzene-d5	*1.53*		ug/L	*2.500*		*61*	*30-130*			
Surrogate: p-Terphenyl-d14	*1.81*		ug/L	*2.500*		*72*	*30-130*			
Classical Chemistry										
Batch CE52302 - General Preparation										
Blank										
Hexavalent Chromium	ND	10	ug/L							
LCS										
Hexavalent Chromium	0.5		mg/L	0.4998		97	90-110			
LCS Dup										
Hexavalent Chromium	0.5		mg/L	0.4998		97	90-110	0.2	20	
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CE52810 - 3510C										
Blank										
C19-C36 Aliphatics1	ND	100	ug/L							
C9-C18 Aliphatics1	ND	100	ug/L							
Decane (C10)	ND	5	ug/L							
Docosane (C22)	ND	5	ug/L							
Dodecane (C12)	ND	5	ug/L							
Eicosane (C20)	ND	5	ug/L							
Hexacosane (C26)	ND	5	ug/L							
Hexadecane (C16)	ND	5	ug/L							
Hexatriacontane (C36)	ND	5	ug/L							
Nonadecane (C19)	ND	5	ug/L							
Nonane (C9)	ND	5	ug/L							
Octacosane (C28)	ND	5	ug/L							
Octadecane (C18)	ND	5	ug/L							
Tetracosane (C24)	ND	5	ug/L							
Tetradecane (C14)	ND	5	ug/L							
Triacontane (C30)	ND	5	ug/L							
Surrogate: 1-Chlorooctadecane	*36.5*		ug/L	*50.00*		*73*	*40-140*			
Blank										
2-Methylnaphthalene	ND	5.0	ug/L							
Acenaphthene	ND	5.0	ug/L							
Acenaphthylene	ND	5.0	ug/L							
Anthracene	ND	5.0	ug/L							
Benzo(a)anthracene	ND	5.0	ug/L							
Benzo(a)pyrene	ND	10.0	ug/L							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett - MCP

ESS Laboratory Work Order: 1505568

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CE52810 - 3510C										
Benzo(b)fluoranthene	ND	5.0	ug/L							
Benzo(g,h,i)perylene	ND	10.0	ug/L							
Benzo(k)fluoranthene	ND	10.0	ug/L							
C11-C22 Unadjusted Aromatics1	ND	100	ug/L							
Chrysene	ND	10.0	ug/L							
Dibenzo(a,h)Anthracene	ND	5.0	ug/L							
Fluoranthene	ND	10.0	ug/L							
Fluorene	ND	5.0	ug/L							
Indeno(1,2,3-cd)Pyrene	ND	5.0	ug/L							
Naphthalene	ND	10.0	ug/L							
Phenanthrene	ND	5.0	ug/L							
Pyrene	ND	5.0	ug/L							
Surrogate: 2-Bromonaphthalene	*47.1*		ug/L	*50.00*		*94*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*48.7*		ug/L	*50.00*		*97*	*40-140*			
Surrogate: O-Terphenyl	*38.9*		ug/L	*50.00*		*78*	*40-140*			
LCS										
C19-C36 Aliphatics1	294	100	ug/L	400.0		74	40-140			
C9-C18 Aliphatics1	182	100	ug/L	300.0		61	40-140			
Decane (C10)	23	5	ug/L	50.00		47	40-140			
Docosane (C22)	37	5	ug/L	50.00		74	40-140			
Dodecane (C12)	26	5	ug/L	50.00		51	40-140			
Eicosane (C20)	37	5	ug/L	50.00		75	40-140			
Hexacosane (C26)	37	5	ug/L	50.00		74	40-140			
Hexadecane (C16)	36	5	ug/L	50.00		72	40-140			
Hexatriacontane (C36)	34	5	ug/L	50.00		68	40-140			
Nonadecane (C19)	38	5	ug/L	50.00		75	40-140			
Nonane (C9)	18	5	ug/L	50.00		36	30-140			
Octacosane (C28)	36	5	ug/L	50.00		71	40-140			
Octadecane (C18)	37	5	ug/L	50.00		74	40-140			
Tetracosane (C24)	35	5	ug/L	50.00		71	40-140			
Tetradecane (C14)	32	5	ug/L	50.00		65	40-140			
Triacontane (C30)	36	5	ug/L	50.00		72	40-140			
Surrogate: 1-Chlorooctadecane	*36.0*		ug/L	*50.00*		*72*	*40-140*			
LCS										
2-Methylnaphthalene	35.0	5.0	ug/L	50.00		70	40-140			
Acenaphthene	37.8	5.0	ug/L	50.00		76	40-140			
Acenaphthylene	38.6	5.0	ug/L	50.00		77	40-140			
Anthracene	40.5	5.0	ug/L	50.00		81	40-140			
Benzo(a)anthracene	32.4	5.0	ug/L	50.00		65	40-140			
Benzo(a)pyrene	35.8	10.0	ug/L	50.00		72	40-140			
Benzo(b)fluoranthene	32.4	5.0	ug/L	50.00		65	40-140			
Benzo(g,h,i)perylene	34.2	10.0	ug/L	50.00		68	40-140			
Benzo(k)fluoranthene	36.0	10.0	ug/L	50.00		72	40-140			
C11-C22 Unadjusted Aromatics1	614	100	ug/L	850.0		72	40-140			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett - MCP

ESS Laboratory Work Order: 1505568

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CE52810 - 3510C										
Chrysene	37.4	10.0	ug/L	50.00		75	40-140			
Dibenzo(a,h)Anthracene	32.5	5.0	ug/L	50.00		65	40-140			
Fluoranthene	37.4	10.0	ug/L	50.00		75	40-140			
Fluorene	38.0	5.0	ug/L	50.00		76	40-140			
Indeno(1,2,3-cd)Pyrene	33.0	5.0	ug/L	50.00		66	40-140			
Naphthalene	33.9	10.0	ug/L	50.00		68	40-140			
Phenanthrene	38.4	5.0	ug/L	50.00		77	40-140			
Pyrene	38.6	5.0	ug/L	50.00		77	40-140			
Surrogate: 2-Bromonaphthalene	*50.0*		ug/L	*50.00*		*100*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*49.4*		ug/L	*50.00*		*99*	*40-140*			
Surrogate: O-Terphenyl	*38.1*		ug/L	*50.00*		*76*	*40-140*			
LCS										
2-Methylnaphthalene Breakthrough	0.0		%				0-5			
Naphthalene Breakthrough	0.0		%				0-5			
LCS Dup										
C19-C36 Aliphatics1	288	100	ug/L	400.0		72	40-140	2	25	
C9-C18 Aliphatics1	173	100	ug/L	300.0		58	40-140	5	25	
Decane (C10)	21	5	ug/L	50.00		42	40-140	10	25	
Docosane (C22)	37	5	ug/L	50.00		73	40-140	2	25	
Dodecane (C12)	23	5	ug/L	50.00		47	40-140	8	25	
Eicosane (C20)	37	5	ug/L	50.00		73	40-140	2	25	
Hexacosane (C26)	36	5	ug/L	50.00		73	40-140	1	25	
Hexadecane (C16)	35	5	ug/L	50.00		69	40-140	3	25	
Hexatriacontane (C36)	33	5	ug/L	50.00		66	40-140	3	25	
Nonadecane (C19)	37	5	ug/L	50.00		73	40-140	2	25	
Nonane (C9)	16	5	ug/L	50.00		33	30-140	9	25	
Octacosane (C28)	35	5	ug/L	50.00		70	40-140	1	25	
Octadecane (C18)	36	5	ug/L	50.00		72	40-140	3	25	
Tetracosane (C24)	35	5	ug/L	50.00		70	40-140	2	25	
Tetradecane (C14)	31	5	ug/L	50.00		62	40-140	4	25	
Triacontane (C30)	36	5	ug/L	50.00		71	40-140	1	25	
Surrogate: 1-Chlorooctadecane	*34.7*		ug/L	*50.00*		*69*	*40-140*			
LCS Dup										
2-Methylnaphthalene	33.3	5.0	ug/L	50.00		67	40-140	5	20	
Acenaphthene	35.8	5.0	ug/L	50.00		72	40-140	5	20	
Acenaphthylene	37.1	5.0	ug/L	50.00		74	40-140	4	20	
Anthracene	39.8	5.0	ug/L	50.00		80	40-140	2	20	
Benzo(a)anthracene	32.5	5.0	ug/L	50.00		65	40-140	0.09	20	
Benzo(a)pyrene	35.9	10.0	ug/L	50.00		72	40-140	0.3	20	
Benzo(b)fluoranthene	32.2	5.0	ug/L	50.00		64	40-140	0.5	20	
Benzo(g,h,i)perylene	34.1	10.0	ug/L	50.00		68	40-140	0.2	20	
Benzo(k)fluoranthene	37.2	10.0	ug/L	50.00		74	40-140	3	20	
C11-C22 Unadjusted Aromatics1	604	100	ug/L	850.0		71	40-140	2	25	
Chrysene	37.7	10.0	ug/L	50.00		75	40-140	0.7	20	

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett - MCP

ESS Laboratory Work Order: 1505568

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CE52810 - 3510C										
Dibenzo(a,h)Anthracene	32.2	5.0	ug/L	50.00		64	40-140	1	20	
Fluoranthene	36.7	10.0	ug/L	50.00		73	40-140	2	20	
Fluorene	37.0	5.0	ug/L	50.00		74	40-140	3	20	
Indeno(1,2,3-cd)Pyrene	33.1	5.0	ug/L	50.00		66	40-140	0.3	20	
Naphthalene	32.0	10.0	ug/L	50.00		64	40-140	6	20	
Phenanthrene	37.6	5.0	ug/L	50.00		75	40-140	2	20	
Pyrene	37.7	5.0	ug/L	50.00		75	40-140	2	20	
Surrogate: 2-Bromonaphthalene	*49.9*		ug/L	*50.00*		*100*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*49.2*		ug/L	*50.00*		*98*	*40-140*			
Surrogate: O-Terphenyl	*37.0*		ug/L	*50.00*		*74*	*40-140*			
LCS Dup										
2-Methylnaphthalene Breakthrough	0.0		%				0-5		200	
Naphthalene Breakthrough	0.0		%				0-5		200	

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett - MCP

ESS Laboratory Work Order: 1505568

Notes and Definitions

Z-06	pH <= 2
U	Analyte included in the analysis, but not detected
S+	Surrogate recovery(ies) above upper control limit (S+).
Q	Calibration required quadratic regression (Q).
IC	Internal Standard(s) outside of criteria. Sample was reanalyzed to confirm (IC).
EL	Elevated Method Reporting Limits due to sample matrix (EL).
D	Diluted.
C+	Continuing Calibration recovery is above upper control limit (C+).
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	Detection Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett - MCP

ESS Laboratory Work Order: 1505568

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Department of Defense (DoD) Environmental Laboratory Accreditation Program (ELAP)
A2LA Accredited: Testing Cert# 2864.01
http://www.a2la.org/scopepdf/2864-01.pdf

Rhode Island Potable and Non Potable Water: LAI00179
http://www.health.ri.gov/find/labs/analytical/ESS.pdf

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750
http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI0002
http://www.maine.gov/dhhs/mecdc/environmental-health/water/dwp-services/labcert/documents/AllLabs.xls

Massachusetts Potable and Non Potable Water: M-RI002
http://public.dep.state.ma.us/Labcert/Labcert.aspx

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424
http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313
http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006
http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

United States Department of Agriculture Soil Permit: P330-12-00139

Pennsylvania: 68-01752
http://www.depweb.state.pa.us/portal/server.pt/community/labs/13780/laboratory_accreditation_program/590095

CHEMISTRY

A2LA Accredited: Testing Cert # 2864.01
Lead in Paint, Phthalates, Lead in Children's Metals Products (Including Jewelry)
http://www.A2LA.org/dirsearchnew/newsearch.cfm

CPSC ID# 1141
Lead Paint, Lead in Children's Metals Jewelry
http://www.cpsc.gov/cgi-bin/labapplist.aspx

Sample and Cooler Receipt Checklist

Client: GZA GeoEnvironmental, Inc.
Client Project ID: _____
Shipped/Delivered Via: ESS Courier

ESS Project ID: 15050568
Date Project Due: ~~5/29/15~~ 6/1/15 w- 5/22/15
Days For Project: 5 Day

Items to be checked upon receipt:

1. Air Bill Manifest Present?	* No	10. Are the samples properly preserved?	Yes
Air No.:		11. Proper sample containers used?	Yes
2. Were Custody Seals Present?	Yes	12. Any air bubbles in the VOA vials?	N/A
3. Were Custody Seals Intact?	Yes	13. Holding times exceeded?	No
4. Is Radiation count < 100 CPM?	Yes	14. Sufficient sample volumes?	Yes
5. Is a cooler present?	Yes	15. Any Subcontracting needed?	No
Cooler Temp: **3.4**		16. Are ESS labels on correct containers?	**Yes** | **No**
Iced With: **Ice**		17. Were samples received intact?	**Yes** | **No**
6. Was COC included with samples?	Yes	ESS Sample IDs:	
7. Was COC signed and dated by client?	Yes	Sub Lab:	
8. Does the COC match the sample	Yes	Analysis:	
9. Is COC complete and correct?	Yes	TAT:	

18. Was there need to call project manager to discuss status? If yes, please explain.

_____

_____

_____

Who was called?:_____ By whom? _____

Sample Number	Properly Preserved	Container Type	# of Containers	Preservative
1	Yes	1 L Glass	2	HCL
1	Yes	1 L Glass	5	NP
1	Yes	250 ml Plastic	1	HNO3
2	Yes	1 L Glass	2	HCL
2	Yes	1 L Glass	5	NP
2	Yes	500 ml Plastic	1	HNO3

Completed By: _____ Date/Time: 5/22/15 1643
Reviewed By: Nancy A Rose Date/Time: 5/22/15 1700

ESS Laboratory

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

Turn Time: X Standard Other ____
If faster than 5 days, prior approval by laboratory is required # ____

State where samples were collected from: (MA) RI CT NH NJ NY ME Other ____

Is this project for any of the following: (MA-MCP) Navy USACE Other ____

Reporting Limits

ESS LAB PROJECT ID: 1505368

Electronic Deliverable: Yes X No ____
Format: Excel X Access ____ PDF X Other ____

Co. Name	Project #	Project Name (20 Char. or less)
GZA GeoEnvironmental	17152l.13	Wynn Everett

Contact Person	Address
David E. Leone	749 Vanderbilt Ave

City	State	Zip	PO#
Norwood	MA	02062	

Telephone #	Fax #	Email Address
(781) 278-5766		davide.leone@gza.com

ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	8260 VOA / 624 / 524.2	8021 MTBE/BTEX / 8015 GRO / VPH w/targets	8100 TPH / 8015 DRO	EPH w/o PAHs / EPH w/PAHs / EPH 4 Diesel	8081 Pesticides / 8082 PCB / 608 Pesticides / 608 PCB	8270 SVOA / 625 / PAH 8270	RCRA5 / RCRA8 / PP13 / TAL23	TCLP-RCRA8 / NBC7	MCP-METALS (8) / MCP-14 METALS / MCP-METALS (13) w/Hg	Hexavalent Cr				Notes
1	05-22-15	0940		X	SW	SW-10-05-22-15	1,2,4	8	P,G				X		X			X	X				1,2
2	05-22-15	1000		X	SW	SW-11-05-22-15	1,2,4	8	P,G				X		✓			✓	X				1,2

Container Type: P-Poly G-Glass S-Sterile V-VOA
Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present: ✓ Yes ___ No
Seals Intact: ___ Yes ___ No NA: ___
Cooler Temp: 3.4 Ice Kit

Internal Use Only
[ ] Pickup
[ ] Technicians ____

Preservation Code 1- NP, 2- HCl, 3- H_2SO_4, 4- HNO_3, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9- ____

Sampled by: Alice Blayney *EPH range per client request 5/26/15 cmt

Comments: send results to timothy.briggs@gza.com as well as David Leone
Notes: (1) Run PAH SIM (2) MCP-14 Dissolved Metals were field filtered

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	05-22-15 11:45			GZA Fridge w/CS	5/22/15 1526		5/22/15 1526
	5/22/15 1635		5/22/15 1637				

*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt

10/26/04 A

ESS Laboratory

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www.esslaboratory.com

CHAIN OF CUSTODY

Page 1 of 1

Turn Time: X Standard Other ____
If faster than 5 days, prior approval by laboratory is required # ____

State where samples were collected from: (MA) RI CT NH NJ NY ME Other ____

Is this project for any of the following: (MA-MCP) Navy USACE Other ____

Reporting Limits

ESS LAB PROJECT ID: 1505368

Electronic Deliverable: Yes X No ____
Format: Excel X Access ____ PDF X Other ____

Co. Name	Project #	Project Name (20 Char. or less)
GZA GeoEnvironmental	17152113	Wynn Everett

Contact Person	Address
David E. Leone	749 Vanderbilt Ave

City	State	Zip	PO#
Norwood	MA	02062	

Telephone #	Fax #	Email Address
(781) 278-5766		davide.leone@gza.com

ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	8260 VOA	524.2 624	8021 MTBE/BTEX	VPH w/targets 8015 GRO	8100 TPH	8015 DRO	EPH w/o PAHs	EPH w/PAHs 4 Diesel	8081 Pesticides	8082 PCB	608 Pesticides	608 PCB	8270 SVOA	625 PAH 8270	RCRA5	RCRA8 PP13	TAL23	TCLP-RCRA8	NBC7	MCP-METALS (13) w/Hg	MCP-14 METALS (14)	Hexavalent Cr				Notes
1	05-22-15	0940		X	SW	SW-10-05-22-15	1,2,4	8	P,G								X					X							X	X					1,2
2	05-22-15	1000		X	SW	SW-11-05-22-15	1,2,4	8	P,G								X					✓							✓	x					1,2

Container Type: P-Poly G-Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present: ✓ Yes ___ No
Seals Intact: ___ Yes ___ No NA: ___
Cooler Temp: 3.4 Ice Kit

Internal Use Only
[ ] Pickup
[ ] Technicians ____

Preservation Code 1- NP, 2- HCl, 3- H_2SO_4, 4- HNO_3, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9- ____

Sampled by: Alice Blayney

Comments: send results to timothy.briggs@gza.com as well as David Leone
Notes: (1) Run PAH SIM (2) MCP-14 Dissolved Metals were field filtered

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	05-22-15 11:45			GZA Fridge w/CS	5/22/15 1526		5/22/15 1526
	5/22/15 1635		5/22/15 1637				

By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt

10/26/04 A

APPENDIX C

SEDIMENT LABORATORY REPORTS

CERTIFICATE OF ANALYSIS

David E Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Avenue
Norwood, MA 02062

RE: Everett (01.0171521.02)
ESS Laboratory Work Order Number: 1308098

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard
Laboratory Director

REVIEWED
By ESS Laboratory at 3:56 pm, Aug 21, 2013

Analytical Summary
The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with NELAC Standards, A2LA and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibratins, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.

Subcontracted Analyses

Sterling Analytical Lab - West Springfield, MA	Total Organic Carbon

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308098

SAMPLE RECEIPT

The following samples were received on August 07, 2013 for the analyses specified on the enclosed Chain of Custody Record.

To achieve CAM compliance for MCP data, ESS Laboratory has performed and reviewed all QA/QC Requirements and Performance Standards listed in each method. Holding times and preservation have also been reviewed. All CAM requirements have been achieved unless noted in the project narrative.

Each method has been set-up in the laboratory to reach required MCP standards. The methods for aqueous VOA and Soil Methanol VOA have known limitations for certain analytes. The regulatory standards may not be achieved due to these limitations. In addition, for all methods, matrix interferences, dilutions, and %Solids may elevate method reporting limits above regulatory standards. ESS Laboratory can provide, upon request, a Data Checker (regulatory standard comparison spreadsheet) electronic deliverable which will highlight these exceedances.

For EPH soil samples, the aromatic range results have been corrected for identified cartridge contaminant in accordance with the CAM protocol.

Question I: All samples for SVOA were analyzed for a subset of the required MCP list per the client's request.

Lab Number	SampleName	Matrix	Analysis
1308098-01	GZ-101 0-0.5ft	Solid	6010B, 6020A, 7471B, TOC-LK
1308098-02	GZ-101 2-4ft	Solid	6010B, 6020A, 7471B
1308098-03	GZ-101 4-6ft	Solid	6010B, 6020A, 7471B
1308098-04	GZ-101 8-9ft	Solid	6010B, 6020A, 7471B
1308098-05	GZ-102 2-4ft	Solid	6010B, 6020A, 7471B
1308098-06	GZ-102 4-6ft	Solid	6010B, 6020A, 7471B
1308098-07	GZ-102 6-8ft	Solid	6010B, 6020A, 7471B, 8082A, 8270D, EPH8270, MADEP-EPH, TOC-LK
1308098-08	GZ-102 8-10ft	Solid	6010B, 6020A, 7471B
1308098-09	GZ-103 2-4ft	Solid	6010B, 6020A, 7471B, TOC-LK
1308098-10	GZ-103 4-6ft	Solid	6010B, 6020A, 7471B, TOC-LK
1308098-11	GZ-103 6-7ft	Solid	6010B, 6020A, 7471B
1308098-12	GZ-104T 0-0.5ft	Solid	6010B, 6020A, 7471B, 8082A, 8270D, EPH8270, MADEP-EPH, TOC-LK
1308098-13	GZ-104 2-4ft	Solid	6010B, 6020A, 7471B, 8082A, 8270D, EPH8270, MADEP-EPH, TOC-LK
1308098-14	GZ-104 4-6ft	Solid	6010B, 6020A, 7471B, TOC-LK
1308098-15	GZ-104 6-8ft	Solid	6010B, 6020A, 7471B
1308098-16	GZ-105 2-4ft	Solid	6010B, 6020A, 7471B
1308098-17	GZ-105 4-6ft	Solid	6010B, 6020A, 7471B, 8082A, 8270D, EPH8270, MADEP-EPH, TOC-LK

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett ESS Laboratory Work Order: 1308098

1308098-18	GZ-105 6-9ft	Solid	6010B, 6020A, 7471B
1308098-19	GZ-106 2-4ft	Solid	6010B, 6020A, 7471B, TOC-LK
1308098-20	GZ-106 4-6ft	Solid	6010B, 6020A, 7471B

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308098

PROJECT NARRATIVE

8082A Polychlorinated Biphenyls (PCB)

1308098-12 **Percent difference between primary and confirmation results exceeds 40% (P).**
Aroclor 1260

8270D Semi-Volatile Organic Compounds

CWH0080-CCV1 **Calibration required quadratic regression (Q).**
2,4-Dinitrophenol (101% @ 80-120%), 4,6-Dinitro-2-Methylphenol (108% @ 70-130%), Benzoic Acid (97% @ 70-130%), Pentachlorophenol (101% @ 80-120%)

CWH0080-CCV1 **Initial Calibration Verification recovery is outside of control limit (ICV).**
Benzidine , Hexachlorocyclopentadiene

CWH0097-CCV1 **Calibration required quadratic regression (Q).**
2,4-Dinitrophenol (104% @ 80-120%), 4,6-Dinitro-2-Methylphenol (107% @ 70-130%), Benzoic Acid (87% @ 70-130%), Pentachlorophenol (98% @ 80-120%)

CWH0097-CCV1 **Continuing Calibration recovery is below lower control limit (C-).**
N-Nitrosodimethylamine (75% @ 80-120%)

CWH0097-CCV1 **Initial Calibration Verification recovery is outside of control limit (ICV).**
Benzidine , Hexachlorocyclopentadiene

CWH0106-CCV1 **Calibration required quadratic regression (Q).**
2,4-Dinitrophenol (110% @ 80-120%), 4,6-Dinitro-2-Methylphenol (114% @ 70-130%), Benzoic Acid (103% @ 70-130%), Pentachlorophenol (103% @ 80-120%)

CWH0106-CCV1 **Initial Calibration Verification recovery is outside of control limit (ICV).**
Benzidine , Hexachlorocyclopentadiene

8270D(SIM) Polynuclear Aromatic Hydrocarbons

1308098-07 **Internal Standard(s) outside of criteria due to matrix (UCM/coelution is present) (IM).**
Perylene-d12 (37% @ 50-200%)

MADEP-EPH Extractable Petroleum Hydrocarbons

CWH0135-CCV4 **Continuing Calibration recovery is above upper control limit (C+).**
Benzo(a)pyrene (121% @ 80-120%)

Total Metals Solid

CH30729-BSD1 **Blank Spike recovery is below lower control limit (B-).**
Arsenic (77% @ 80-120%), Barium (79% @ 80-120%), Cadmium (77% @ 80-120%), Zinc (76% @ 80-120%)

No other observations noted.

End of Project Narrative.

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308098

DATA USABILITY LINKS

Definitions of Quality Control Parameters

Semivolatile Organics Internal Standard Information

Semivolatile Organics Surrogate Information

Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists

CURRENT SW-846 METHODOLOGY VERSIONS

Analytical Methods

1010A - Flashpoint
6010C - ICP
6020A - ICP MS
7010 - Graphite Furnace
7196A - Hexavalent Chromium
7470A - Aqueous Mercury
7471B - Solid Mercury
8011 - EDB/DBCP/TCP
8015C - GRO/DRO
8081B - Pesticides
8082A - PCB
8100M - TPH
8151A - Herbicides
8260B - VOA
8270D - SVOA
8270D SIM - SVOA Low Level
9014 - Cyanide
9038 - Sulfate
9040C - Aqueous pH
9045D - Solid pH (Corrosivity)
9050A - Specific Conductance
9056A - Anions (IC)
9060A - TOC
9095B - Paint Filter
MADEP 04-1.1 - EPH / VPH

Prep Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5035 - Solid Purge and Trap

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308098

MassDEP Analytical Protocol Certification Form

MADEP RTN: _____

This form provides certification for the following data set: **1308098-01 through 1308098-20**

Matrices: ( ) Ground Water/Surface Water (X) Soil/Sediment ( ) Drinking Water ( ) Air ( ) Other:_____

CAM Protocol (check all that apply below):

( ) 8260 VOC CAM II A	(X) 7470/7471 Hg CAM III B	( ) MassDEP VPH CAM IV A	( ) 8081 Pesticides CAM V B	( ) 7196 Hex Cr CAM VI B	( ) MassDEP APH CAM IX A
(X) 8270 SVOC CAM II B	( ) 7010 Metals CAM III C	(X) MassDEP EPH CAM IV B	( ) 8151 Herbicides CAM V C	( ) 8330 Explosives CAM VIII A	( ) TO-15 VOC CAM IX B
(X) 6010 Metals CAM III A	(X) 6020 Metals CAM III D	(X) 8082 PCB CAM V A	( ) 6860 Perchlorate CAM VIII B	( ) 9014 Total Cyanide/PAC CAM VI A	

Affirmative responses to questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	Yes (X) No ( )
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	Yes (X) No ( )
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	Yes (X) No ( )
D	Does the laboratory report comply with all the reporting requirements specified in the CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	Yes (X) No ( )
E	a. VPH, EPH, APH and TO-15 only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	Yes (X) No ( )
	b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	Yes ( ) No ( )
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	Yes (X) No ( )

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocols(s)?	Yes (X) No ( )*
	***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**	
H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	Yes ( ) No (X)*
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	Yes (X) No ( )*

All negative responses must be addressed in an attached laboratory narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: _____ Date: August 21, 2013

Printed Name: Laurel Stoddard Position: Laboratory Director

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-101 0-0.5ft
Date Sampled: 08/01/13 08:45
Percent Solids: 41

ESS Laboratory Work Order: 1308098
ESS Laboratory Sample ID: 1308098-01
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (2.4)		6020A		50	JP	08/09/13 0:26	5.13	100	CH30729
Arsenic	**48.2** (2.4)		6010B		1	SVD	08/08/13 1:58	5.13	100	CH30729
Barium	**50.2** (2.4)		6010B		1	SVD	08/08/13 1:58	5.13	100	CH30729
Beryllium	**0.48** (0.10)		6010B		1	SVD	08/08/13 1:58	5.13	100	CH30729
Cadmium	**1.90** (0.48)		6010B		1	SVD	08/08/13 1:58	5.13	100	CH30729
Chromium	**50.9** (1.0)		6010B		1	SVD	08/08/13 1:58	5.13	100	CH30729
Lead	**280** (4.8)		6010B		1	SVD	08/08/13 1:58	5.13	100	CH30729
Mercury	**1.20** (0.169)		7471B		5	KJK	08/07/13 20:35	1.43	40	CH30731
Nickel	**17.3** (2.4)		6010B		1	SVD	08/08/13 1:58	5.13	100	CH30729
Selenium	**2.74** (2.40)		6020A		50	JP	08/09/13 0:26	5.13	100	CH30729
Silver	**1.47** (0.48)		6010B		1	SVD	08/08/13 1:58	5.13	100	CH30729
Thallium	ND (2.40)		6020A		50	JP	08/09/13 0:26	5.13	100	CH30729
Vanadium	**63.7** (1.0)		6010B		1	SVD	08/08/13 1:58	5.13	100	CH30729
Zinc	**364** (2.4)		6010B		1	SVD	08/08/13 1:58	5.13	100	CH30729

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-101 0-0.5ft
Date Sampled: 08/01/13 08:45
Percent Solids: 41

ESS Laboratory Work Order: 1308098
ESS Laboratory Sample ID: 1308098-01
Sample Matrix: Solid

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**59200** (500)		TOC-LK		1	SUB	08/12/13 0:00	mg/kg	CH31340

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-101 2-4ft
Date Sampled: 08/01/13 08:45
Percent Solids: 43

ESS Laboratory Work Order: 1308098
ESS Laboratory Sample ID: 1308098-02
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (2.3)		6020A		50	JP	08/09/13 0:32	5.06	100	CH30729
Arsenic	**77.3** (2.3)		6010B		1	SVD	08/08/13 2:04	5.06	100	CH30729
Barium	**79.4** (2.3)		6010B		1	SVD	08/08/13 2:04	5.06	100	CH30729
Beryllium	**0.66** (0.10)		6010B		1	SVD	08/08/13 2:04	5.06	100	CH30729
Cadmium	**4.00** (0.46)		6010B		1	SVD	08/08/13 2:04	5.06	100	CH30729
Chromium	**70.7** (0.9)		6010B		1	SVD	08/08/13 2:04	5.06	100	CH30729
Lead	**435** (4.6)		6010B		1	SVD	08/08/13 2:04	5.06	100	CH30729
Mercury	**4.04** (0.696)		7471B		20	KJK	08/07/13 20:37	1.32	40	CH30731
Nickel	**28.5** (2.3)		6010B		1	SVD	08/08/13 2:04	5.06	100	CH30729
Selenium	**4.95** (2.31)		6020A		50	JP	08/09/13 0:32	5.06	100	CH30729
Silver	**2.66** (0.46)		6010B		1	SVD	08/08/13 2:04	5.06	100	CH30729
Thallium	ND (2.31)		6020A		50	JP	08/09/13 0:32	5.06	100	CH30729
Vanadium	**151** (0.9)		6010B		1	SVD	08/08/13 2:04	5.06	100	CH30729
Zinc	**506** (2.3)		6010B		1	SVD	08/08/13 2:04	5.06	100	CH30729

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-101 4-6ft
Date Sampled: 08/01/13 08:45
Percent Solids: 31

ESS Laboratory Work Order: 1308098
ESS Laboratory Sample ID: 1308098-03
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (3.1)		6020A		50	JP	08/09/13 0:38	5.25	100	CH30729
Arsenic	**65.4** (3.1)		6010B		1	SVD	08/08/13 2:09	5.25	100	CH30729
Barium	**67.8** (3.1)		6010B		1	SVD	08/08/13 2:09	5.25	100	CH30729
Beryllium	**0.49** (0.13)		6010B		1	SVD	08/08/13 2:09	5.25	100	CH30729
Cadmium	**1.66** (0.63)		6010B		1	SVD	08/08/13 2:09	5.25	100	CH30729
Chromium	**93.5** (1.2)		6010B		1	SVD	08/08/13 2:09	5.25	100	CH30729
Lead	**257** (6.2)		6010B		1	SVD	08/08/13 2:09	5.25	100	CH30729
Mercury	**2.33** (0.593)		7471B		10	KJK	08/07/13 22:15	1.09	40	CH30731
Nickel	**14.2** (3.1)		6010B		1	SVD	08/08/13 2:09	5.25	100	CH30729
Selenium	ND (3.13)		6020A		50	JP	08/09/13 0:38	5.25	100	CH30729
Silver	**2.84** (0.63)		6010B		1	SVD	08/08/13 2:09	5.25	100	CH30729
Thallium	ND (3.13)		6020A		50	JP	08/09/13 0:38	5.25	100	CH30729
Vanadium	**124** (1.2)		6010B		1	SVD	08/08/13 2:09	5.25	100	CH30729
Zinc	**193** (3.1)		6010B		1	SVD	08/08/13 2:09	5.25	100	CH30729

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-101 8-9ft
Date Sampled: 08/01/13 08:45
Percent Solids: 25

ESS Laboratory Work Order: 1308098
ESS Laboratory Sample ID: 1308098-04
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (3.8)		6020A		50	JP	08/09/13 0:44	5.39	100	CH30729
Arsenic	**30.3** (3.7)		6010B		1	SVD	08/08/13 2:14	5.39	100	CH30729
Barium	**133** (3.7)		6010B		1	SVD	08/08/13 2:14	5.39	100	CH30729
Beryllium	**0.72** (0.16)		6010B		1	SVD	08/08/13 2:14	5.39	100	CH30729
Cadmium	**4.91** (0.75)		6010B		1	SVD	08/08/13 2:14	5.39	100	CH30729
Chromium	**183** (1.5)		6010B		1	SVD	08/08/13 2:14	5.39	100	CH30729
Lead	**710** (7.5)		6010B		1	SVD	08/08/13 2:14	5.39	100	CH30729
Mercury	**5.21** (0.801)		7471B		10	KJK	08/07/13 20:46	1	40	CH30731
Nickel	**20.7** (3.7)		6010B		1	SVD	08/08/13 2:14	5.39	100	CH30729
Selenium	**5.57** (3.77)		6020A		50	JP	08/09/13 0:44	5.39	100	CH30729
Silver	**5.14** (0.75)		6010B		1	SVD	08/08/13 2:14	5.39	100	CH30729
Thallium	ND (3.77)		6020A		50	JP	08/09/13 0:44	5.39	100	CH30729
Vanadium	**192** (1.5)		6010B		1	SVD	08/08/13 2:14	5.39	100	CH30729
Zinc	**833** (3.7)		6010B		1	SVD	08/08/13 2:14	5.39	100	CH30729

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-102 2-4ft
Date Sampled: 08/01/13 08:55
Percent Solids: 32

ESS Laboratory Work Order: 1308098
ESS Laboratory Sample ID: 1308098-05
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (3.0)		6020A		50	JP	08/09/13 0:50	5.13	100	CH30729
Arsenic	**82.4** (3.0)		6010B		1	SVD	08/08/13 2:20	5.13	100	CH30729
Barium	**79.5** (3.0)		6010B		1	SVD	08/08/13 2:20	5.13	100	CH30729
Beryllium	**0.95** (0.13)		6010B		1	SVD	08/08/13 2:20	5.13	100	CH30729
Cadmium	**4.57** (0.60)		6010B		1	SVD	08/08/13 2:20	5.13	100	CH30729
Chromium	**85.4** (1.2)		6010B		1	SVD	08/08/13 2:20	5.13	100	CH30729
Lead	**486** (6.0)		6010B		1	SVD	08/08/13 2:20	5.13	100	CH30729
Mercury	**1.86** (0.290)		7471B		5	KJK	08/07/13 20:48	1.05	40	CH30731
Nickel	**30.5** (3.0)		6010B		1	SVD	08/08/13 2:20	5.13	100	CH30729
Selenium	**6.32** (3.01)		6020A		50	JP	08/09/13 0:50	5.13	100	CH30729
Silver	**2.56** (0.60)		6010B		1	SVD	08/08/13 2:20	5.13	100	CH30729
Thallium	ND (3.01)		6020A		50	JP	08/09/13 0:50	5.13	100	CH30729
Vanadium	**153** (1.2)		6010B		1	SVD	08/08/13 2:20	5.13	100	CH30729
Zinc	**612** (3.0)		6010B		1	SVD	08/08/13 2:20	5.13	100	CH30729

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-102 4-6ft
Date Sampled: 08/01/13 08:55
Percent Solids: 35

ESS Laboratory Work Order: 1308098
ESS Laboratory Sample ID: 1308098-06
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (2.7)		6020A		50	JP	08/09/13 0:56	5.26	100	CH30729
Arsenic	**37.6** (2.7)		6010B		1	SVD	08/08/13 2:25	5.26	100	CH30729
Barium	**90.1** (2.7)		6010B		1	SVD	08/08/13 2:25	5.26	100	CH30729
Beryllium	**0.26** (0.11)		6010B		1	SVD	08/08/13 2:25	5.26	100	CH30729
Cadmium	**0.99** (0.55)		6010B		1	SVD	08/08/13 2:25	5.26	100	CH30729
Chromium	**97.8** (1.1)		6010B		1	SVD	08/08/13 2:25	5.26	100	CH30729
Lead	**215** (5.5)		6010B		1	SVD	08/08/13 2:25	5.26	100	CH30729
Mercury	**2.97** (0.276)		7471B		5	KJK	08/07/13 20:51	1.03	40	CH30731
Nickel	**9.9** (2.7)		6010B		1	SVD	08/08/13 2:25	5.26	100	CH30729
Selenium	**3.03** (2.74)		6020A		50	JP	08/09/13 0:56	5.26	100	CH30729
Silver	**4.95** (0.55)		6010B		1	SVD	08/08/13 2:25	5.26	100	CH30729
Thallium	ND (2.74)		6020A		50	JP	08/09/13 0:56	5.26	100	CH30729
Vanadium	**122** (1.1)		6010B		1	SVD	08/08/13 2:25	5.26	100	CH30729
Zinc	**104** (2.7)		6010B		1	SVD	08/08/13 2:25	5.26	100	CH30729

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-102 6-8ft
Date Sampled: 08/01/13 08:55
Percent Solids: 37

ESS Laboratory Work Order: 1308098
ESS Laboratory Sample ID: 1308098-07
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	**2.9** (2.6)		6020A		50	JP	08/09/13 1:14	5.21	100	CH30729
Arsenic	**9.1** (2.6)		6010B		1	SVD	08/08/13 2:31	5.21	100	CH30729
Barium	**50.0** (2.6)		6010B		1	SVD	08/08/13 2:31	5.21	100	CH30729
Beryllium	**0.18** (0.11)		6010B		1	SVD	08/08/13 2:31	5.21	100	CH30729
Cadmium	ND (0.53)		6010B		1	SVD	08/08/13 2:31	5.21	100	CH30729
Chromium	**66.4** (1.0)		6010B		1	SVD	08/08/13 2:31	5.21	100	CH30729
Lead	**226** (5.2)		6010B		1	SVD	08/08/13 2:31	5.21	100	CH30729
Mercury	**1.28** (0.209)		7471B		5	KJK	08/07/13 20:54	1.29	40	CH30731
Nickel	**4.0** (2.6)		6010B		1	SVD	08/08/13 2:31	5.21	100	CH30729
Selenium	ND (2.63)		6020A		50	JP	08/09/13 1:14	5.21	100	CH30729
Silver	**1.12** (0.53)		6010B		1	SVD	08/08/13 2:31	5.21	100	CH30729
Thallium	ND (2.63)		6020A		50	JP	08/09/13 1:14	5.21	100	CH30729
Vanadium	**82.3** (1.0)		6010B		1	SVD	08/08/13 2:31	5.21	100	CH30729
Zinc	**40.4** (2.6)		6010B		1	SVD	08/08/13 2:31	5.21	100	CH30729

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-102 6-8ft
Date Sampled: 08/01/13 08:55
Percent Solids: 37
Initial Volume: 20.2
Final Volume: 5
Extraction Method: 3540

ESS Laboratory Work Order: 1308098
ESS Laboratory Sample ID: 1308098-07
Sample Matrix: Solid
Units: mg/kg dry
Analyst: TJ
Prepared: 8/8/13 17:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0675)		8082A		1	08/10/13 17:39		CH30812
Aroclor 1221	ND (0.0675)		8082A		1	08/10/13 17:39		CH30812
Aroclor 1232	ND (0.0675)		8082A		1	08/10/13 17:39		CH30812
Aroclor 1242	ND (0.0675)		8082A		1	08/10/13 17:39		CH30812
Aroclor 1248	**2.45** (0.338)		8082A		5	08/12/13 12:43		CH30812
Aroclor 1254	**1.11** (0.0675)		8082A		1	08/10/13 17:39		CH30812
Aroclor 1260	**0.685** (0.0675)		8082A		1	08/10/13 17:39		CH30812
Aroclor 1262	ND (0.0675)		8082A		1	08/10/13 17:39		CH30812
Aroclor 1268	ND (0.0675)		8082A		1	08/10/13 17:39		CH30812

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*113 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*76 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*88 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*72 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-102 6-8ft
Date Sampled: 08/01/13 08:55
Percent Solids: 37
Initial Volume: 30.4
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308098
ESS Laboratory Sample ID: 1308098-07
Sample Matrix: Solid
Units: mg/kg dry
Analyst: IBM
Prepared: 8/7/13 16:46

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.448)		8270D		1	08/08/13 13:12	CWH0097	CH30632
1,2-Dichlorobenzene	ND (0.448)		8270D		1	08/08/13 13:12	CWH0097	CH30632
1,3-Dichlorobenzene	ND (0.448)		8270D		1	08/08/13 13:12	CWH0097	CH30632
1,4-Dichlorobenzene	ND (0.448)		8270D		1	08/08/13 13:12	CWH0097	CH30632
2-Methylnaphthalene	ND (0.448)		8270D		1	08/08/13 13:12	CWH0097	CH30632
2-Methylphenol	ND (0.448)		8270D		1	08/08/13 13:12	CWH0097	CH30632
Acenaphthene	ND (0.448)		8270D		1	08/08/13 13:12	CWH0097	CH30632
Acenaphthylene	ND (0.448)		8270D		1	08/08/13 13:12	CWH0097	CH30632
Anthracene	ND (0.448)		8270D		1	08/08/13 13:12	CWH0097	CH30632
Benzo(a)anthracene	ND (0.448)		8270D		1	08/08/13 13:12	CWH0097	CH30632
Benzo(a)pyrene	ND (0.225)		8270D		1	08/08/13 13:12	CWH0097	CH30632
Benzo(b)fluoranthene	ND (0.448)		8270D		1	08/08/13 13:12	CWH0097	CH30632
Benzo(g,h,i)perylene	ND (0.448)		8270D		1	08/08/13 13:12	CWH0097	CH30632
Benzo(k)fluoranthene	ND (0.448)		8270D		1	08/08/13 13:12	CWH0097	CH30632
bis(2-Ethylhexyl)phthalate	**498** (44.8)		8270D		100	08/09/13 17:32	CWH0097	CH30632
Butylbenzylphthalate	**0.748** (0.448)		8270D		1	08/08/13 13:12	CWH0097	CH30632
Carbazole	ND (0.448)		8270D		1	08/08/13 13:12	CWH0097	CH30632
Chrysene	ND (0.225)		8270D		1	08/08/13 13:12	CWH0097	CH30632
Dibenzo(a,h)Anthracene	ND (0.225)		8270D		1	08/08/13 13:12	CWH0097	CH30632
Dibenzofuran	ND (0.448)		8270D		1	08/08/13 13:12	CWH0097	CH30632
Diethylphthalate	ND (0.448)		8270D		1	08/08/13 13:12	CWH0097	CH30632
Dimethylphthalate	ND (0.448)		8270D		1	08/08/13 13:12	CWH0097	CH30632
Di-n-butylphthalate	ND (0.448)		8270D		1	08/08/13 13:12	CWH0097	CH30632
Di-n-octylphthalate	**36.2** (4.48)		8270D		10	08/09/13 16:58	CWH0097	CH30632
Fluoranthene	ND (0.448)		8270D		1	08/08/13 13:12	CWH0097	CH30632
Fluorene	ND (0.448)		8270D		1	08/08/13 13:12	CWH0097	CH30632
Hexachlorobenzene	ND (0.448)		8270D		1	08/08/13 13:12	CWH0097	CH30632
Hexachlorocyclopentadiene	ND (2.25)		8270D		1	08/08/13 13:12	CWH0097	CH30632
Indeno(1,2,3-cd)Pyrene	ND (0.448)		8270D		1	08/08/13 13:12	CWH0097	CH30632
Naphthalene	ND (0.448)		8270D		1	08/08/13 13:12	CWH0097	CH30632
Phenanthrene	ND (0.448)		8270D		1	08/08/13 13:12	CWH0097	CH30632

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-102 6-8ft
Date Sampled: 08/01/13 08:55
Percent Solids: 37
Initial Volume: 30.4
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308098
ESS Laboratory Sample ID: 1308098-07
Sample Matrix: Solid
Units: mg/kg dry
Analyst: IBM
Prepared: 8/7/13 16:46

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Phenol	ND (0.448)		8270D		1	08/08/13 13:12	CWH0097	CH30632
Pyrene	ND (0.448)		8270D		1	08/08/13 13:12	CWH0097	CH30632

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*60 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*75 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*63 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*67 %*		*30-130*
Surrogate: 2-Fluorophenol	*59 %*		*30-130*
Surrogate: Nitrobenzene-d5	*64 %*		*30-130*
Surrogate: Phenol-d6	*65 %*		*30-130*
Surrogate: p-Terphenyl-d14	*80 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-102 6-8ft
Date Sampled: 08/01/13 08:55
Percent Solids: 37
Initial Volume: 15.4
Final Volume: 0.5
Extraction Method: 3541

ESS Laboratory Work Order: 1308098
ESS Laboratory Sample ID: 1308098-07
Sample Matrix: Solid
Units: mg/kg dry
Analyst: IBM
Prepared: 8/8/13 9:05

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	ND (0.022)		8270D		1	08/10/13 0:51	CWH0104	CH30811
Acenaphthene	ND (0.022)		8270D		1	08/10/13 0:51	CWH0104	CH30811
Acenaphthylene	ND (0.022)		8270D		1	08/10/13 0:51	CWH0104	CH30811
Anthracene	ND (0.022)		8270D		1	08/10/13 0:51	CWH0104	CH30811
Benzo(a)anthracene	ND (0.022)		8270D		1	08/10/13 0:51	CWH0104	CH30811
Benzo(a)pyrene	ND (0.022)		8270D		1	08/10/13 0:51	CWH0104	CH30811
Benzo(b)fluoranthene	**0.036** (0.022)		8270D		1	08/10/13 0:51	CWH0104	CH30811
Benzo(g,h,i)perylene	**0.036** (0.022)		8270D		1	08/10/13 0:51	CWH0104	CH30811
Benzo(k)fluoranthene	**0.027** (0.022)		8270D		1	08/10/13 0:51	CWH0104	CH30811
Chrysene	**0.024** (0.022)		8270D		1	08/10/13 0:51	CWH0104	CH30811
Dibenzo(a,h)Anthracene	ND (0.022)		8270D		1	08/10/13 0:51	CWH0104	CH30811
Fluoranthene	**0.030** (0.022)		8270D		1	08/10/13 0:51	CWH0104	CH30811
Fluorene	ND (0.022)		8270D		1	08/10/13 0:51	CWH0104	CH30811
Indeno(1,2,3-cd)Pyrene	**0.036** (0.022)		8270D		1	08/10/13 0:51	CWH0104	CH30811
Naphthalene	ND (0.022)		8270D		1	08/10/13 0:51	CWH0104	CH30811
Phenanthrene	**0.030** (0.022)		8270D		1	08/10/13 0:51	CWH0104	CH30811
Pyrene	**0.033** (0.022)		8270D		1	08/10/13 0:51	CWH0104	CH30811

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*54 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*56 %*		*30-130*
Surrogate: Nitrobenzene-d5	*63 %*		*30-130*
Surrogate: p-Terphenyl-d14	*69 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-102 6-8ft
Date Sampled: 08/01/13 08:55
Percent Solids: 37

ESS Laboratory Work Order: 1308098
ESS Laboratory Sample ID: 1308098-07
Sample Matrix: Solid

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**71000** (500)		TOC-LK		1	SUB	08/12/13 0:00	mg/kg	CH31340

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-102 6-8ft
Date Sampled: 08/01/13 08:55
Percent Solids: 37
Initial Volume: 14.8
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1308098
ESS Laboratory Sample ID: 1308098-07
Sample Matrix: Solid
Units: mg/kg dry

Prepared: 8/8/13 11:00

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	**143** (69.1)		MADEP-EPH		1	IBM	08/09/13 6:57	CWH0117	CH30813
C19-C36 Aliphatics1	**405** (69.1)		MADEP-EPH		1	IBM	08/09/13 6:57	CWH0117	CH30813
C11-C22 Unadjusted Aromatics1	**1540** (277)		EPH8270		4	SEP	08/10/13 20:52	CWH0135	CH30813
C11-C22 Aromatics1,2	**1540** (277)		EPH8270			SEP	08/10/13 20:52		[CALC]

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1-Chlorooctadecane	*98 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*118 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*121 %*		*40-140*
Surrogate: O-Terphenyl	*107 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-102 8-10ft
Date Sampled: 08/01/13 08:55
Percent Solids: 24

ESS Laboratory Work Order: 1308098
ESS Laboratory Sample ID: 1308098-08
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (3.9)		6020A		50	JP	08/09/13 1:20	5.33	100	CH30729
Arsenic	**76.6** (3.9)		6010B		1	SVD	08/08/13 2:43	5.33	100	CH30729
Barium	**58.0** (3.9)		6010B		1	SVD	08/08/13 2:43	5.33	100	CH30729
Beryllium	**0.40** (0.16)		6010B		1	SVD	08/08/13 2:43	5.33	100	CH30729
Cadmium	**1.39** (0.78)		6010B		1	SVD	08/08/13 2:43	5.33	100	CH30729
Chromium	**115** (1.5)		6010B		1	SVD	08/08/13 2:43	5.33	100	CH30729
Lead	**251** (7.7)		6010B		1	SVD	08/08/13 2:43	5.33	100	CH30729
Mercury	**3.14** (0.319)		7471B		5	KJK	08/07/13 20:56	1.28	40	CH30731
Nickel	**10.2** (3.9)		6010B		1	SVD	08/08/13 2:43	5.33	100	CH30729
Selenium	ND (3.89)		6020A		50	JP	08/09/13 1:20	5.33	100	CH30729
Silver	**2.73** (0.78)		6010B		1	SVD	08/08/13 2:43	5.33	100	CH30729
Thallium	ND (3.89)		6020A		50	JP	08/09/13 1:20	5.33	100	CH30729
Vanadium	**169** (1.5)		6010B		1	SVD	08/08/13 2:43	5.33	100	CH30729
Zinc	**153** (3.9)		6010B		1	SVD	08/08/13 2:43	5.33	100	CH30729

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-103 2-4ft
Date Sampled: 08/01/13 09:05
Percent Solids: 25

ESS Laboratory Work Order: 1308098
ESS Laboratory Sample ID: 1308098-09
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (3.8)		6020A		50	JP	08/09/13 1:26	5.28	100	CH30729
Arsenic	**146** (3.7)		6010B		1	SVD	08/08/13 2:49	5.28	100	CH30729
Barium	**89.4** (3.7)		6010B		1	SVD	08/08/13 2:49	5.28	100	CH30729
Beryllium	**0.94** (0.16)		6010B		1	SVD	08/08/13 2:49	5.28	100	CH30729
Cadmium	**4.66** (0.75)		6010B		1	SVD	08/08/13 2:49	5.28	100	CH30729
Chromium	**157** (1.5)		6010B		1	SVD	08/08/13 2:49	5.28	100	CH30729
Lead	**495** (7.5)		6010B		1	SVD	08/08/13 2:49	5.28	100	CH30729
Mercury	**3.30** (0.368)		7471B		5	KJK	08/07/13 21:05	1.06	40	CH30731
Nickel	**33.8** (3.7)		6010B		1	SVD	08/08/13 2:49	5.28	100	CH30729
Selenium	**6.60** (3.75)		6020A		50	JP	08/09/13 1:26	5.28	100	CH30729
Silver	**4.54** (0.75)		6010B		1	SVD	08/08/13 2:49	5.28	100	CH30729
Thallium	ND (3.75)		6020A		50	JP	08/09/13 1:26	5.28	100	CH30729
Vanadium	**244** (1.5)		6010B		1	SVD	08/08/13 2:49	5.28	100	CH30729
Zinc	**575** (3.7)		6010B		1	SVD	08/08/13 2:49	5.28	100	CH30729

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-103 2-4ft
Date Sampled: 08/01/13 09:05
Percent Solids: 25

ESS Laboratory Work Order: 1308098
ESS Laboratory Sample ID: 1308098-09
Sample Matrix: Solid

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**70100** (500)		TOC-LK		1	SUB	08/12/13 0:00	mg/kg	CH31340

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-103 4-6ft
Date Sampled: 08/01/13 09:05
Percent Solids: 77

ESS Laboratory Work Order: 1308098
ESS Laboratory Sample ID: 1308098-10
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (1.2)		6020A		50	JP	08/09/13 1:32	5.23	100	CH30729
Arsenic	**26.2** (1.2)		6010B		1	SVD	08/08/13 2:54	5.23	100	CH30729
Barium	**22.6** (1.2)		6010B		1	SVD	08/08/13 2:54	5.23	100	CH30729
Beryllium	**0.23** (0.05)		6010B		1	SVD	08/08/13 2:54	5.23	100	CH30729
Cadmium	**0.61** (0.25)		6010B		1	SVD	08/08/13 2:54	5.23	100	CH30729
Chromium	**44.4** (0.5)		6010B		1	SVD	08/08/13 2:54	5.23	100	CH30729
Lead	**65.6** (2.5)		6010B		1	SVD	08/08/13 2:54	5.23	100	CH30729
Mercury	**0.509** (0.109)		7471B		5	KJK	08/07/13 21:07	1.17	40	CH30731
Nickel	**6.6** (1.2)		6010B		1	SVD	08/08/13 2:54	5.23	100	CH30729
Selenium	ND (1.24)		6020A		50	JP	08/09/13 1:32	5.23	100	CH30729
Silver	**0.67** (0.25)		6010B		1	SVD	08/08/13 2:54	5.23	100	CH30729
Thallium	ND (1.24)		6020A		50	JP	08/09/13 1:32	5.23	100	CH30729
Vanadium	**52.3** (0.5)		6010B		1	SVD	08/08/13 2:54	5.23	100	CH30729
Zinc	**64.3** (1.2)		6010B		1	SVD	08/08/13 2:54	5.23	100	CH30729

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-103 4-6ft
Date Sampled: 08/01/13 09:05
Percent Solids: 77

ESS Laboratory Work Order: 1308098
ESS Laboratory Sample ID: 1308098-10
Sample Matrix: Solid

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**58300** (500)		TOC-LK		1	SUB	08/12/13 0:00	mg/kg	CH31340

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-103 6-7ft
Date Sampled: 08/01/13 09:05
Percent Solids: 30

ESS Laboratory Work Order: 1308098
ESS Laboratory Sample ID: 1308098-11
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (3.2)		6020A		50	JP	08/09/13 2:02	5.28	100	CH30729
Arsenic	**59.4** (3.2)		6010B		1	SVD	08/08/13 3:19	5.28	100	CH30729
Barium	**66.1** (3.2)		6010B		1	SVD	08/08/13 3:19	5.28	100	CH30729
Beryllium	**0.47** (0.13)		6010B		1	SVD	08/08/13 3:19	5.28	100	CH30729
Cadmium	**1.51** (0.63)		6010B		1	SVD	08/08/13 3:19	5.28	100	CH30729
Chromium	**116** (1.3)		6010B		1	SVD	08/08/13 3:19	5.28	100	CH30729
Lead	**238** (6.3)		6010B		1	SVD	08/08/13 3:19	5.28	100	CH30729
Mercury	**1.62** (0.292)		7471B		5	KJK	08/07/13 21:21	1.13	40	CH30731
Nickel	**10.0** (3.2)		6010B		1	SVD	08/08/13 3:19	5.28	100	CH30729
Selenium	ND (3.17)		6020A		50	JP	08/09/13 2:02	5.28	100	CH30729
Silver	**1.74** (0.63)		6010B		1	SVD	08/08/13 3:19	5.28	100	CH30729
Thallium	ND (3.17)		6020A		50	JP	08/09/13 2:02	5.28	100	CH30729
Vanadium	**123** (1.3)		6010B		1	SVD	08/08/13 3:19	5.28	100	CH30729
Zinc	**160** (3.2)		6010B		1	SVD	08/08/13 3:19	5.28	100	CH30729

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-104T 0-0.5ft
Date Sampled: 08/06/13 09:12
Percent Solids: 22

ESS Laboratory Work Order: 1308098
ESS Laboratory Sample ID: 1308098-12
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (4.5)		6020A		50	JP	08/09/13 2:08	5.09	100	CH30729
Arsenic	**182** (22.3)		6010B		5	SVD	08/08/13 18:37	5.09	100	CH30729
Barium	**190** (22.3)		6010B		5	SVD	08/08/13 18:37	5.09	100	CH30729
Beryllium	**1.50** (0.94)		6010B		5	SVD	08/08/13 18:37	5.09	100	CH30729
Cadmium	**8.98** (4.49)		6010B		5	SVD	08/08/13 18:37	5.09	100	CH30729
Chromium	**169** (8.9)		6010B		5	SVD	08/08/13 18:37	5.09	100	CH30729
Lead	**1070** (44.7)		6010B		5	SVD	08/08/13 18:37	5.09	100	CH30729
Mercury	**2.51** (0.315)		7471B		5	KJK	08/07/13 21:23	1.43	40	CH30731
Nickel	**65.9** (4.5)		6010B		1	SVD	08/08/13 3:24	5.09	100	CH30729
Selenium	**9.54** (4.49)		6020A		50	JP	08/09/13 2:08	5.09	100	CH30729
Silver	**5.11** (4.49)		6010B		5	SVD	08/08/13 18:37	5.09	100	CH30729
Thallium	ND (4.49)		6020A		50	JP	08/09/13 2:08	5.09	100	CH30729
Vanadium	**354** (8.9)		6010B		5	SVD	08/08/13 18:37	5.09	100	CH30729
Zinc	**1230** (22.3)		6010B		5	SVD	08/08/13 18:37	5.09	100	CH30729

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-104T 0-0.5ft
Date Sampled: 08/06/13 09:12
Percent Solids: 22
Initial Volume: 20.7
Final Volume: 5
Extraction Method: 3540

ESS Laboratory Work Order: 1308098
ESS Laboratory Sample ID: 1308098-12
Sample Matrix: Solid
Units: mg/kg dry
Analyst: TJ
Prepared: 8/8/13 17:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.110)		8082A		1	08/14/13 11:34		CH30812
Aroclor 1221	ND (0.110)		8082A		1	08/14/13 11:34		CH30812
Aroclor 1232	ND (0.110)		8082A		1	08/14/13 11:34		CH30812
Aroclor 1242	ND (0.110)		8082A		1	08/14/13 11:34		CH30812
Aroclor 1248	**1.14** (0.110)		8082A		1	08/14/13 11:34		CH30812
Aroclor 1254	**1.64** (0.110)		8082A		1	08/14/13 11:34		CH30812
Aroclor 1260	**P 0.498** (0.110)		8082A		1	08/14/13 11:34		CH30812
Aroclor 1262	ND (0.110)		8082A		1	08/14/13 11:34		CH30812
Aroclor 1268	ND (0.110)		8082A		1	08/14/13 11:34		CH30812

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*92 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*88 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*79 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*71 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-104T 0-0.5ft
Date Sampled: 08/06/13 09:12
Percent Solids: 22
Initial Volume: 30.4
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308098
ESS Laboratory Sample ID: 1308098-12
Sample Matrix: Solid
Units: mg/kg dry
Analyst: IBM
Prepared: 8/7/13 16:46

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.747)		8270D		1	08/08/13 13:45	CWH0097	CH30632
1,2-Dichlorobenzene	ND (0.747)		8270D		1	08/08/13 13:45	CWH0097	CH30632
1,3-Dichlorobenzene	ND (0.747)		8270D		1	08/08/13 13:45	CWH0097	CH30632
1,4-Dichlorobenzene	ND (0.747)		8270D		1	08/08/13 13:45	CWH0097	CH30632
2-Methylnaphthalene	ND (0.747)		8270D		1	08/08/13 13:45	CWH0097	CH30632
2-Methylphenol	ND (0.747)		8270D		1	08/08/13 13:45	CWH0097	CH30632
Acenaphthene	ND (0.747)		8270D		1	08/08/13 13:45	CWH0097	CH30632
Acenaphthylene	ND (0.747)		8270D		1	08/08/13 13:45	CWH0097	CH30632
Anthracene	ND (0.747)		8270D		1	08/08/13 13:45	CWH0097	CH30632
Benzo(a)anthracene	**1.86** (0.747)		8270D		1	08/08/13 13:45	CWH0097	CH30632
Benzo(a)pyrene	**1.72** (0.375)		8270D		1	08/08/13 13:45	CWH0097	CH30632
Benzo(b)fluoranthene	**2.03** (0.747)		8270D		1	08/08/13 13:45	CWH0097	CH30632
Benzo(g,h,i)perylene	**0.826** (0.747)		8270D		1	08/08/13 13:45	CWH0097	CH30632
Benzo(k)fluoranthene	**1.16** (0.747)		8270D		1	08/08/13 13:45	CWH0097	CH30632
bis(2-Ethylhexyl)phthalate	**7.00** (0.747)		8270D		1	08/08/13 13:45	CWH0097	CH30632
Butylbenzylphthalate	ND (0.747)		8270D		1	08/08/13 13:45	CWH0097	CH30632
Carbazole	ND (0.747)		8270D		1	08/08/13 13:45	CWH0097	CH30632
Chrysene	**2.09** (0.375)		8270D		1	08/08/13 13:45	CWH0097	CH30632
Dibenzo(a,h)Anthracene	ND (0.375)		8270D		1	08/08/13 13:45	CWH0097	CH30632
Dibenzofuran	ND (0.747)		8270D		1	08/08/13 13:45	CWH0097	CH30632
Diethylphthalate	ND (0.747)		8270D		1	08/08/13 13:45	CWH0097	CH30632
Dimethylphthalate	ND (0.747)		8270D		1	08/08/13 13:45	CWH0097	CH30632
Di-n-butylphthalate	ND (0.747)		8270D		1	08/08/13 13:45	CWH0097	CH30632
Di-n-octylphthalate	ND (0.747)		8270D		1	08/08/13 13:45	CWH0097	CH30632
Fluoranthene	**3.53** (0.747)		8270D		1	08/08/13 13:45	CWH0097	CH30632
Fluorene	ND (0.747)		8270D		1	08/08/13 13:45	CWH0097	CH30632
Hexachlorobenzene	ND (0.747)		8270D		1	08/08/13 13:45	CWH0097	CH30632
Hexachlorocyclopentadiene	ND (3.75)		8270D		1	08/08/13 13:45	CWH0097	CH30632
Indeno(1,2,3-cd)Pyrene	ND (0.747)		8270D		1	08/08/13 13:45	CWH0097	CH30632
Naphthalene	ND (0.747)		8270D		1	08/08/13 13:45	CWH0097	CH30632
Phenanthrene	**0.952** (0.747)		8270D		1	08/08/13 13:45	CWH0097	CH30632

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-104T 0-0.5ft
Date Sampled: 08/06/13 09:12
Percent Solids: 22
Initial Volume: 30.4
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308098
ESS Laboratory Sample ID: 1308098-12
Sample Matrix: Solid
Units: mg/kg dry
Analyst: IBM
Prepared: 8/7/13 16:46

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Phenol	ND (0.747)		8270D		1	08/08/13 13:45	CWH0097	CH30632
Pyrene	**3.19** (0.747)		8270D		1	08/08/13 13:45	CWH0097	CH30632

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*45 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*75 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*49 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*57 %*		*30-130*
Surrogate: 2-Fluorophenol	*45 %*		*30-130*
Surrogate: Nitrobenzene-d5	*46 %*		*30-130*
Surrogate: Phenol-d6	*52 %*		*30-130*
Surrogate: p-Terphenyl-d14	*75 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-104T 0-0.5ft
Date Sampled: 08/06/13 09:12
Percent Solids: 22
Initial Volume: 15.1
Final Volume: 0.5
Extraction Method: 3541

ESS Laboratory Work Order: 1308098
ESS Laboratory Sample ID: 1308098-12
Sample Matrix: Solid
Units: mg/kg dry
Analyst: IBM
Prepared: 8/8/13 9:05

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	ND (0.188)		8270D		5	08/10/13 6:31	CWH0128	CH30811
Acenaphthene	ND (0.188)		8270D		5	08/10/13 6:31	CWH0128	CH30811
Acenaphthylene	**0.324** (0.188)		8270D		5	08/10/13 6:31	CWH0128	CH30811
Anthracene	**0.467** (0.188)		8270D		5	08/10/13 6:31	CWH0128	CH30811
Benzo(a)anthracene	**1.59** (0.188)		8270D		5	08/10/13 6:31	CWH0128	CH30811
Benzo(a)pyrene	**1.83** (0.188)		8270D		5	08/10/13 6:31	CWH0128	CH30811
Benzo(b)fluoranthene	**2.55** (0.188)		8270D		5	08/10/13 6:31	CWH0128	CH30811
Benzo(g,h,i)perylene	**1.38** (0.188)		8270D		5	08/10/13 6:31	CWH0128	CH30811
Benzo(k)fluoranthene	**0.715** (0.188)		8270D		5	08/10/13 6:31	CWH0128	CH30811
Chrysene	**1.97** (0.188)		8270D		5	08/10/13 6:31	CWH0128	CH30811
Dibenzo(a,h)Anthracene	**0.361** (0.188)		8270D		5	08/10/13 6:31	CWH0128	CH30811
Fluoranthene	**3.61** (0.188)		8270D		5	08/10/13 6:31	CWH0128	CH30811
Fluorene	ND (0.188)		8270D		5	08/10/13 6:31	CWH0128	CH30811
Indeno(1,2,3-cd)Pyrene	**1.54** (0.188)		8270D		5	08/10/13 6:31	CWH0128	CH30811
Naphthalene	**0.226** (0.188)		8270D		5	08/10/13 6:31	CWH0128	CH30811
Phenanthrene	**2.14** (0.188)		8270D		5	08/10/13 6:31	CWH0128	CH30811
Pyrene	**3.28** (0.188)		8270D		5	08/10/13 6:31	CWH0128	CH30811

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*38 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*46 %*		*30-130*
Surrogate: Nitrobenzene-d5	*43 %*		*30-130*
Surrogate: p-Terphenyl-d14	*73 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-104T 0-0.5ft
Date Sampled: 08/06/13 09:12
Percent Solids: 22

ESS Laboratory Work Order: 1308098
ESS Laboratory Sample ID: 1308098-12
Sample Matrix: Solid

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**37800** (500)		TOC-LK		1	SUB	08/12/13 0:00	mg/kg	CH31340

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-104T 0-0.5ft
Date Sampled: 08/06/13 09:12
Percent Solids: 22
Initial Volume: 15.5
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1308098
ESS Laboratory Sample ID: 1308098-12
Sample Matrix: Solid
Units: mg/kg dry

Prepared: 8/8/13 11:00

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	**114** (110)		MADEP-EPH		1	IBM	08/09/13 7:47	CWH0117	CH30813
C19-C36 Aliphatics1	**688** (110)		MADEP-EPH		1	IBM	08/09/13 7:47	CWH0117	CH30813
C11-C22 Unadjusted Aromatics1	**488** (110)		EPH8270		1	IBM	08/09/13 7:44	CWH0116	CH30813
C11-C22 Aromatics1,2	**472** (110)		EPH8270			IBM	08/09/13 7:44		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*97 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*99 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*95 %*		*40-140*
Surrogate: O-Terphenyl	*86 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-104 2-4ft
Date Sampled: 08/06/13 09:50
Percent Solids: 35

ESS Laboratory Work Order: 1308098
ESS Laboratory Sample ID: 1308098-13
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (2.6)		6020A		50	JP	08/09/13 2:26	5.5	100	CH30729
Arsenic	**78.7** (2.6)		6010B		1	SVD	08/08/13 3:30	5.5	100	CH30729
Barium	**67.2** (2.6)		6010B		1	SVD	08/08/13 3:30	5.5	100	CH30729
Beryllium	**0.67** (0.11)		6010B		1	SVD	08/08/13 3:30	5.5	100	CH30729
Cadmium	**2.51** (0.52)		6010B		1	SVD	08/08/13 3:30	5.5	100	CH30729
Chromium	**82.0** (1.0)		6010B		1	SVD	08/08/13 3:30	5.5	100	CH30729
Lead	**439** (5.2)		6010B		1	SVD	08/08/13 3:30	5.5	100	CH30729
Mercury	**2.99** (0.384)		7471B		10	KJK	08/07/13 21:26	1.48	40	CH30731
Nickel	**25.4** (2.6)		6010B		1	SVD	08/08/13 3:30	5.5	100	CH30729
Selenium	**7.55** (2.62)		6020A		50	JP	08/09/13 2:26	5.5	100	CH30729
Silver	**2.52** (0.52)		6010B		1	SVD	08/08/13 3:30	5.5	100	CH30729
Thallium	ND (2.62)		6020A		50	JP	08/09/13 2:26	5.5	100	CH30729
Vanadium	**120** (1.0)		6010B		1	SVD	08/08/13 3:30	5.5	100	CH30729
Zinc	**414** (2.6)		6010B		1	SVD	08/08/13 3:30	5.5	100	CH30729

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-104 2-4ft
Date Sampled: 08/06/13 09:50
Percent Solids: 35
Initial Volume: 20.2
Final Volume: 5
Extraction Method: 3540

ESS Laboratory Work Order: 1308098
ESS Laboratory Sample ID: 1308098-13
Sample Matrix: Solid
Units: mg/kg dry
Analyst: TJ
Prepared: 8/8/13 17:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0710)		8082A		1	08/12/13 14:17		CH30812
Aroclor 1221	ND (0.0710)		8082A		1	08/12/13 14:17		CH30812
Aroclor 1232	ND (0.0710)		8082A		1	08/12/13 14:17		CH30812
Aroclor 1242	ND (0.0710)		8082A		1	08/12/13 14:17		CH30812
Aroclor 1248	**2.51** (0.355)		8082A		5	08/15/13 11:19		CH30812
Aroclor 1254	**2.81** (0.355)		8082A		5	08/15/13 11:19		CH30812
Aroclor 1260	**1.24** (0.355)		8082A		5	08/15/13 11:19		CH30812
Aroclor 1262	ND (0.0710)		8082A		1	08/12/13 14:17		CH30812
Aroclor 1268	ND (0.0710)		8082A		1	08/12/13 14:17		CH30812

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*109 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*126 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*114 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*111 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-104 2-4ft
Date Sampled: 08/06/13 09:50
Percent Solids: 35
Initial Volume: 30.3
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308098
ESS Laboratory Sample ID: 1308098-13
Sample Matrix: Solid
Units: mg/kg dry
Analyst: IBM
Prepared: 8/7/13 16:46

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.473)		8270D		1	08/08/13 14:19	CWH0097	CH30632
1,2-Dichlorobenzene	**0.564** (0.473)		8270D		1	08/08/13 14:19	CWH0097	CH30632
1,3-Dichlorobenzene	ND (0.473)		8270D		1	08/08/13 14:19	CWH0097	CH30632
1,4-Dichlorobenzene	ND (0.473)		8270D		1	08/08/13 14:19	CWH0097	CH30632
2-Methylnaphthalene	ND (0.473)		8270D		1	08/08/13 14:19	CWH0097	CH30632
2-Methylphenol	ND (0.473)		8270D		1	08/08/13 14:19	CWH0097	CH30632
Acenaphthene	ND (0.473)		8270D		1	08/08/13 14:19	CWH0097	CH30632
Acenaphthylene	ND (0.473)		8270D		1	08/08/13 14:19	CWH0097	CH30632
Anthracene	ND (0.473)		8270D		1	08/08/13 14:19	CWH0097	CH30632
Benzo(a)anthracene	**0.577** (0.473)		8270D		1	08/08/13 14:19	CWH0097	CH30632
Benzo(a)pyrene	**0.602** (0.237)		8270D		1	08/08/13 14:19	CWH0097	CH30632
Benzo(b)fluoranthene	**0.811** (0.473)		8270D		1	08/08/13 14:19	CWH0097	CH30632
Benzo(g,h,i)perylene	ND (0.473)		8270D		1	08/08/13 14:19	CWH0097	CH30632
Benzo(k)fluoranthene	ND (0.473)		8270D		1	08/08/13 14:19	CWH0097	CH30632
bis(2-Ethylhexyl)phthalate	**357** (47.3)		8270D		100	08/09/13 18:39	CWH0097	CH30632
Butylbenzylphthalate	**0.598** (0.473)		8270D		1	08/08/13 14:19	CWH0097	CH30632
Carbazole	ND (0.473)		8270D		1	08/08/13 14:19	CWH0097	CH30632
Chrysene	**0.840** (0.237)		8270D		1	08/08/13 14:19	CWH0097	CH30632
Dibenzo(a,h)Anthracene	ND (0.237)		8270D		1	08/08/13 14:19	CWH0097	CH30632
Dibenzofuran	ND (0.473)		8270D		1	08/08/13 14:19	CWH0097	CH30632
Diethylphthalate	ND (0.473)		8270D		1	08/08/13 14:19	CWH0097	CH30632
Dimethylphthalate	ND (0.473)		8270D		1	08/08/13 14:19	CWH0097	CH30632
Di-n-butylphthalate	ND (0.473)		8270D		1	08/08/13 14:19	CWH0097	CH30632
Di-n-octylphthalate	**28.2** (4.73)		8270D		10	08/09/13 18:06	CWH0097	CH30632
Fluoranthene	**1.39** (0.473)		8270D		1	08/08/13 14:19	CWH0097	CH30632
Fluorene	ND (0.473)		8270D		1	08/08/13 14:19	CWH0097	CH30632
Hexachlorobenzene	ND (0.473)		8270D		1	08/08/13 14:19	CWH0097	CH30632
Hexachlorocyclopentadiene	ND (2.37)		8270D		1	08/08/13 14:19	CWH0097	CH30632
Indeno(1,2,3-cd)Pyrene	ND (0.473)		8270D		1	08/08/13 14:19	CWH0097	CH30632
Naphthalene	ND (0.473)		8270D		1	08/08/13 14:19	CWH0097	CH30632
Phenanthrene	**0.497** (0.473)		8270D		1	08/08/13 14:19	CWH0097	CH30632

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-104 2-4ft
Date Sampled: 08/06/13 09:50
Percent Solids: 35
Initial Volume: 30.3
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308098
ESS Laboratory Sample ID: 1308098-13
Sample Matrix: Solid
Units: mg/kg dry
Analyst: IBM
Prepared: 8/7/13 16:46

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Phenol	ND (0.473)		8270D		1	08/08/13 14:19	CWH0097	CH30632
Pyrene	**1.11** (0.473)		8270D		1	08/08/13 14:19	CWH0097	CH30632

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*67 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*78 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*72 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*70 %*		*30-130*
Surrogate: 2-Fluorophenol	*65 %*		*30-130*
Surrogate: Nitrobenzene-d5	*69 %*		*30-130*
Surrogate: Phenol-d6	*73 %*		*30-130*
Surrogate: p-Terphenyl-d14	*75 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-104 2-4ft
Date Sampled: 08/06/13 09:50
Percent Solids: 35
Initial Volume: 15.6
Final Volume: 0.5
Extraction Method: 3541

ESS Laboratory Work Order: 1308098
ESS Laboratory Sample ID: 1308098-13
Sample Matrix: Solid
Units: mg/kg dry
Analyst: IBM
Prepared: 8/8/13 9:05

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	ND (0.115)		8270D		5	08/10/13 9:48	CWH0128	CH30811
Acenaphthene	ND (0.115)		8270D		5	08/10/13 9:48	CWH0128	CH30811
Acenaphthylene	**0.119** (0.115)		8270D		5	08/10/13 9:48	CWH0128	CH30811
Anthracene	**0.156** (0.115)		8270D		5	08/10/13 9:48	CWH0128	CH30811
Benzo(a)anthracene	**0.326** (0.115)		8270D		5	08/10/13 9:48	CWH0128	CH30811
Benzo(a)pyrene	**0.368** (0.115)		8270D		5	08/10/13 9:48	CWH0128	CH30811
Benzo(b)fluoranthene	**0.506** (0.115)		8270D		5	08/10/13 9:48	CWH0128	CH30811
Benzo(g,h,i)perylene	**0.303** (0.115)		8270D		5	08/10/13 9:48	CWH0128	CH30811
Benzo(k)fluoranthene	**0.175** (0.115)		8270D		5	08/10/13 9:48	CWH0128	CH30811
Chrysene	**0.414** (0.115)		8270D		5	08/10/13 9:48	CWH0128	CH30811
Dibenzo(a,h)Anthracene	ND (0.115)		8270D		5	08/10/13 9:48	CWH0128	CH30811
Fluoranthene	**0.726** (0.115)		8270D		5	08/10/13 9:48	CWH0128	CH30811
Fluorene	ND (0.115)		8270D		5	08/10/13 9:48	CWH0128	CH30811
Indeno(1,2,3-cd)Pyrene	**0.317** (0.115)		8270D		5	08/10/13 9:48	CWH0128	CH30811
Naphthalene	ND (0.115)		8270D		5	08/10/13 9:48	CWH0128	CH30811
Phenanthrene	**0.368** (0.115)		8270D		5	08/10/13 9:48	CWH0128	CH30811
Pyrene	**0.749** (0.115)		8270D		5	08/10/13 9:48	CWH0128	CH30811

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*36 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*42 %*		*30-130*
Surrogate: Nitrobenzene-d5	*35 %*		*30-130*
Surrogate: p-Terphenyl-d14	*65 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-104 2-4ft
Date Sampled: 08/06/13 09:50
Percent Solids: 35

ESS Laboratory Work Order: 1308098
ESS Laboratory Sample ID: 1308098-13
Sample Matrix: Solid

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**56500** (500)		TOC-LK		1	SUB	08/12/13 0:00	mg/kg	CH31340

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-104 2-4ft
Date Sampled: 08/06/13 09:50
Percent Solids: 35
Initial Volume: 15.5
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1308098
ESS Laboratory Sample ID: 1308098-13
Sample Matrix: Solid
Units: mg/kg dry

Prepared: 8/8/13 11:00

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	**228** (69.4)		MADEP-EPH		1	IBM	08/09/13 8:38	CWH0117	CH30813
C19-C36 Aliphatics1	**1170** (69.4)		MADEP-EPH		1	IBM	08/09/13 8:38	CWH0117	CH30813
C11-C22 Unadjusted Aromatics1	**993** (69.4)		EPH8270		1	IBM	08/09/13 8:30	CWH0116	CH30813
C11-C22 Aromatics1,2	**988** (69.4)		EPH8270			IBM	08/09/13 8:30		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*71 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*102 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*97 %*		*40-140*
Surrogate: O-Terphenyl	*94 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-104 4-6ft
Date Sampled: 08/01/13 09:50
Percent Solids: 77

ESS Laboratory Work Order: 1308098
ESS Laboratory Sample ID: 1308098-14
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (1.3)		6020A		50	JP	08/09/13 2:32	5.08	100	CH30729
Arsenic	**1.9** (1.3)		6010B		1	SVD	08/08/13 3:43	5.08	100	CH30729
Barium	**9.9** (1.3)		6010B		1	SVD	08/08/13 3:43	5.08	100	CH30729
Beryllium	**0.20** (0.05)		6010B		1	SVD	08/08/13 3:43	5.08	100	CH30729
Cadmium	ND (0.26)		6010B		1	SVD	08/08/13 3:43	5.08	100	CH30729
Chromium	**10.1** (0.5)		6010B		1	SVD	08/08/13 3:43	5.08	100	CH30729
Lead	ND (2.6)		6010B		1	SVD	08/08/13 3:43	5.08	100	CH30729
Mercury	ND (0.024)		7471B		1	KJK	08/07/13 19:39	1.07	40	CH30731
Nickel	**6.3** (1.3)		6010B		1	SVD	08/08/13 3:43	5.08	100	CH30729
Selenium	ND (1.29)		6020A		50	JP	08/09/13 2:32	5.08	100	CH30729
Silver	ND (0.26)		6010B		1	SVD	08/08/13 3:43	5.08	100	CH30729
Thallium	ND (1.29)		6020A		50	JP	08/09/13 2:32	5.08	100	CH30729
Vanadium	**12.9** (0.5)		6010B		1	SVD	08/08/13 3:43	5.08	100	CH30729
Zinc	**17.1** (1.3)		6010B		1	SVD	08/08/13 3:43	5.08	100	CH30729

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-104 4-6ft
Date Sampled: 08/01/13 09:50
Percent Solids: 77

ESS Laboratory Work Order: 1308098
ESS Laboratory Sample ID: 1308098-14
Sample Matrix: Solid

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**10700** (500)		TOC-LK		1	SUB	08/12/13 0:00	mg/kg	CH31340

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-104 6-8ft
Date Sampled: 08/01/13 09:50
Percent Solids: 72

ESS Laboratory Work Order: 1308098
ESS Laboratory Sample ID: 1308098-15
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (1.3)		6020A		50	JP	08/09/13 2:38	5.35	100	CH30729
Arsenic	**2.9** (1.3)		6010B		1	SVD	08/08/13 3:49	5.35	100	CH30729
Barium	**17.2** (1.3)		6010B		1	SVD	08/08/13 3:49	5.35	100	CH30729
Beryllium	**0.33** (0.05)		6010B		1	SVD	08/08/13 3:49	5.35	100	CH30729
Cadmium	**0.31** (0.26)		6010B		1	SVD	08/08/13 3:49	5.35	100	CH30729
Chromium	**16.4** (0.5)		6010B		1	SVD	08/08/13 3:49	5.35	100	CH30729
Lead	**3.7** (2.6)		6010B		1	SVD	08/08/13 3:49	5.35	100	CH30729
Mercury	ND (0.025)		7471B		1	KJK	08/07/13 19:42	1.12	40	CH30731
Nickel	**9.6** (1.3)		6010B		1	SVD	08/08/13 3:49	5.35	100	CH30729
Selenium	ND (1.31)		6020A		50	JP	08/09/13 2:38	5.35	100	CH30729
Silver	ND (0.26)		6010B		1	SVD	08/08/13 3:49	5.35	100	CH30729
Thallium	ND (1.31)		6020A		50	JP	08/09/13 2:38	5.35	100	CH30729
Vanadium	**20.9** (0.5)		6010B		1	SVD	08/08/13 3:49	5.35	100	CH30729
Zinc	**26.3** (1.3)		6010B		1	SVD	08/08/13 3:49	5.35	100	CH30729

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-105 2-4ft
Date Sampled: 08/01/13 10:06
Percent Solids: 39

ESS Laboratory Work Order: 1308098
ESS Laboratory Sample ID: 1308098-16
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (2.5)		6020A		50	JP	08/09/13 2:44	5.22	100	CH30729
Arsenic	**110** (2.5)		6010B		1	SVD	08/08/13 3:55	5.22	100	CH30729
Barium	**64.6** (2.5)		6010B		1	SVD	08/08/13 3:55	5.22	100	CH30729
Beryllium	**0.62** (0.10)		6010B		1	SVD	08/08/13 3:55	5.22	100	CH30729
Cadmium	**3.17** (0.50)		6010B		1	SVD	08/08/13 3:55	5.22	100	CH30729
Chromium	**99.3** (1.0)		6010B		1	SVD	08/08/13 3:55	5.22	100	CH30729
Lead	**455** (5.0)		6010B		1	SVD	08/08/13 3:55	5.22	100	CH30729
Mercury	**2.57** (0.221)		7471B		5	KJK	08/07/13 21:29	1.16	40	CH30731
Nickel	**25.9** (2.5)		6010B		1	SVD	08/08/13 3:55	5.22	100	CH30729
Selenium	**8.23** (2.49)		6020A		50	JP	08/09/13 2:44	5.22	100	CH30729
Silver	**2.51** (0.50)		6010B		1	SVD	08/08/13 3:55	5.22	100	CH30729
Thallium	ND (2.49)		6020A		50	JP	08/09/13 2:44	5.22	100	CH30729
Vanadium	**173** (1.0)		6010B		1	SVD	08/08/13 3:55	5.22	100	CH30729
Zinc	**489** (2.5)		6010B		1	SVD	08/08/13 3:55	5.22	100	CH30729

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-105 4-6ft
Date Sampled: 08/01/13 10:06
Percent Solids: 45

ESS Laboratory Work Order: 1308098
ESS Laboratory Sample ID: 1308098-17
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (2.2)		6020A		50	JP	08/09/13 2:50	5.04	100	CH30729
Arsenic	**93.0** (2.2)		6010B		1	SVD	08/08/13 4:00	5.04	100	CH30729
Barium	**63.5** (2.2)		6010B		1	SVD	08/08/13 4:00	5.04	100	CH30729
Beryllium	**0.61** (0.09)		6010B		1	SVD	08/08/13 4:00	5.04	100	CH30729
Cadmium	**2.68** (0.44)		6010B		1	SVD	08/08/13 4:00	5.04	100	CH30729
Chromium	**86.5** (0.9)		6010B		1	SVD	08/08/13 4:00	5.04	100	CH30729
Lead	**452** (4.4)		6010B		1	SVD	08/08/13 4:00	5.04	100	CH30729
Mercury	**2.10** (0.198)		7471B		5	KJK	08/07/13 21:37	1.1	40	CH30731
Nickel	**28.9** (2.2)		6010B		1	SVD	08/08/13 4:00	5.04	100	CH30729
Selenium	**8.29** (2.19)		6020A		50	JP	08/09/13 2:50	5.04	100	CH30729
Silver	**2.28** (0.44)		6010B		1	SVD	08/08/13 4:00	5.04	100	CH30729
Thallium	ND (2.19)		6020A		50	JP	08/09/13 2:50	5.04	100	CH30729
Vanadium	**151** (0.9)		6010B		1	SVD	08/08/13 4:00	5.04	100	CH30729
Zinc	**427** (2.2)		6010B		1	SVD	08/08/13 4:00	5.04	100	CH30729

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-105 4-6ft
Date Sampled: 08/01/13 10:06
Percent Solids: 45
Initial Volume: 20.1
Final Volume: 5
Extraction Method: 3540

ESS Laboratory Work Order: 1308098
ESS Laboratory Sample ID: 1308098-17
Sample Matrix: Solid
Units: mg/kg dry
Analyst: TJ
Prepared: 8/8/13 17:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0547)		8082A		1	08/10/13 18:18		CH30812
Aroclor 1221	ND (0.0547)		8082A		1	08/10/13 18:18		CH30812
Aroclor 1232	ND (0.0547)		8082A		1	08/10/13 18:18		CH30812
Aroclor 1242	ND (0.0547)		8082A		1	08/10/13 18:18		CH30812
Aroclor 1248	**2.08** (0.274)		8082A		5	08/12/13 13:00		CH30812
Aroclor 1254	**2.63** (0.274)		8082A		5	08/12/13 13:00		CH30812
Aroclor 1260	**1.77** (0.274)		8082A		5	08/12/13 13:00		CH30812
Aroclor 1262	ND (0.0547)		8082A		1	08/10/13 18:18		CH30812
Aroclor 1268	ND (0.0547)		8082A		1	08/10/13 18:18		CH30812

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*89 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*115 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*56 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*58 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-105 4-6ft
Date Sampled: 08/01/13 10:06
Percent Solids: 45
Initial Volume: 30
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308098
ESS Laboratory Sample ID: 1308098-17
Sample Matrix: Solid
Units: mg/kg dry
Analyst: IBM
Prepared: 8/7/13 16:46

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.366)		8270D		1	08/08/13 18:10	CWH0106	CH30632
1,2-Dichlorobenzene	ND (0.366)		8270D		1	08/08/13 18:10	CWH0106	CH30632
1,3-Dichlorobenzene	ND (0.366)		8270D		1	08/08/13 18:10	CWH0106	CH30632
1,4-Dichlorobenzene	ND (0.366)		8270D		1	08/08/13 18:10	CWH0106	CH30632
2-Methylnaphthalene	ND (0.366)		8270D		1	08/08/13 18:10	CWH0106	CH30632
2-Methylphenol	ND (0.366)		8270D		1	08/08/13 18:10	CWH0106	CH30632
Acenaphthene	ND (0.366)		8270D		1	08/08/13 18:10	CWH0106	CH30632
Acenaphthylene	ND (0.366)		8270D		1	08/08/13 18:10	CWH0106	CH30632
Anthracene	ND (0.366)		8270D		1	08/08/13 18:10	CWH0106	CH30632
Benzo(a)anthracene	**0.567** (0.366)		8270D		1	08/08/13 18:10	CWH0106	CH30632
Benzo(a)pyrene	**0.579** (0.184)		8270D		1	08/08/13 18:10	CWH0106	CH30632
Benzo(b)fluoranthene	**0.706** (0.366)		8270D		1	08/08/13 18:10	CWH0106	CH30632
Benzo(g,h,i)perylene	ND (0.366)		8270D		1	08/08/13 18:10	CWH0106	CH30632
Benzo(k)fluoranthene	ND (0.366)		8270D		1	08/08/13 18:10	CWH0106	CH30632
bis(2-Ethylhexyl)phthalate	**74.0** (3.66)		8270D		10	08/09/13 19:12	CWH0106	CH30632
Butylbenzylphthalate	ND (0.366)		8270D		1	08/08/13 18:10	CWH0106	CH30632
Carbazole	ND (0.366)		8270D		1	08/08/13 18:10	CWH0106	CH30632
Chrysene	**0.656** (0.184)		8270D		1	08/08/13 18:10	CWH0106	CH30632
Dibenzo(a,h)Anthracene	ND (0.184)		8270D		1	08/08/13 18:10	CWH0106	CH30632
Dibenzofuran	ND (0.366)		8270D		1	08/08/13 18:10	CWH0106	CH30632
Diethylphthalate	ND (0.366)		8270D		1	08/08/13 18:10	CWH0106	CH30632
Dimethylphthalate	ND (0.366)		8270D		1	08/08/13 18:10	CWH0106	CH30632
Di-n-butylphthalate	ND (0.366)		8270D		1	08/08/13 18:10	CWH0106	CH30632
Di-n-octylphthalate	ND (0.366)		8270D		1	08/08/13 18:10	CWH0106	CH30632
Fluoranthene	**1.00** (0.366)		8270D		1	08/08/13 18:10	CWH0106	CH30632
Fluorene	ND (0.366)		8270D		1	08/08/13 18:10	CWH0106	CH30632
Hexachlorobenzene	ND (0.366)		8270D		1	08/08/13 18:10	CWH0106	CH30632
Hexachlorocyclopentadiene	ND (1.84)		8270D		1	08/08/13 18:10	CWH0106	CH30632
Indeno(1,2,3-cd)Pyrene	ND (0.366)		8270D		1	08/08/13 18:10	CWH0106	CH30632
Naphthalene	ND (0.366)		8270D		1	08/08/13 18:10	CWH0106	CH30632
Phenanthrene	**0.422** (0.366)		8270D		1	08/08/13 18:10	CWH0106	CH30632

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-105 4-6ft
Date Sampled: 08/01/13 10:06
Percent Solids: 45
Initial Volume: 30
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308098
ESS Laboratory Sample ID: 1308098-17
Sample Matrix: Solid
Units: mg/kg dry
Analyst: IBM
Prepared: 8/7/13 16:46

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Phenol	ND (0.366)		8270D		1	08/08/13 18:10	CWH0106	CH30632
Pyrene	**1.06** (0.366)		8270D		1	08/08/13 18:10	CWH0106	CH30632

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*51 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*74 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*55 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*64 %*		*30-130*
Surrogate: 2-Fluorophenol	*51 %*		*30-130*
Surrogate: Nitrobenzene-d5	*56 %*		*30-130*
Surrogate: Phenol-d6	*58 %*		*30-130*
Surrogate: p-Terphenyl-d14	*72 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-105 4-6ft
Date Sampled: 08/01/13 10:06
Percent Solids: 45
Initial Volume: 15.3
Final Volume: 0.5
Extraction Method: 3541

ESS Laboratory Work Order: 1308098
ESS Laboratory Sample ID: 1308098-17
Sample Matrix: Solid
Units: mg/kg dry
Analyst: IBM
Prepared: 8/8/13 9:05

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	ND (0.090)		8270D		5	08/10/13 10:37	CWH0128	CH30811
Acenaphthene	ND (0.090)		8270D		5	08/10/13 10:37	CWH0128	CH30811
Acenaphthylene	**0.147** (0.090)		8270D		5	08/10/13 10:37	CWH0128	CH30811
Anthracene	**0.144** (0.090)		8270D		5	08/10/13 10:37	CWH0128	CH30811
Benzo(a)anthracene	**0.291** (0.090)		8270D		5	08/10/13 10:37	CWH0128	CH30811
Benzo(a)pyrene	**0.349** (0.090)		8270D		5	08/10/13 10:37	CWH0128	CH30811
Benzo(b)fluoranthene	**0.478** (0.090)		8270D		5	08/10/13 10:37	CWH0128	CH30811
Benzo(g,h,i)perylene	**0.288** (0.090)		8270D		5	08/10/13 10:37	CWH0128	CH30811
Benzo(k)fluoranthene	**0.144** (0.090)		8270D		5	08/10/13 10:37	CWH0128	CH30811
Chrysene	**0.349** (0.090)		8270D		5	08/10/13 10:37	CWH0128	CH30811
Dibenzo(a,h)Anthracene	ND (0.090)		8270D		5	08/10/13 10:37	CWH0128	CH30811
Fluoranthene	**0.507** (0.090)		8270D		5	08/10/13 10:37	CWH0128	CH30811
Fluorene	ND (0.090)		8270D		5	08/10/13 10:37	CWH0128	CH30811
Indeno(1,2,3-cd)Pyrene	**0.288** (0.090)		8270D		5	08/10/13 10:37	CWH0128	CH30811
Naphthalene	ND (0.090)		8270D		5	08/10/13 10:37	CWH0128	CH30811
Phenanthrene	**0.237** (0.090)		8270D		5	08/10/13 10:37	CWH0128	CH30811
Pyrene	**0.644** (0.090)		8270D		5	08/10/13 10:37	CWH0128	CH30811

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*40 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*46 %*		*30-130*
Surrogate: Nitrobenzene-d5	*42 %*		*30-130*
Surrogate: p-Terphenyl-d14	*67 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-105 4-6ft
Date Sampled: 08/01/13 10:06
Percent Solids: 45

ESS Laboratory Work Order: 1308098
ESS Laboratory Sample ID: 1308098-17
Sample Matrix: Solid

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**40000** (500)		TOC-LK		1	SUB	08/12/13 0:00	mg/kg	CH31340

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-105 4-6ft
Date Sampled: 08/01/13 10:06
Percent Solids: 45
Initial Volume: 14.9
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1308098
ESS Laboratory Sample ID: 1308098-17
Sample Matrix: Solid
Units: mg/kg dry

Prepared: 8/8/13 11:00

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	**169** (55.4)		MADEP-EPH		1	IBM	08/09/13 9:28	CWH0117	CH30813
C19-C36 Aliphatics1	**944** (55.4)		MADEP-EPH		1	IBM	08/09/13 9:28	CWH0117	CH30813
C11-C22 Unadjusted Aromatics1	**947** (55.4)		EPH8270		1	IBM	08/09/13 9:17	CWH0116	CH30813
C11-C22 Aromatics1,2	**947** (55.4)		EPH8270			IBM	08/09/13 9:17		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*65 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*113 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*109 %*		*40-140*
Surrogate: O-Terphenyl	*94 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-105 6-9ft
Date Sampled: 08/01/13 10:06
Percent Solids: 24

ESS Laboratory Work Order: 1308098
ESS Laboratory Sample ID: 1308098-18
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (3.9)		6020A		50	JP	08/09/13 2:56	5.48	100	CH30729
Arsenic	**204** (3.9)		6010B		1	SVD	08/08/13 4:05	5.48	100	CH30729
Barium	**55.7** (3.9)		6010B		1	SVD	08/08/13 4:05	5.48	100	CH30729
Beryllium	**0.56** (0.16)		6010B		1	SVD	08/08/13 4:05	5.48	100	CH30729
Cadmium	**2.45** (0.77)		6010B		1	SVD	08/08/13 4:05	5.48	100	CH30729
Chromium	**134** (1.5)		6010B		1	SVD	08/08/13 4:05	5.48	100	CH30729
Lead	**289** (7.7)		6010B		1	SVD	08/08/13 4:05	5.48	100	CH30729
Mercury	**2.22** (0.319)		7471B		5	KJK	08/07/13 21:39	1.31	40	CH30731
Nickel	**14.5** (3.9)		6010B		1	SVD	08/08/13 4:05	5.48	100	CH30729
Selenium	ND (3.87)		6020A		50	JP	08/09/13 2:56	5.48	100	CH30729
Silver	**1.95** (0.77)		6010B		1	SVD	08/08/13 4:05	5.48	100	CH30729
Thallium	ND (3.87)		6020A		50	JP	08/09/13 2:56	5.48	100	CH30729
Vanadium	**135** (1.5)		6010B		1	SVD	08/08/13 4:05	5.48	100	CH30729
Zinc	**275** (3.9)		6010B		1	SVD	08/08/13 4:05	5.48	100	CH30729

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-106 2-4ft
Date Sampled: 08/01/13 10:41
Percent Solids: 34

ESS Laboratory Work Order: 1308098
ESS Laboratory Sample ID: 1308098-19
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (2.8)		6020A		50	JP	08/09/13 3:02	5.23	100	CH30729
Arsenic	**87.5** (2.8)		6010B		1	SVD	08/08/13 4:11	5.23	100	CH30729
Barium	**64.9** (2.8)		6010B		1	SVD	08/08/13 4:11	5.23	100	CH30729
Beryllium	**0.91** (0.12)		6010B		1	SVD	08/08/13 4:11	5.23	100	CH30729
Cadmium	**4.28** (0.57)		6010B		1	SVD	08/08/13 4:11	5.23	100	CH30729
Chromium	**132** (1.1)		6010B		1	SVD	08/08/13 4:11	5.23	100	CH30729
Lead	**479** (5.7)		6010B		1	SVD	08/08/13 4:11	5.23	100	CH30729
Mercury	**2.18** (0.282)		7471B		5	KJK	08/07/13 21:42	1.04	40	CH30731
Nickel	**33.8** (2.8)		6010B		1	SVD	08/08/13 4:11	5.23	100	CH30729
Selenium	**4.80** (2.85)		6020A		50	JP	08/09/13 3:02	5.23	100	CH30729
Silver	**3.37** (0.57)		6010B		1	SVD	08/08/13 4:11	5.23	100	CH30729
Thallium	ND (2.85)		6020A		50	JP	08/09/13 3:02	5.23	100	CH30729
Vanadium	**206** (1.1)		6010B		1	SVD	08/08/13 4:11	5.23	100	CH30729
Zinc	**607** (2.8)		6010B		1	SVD	08/08/13 4:11	5.23	100	CH30729

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-106 2-4ft
Date Sampled: 08/01/13 10:41
Percent Solids: 34

ESS Laboratory Work Order: 1308098
ESS Laboratory Sample ID: 1308098-19
Sample Matrix: Solid

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**61600** (500)		TOC-LK		1	SUB	08/12/13 0:00	mg/kg	CH31340

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-106 4-6ft
Date Sampled: 08/01/13 10:41
Percent Solids: 25

ESS Laboratory Work Order: 1308098
ESS Laboratory Sample ID: 1308098-20
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (3.7)		6020A		50	JP	08/09/13 3:09	5.34	100	CH30729
Arsenic	**108** (3.7)		6010B		1	SVD	08/08/13 4:16	5.34	100	CH30729
Barium	**40.2** (3.7)		6010B		1	SVD	08/08/13 4:16	5.34	100	CH30729
Beryllium	**0.53** (0.15)		6010B		1	SVD	08/08/13 4:16	5.34	100	CH30729
Cadmium	**1.79** (0.74)		6010B		1	SVD	08/08/13 4:16	5.34	100	CH30729
Chromium	**120** (1.5)		6010B		1	SVD	08/08/13 4:16	5.34	100	CH30729
Lead	**216** (7.4)		6010B		1	SVD	08/08/13 4:16	5.34	100	CH30729
Mercury	**2.13** (0.278)		7471B		5	KJK	08/07/13 21:45	1.4	40	CH30731
Nickel	**16.1** (3.7)		6010B		1	SVD	08/08/13 4:16	5.34	100	CH30729
Selenium	ND (3.70)		6020A		50	JP	08/09/13 3:09	5.34	100	CH30729
Silver	**3.41** (0.74)		6010B		1	SVD	08/08/13 4:16	5.34	100	CH30729
Thallium	ND (3.70)		6020A		50	JP	08/09/13 3:09	5.34	100	CH30729
Vanadium	**231** (1.5)		6010B		1	SVD	08/08/13 4:16	5.34	100	CH30729
Zinc	**251** (3.7)		6010B		1	SVD	08/08/13 4:16	5.34	100	CH30729

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308098

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Total Metals Solid										
Batch CH30729 - 3050B										
Blank										
Antimony	ND	2.5	mg/kg wet							
Arsenic	ND	2.5	mg/kg wet							
Barium	ND	2.5	mg/kg wet							
Beryllium	ND	0.10	mg/kg wet							
Cadmium	ND	0.50	mg/kg wet							
Chromium	ND	1.0	mg/kg wet							
Lead	ND	5.0	mg/kg wet							
Nickel	ND	2.5	mg/kg wet							
Selenium	ND	2.51	mg/kg wet							
Silver	ND	0.50	mg/kg wet							
Thallium	ND	2.51	mg/kg wet							
Vanadium	ND	1.0	mg/kg wet							
Zinc	ND	2.5	mg/kg wet							
LCS										
Antimony	94.4	9.9	mg/kg wet	106.0		89	80-120			
Arsenic	149	9.8	mg/kg wet	182.0		82	80-120			
Barium	122	9.8	mg/kg wet	143.0		85	80-120			
Beryllium	82.5	0.41	mg/kg wet	98.30		84	80-120			
Cadmium	49.5	1.97	mg/kg wet	60.40		82	80-120			
Chromium	107	3.9	mg/kg wet	125.0		85	80-120			
Lead	117	19.6	mg/kg wet	136.0		86	80-120			
Nickel	109	9.8	mg/kg wet	128.0		86	80-120			
Selenium	88.2	9.85	mg/kg wet	85.90		103	80-120			
Silver	53.0	1.97	mg/kg wet	61.30		86	80-120			
Thallium	135	9.85	mg/kg wet	144.0		94	80-120			
Vanadium	89.9	3.9	mg/kg wet	104.0		86	80-120			
Zinc	165	9.8	mg/kg wet	204.0		81	80-120			
LCS Dup										
Antimony	86.5	9.5	mg/kg wet	106.0		82	80-120	9	20	
Arsenic	141	9.4	mg/kg wet	182.0		77	80-120	6	20	B-
Barium	113	9.4	mg/kg wet	143.0		79	80-120	8	20	B-
Beryllium	79.1	0.40	mg/kg wet	98.30		80	80-120	4	20	
Cadmium	46.5	1.90	mg/kg wet	60.40		77	80-120	6	20	B-
Chromium	101	3.8	mg/kg wet	125.0		81	80-120	6	20	
Lead	114	18.9	mg/kg wet	136.0		83	80-120	3	20	
Nickel	104	9.4	mg/kg wet	128.0		81	80-120	5	20	
Selenium	79.8	9.48	mg/kg wet	85.90		93	80-120	10	20	
Silver	50.5	1.90	mg/kg wet	61.30		82	80-120	5	20	
Thallium	131	9.48	mg/kg wet	144.0		91	80-120	3	20	
Vanadium	85.0	3.8	mg/kg wet	104.0		82	80-120	6	20	
Zinc	154	9.4	mg/kg wet	204.0		76	80-120	7	20	B-
Batch CH30731 - 7471A										
Blank										

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308098

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Total Metals Solid										
Batch CH30731 - 7471A										
Mercury	ND	0.033	mg/kg wet							
LCS										
Mercury	9.67	0.798	mg/kg wet	9.250		105	80-120			
LCS Dup										
Mercury	9.47	0.825	mg/kg wet	9.250		102	80-120	2	20	
8082A Polychlorinated Biphenyls (PCB)										
Batch CH30812 - 3540										
Blank										
Aroclor 1016	ND	0.0250	mg/kg wet							
Aroclor 1016 (1)	ND	0.0250	mg/kg wet							
Aroclor 1016 (1) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1016 (2)	ND	0.0250	mg/kg wet							
Aroclor 1016 (2) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1016 (3)	ND	0.0250	mg/kg wet							
Aroclor 1016 (3) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1016 (4)	ND	0.0250	mg/kg wet							
Aroclor 1016 (4) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1016 (5)	ND	0.0250	mg/kg wet							
Aroclor 1016 (5) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1221	ND	0.0250	mg/kg wet							
Aroclor 1221 (1)	ND	0.0250	mg/kg wet							
Aroclor 1221 (1) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1221 (2)	ND	0.0250	mg/kg wet							
Aroclor 1221 (2) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1221 (3)	ND	0.0250	mg/kg wet							
Aroclor 1221 (3) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1221 (4)	ND	0.0250	mg/kg wet							
Aroclor 1221 (4) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1221 (5)	ND	0.0250	mg/kg wet							
Aroclor 1221 (5) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1232	ND	0.0250	mg/kg wet							
Aroclor 1232 (1)	ND	0.0250	mg/kg wet							
Aroclor 1232 (1) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1232 (2)	ND	0.0250	mg/kg wet							
Aroclor 1232 (2) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1232 (3)	ND	0.0250	mg/kg wet							
Aroclor 1232 (3) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1232 (4)	ND	0.0250	mg/kg wet							
Aroclor 1232 (4) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1232 (5)	ND	0.0250	mg/kg wet							
Aroclor 1232 (5) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1242	ND	0.0250	mg/kg wet							
Aroclor 1242 (1)	ND	0.0250	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308098

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CH30812 - 3540										
Aroclor 1242 (1) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1242 (2)	ND	0.0250	mg/kg wet							
Aroclor 1242 (2) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1242 (3)	ND	0.0250	mg/kg wet							
Aroclor 1242 (3) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1242 (4)	ND	0.0250	mg/kg wet							
Aroclor 1242 (4) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1242 (5)	ND	0.0250	mg/kg wet							
Aroclor 1242 (5) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1248	ND	0.0250	mg/kg wet							
Aroclor 1248 (1)	ND	0.0250	mg/kg wet							
Aroclor 1248 (1) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1248 (2)	ND	0.0250	mg/kg wet							
Aroclor 1248 (2) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1248 (3)	ND	0.0250	mg/kg wet							
Aroclor 1248 (3) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1248 (4)	ND	0.0250	mg/kg wet							
Aroclor 1248 (4) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1248 (5)	ND	0.0250	mg/kg wet							
Aroclor 1248 (5) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1254	ND	0.0250	mg/kg wet							
Aroclor 1254 (1)	ND	0.0250	mg/kg wet							
Aroclor 1254 (1) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1254 (2)	ND	0.0250	mg/kg wet							
Aroclor 1254 (2) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1254 (3)	ND	0.0250	mg/kg wet							
Aroclor 1254 (3) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1254 (4)	ND	0.0250	mg/kg wet							
Aroclor 1254 (4) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1254 (5)	ND	0.0250	mg/kg wet							
Aroclor 1254 (5) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1260	ND	0.0250	mg/kg wet							
Aroclor 1260 (1)	ND	0.0250	mg/kg wet							
Aroclor 1260 (1) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1260 (2)	ND	0.0250	mg/kg wet							
Aroclor 1260 (2) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1260 (3)	ND	0.0250	mg/kg wet							
Aroclor 1260 (3) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1260 (4)	ND	0.0250	mg/kg wet							
Aroclor 1260 (4) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1260 (5)	ND	0.0250	mg/kg wet							
Aroclor 1260 (5) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1262	ND	0.0250	mg/kg wet							
Aroclor 1262 (1)	ND	0.0250	mg/kg wet							
Aroclor 1262 (1) [2C]	ND	0.0250	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308098

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CH30812 - 3540										
Aroclor 1262 (2)	ND	0.0250	mg/kg wet							
Aroclor 1262 (2) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1262 (3)	ND	0.0250	mg/kg wet							
Aroclor 1262 (3) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1262 (4)	ND	0.0250	mg/kg wet							
Aroclor 1262 (4) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1262 (5)	ND	0.0250	mg/kg wet							
Aroclor 1262 (5) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1268	ND	0.0250	mg/kg wet							
Aroclor 1268 (1)	ND	0.0250	mg/kg wet							
Aroclor 1268 (1) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1268 (2)	ND	0.0250	mg/kg wet							
Aroclor 1268 (2) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1268 (3)	ND	0.0250	mg/kg wet							
Aroclor 1268 (3) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1268 (4)	ND	0.0250	mg/kg wet							
Aroclor 1268 (4) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1268 (5)	ND	0.0250	mg/kg wet							
Aroclor 1268 (5) [2C]	ND	0.0250	mg/kg wet							
Surrogate: Decachlorobiphenyl	*0.0130*		mg/kg wet	*0.01250*		*104*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.00992*		mg/kg wet	*0.01250*		*79*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0104*		mg/kg wet	*0.01250*		*83*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.00936*		mg/kg wet	*0.01250*		*75*	*30-150*			
LCS										
Aroclor 1016	0.260	0.0250	mg/kg wet	0.2500		104	40-140			
Aroclor 1260	0.263	0.0250	mg/kg wet	0.2500		105	40-140			
Surrogate: Decachlorobiphenyl	*0.0135*		mg/kg wet	*0.01250*		*108*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0104*		mg/kg wet	*0.01250*		*83*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0112*		mg/kg wet	*0.01250*		*90*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.00989*		mg/kg wet	*0.01250*		*79*	*30-150*			
LCS Dup										
Aroclor 1016	0.261	0.0250	mg/kg wet	0.2500		104	40-140	0.5	30	
Aroclor 1260	0.268	0.0250	mg/kg wet	0.2500		107	40-140	2	30	
Surrogate: Decachlorobiphenyl	*0.0139*		mg/kg wet	*0.01250*		*111*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0106*		mg/kg wet	*0.01250*		*85*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0115*		mg/kg wet	*0.01250*		*92*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.00996*		mg/kg wet	*0.01250*		*80*	*30-150*			
8270D Semi-Volatile Organic Compounds										
Batch CH30632 - 3546										
Blank										
1,2,4-Trichlorobenzene	ND	0.333	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308098

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D Semi-Volatile Organic Compounds										
Batch CH30632 - 3546										
1,2-Dichlorobenzene	ND	0.333	mg/kg wet							
1,3-Dichlorobenzene	ND	0.333	mg/kg wet							
1,4-Dichlorobenzene	ND	0.333	mg/kg wet							
2-Methylnaphthalene	ND	0.333	mg/kg wet							
2-Methylphenol	ND	0.333	mg/kg wet							
Acenaphthene	ND	0.333	mg/kg wet							
Acenaphthylene	ND	0.333	mg/kg wet							
Anthracene	ND	0.333	mg/kg wet							
Benzo(a)anthracene	ND	0.333	mg/kg wet							
Benzo(a)pyrene	ND	0.167	mg/kg wet							
Benzo(b)fluoranthene	ND	0.333	mg/kg wet							
Benzo(g,h,i)perylene	ND	0.333	mg/kg wet							
Benzo(k)fluoranthene	ND	0.333	mg/kg wet							
bis(2-Ethylhexyl)phthalate	ND	0.333	mg/kg wet							
Butylbenzylphthalate	ND	0.333	mg/kg wet							
Carbazole	ND	0.333	mg/kg wet							
Chrysene	ND	0.167	mg/kg wet							
Dibenzo(a,h)Anthracene	ND	0.167	mg/kg wet							
Dibenzofuran	ND	0.333	mg/kg wet							
Diethylphthalate	ND	0.333	mg/kg wet							
Dimethylphthalate	ND	0.333	mg/kg wet							
Di-n-butylphthalate	ND	0.333	mg/kg wet							
Di-n-octylphthalate	ND	0.333	mg/kg wet							
Fluoranthene	ND	0.333	mg/kg wet							
Fluorene	ND	0.333	mg/kg wet							
Hexachlorobenzene	ND	0.333	mg/kg wet							
Hexachlorocyclopentadiene	ND	1.67	mg/kg wet							
Indeno(1,2,3-cd)Pyrene	ND	0.333	mg/kg wet							
Naphthalene	ND	0.333	mg/kg wet							
Phenanthrene	ND	0.333	mg/kg wet							
Phenol	ND	0.333	mg/kg wet							
Pyrene	ND	0.333	mg/kg wet							
Surrogate: 1,2-Dichlorobenzene-d4	*2.99*		mg/kg wet	*3.333*		*90*	*30-130*			
Surrogate: 2,4,6-Tribromophenol	*4.10*		mg/kg wet	*5.000*		*82*	*30-130*			
Surrogate: 2-Chlorophenol-d4	*4.69*		mg/kg wet	*5.000*		*94*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*3.01*		mg/kg wet	*3.333*		*90*	*30-130*			
Surrogate: 2-Fluorophenol	*4.45*		mg/kg wet	*5.000*		*89*	*30-130*			
Surrogate: Nitrobenzene-d5	*3.01*		mg/kg wet	*3.333*		*90*	*30-130*			
Surrogate: Phenol-d6	*4.71*		mg/kg wet	*5.000*		*94*	*30-130*			
Surrogate: p-Terphenyl-d14	*3.63*		mg/kg wet	*3.333*		*109*	*30-130*			
LCS										
1,2,4-Trichlorobenzene	2.58	0.333	mg/kg wet	3.333		78	40-140			
1,2-Dichlorobenzene	2.58	0.333	mg/kg wet	3.333		77	40-140			
1,3-Dichlorobenzene	2.52	0.333	mg/kg wet	3.333		76	40-140			
1,4-Dichlorobenzene	2.59	0.333	mg/kg wet	3.333		78	40-140			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308098

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D Semi-Volatile Organic Compounds										
Batch CH30632 - 3546										
2-Methylnaphthalene	2.75	0.333	mg/kg wet	3.333		83	40-140			
2-Methylphenol	2.64	0.333	mg/kg wet	3.333		79	30-130			
Acenaphthene	2.75	0.333	mg/kg wet	3.333		82	40-140			
Acenaphthylene	2.62	0.333	mg/kg wet	3.333		78	40-140			
Anthracene	2.95	0.333	mg/kg wet	3.333		89	40-140			
Benzo(a)anthracene	2.73	0.333	mg/kg wet	3.333		82	40-140			
Benzo(a)pyrene	2.62	0.167	mg/kg wet	3.333		79	40-140			
Benzo(b)fluoranthene	2.98	0.333	mg/kg wet	3.333		89	40-140			
Benzo(g,h,i)perylene	2.80	0.333	mg/kg wet	3.333		84	40-140			
Benzo(k)fluoranthene	3.10	0.333	mg/kg wet	3.333		93	40-140			
bis(2-Ethylhexyl)phthalate	3.25	0.333	mg/kg wet	3.333		98	40-140			
Butylbenzylphthalate	3.16	0.333	mg/kg wet	3.333		95	40-140			
Carbazole	2.99	0.333	mg/kg wet	3.333		90	40-140			
Chrysene	2.99	0.167	mg/kg wet	3.333		90	40-140			
Dibenzo(a,h)Anthracene	3.18	0.167	mg/kg wet	3.333		95	40-140			
Dibenzofuran	2.72	0.333	mg/kg wet	3.333		82	40-140			
Diethylphthalate	2.89	0.333	mg/kg wet	3.333		87	40-140			
Dimethylphthalate	2.77	0.333	mg/kg wet	3.333		83	40-140			
Di-n-butylphthalate	3.17	0.333	mg/kg wet	3.333		95	40-140			
Di-n-octylphthalate	3.13	0.333	mg/kg wet	3.333		94	40-140			
Fluoranthene	2.96	0.333	mg/kg wet	3.333		89	40-140			
Fluorene	2.84	0.333	mg/kg wet	3.333		85	40-140			
Hexachlorobenzene	2.62	0.333	mg/kg wet	3.333		79	40-140			
Hexachlorocyclopentadiene	1.90	1.67	mg/kg wet	3.333		57	40-140			
Indeno(1,2,3-cd)Pyrene	2.74	0.333	mg/kg wet	3.333		82	40-140			
Naphthalene	2.78	0.333	mg/kg wet	3.333		83	40-140			
Phenanthrene	2.94	0.333	mg/kg wet	3.333		88	40-140			
Phenol	2.60	0.333	mg/kg wet	3.333		78	30-130			
Pyrene	3.01	0.333	mg/kg wet	3.333		90	40-140			
Surrogate: 1,2-Dichlorobenzene-d4	*2.99*		mg/kg wet	*3.333*		*90*	*30-130*			
Surrogate: 2,4,6-Tribromophenol	*4.59*		mg/kg wet	*5.000*		*92*	*30-130*			
Surrogate: 2-Chlorophenol-d4	*4.70*		mg/kg wet	*5.000*		*94*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*3.13*		mg/kg wet	*3.333*		*94*	*30-130*			
Surrogate: 2-Fluorophenol	*4.53*		mg/kg wet	*5.000*		*91*	*30-130*			
Surrogate: Nitrobenzene-d5	*3.30*		mg/kg wet	*3.333*		*99*	*30-130*			
Surrogate: Phenol-d6	*4.65*		mg/kg wet	*5.000*		*93*	*30-130*			
Surrogate: p-Terphenyl-d14	*3.37*		mg/kg wet	*3.333*		*101*	*30-130*			
LCS Dup										
1,2,4-Trichlorobenzene	2.57	0.333	mg/kg wet	3.333		77	40-140	0.7	30	
1,2-Dichlorobenzene	2.57	0.333	mg/kg wet	3.333		77	40-140	0.06	30	
1,3-Dichlorobenzene	2.52	0.333	mg/kg wet	3.333		76	40-140	0.1	30	
1,4-Dichlorobenzene	2.58	0.333	mg/kg wet	3.333		77	40-140	0.4	30	
2-Methylnaphthalene	2.78	0.333	mg/kg wet	3.333		84	40-140	1	30	
2-Methylphenol	2.75	0.333	mg/kg wet	3.333		83	30-130	4	30	
Acenaphthene	2.76	0.333	mg/kg wet	3.333		83	40-140	0.7	30	

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308098

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D Semi-Volatile Organic Compounds										
Batch CH30632 - 3546										
Acenaphthylene	2.65	0.333	mg/kg wet	3.333		79	40-140	1	30	
Anthracene	2.96	0.333	mg/kg wet	3.333		89	40-140	0.2	30	
Benzo(a)anthracene	2.87	0.333	mg/kg wet	3.333		86	40-140	5	30	
Benzo(a)pyrene	2.71	0.167	mg/kg wet	3.333		81	40-140	3	30	
Benzo(b)fluoranthene	2.97	0.333	mg/kg wet	3.333		89	40-140	0.5	30	
Benzo(g,h,i)perylene	2.81	0.333	mg/kg wet	3.333		84	40-140	0.3	30	
Benzo(k)fluoranthene	3.05	0.333	mg/kg wet	3.333		92	40-140	1	30	
bis(2-Ethylhexyl)phthalate	3.19	0.333	mg/kg wet	3.333		96	40-140	2	30	
Butylbenzylphthalate	3.14	0.333	mg/kg wet	3.333		94	40-140	0.7	30	
Carbazole	2.97	0.333	mg/kg wet	3.333		89	40-140	0.6	30	
Chrysene	2.82	0.167	mg/kg wet	3.333		85	40-140	6	30	
Dibenzo(a,h)Anthracene	3.28	0.167	mg/kg wet	3.333		98	40-140	3	30	
Dibenzofuran	2.74	0.333	mg/kg wet	3.333		82	40-140	0.7	30	
Diethylphthalate	2.86	0.333	mg/kg wet	3.333		86	40-140	0.8	30	
Dimethylphthalate	2.77	0.333	mg/kg wet	3.333		83	40-140	0.1	30	
Di-n-butylphthalate	3.11	0.333	mg/kg wet	3.333		93	40-140	2	30	
Di-n-octylphthalate	3.02	0.333	mg/kg wet	3.333		91	40-140	4	30	
Fluoranthene	2.93	0.333	mg/kg wet	3.333		88	40-140	1	30	
Fluorene	2.85	0.333	mg/kg wet	3.333		86	40-140	0.3	30	
Hexachlorobenzene	2.72	0.333	mg/kg wet	3.333		82	40-140	4	30	
Hexachlorocyclopentadiene	1.93	1.67	mg/kg wet	3.333		58	40-140	2	30	
Indeno(1,2,3-cd)Pyrene	2.67	0.333	mg/kg wet	3.333		80	40-140	2	30	
Naphthalene	2.77	0.333	mg/kg wet	3.333		83	40-140	0.4	30	
Phenanthrene	2.97	0.333	mg/kg wet	3.333		89	40-140	0.9	30	
Phenol	2.68	0.333	mg/kg wet	3.333		80	30-130	3	30	
Pyrene	3.05	0.333	mg/kg wet	3.333		91	40-140	1	30	
Surrogate: 1,2-Dichlorobenzene-d4	*2.93*		mg/kg wet	*3.333*		*88*	*30-130*			
Surrogate: 2,4,6-Tribromophenol	*4.59*		mg/kg wet	*5.000*		*92*	*30-130*			
Surrogate: 2-Chlorophenol-d4	*4.69*		mg/kg wet	*5.000*		*94*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*3.06*		mg/kg wet	*3.333*		*92*	*30-130*			
Surrogate: 2-Fluorophenol	*4.46*		mg/kg wet	*5.000*		*89*	*30-130*			
Surrogate: Nitrobenzene-d5	*3.16*		mg/kg wet	*3.333*		*95*	*30-130*			
Surrogate: Phenol-d6	*4.68*		mg/kg wet	*5.000*		*94*	*30-130*			
Surrogate: p-Terphenyl-d14	*3.07*		mg/kg wet	*3.333*		*92*	*30-130*			
8270D(SIM) Polynuclear Aromatic Hydrocarbons										
Batch CH30811 - 3541										
Blank										
2-Methylnaphthalene	ND	0.017	mg/kg wet							
Acenaphthene	ND	0.017	mg/kg wet							
Acenaphthylene	ND	0.017	mg/kg wet							
Anthracene	ND	0.017	mg/kg wet							
Benzo(a)anthracene	ND	0.017	mg/kg wet							
Benzo(a)pyrene	ND	0.017	mg/kg wet							
Benzo(b)fluoranthene	ND	0.017	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308098

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D(SIM) Polynuclear Aromatic Hydrocarbons										
Batch CH30811 - 3541										
Benzo(g,h,i)perylene	ND	0.017	mg/kg wet							
Benzo(k)fluoranthene	ND	0.017	mg/kg wet							
Chrysene	ND	0.017	mg/kg wet							
Dibenzo(a,h)Anthracene	ND	0.017	mg/kg wet							
Fluoranthene	ND	0.017	mg/kg wet							
Fluorene	ND	0.017	mg/kg wet							
Indeno(1,2,3-cd)Pyrene	ND	0.017	mg/kg wet							
Naphthalene	ND	0.017	mg/kg wet							
Phenanthrene	ND	0.017	mg/kg wet							
Pyrene	ND	0.017	mg/kg wet							
Surrogate: 1,2-Dichlorobenzene-d4	*0.119*		mg/kg wet	*0.3333*		*36*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*0.125*		mg/kg wet	*0.3333*		*38*	*30-130*			
Surrogate: Nitrobenzene-d5	*0.128*		mg/kg wet	*0.3333*		*38*	*30-130*			
Surrogate: p-Terphenyl-d14	*0.183*		mg/kg wet	*0.3333*		*55*	*30-130*			
LCS										
2-Methylnaphthalene	0.252	0.017	mg/kg wet	0.2667		95	40-140			
Acenaphthene	0.233	0.017	mg/kg wet	0.2667		87	40-140			
Acenaphthylene	0.211	0.017	mg/kg wet	0.2667		79	40-140			
Anthracene	0.254	0.017	mg/kg wet	0.2667		95	40-140			
Benzo(a)anthracene	0.263	0.017	mg/kg wet	0.2667		98	40-140			
Benzo(a)pyrene	0.242	0.017	mg/kg wet	0.2667		91	40-140			
Benzo(b)fluoranthene	0.243	0.017	mg/kg wet	0.2667		91	40-140			
Benzo(g,h,i)perylene	0.281	0.017	mg/kg wet	0.2667		105	40-140			
Benzo(k)fluoranthene	0.243	0.017	mg/kg wet	0.2667		91	40-140			
Chrysene	0.259	0.017	mg/kg wet	0.2667		97	40-140			
Dibenzo(a,h)Anthracene	0.310	0.017	mg/kg wet	0.2667		116	40-140			
Fluoranthene	0.234	0.017	mg/kg wet	0.2667		88	40-140			
Fluorene	0.243	0.017	mg/kg wet	0.2667		91	40-140			
Indeno(1,2,3-cd)Pyrene	0.290	0.017	mg/kg wet	0.2667		109	40-140			
Naphthalene	0.236	0.017	mg/kg wet	0.2667		88	40-140			
Phenanthrene	0.251	0.017	mg/kg wet	0.2667		94	40-140			
Pyrene	0.260	0.017	mg/kg wet	0.2667		97	40-140			
Surrogate: 1,2-Dichlorobenzene-d4	*0.240*		mg/kg wet	*0.3333*		*72*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*0.233*		mg/kg wet	*0.3333*		*70*	*30-130*			
Surrogate: Nitrobenzene-d5	*0.246*		mg/kg wet	*0.3333*		*74*	*30-130*			
Surrogate: p-Terphenyl-d14	*0.322*		mg/kg wet	*0.3333*		*97*	*30-130*			
LCS Dup										
2-Methylnaphthalene	0.206	0.017	mg/kg wet	0.2667		77	40-140	20	30	
Acenaphthene	0.199	0.017	mg/kg wet	0.2667		74	40-140	16	30	
Acenaphthylene	0.177	0.017	mg/kg wet	0.2667		66	40-140	17	30	
Anthracene	0.217	0.017	mg/kg wet	0.2667		81	40-140	16	30	
Benzo(a)anthracene	0.244	0.017	mg/kg wet	0.2667		91	40-140	7	30	
Benzo(a)pyrene	0.226	0.017	mg/kg wet	0.2667		85	40-140	7	30	
Benzo(b)fluoranthene	0.238	0.017	mg/kg wet	0.2667		89	40-140	2	30	
Benzo(g,h,i)perylene	0.260	0.017	mg/kg wet	0.2667		97	40-140	8	30	

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308098

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D(SIM) Polynuclear Aromatic Hydrocarbons										
Batch CH30811 - 3541										
Benzo(k)fluoranthene	0.229	0.017	mg/kg wet	0.2667		86	40-140	6	30	
Chrysene	0.238	0.017	mg/kg wet	0.2667		89	40-140	8	30	
Dibenzo(a,h)Anthracene	0.286	0.017	mg/kg wet	0.2667		107	40-140	8	30	
Fluoranthene	0.211	0.017	mg/kg wet	0.2667		79	40-140	10	30	
Fluorene	0.207	0.017	mg/kg wet	0.2667		78	40-140	16	30	
Indeno(1,2,3-cd)Pyrene	0.272	0.017	mg/kg wet	0.2667		102	40-140	7	30	
Naphthalene	0.190	0.017	mg/kg wet	0.2667		71	40-140	21	30	
Phenanthrene	0.212	0.017	mg/kg wet	0.2667		79	40-140	17	30	
Pyrene	0.235	0.017	mg/kg wet	0.2667		88	40-140	10	30	
Surrogate: 1,2-Dichlorobenzene-d4	*0.181*		mg/kg wet	*0.3333*		*54*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*0.186*		mg/kg wet	*0.3333*		*56*	*30-130*			
Surrogate: Nitrobenzene-d5	*0.189*		mg/kg wet	*0.3333*		*57*	*30-130*			
Surrogate: p-Terphenyl-d14	*0.283*		mg/kg wet	*0.3333*		*85*	*30-130*			
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CH30813 - 3546										
Blank										
C19-C36 Aliphatics1	ND	15.0	mg/kg wet							
C9-C18 Aliphatics1	ND	15.0	mg/kg wet							
Decane (C10)	ND	0.5	mg/kg wet							
Docosane (C22)	ND	0.5	mg/kg wet							
Dodecane (C12)	ND	0.5	mg/kg wet							
Eicosane (C20)	ND	0.5	mg/kg wet							
Hexacosane (C26)	ND	0.5	mg/kg wet							
Hexadecane (C16)	ND	0.5	mg/kg wet							
Hexatriacontane (C36)	ND	0.5	mg/kg wet							
Nonadecane (C19)	ND	0.5	mg/kg wet							
Nonane (C9)	ND	0.5	mg/kg wet							
Octacosane (C28)	ND	0.5	mg/kg wet							
Octadecane (C18)	ND	0.5	mg/kg wet							
Tetracosane (C24)	ND	0.5	mg/kg wet							
Tetradecane (C14)	ND	0.5	mg/kg wet							
Triacontane (C30)	ND	0.5	mg/kg wet							
Surrogate: 1-Chlorooctadecane	*1.52*		mg/kg wet	*2.000*		*76*	*40-140*			
Blank										
2-Methylnaphthalene	ND	0.20	mg/kg wet							
Acenaphthene	ND	0.40	mg/kg wet							
Acenaphthylene	ND	0.20	mg/kg wet							
Anthracene	ND	0.40	mg/kg wet							
Benzo(a)anthracene	ND	0.40	mg/kg wet							
Benzo(a)pyrene	ND	0.40	mg/kg wet							
Benzo(b)fluoranthene	ND	0.40	mg/kg wet							
Benzo(g,h,i)perylene	ND	0.40	mg/kg wet							
Benzo(k)fluoranthene	ND	0.40	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308098

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CH30813 - 3546										
C11-C22 Unadjusted Aromatics1	ND	15.0	mg/kg wet							
Chrysene	ND	0.40	mg/kg wet							
Dibenzo(a,h)Anthracene	ND	0.20	mg/kg wet							
Fluoranthene	ND	0.40	mg/kg wet							
Fluorene	ND	0.40	mg/kg wet							
Indeno(1,2,3-cd)Pyrene	ND	0.40	mg/kg wet							
Naphthalene	ND	0.40	mg/kg wet							
Phenanthrene	ND	0.40	mg/kg wet							
Pyrene	ND	0.40	mg/kg wet							
Surrogate: 2-Bromonaphthalene	*2.15*		mg/kg wet	*2.000*		*107*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*2.07*		mg/kg wet	*2.000*		*104*	*40-140*			
Surrogate: O-Terphenyl	*1.75*		mg/kg wet	*2.000*		*88*	*40-140*			
LCS										
C19-C36 Aliphatics1	15.0	15.0	mg/kg wet	16.00		94	40-140			
C9-C18 Aliphatics1	9.2	15.0	mg/kg wet	12.00		76	40-140			
Decane (C10)	1.1	0.5	mg/kg wet	2.000		54	40-140			
Docosane (C22)	1.6	0.5	mg/kg wet	2.000		81	40-140			
Dodecane (C12)	1.2	0.5	mg/kg wet	2.000		59	40-140			
Eicosane (C20)	1.6	0.5	mg/kg wet	2.000		78	40-140			
Hexacosane (C26)	1.6	0.5	mg/kg wet	2.000		80	40-140			
Hexadecane (C16)	1.5	0.5	mg/kg wet	2.000		73	40-140			
Hexatriacontane (C36)	1.6	0.5	mg/kg wet	2.000		82	40-140			
Nonadecane (C19)	1.6	0.5	mg/kg wet	2.000		78	40-140			
Nonane (C9)	0.8	0.5	mg/kg wet	2.000		40	30-140			
Octacosane (C28)	1.6	0.5	mg/kg wet	2.000		80	40-140			
Octadecane (C18)	1.5	0.5	mg/kg wet	2.000		77	40-140			
Tetracosane (C24)	1.6	0.5	mg/kg wet	2.000		79	40-140			
Tetradecane (C14)	1.3	0.5	mg/kg wet	2.000		67	40-140			
Triacontane (C30)	1.6	0.5	mg/kg wet	2.000		81	40-140			
Surrogate: 1-Chlorooctadecane	*1.63*		mg/kg wet	*2.000*		*81*	*40-140*			
LCS										
2-Methylnaphthalene	1.30	0.20	mg/kg wet	2.000		65	40-140			
Acenaphthene	1.33	0.40	mg/kg wet	2.000		66	40-140			
Acenaphthylene	1.33	0.20	mg/kg wet	2.000		67	40-140			
Anthracene	1.35	0.40	mg/kg wet	2.000		68	40-140			
Benzo(a)anthracene	1.37	0.40	mg/kg wet	2.000		68	40-140			
Benzo(a)pyrene	1.68	0.40	mg/kg wet	2.000		84	40-140			
Benzo(b)fluoranthene	1.40	0.40	mg/kg wet	2.000		70	40-140			
Benzo(g,h,i)perylene	1.45	0.40	mg/kg wet	2.000		73	40-140			
Benzo(k)fluoranthene	1.59	0.40	mg/kg wet	2.000		79	40-140			
C11-C22 Unadjusted Aromatics1	27.6	15.0	mg/kg wet	34.00		81	40-140			
Chrysene	1.46	0.40	mg/kg wet	2.000		73	40-140			
Dibenzo(a,h)Anthracene	1.58	0.20	mg/kg wet	2.000		79	40-140			
Fluoranthene	1.43	0.40	mg/kg wet	2.000		71	40-140			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308098

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CH30813 - 3546										
Fluorene	1.39	0.40	mg/kg wet	2.000		69	40-140			
Indeno(1,2,3-cd)Pyrene	1.43	0.40	mg/kg wet	2.000		71	40-140			
Naphthalene	1.19	0.40	mg/kg wet	2.000		59	40-140			
Phenanthrene	1.40	0.40	mg/kg wet	2.000		70	40-140			
Pyrene	1.44	0.40	mg/kg wet	2.000		72	40-140			
Surrogate: 2-Bromonaphthalene	*1.94*		mg/kg wet	*2.000*		*97*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*2.09*		mg/kg wet	*2.000*		*105*	*40-140*			
Surrogate: O-Terphenyl	*1.72*		mg/kg wet	*2.000*		*86*	*40-140*			
LCS										
2-Methylnaphthalene Breakthrough	0.0		%				0-5			
Naphthalene Breakthrough	0.0		%				0-5			
LCS Dup										
C19-C36 Aliphatics1	14.9	15.0	mg/kg wet	16.00		93	40-140	0.6	25	
C9-C18 Aliphatics1	8.6	15.0	mg/kg wet	12.00		72	40-140	6	25	
Decane (C10)	1.0	0.5	mg/kg wet	2.000		51	40-140	6	25	
Docosane (C22)	1.6	0.5	mg/kg wet	2.000		80	40-140	0.7	25	
Dodecane (C12)	1.1	0.5	mg/kg wet	2.000		57	40-140	4	25	
Eicosane (C20)	1.5	0.5	mg/kg wet	2.000		76	40-140	2	25	
Hexacosane (C26)	1.6	0.5	mg/kg wet	2.000		80	40-140	0.2	25	
Hexadecane (C16)	1.4	0.5	mg/kg wet	2.000		68	40-140	7	25	
Hexatriacontane (C36)	1.6	0.5	mg/kg wet	2.000		81	40-140	0.6	25	
Nonadecane (C19)	1.5	0.5	mg/kg wet	2.000		75	40-140	4	25	
Nonane (C9)	0.8	0.5	mg/kg wet	2.000		40	30-140	2	25	
Octacosane (C28)	1.6	0.5	mg/kg wet	2.000		81	40-140	0.2	25	
Octadecane (C18)	1.4	0.5	mg/kg wet	2.000		72	40-140	6	25	
Tetracosane (C24)	1.6	0.5	mg/kg wet	2.000		80	40-140	0.2	25	
Tetradecane (C14)	1.3	0.5	mg/kg wet	2.000		63	40-140	6	25	
Triacontane (C30)	1.6	0.5	mg/kg wet	2.000		80	40-140	0.3	25	
Surrogate: 1-Chlorooctadecane	*1.58*		mg/kg wet	*2.000*		*79*	*40-140*			
LCS Dup										
2-Methylnaphthalene	1.25	0.20	mg/kg wet	2.000		62	40-140	4	20	
Acenaphthene	1.26	0.40	mg/kg wet	2.000		63	40-140	6	20	
Acenaphthylene	1.30	0.20	mg/kg wet	2.000		65	40-140	3	20	
Anthracene	1.36	0.40	mg/kg wet	2.000		68	40-140	0.4	20	
Benzo(a)anthracene	1.43	0.40	mg/kg wet	2.000		71	40-140	4	20	
Benzo(a)pyrene	1.73	0.40	mg/kg wet	2.000		86	40-140	3	20	
Benzo(b)fluoranthene	1.49	0.40	mg/kg wet	2.000		74	40-140	6	20	
Benzo(g,h,i)perylene	1.50	0.40	mg/kg wet	2.000		75	40-140	3	20	
Benzo(k)fluoranthene	1.63	0.40	mg/kg wet	2.000		82	40-140	3	20	
C11-C22 Unadjusted Aromatics1	27.4	15.0	mg/kg wet	34.00		81	40-140	0.7	25	
Chrysene	1.51	0.40	mg/kg wet	2.000		76	40-140	4	20	
Dibenzo(a,h)Anthracene	1.61	0.20	mg/kg wet	2.000		80	40-140	2	20	
Fluoranthene	1.46	0.40	mg/kg wet	2.000		73	40-140	2	20	

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308098

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CH30813 - 3546										
Fluorene	1.38	0.40	mg/kg wet	2.000		69	40-140	0.7	20	
Indeno(1,2,3-cd)Pyrene	1.48	0.40	mg/kg wet	2.000		74	40-140	3	20	
Naphthalene	1.18	0.40	mg/kg wet	2.000		59	40-140	0.7	20	
Phenanthrene	1.35	0.40	mg/kg wet	2.000		67	40-140	4	20	
Pyrene	1.45	0.40	mg/kg wet	2.000		72	40-140	0.7	20	
Surrogate: 2-Bromonaphthalene	*1.86*		mg/kg wet	*2.000*		*93*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*2.00*		mg/kg wet	*2.000*		*100*	*40-140*			
Surrogate: O-Terphenyl	*1.69*		mg/kg wet	*2.000*		*85*	*40-140*			
LCS Dup										
2-Methylnaphthalene Breakthrough	0.0		%				0-5		200	
Naphthalene Breakthrough	0.0		%				0-5		200	

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308098

Notes and Definitions

U	Analyte included in the analysis, but not detected
Q	Calibration required quadratic regression (Q).
P	Percent difference between primary and confirmation results exceeds 40% (P).
IM	Internal Standard(s) outside of criteria due to matrix (UCM/coelution is present) (IM).
ICV	Initial Calibration Verification recovery is outside of control limit (ICV).
D	Diluted.
C+	Continuing Calibration recovery is above upper control limit (C+).
C-	Continuing Calibration recovery is below lower control limit (C-).
B-	Blank Spike recovery is below lower control limit (B-).
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	Detection Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308098

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Department of Defense (DoD) Environmental Laboratory Accreditation Program (ELAP)
A2LA Accredited: Testing Cert# 2864.01
http://www.a2la.org/scopepdf/2864-01.pdf

Rhode Island Potable and Non Potable Water: LAI00179
http://www.health.ri.gov/labs/waterlabs-instate.php

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750
http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI0002
http://www.maine.gov/dep/blwq/topic/vessel/lab_list.pdf

Massachusetts Potable and Non Potable Water: M-RI002
http://public.dep.state.ma.us/labcert/labcert.aspx

New Hampshire (NELAP accredited) Potable and Non PotableWater, Solid and Hazardous Waste: 2424
http://www4.egov.nh.gov/des/nhelap/namesearch.asp

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313
http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006
http://datamine2.state.nj.us/dep/DEP_OPRA/

United States Department of Agriculture Soil Permit: S-54210

Maryland Potable Water: 301
http://www.mde.state.md.us/assets/document/WSP_labs-2009apr20.pdf

CHEMISTRY

A2LA Accredited: Testing Cert # 2864.01
Lead in Paint, Phthalates, Lead in Children's Metals Products (Including Jewelry)
http://www.A2LA.org/dirsearchnew/newsearch.cfm

CPSC ID# 1141
Lead Paint, Lead in Children's Metals Jewelry
http://www.cpsc.gov/cgi-bin/labapplist.aspx

Sterling Analytical, Inc.
15 Agawam Avenue
West Springfield, MA 01089
Phone (413) 214-6541 Fax (413) 214-6842
email-madhu@sterlinganalytical.com

Visit our website: www.sterlinganalytical.com

Mass Certification - MA-00071
Conn Certification - PH-0520

Report Date August 13, 2013

Customer	Contact	Laboratory Supervisor	eMail
ESS Laboratory	C. Taylor	Madhu Shah	madhu@sterlinganalytical.com

Sample Description
Analysis of Solid Samples

Samples Analyzed

Enclosed are Report No(s): 39702 to 39710

ICV 10,000 = 10,375mg/kg
CCV 50,000 = 45,127mg/kg

Thank you for your business

Madhu Shah, Laboratory Supervisor **Date**

ALL the information contained in this report has been reviewed for accuracy and checked against all quality control requirements outlined in each applicable method.
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Sample	Description	Source	Taken/Time	Received
39702	1308098-1	ESS Laboratory	8/1/13	8/9/13

Parameter	Results		MDL	Method	Analyzed/Time	Tech
Total Organic Carbon Lloyd Kah	59,160	mg/kg	500.00	Lloyd Kahn	08/12/13	sjr

Sample	Description	Source	Taken/Time	Received
39703	1308098-7	ESS Laboratory	8/1/13	8/9/13

Parameter	Results		MDL	Method	Analyzed/Time	Tech
Total Organic Carbon Lloyd Kah	71,000	mg/kg	500.00	Lloyd Kahn	08/12/13	sjr

Sample	Description	Source	Taken/Time	Received
39704	1308098-9	ESS Laboratory	8/1/13	8/9/13

Parameter	Results		MDL	Method	Analyzed/Time	Tech
Total Organic Carbon Lloyd Kah	70,100	mg/kg	500.00	Lloyd Kahn	08/12/13	sjr

Sample	Description	Source	Taken/Time	Received
39705	1308098-10	ESS Laboratory	8/1/13	8/9/13

Parameter	Results		MDL	Method	Analyzed/Time	Tech
Total Organic Carbon Lloyd Kah	58,320	mg/kg	500.00	Lloyd Kahn	08/12/13	sjr

Sample	Description	Source	Taken/Time	Received
39706	1308098-12	ESS Laboratory	8/1/13	8/9/13

Parameter	Results		MDL	Method	Analyzed/Time	Tech
Total Organic Carbon Lloyd Kah	37,790	mg/kg	500.00	Lloyd Kahn	08/12/13	sjr

Sample	Description	Source	Taken/Time	Received
39707	1308098-13	ESS Laboratory	8/1/13	8/9/13

Parameter	Results		MDL	Method	Analyzed/Time	Tech
Total Organic Carbon Lloyd Kah	56,480	mg/kg	500.00	Lloyd Kahn	08/12/13	sjr

Sample	Description	Source	Taken/Time	Received
39708	1308098-14	ESS Laboratory	8/1/13	8/9/13

Parameter	Results		MDL	Method	Analyzed/Time	Tech
Total Organic Carbon Lloyd Kah	10,680	mg/kg	500.00	Lloyd Kahn	08/12/13	sjr

Sample	Description	Source	Taken/Time	Received
39709	1308098-17	ESS Laboratory	8/1/13	8/9/13

Parameter	Results		MDL	Method	Analyzed/Time	Tech
Total Organic Carbon Lloyd Kah	40,020	mg/kg	500.00	Lloyd Kahn	08/12/13	sjr

Sample	Description	Source	Taken/Time	Received
39710	1308098-19	ESS Laboratory	8/1/13	8/9/13

Parameter	Results		MDL	Method	Analyzed/Time	Tech
Total Organic Carbon Lloyd Kah	61,560	mg/kg	500.00	Lloyd Kahn	08/12/13	sjr

ESS Laboratory

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185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

Page_____ of_____

Turn Time ___ Standard Other _____
If faster than 5 days, prior approval by laboratory is required #

Reporting Limits

ESS LAB PROJECT ID

State where samples were collected from:
MA RI CT NH NJ NY ME Other _____

Electronic Deliverable Yes ✓ No ___
Format: Excel __ Access __ PDF ✓ Other _____

Is this project for any of the following:
MA-MCP Navy USACE Other _____

Co. Name	Project #	Project Name (20 Char. or less)
Contact Person	**Address**	
City	**State**	**Zip** / **PO#**
Telephone #	**Fax #**	**Email Address**

ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	Write Required Analysis

Container Type: P-Poly G-Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present ___ Yes ___ No Internal Use Only

Seals Intact ___ Yes ___ No NA: ___ [ ] Pickup

Cooler Temp: _____ [ ] Technicians _____

Preservation Code 1- NP, 2- HCl, 3- H_2SO_4, 4- HNO_3, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9-_____

Sampled by:

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt

10/26/04 A

Sample and Cooler Receipt Checklist

Client: GZA GeoEnvironmental, Inc.
Client Project ID: _____
Shipped/Delivered Via: ESS Courier

ESS Project ID: 13080098
Date Project Due: 8/14/13
Days For Project: 5 Day

Items to be checked upon receipt:

1. Air Bill Manifest Present?	* No	10. Are the samples properly preserved?	Yes
Air No.:		11. Proper sample containers used?	Yes
2. Were Custody Seals Present?	No	12. Any air bubbles in the VOA vials?	N/A
3. Were Custody Seals Intact?	N/A	13. Holding times exceeded?	No
4. Is Radiation count < 100 CPM?	Yes	14. Sufficient sample volumes?	Yes
5. Is a cooler present?	Yes	15. Any Subcontracting needed?	~~No~~ Yes
Cooler Temp: **4.8**		16. Are ESS labels on correct containers?	Yes|No
Iced With: **Ice**		17. Were samples received intact?	Yes|No
6. Was COC included with samples?	Yes	ESS Sample IDs:	1,7,9,10,13,14,19,17-
7. Was COC signed and dated by client?	Yes	Sub Lab:	Stl, ~~Test America~~
8. Does the COC match the sample	Yes	Analysis:	TOC
9. Is COC complete and correct?	Yes	TAT:	5td.

18. Was there need to call project manager to discuss status? If yes, please explain.

_____

_____

_____

Who was called?:_____ By whom? _____

Sample Number	Properly Preserved	Container Type	# of Containers	Preservative
1	Yes	2 oz Soil Jar	1	NP
1	Yes	4 oz Soil Jar	1	NP
1	Yes	8 oz Soil Jar	1	NP
2	Yes	4 oz Soil Jar	1	NP
2	Yes	8 oz Soil Jar	1	NP
3	Yes	4 oz Soil Jar	1	NP
3	Yes	8 oz Soil Jar	1	NP
4	Yes	4 oz Soil Jar	1	NP
4	Yes	8 oz Soil Jar	1	NP
5	Yes	4 oz Soil Jar	1	NP
5	Yes	8 oz Soil Jar	1	NP
6	Yes	4 oz Soil Jar	1	NP
6	Yes	8 oz Soil Jar	1	NP
7	Yes	2 oz Soil Jar	1	NP
7	Yes	4 oz Soil Jar	1	NP
7	Yes	8 oz Soil Jar	1	NP
8	Yes	4 oz Soil Jar	1	NP
8	Yes	8 oz Soil Jar	1	NP
9	Yes	2 oz Soil Jar	1	NP
9	Yes	4 oz Soil Jar	1	NP
9	Yes	8 oz Soil Jar	1	NP
10	Yes	2 oz Soil Jar	1	NP
10	Yes	4 oz Soil Jar	1	NP
10	Yes	8 oz Soil Jar	1	NP
11	Yes	4 oz Soil Jar	1	NP

Sample and Cooler Receipt Checklist

Client: GZA GeoEnvironmental, Inc. ESS Project ID: 13080098

11	Yes	8 oz Soil Jar	1	NP
12	Yes	2 oz Soil Jar	1	NP
12	Yes	4 oz Soil Jar	1	NP
12	Yes	8 oz Soil Jar	1	NP
13	Yes	2 oz Soil Jar	1	NP
13	Yes	4 oz Soil Jar	1	NP
13	Yes	8 oz Soil Jar	1	NP
14	Yes	2 oz Soil Jar	1	NP
14	Yes	4 oz Soil Jar	1	NP
14	Yes	8 oz Soil Jar	1	NP
15	Yes	4 oz Soil Jar	1	NP
15	Yes	8 oz Soil Jar	1	NP
16	Yes	4 oz Soil Jar	1	NP
16	Yes	8 oz Soil Jar	1	NP
17	Yes	2 oz Soil Jar	1	NP
17	Yes	4 oz Soil Jar	1	NP
17	Yes	8 oz Soil Jar	1	NP
18	Yes	4 oz Soil Jar	1	NP
18	Yes	8 oz Soil Jar	1	NP
19	Yes	2 oz Soil Jar	1	NP
19	Yes	4 oz Soil Jar	1	NP
19	Yes	8 oz Soil Jar	1	NP
20	Yes	4 oz Soil Jar	1	NP
20	Yes	8 oz Soil Jar	1	NP

Completed By: _____ Date/Time: 8/7/13 1330

Reviewed By: _____ Date/Time: 8/7/13 1332



Custody Seal 4/

Job # 171521-02

Signature _____

Date 8/6/13 **Time** 22:00

ESS Laboratory
Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

ESS LAB PROJECT ID: 1308098

Turn Time ___x___ Standard Rush_____ Approved By: _____

Reporting Limits - see prev. email correspondence

State where samples were collected: **MA RI CT NH NJ NY ME** Other_____

Is this project for any of the following: (please circle)
MA-MCP CT-RCP RGP DOD Other_____

Electonic Deliverable Yes__x__ No____
Format: Excel_x__ Access___ PDF___ Other_____

GZA Project Manager: David E. Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Avenue
Norwood, MA 02062
(781) 278-3700
PRESUMPTIVE CERTAINTY REQUIRED

Project # 171521.02
Project Name: Former Everett Staging Yard
Contract Pricing _____
Special Pricing WO#: _____

ESS Lab Sample ID	Date	Collection Time	Grab -G Composite-C	Matrix	Sample Identification	# of Containers	MCP 14 metals	B/N Phthalates Esters 8270	PAH 8270 SIM	EPH Fractions	PCBs	TOC by Lloyd Kahn					Comment #
					Analysis												
1	8/1/13	8:45	G	Sed	GZ-101 0-0.5'	2	X					X					
2	8/1/13	8:45	G	Sed	GZ-101 2-4'	2	X										
3	8/1/13	8:45	G	Sed	GZ-101 4-6'	2	X										
4	8/1/13	8:45	G	Sed	GZ-101 8-9'	2	X										
5	8/1/13	8:55	G	Sed	GZ-102 2-4'	2	X										
6	8/1/13	8:55	G	Sed	GZ-102 4-6'	2	X										
7	8/1/13	8:55	G	Sed	GZ-102 6-8'	2	X	X	X	X	X	X					
8	8/1/13	8:55	G	Sed	GZ-102 8-10'	2	X										
9	8/1/13	9:05	G	Sed	GZ-103 2-4'	2	X					X					
10	8/1/13	9:05	G	Sed	GZ-103 4-6'	2	X					X					

Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-_____

Container Type: P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA — AG AG AG AG AG AG

Matrix: S-Soil SD-Solid D-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filter

Cooler Present ✓ Yes _____ No
Seals Intact ✓ Yes _____ No NA: _____
Cooler Temperature: 4.1 3.6 4.8 2.6 3.2 (5 Coolers)

Sampled by : Dan Scanlon

Comments: Contract Price - 10%

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
[signature]	8/6/13 2000	[signature] 8/7/13 1030	[signature] 1120	8/7/13	[signature] 8/7/13 1130

Please E-mail all changes to Chain of Custody in writing.

2 of 2

ESS Laboratory

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

ESS LAB PROJECT ID: 1308098

Turn Time ___x___ Standard Rush_____ Approved By: _____

Reporting Limits - see prev. email correspondence

State where samples were collected: MA RI CT NH NJ NY ME Other_____

Is this project for any of the following: (please circle)
MA-MCP CT-RCP RGP DOD Other_____

Electonic Deliverable Yes__x__ No____
Format: Excel_x__ Access___ PDF___ Other_____

GZA Project Manager: David E. Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Avenue
Norwood, MA 02062
(781) 278-3700
PRESUMPTIVE CERTAINTY REQUIRED

Project # 171521.02

Project Name: Former Everett Staging Yard

Contract Pricing ____
Special Pricing WO#: _____

ESS Lab Sample ID	Date	Collection Time	Grab -G Composite-C	Matrix	Sample Identification	# of Containers	MCP 14 metals	B/N Phthalates Esters 8270	PAH 8270 SIM	EPH Fractions	PCBs	TOC by Lloyd Kahn						Comment #
						Analysis												
11	8/1/13	9:05	G	Sed	GZ-103 6-7'	2	X											
12	8/6/13	9:12	G	Sed	GZ-104 T 0-0.5'	2	X	X	X	X	X	X						
13	8/1/13	9:50	G	Sed	GZ-104 2-4'	2	X	X	X	X	X	X						
14	8/1/13	9:50	G	Sed	GZ-104 4-6'	2	X					X						
15	8/1/13	9:50	G	Sed	GZ-104 6-8'	2	X											
16	8/1/13	10:06	G	Sed	GZ-105 2-4'	2	X											
17	8/1/13	10:06	G	Sed	GZ-105 4-6'	2	X	X	X	X	X	X						
18	8/1/13	10:06	G	Sed	GZ-105 6-9'	2	X											
19	8/1/13	10:41	G	Sed	GZ-106 2-4'	2	X					X						
20	8/1/13	10:41	G	Sed	GZ-106 4-6'	2	X											
Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-_____																		
Container Type: P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA							AG	AG	AG	AG	AG	AG						
Matrix: S-Soil SD-Solid D-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filter																		

Cooler Present ✓ Yes ____ No
Seals Intact Yes ✓ No NA: ____
5 coolers
Cooler Temperature: 4.1-3.6-4.8-2.6 3.2

Sampled by : Dan Scanlon

Comments: Contract Price - 10%

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	8/6/13 20	8/7/13 1030	1120	8/7/13	8/7/13 11:30

Please E-mail all changes to Chain of Custody in writing.

Page 1 of 16

CERTIFICATE OF ANALYSIS

David E Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Avenue
Norwood, MA 02062

RE: Everett (01.0171521.02)
ESS Laboratory Work Order Number: 1308104

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard
Laboratory Director

REVIEWED
By ESS Laboratory at 4:20 pm, Aug 19, 2013

Analytical Summary
The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with NELAC Standards, A2LA and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibratins, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.

Subcontracted Analyses

Sterling Analytical Lab - West Springfield, MA	Total Organic Carbon

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308104

SAMPLE RECEIPT

The following samples were received on August 07, 2013 for the analyses specified on the enclosed Chain of Custody Record.

To achieve CAM compliance for MCP data, ESS Laboratory has performed and reviewed all QA/QC Requirements and Performance Standards listed in each method. Holding times and preservation have also been reviewed. All CAM requirements have been achieved unless noted in the project narrative.

Each method has been set-up in the laboratory to reach required MCP standards. The methods for aqueous VOA and Soil Methanol VOA have known limitations for certain analytes. The regulatory standards may not be achieved due to these limitations. In addition, for all methods, matrix interferences, dilutions, and %Solids may elevate method reporting limits above regulatory standards. ESS Laboratory can provide, upon request, a Data Checker (regulatory standard comparison spreadsheet) electronic deliverable which will highlight these exceedances.

For EPH soil samples, the aromatic range results have been corrected for identified cartridge contaminant in accordance with the CAM protocol.

Question I: All samples for SVOA were analyzed for a subset of the required MCP list per the client's request.

Lab Number	SampleName	Matrix	Analysis
1308104-01	GZ-106 6-9ft	Solid	6010B, 6020A, 7471B
1308104-02	GZ-107 0-0.5ft	Solid	6010B, 6020A, 7471B, TOC-LK
1308104-03	GZ-107 2-4ft	Solid	6010B, 6020A, 7471B
1308104-04	GZ-108T 0-0.5ft	Solid	6010B, 6020A, 7471B, 8082A, 8270D, EPH8270, MADEP-EPH, TOC-LK
1308104-05	GZ-108 2-4ft	Solid	6010B, 6020A, 7471B, 8082A, 8270D, EPH8270, MADEP-EPH, TOC-LK
1308104-06	GZ-108 4-6ft	Solid	6010B, 6020A, 7471B, TOC-LK
1308104-07	GZ-108 8-10ft	Solid	6010B, 6020A, 7471B
1308104-08	GZ-109T 0-0.5ft	Solid	6010B, 6020A, 7471B
1308104-09	GZ-109 0.5-2.5ft	Solid	6010B, 6020A, 7471B, 8082A, 8270D, EPH8270, MADEP-EPH, TOC-LK
1308104-10	GZ-110B 0-0.5ft	Solid	6010B, 6020A, 7471B, TOC-LK
1308104-11	GZ-110B 2-4ft	Solid	6010B, 6020A, 7471B
1308104-12	GZ-111 0-0.5ft	Solid	6010B, 6020A, 7471B
1308104-13	GZ-111 2-4ft	Solid	6010B, 6020A, 7471B
1308104-14	GZ-111 7-8ft	Solid	6010B, 6020A, 7471B, 8082A, 8270D, EPH8270, MADEP-EPH, TOC-LK
1308104-15	GZ-112T 0-0.5ft	Solid	6010B, 6020A, 7471B, TOC-LK
1308104-16	GZ-112 2-4ft	Solid	6010B, 6020A, 7471B
1308104-17	GZ-112 6-8ft	Solid	6010B, 6020A, 7471B

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
ESS Laboratory Work Order: 1308104

1308104-18	GZ-113T 0-0.5ft	Solid	6010B, 6020A, 7471B, 8082A, 8270D, EPH8270, MADEP-EPH, TOC-LK
1308104-19	GZ-113 2-4ft	Solid	6010B, 6020A, 7471B, 8082A, 8270D, EPH8270, MADEP-EPH, TOC-LK
1308104-20	GZ-113 4-6ft	Solid	6010B, 6020A, 7471B

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308104

PROJECT NARRATIVE

8270D Semi-Volatile Organic Compounds

CWH0080-CCV1 **Calibration required quadratic regression (Q).**
2,4-Dinitrophenol (101% @ 80-120%), 4,6-Dinitro-2-Methylphenol (108% @ 70-130%), Benzoic Acid (97% @ 70-130%), Pentachlorophenol (101% @ 80-120%)

CWH0080-CCV1 **Initial Calibration Verification recovery is outside of control limit (ICV).**
Benzidine , Hexachlorocyclopentadiene

CWH0106-CCV1 **Calibration required quadratic regression (Q).**
2,4-Dinitrophenol (110% @ 80-120%), 4,6-Dinitro-2-Methylphenol (114% @ 70-130%), Benzoic Acid (103% @ 70-130%), Pentachlorophenol (103% @ 80-120%)

CWH0106-CCV1 **Initial Calibration Verification recovery is outside of control limit (ICV).**
Benzidine , Hexachlorocyclopentadiene

MADEP-EPH Extractable Petroleum Hydrocarbons

CWH0135-CCV4 **Continuing Calibration recovery is above upper control limit (C+).**
Benzo(a)pyrene (121% @ 80-120%)

No other observations noted.

End of Project Narrative.

DATA USABILITY LINKS

Definitions of Quality Control Parameters

Semivolatile Organics Internal Standard Information

Semivolatile Organics Surrogate Information

Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308104

CURRENT SW-846 METHODOLOGY VERSIONS

Analytical Methods

1010A - Flashpoint
6010C - ICP
6020A - ICP MS
7010 - Graphite Furnace
7196A - Hexavalent Chromium
7470A - Aqueous Mercury
7471B - Solid Mercury
8011 - EDB/DBCP/TCP
8015C - GRO/DRO
8081B - Pesticides
8082A - PCB
8100M - TPH
8151A - Herbicides
8260B - VOA
8270D - SVOA
8270D SIM - SVOA Low Level
9014 - Cyanide
9038 - Sulfate
9040C - Aqueous pH
9045D - Solid pH (Corrosivity)
9050A - Specific Conductance
9056A - Anions (IC)
9060A - TOC
9095B - Paint Filter
MADEP 04-1.1 - EPH / VPH

Prep Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5035 - Solid Purge and Trap

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308104

MassDEP Analytical Protocol Certification Form

MADEP RTN: _____

This form provides certification for the following data set: **1308104-01 through 1308104-20**

Matrices: ( ) Ground Water/Surface Water (X) Soil/Sediment ( ) Drinking Water ( ) Air ( ) Other:_____

CAM Protocol (check all that apply below):

( ) 8260 VOC CAM II A	(X) 7470/7471 Hg CAM III B	( ) MassDEP VPH CAM IV A	( ) 8081 Pesticides CAM V B	( ) 7196 Hex Cr CAM VI B	( ) MassDEP APH CAM IX A
(X) 8270 SVOC CAM II B	( ) 7010 Metals CAM III C	(X) MassDEP EPH CAM IV B	( ) 8151 Herbicides CAM V C	( ) 8330 Explosives CAM VIII A	( ) TO-15 VOC CAM IX B
(X) 6010 Metals CAM III A	(X) 6020 Metals CAM III D	(X) 8082 PCB CAM V A	( ) 6860 Perchlorate CAM VIII B	( ) 9014 Total Cyanide/PAC CAM VI A	

Affirmative responses to questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	Yes (X) No ( )
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	Yes (X) No ( )
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	Yes (X) No ( )
D	Does the laboratory report comply with all the reporting requirements specified in the CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	Yes (X) No ( )
E	a. VPH, EPH, APH and TO-15 only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	Yes (X) No ( )
	b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	Yes ( ) No ( )
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	Yes (X) No ( )

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocols(s)?	Yes (X) No ( )*
	***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**	
H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	Yes ( ) No (X)*
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	Yes ( ) No (X)*

All negative responses must be addressed in an attached laboratory narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: _____ Date: August 19, 2013

Printed Name: Laurel Stoddard Position: Laboratory Director

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-106 6-9ft
Date Sampled: 08/01/13 10:41
Percent Solids: 30

ESS Laboratory Work Order: 1308104
ESS Laboratory Sample ID: 1308104-01
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (3.3)		6020A		50	JP	08/09/13 4:09	5.13	100	CH30730
Arsenic	**39.5** (3.3)		6010B		1	SVD	08/08/13 5:02	5.13	100	CH30730
Barium	**50.4** (3.3)		6010B		1	SVD	08/08/13 5:02	5.13	100	CH30730
Beryllium	**0.57** (0.14)		6010B		1	SVD	08/08/13 5:02	5.13	100	CH30730
Cadmium	**1.25** (0.65)		6010B		1	SVD	08/08/13 5:02	5.13	100	CH30730
Chromium	**94.4** (1.3)		6010B		1	SVD	08/08/13 5:02	5.13	100	CH30730
Lead	**158** (6.5)		6010B		1	SVD	08/08/13 5:02	5.13	100	CH30730
Mercury	**1.34** (0.306)		7471B		5	KJK	08/08/13 17:56	1.08	40	CH30732
Nickel	**10.6** (3.3)		6010B		1	SVD	08/08/13 5:02	5.13	100	CH30730
Selenium	ND (3.27)		6020A		50	JP	08/09/13 4:09	5.13	100	CH30730
Silver	**1.28** (0.65)		6010B		1	SVD	08/08/13 5:02	5.13	100	CH30730
Thallium	ND (3.27)		6020A		50	JP	08/09/13 4:09	5.13	100	CH30730
Vanadium	**101** (1.3)		6010B		1	SVD	08/08/13 5:02	5.13	100	CH30730
Zinc	**141** (3.3)		6010B		1	SVD	08/08/13 5:02	5.13	100	CH30730

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-107 0-0.5ft
Date Sampled: 08/01/13 11:13
Percent Solids: 35

ESS Laboratory Work Order: 1308104
ESS Laboratory Sample ID: 1308104-02
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (2.8)		6020A		50	JP	08/09/13 4:15	5.1	100	CH30730
Arsenic	**33.4** (2.8)		6010B		1	SVD	08/08/13 5:08	5.1	100	CH30730
Barium	**46.4** (2.8)		6010B		1	SVD	08/08/13 5:08	5.1	100	CH30730
Beryllium	**0.50** (0.12)		6010B		1	SVD	08/08/13 5:08	5.1	100	CH30730
Cadmium	**1.51** (0.56)		6010B		1	SVD	08/08/13 5:08	5.1	100	CH30730
Chromium	**60.6** (1.1)		6010B		1	SVD	08/08/13 5:08	5.1	100	CH30730
Lead	**224** (5.6)		6010B		1	SVD	08/08/13 5:08	5.1	100	CH30730
Mercury	**1.12** (0.238)		7471B		5	KJK	08/08/13 17:59	1.18	40	CH30732
Nickel	**18.8** (2.8)		6010B		1	SVD	08/08/13 5:08	5.1	100	CH30730
Selenium	**3.32** (2.80)		6020A		50	JP	08/09/13 4:15	5.1	100	CH30730
Silver	**1.52** (0.56)		6010B		1	SVD	08/08/13 5:08	5.1	100	CH30730
Thallium	ND (2.80)		6020A		50	JP	08/09/13 4:15	5.1	100	CH30730
Vanadium	**64.9** (1.1)		6010B		1	SVD	08/08/13 5:08	5.1	100	CH30730
Zinc	**283** (2.8)		6010B		1	SVD	08/08/13 5:08	5.1	100	CH30730

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-107 0-0.5ft
Date Sampled: 08/01/13 11:13
Percent Solids: 35

ESS Laboratory Work Order: 1308104
ESS Laboratory Sample ID: 1308104-02
Sample Matrix: Solid

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**45300** (500)		TOC-LK		1	SUB	08/12/13 0:00	mg/kg	CH31340

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-107 2-4ft
Date Sampled: 08/01/13 11:13
Percent Solids: 22

ESS Laboratory Work Order: 1308104
ESS Laboratory Sample ID: 1308104-03
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (4.4)		6020A		50	JP	08/09/13 4:21	5.23	100	CH30730
Arsenic	**117** (4.3)		6010B		1	SVD	08/08/13 5:14	5.23	100	CH30730
Barium	**121** (4.3)		6010B		1	SVD	08/08/13 5:14	5.23	100	CH30730
Beryllium	**0.81** (0.18)		6010B		1	SVD	08/08/13 5:14	5.23	100	CH30730
Cadmium	**2.53** (0.87)		6010B		1	SVD	08/08/13 5:14	5.23	100	CH30730
Chromium	**135** (1.7)		6010B		1	SVD	08/08/13 5:14	5.23	100	CH30730
Lead	**442** (8.7)		6010B		1	SVD	08/08/13 5:14	5.23	100	CH30730
Mercury	**1.70** (0.412)		7471B		5	KJK	08/08/13 18:02	1.09	40	CH30732
Nickel	**21.2** (4.3)		6010B		1	SVD	08/08/13 5:14	5.23	100	CH30730
Selenium	ND (4.35)		6020A		50	JP	08/09/13 4:21	5.23	100	CH30730
Silver	**2.42** (0.87)		6010B		1	SVD	08/08/13 5:14	5.23	100	CH30730
Thallium	ND (4.35)		6020A		50	JP	08/09/13 4:21	5.23	100	CH30730
Vanadium	**182** (1.7)		6010B		1	SVD	08/08/13 5:14	5.23	100	CH30730
Zinc	**374** (4.3)		6010B		1	SVD	08/08/13 5:14	5.23	100	CH30730

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-108T 0-0.5ft
Date Sampled: 08/06/13 10:28
Percent Solids: 24

ESS Laboratory Work Order: 1308104
ESS Laboratory Sample ID: 1308104-04
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (4.2)		6020A		50	JP	08/09/13 4:27	5.08	100	CH30730
Arsenic	**51.5** (4.1)		6010B		1	SVD	08/08/13 5:19	5.08	100	CH30730
Barium	**66.9** (4.1)		6010B		1	SVD	08/08/13 5:19	5.08	100	CH30730
Beryllium	**0.75** (0.17)		6010B		1	SVD	08/08/13 5:19	5.08	100	CH30730
Cadmium	**2.19** (0.83)		6010B		1	SVD	08/08/13 5:19	5.08	100	CH30730
Chromium	**88.2** (1.7)		6010B		1	SVD	08/08/13 5:19	5.08	100	CH30730
Lead	**286** (8.3)		6010B		1	SVD	08/08/13 5:19	5.08	100	CH30730
Mercury	**1.88** (0.289)		7471B		5	KJK	08/08/13 18:05	1.44	40	CH30732
Nickel	**25.3** (4.1)		6010B		1	SVD	08/08/13 5:19	5.08	100	CH30730
Selenium	ND (4.16)		6020A		50	JP	08/09/13 4:27	5.08	100	CH30730
Silver	**2.17** (0.83)		6010B		1	SVD	08/08/13 5:19	5.08	100	CH30730
Thallium	ND (4.16)		6020A		50	JP	08/09/13 4:27	5.08	100	CH30730
Vanadium	**90.6** (1.7)		6010B		1	SVD	08/08/13 5:19	5.08	100	CH30730
Zinc	**387** (4.1)		6010B		1	SVD	08/08/13 5:19	5.08	100	CH30730

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-108T 0-0.5ft
Date Sampled: 08/06/13 10:28
Percent Solids: 24
Initial Volume: 19.8
Final Volume: 5
Extraction Method: 3540

ESS Laboratory Work Order: 1308104
ESS Laboratory Sample ID: 1308104-04
Sample Matrix: Solid
Units: mg/kg dry
Analyst: TJ
Prepared: 8/8/13 17:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.106)		8082A		1	08/10/13 15:06		CH30812
Aroclor 1221	ND (0.106)		8082A		1	08/10/13 15:06		CH30812
Aroclor 1232	ND (0.106)		8082A		1	08/10/13 15:06		CH30812
Aroclor 1242	ND (0.106)		8082A		1	08/10/13 15:06		CH30812
Aroclor 1248	**0.399** (0.106)		8082A		1	08/10/13 15:06		CH30812
Aroclor 1254	**0.594** (0.106)		8082A		1	08/10/13 15:06		CH30812
Aroclor 1260	**0.320** (0.106)		8082A		1	08/10/13 15:06		CH30812
Aroclor 1262	ND (0.106)		8082A		1	08/10/13 15:06		CH30812
Aroclor 1268	ND (0.106)		8082A		1	08/10/13 15:06		CH30812

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*52 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*47 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*43 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*32 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-108T 0-0.5ft
Date Sampled: 08/06/13 10:28
Percent Solids: 24
Initial Volume: 30.4
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308104
ESS Laboratory Sample ID: 1308104-04
Sample Matrix: Solid
Units: mg/kg dry
Analyst: IBM
Prepared: 8/7/13 16:46

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.691)		8270D		1	08/08/13 18:43	CWH0106	CH30632
1,2-Dichlorobenzene	ND (0.691)		8270D		1	08/08/13 18:43	CWH0106	CH30632
1,3-Dichlorobenzene	ND (0.691)		8270D		1	08/08/13 18:43	CWH0106	CH30632
1,4-Dichlorobenzene	ND (0.691)		8270D		1	08/08/13 18:43	CWH0106	CH30632
2-Methylnaphthalene	ND (0.691)		8270D		1	08/08/13 18:43	CWH0106	CH30632
2-Methylphenol	ND (0.691)		8270D		1	08/08/13 18:43	CWH0106	CH30632
Acenaphthene	ND (0.691)		8270D		1	08/08/13 18:43	CWH0106	CH30632
Acenaphthylene	ND (0.691)		8270D		1	08/08/13 18:43	CWH0106	CH30632
Anthracene	ND (0.691)		8270D		1	08/08/13 18:43	CWH0106	CH30632
Benzo(a)anthracene	ND (0.691)		8270D		1	08/08/13 18:43	CWH0106	CH30632
Benzo(a)pyrene	**0.580** (0.347)		8270D		1	08/08/13 18:43	CWH0106	CH30632
Benzo(b)fluoranthene	**0.767** (0.691)		8270D		1	08/08/13 18:43	CWH0106	CH30632
Benzo(g,h,i)perylene	ND (0.691)		8270D		1	08/08/13 18:43	CWH0106	CH30632
Benzo(k)fluoranthene	ND (0.691)		8270D		1	08/08/13 18:43	CWH0106	CH30632
bis(2-Ethylhexyl)phthalate	**4.27** (0.691)		8270D		1	08/08/13 18:43	CWH0106	CH30632
Butylbenzylphthalate	ND (0.691)		8270D		1	08/08/13 18:43	CWH0106	CH30632
Carbazole	ND (0.691)		8270D		1	08/08/13 18:43	CWH0106	CH30632
Chrysene	**0.630** (0.347)		8270D		1	08/08/13 18:43	CWH0106	CH30632
Dibenzo(a,h)Anthracene	ND (0.347)		8270D		1	08/08/13 18:43	CWH0106	CH30632
Dibenzofuran	ND (0.691)		8270D		1	08/08/13 18:43	CWH0106	CH30632
Diethylphthalate	ND (0.691)		8270D		1	08/08/13 18:43	CWH0106	CH30632
Dimethylphthalate	ND (0.691)		8270D		1	08/08/13 18:43	CWH0106	CH30632
Di-n-butylphthalate	ND (0.691)		8270D		1	08/08/13 18:43	CWH0106	CH30632
Di-n-octylphthalate	ND (0.691)		8270D		1	08/08/13 18:43	CWH0106	CH30632
Fluoranthene	**1.02** (0.691)		8270D		1	08/08/13 18:43	CWH0106	CH30632
Fluorene	ND (0.691)		8270D		1	08/08/13 18:43	CWH0106	CH30632
Hexachlorobenzene	ND (0.691)		8270D		1	08/08/13 18:43	CWH0106	CH30632
Hexachlorocyclopentadiene	ND (3.47)		8270D		1	08/08/13 18:43	CWH0106	CH30632
Indeno(1,2,3-cd)Pyrene	ND (0.691)		8270D		1	08/08/13 18:43	CWH0106	CH30632
Naphthalene	ND (0.691)		8270D		1	08/08/13 18:43	CWH0106	CH30632
Phenanthrene	ND (0.691)		8270D		1	08/08/13 18:43	CWH0106	CH30632

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-108T 0-0.5ft
Date Sampled: 08/06/13 10:28
Percent Solids: 24
Initial Volume: 30.4
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308104
ESS Laboratory Sample ID: 1308104-04
Sample Matrix: Solid
Units: mg/kg dry
Analyst: IBM
Prepared: 8/7/13 16:46

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Phenol	ND (0.691)		8270D		1	08/08/13 18:43	CWH0106	CH30632
Pyrene	**0.987** (0.691)		8270D		1	08/08/13 18:43	CWH0106	CH30632

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*50 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*74 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*53 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*60 %*		*30-130*
Surrogate: 2-Fluorophenol	*48 %*		*30-130*
Surrogate: Nitrobenzene-d5	*51 %*		*30-130*
Surrogate: Phenol-d6	*54 %*		*30-130*
Surrogate: p-Terphenyl-d14	*75 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-108T 0-0.5ft
Date Sampled: 08/06/13 10:28
Percent Solids: 24
Initial Volume: 15.1
Final Volume: 0.5
Extraction Method: 3541

ESS Laboratory Work Order: 1308104
ESS Laboratory Sample ID: 1308104-04
Sample Matrix: Solid
Units: mg/kg dry
Analyst: IBM
Prepared: 8/8/13 9:05

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	ND (0.174)		8270D		5	08/10/13 11:27	CWH0128	CH30811
Acenaphthene	ND (0.174)		8270D		5	08/10/13 11:27	CWH0128	CH30811
Acenaphthylene	ND (0.174)		8270D		5	08/10/13 11:27	CWH0128	CH30811
Anthracene	ND (0.174)		8270D		5	08/10/13 11:27	CWH0128	CH30811
Benzo(a)anthracene	**0.209** (0.174)		8270D		5	08/10/13 11:27	CWH0128	CH30811
Benzo(a)pyrene	**0.306** (0.174)		8270D		5	08/10/13 11:27	CWH0128	CH30811
Benzo(b)fluoranthene	**0.439** (0.174)		8270D		5	08/10/13 11:27	CWH0128	CH30811
Benzo(g,h,i)perylene	**0.272** (0.174)		8270D		5	08/10/13 11:27	CWH0128	CH30811
Benzo(k)fluoranthene	ND (0.174)		8270D		5	08/10/13 11:27	CWH0128	CH30811
Chrysene	**0.320** (0.174)		8270D		5	08/10/13 11:27	CWH0128	CH30811
Dibenzo(a,h)Anthracene	ND (0.174)		8270D		5	08/10/13 11:27	CWH0128	CH30811
Fluoranthene	**0.425** (0.174)		8270D		5	08/10/13 11:27	CWH0128	CH30811
Fluorene	ND (0.174)		8270D		5	08/10/13 11:27	CWH0128	CH30811
Indeno(1,2,3-cd)Pyrene	**0.286** (0.174)		8270D		5	08/10/13 11:27	CWH0128	CH30811
Naphthalene	ND (0.174)		8270D		5	08/10/13 11:27	CWH0128	CH30811
Phenanthrene	**0.174** (0.174)		8270D		5	08/10/13 11:27	CWH0128	CH30811
Pyrene	**0.446** (0.174)		8270D		5	08/10/13 11:27	CWH0128	CH30811

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*35 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*34 %*		*30-130*
Surrogate: Nitrobenzene-d5	*31 %*		*30-130*
Surrogate: p-Terphenyl-d14	*55 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-108T 0-0.5ft
Date Sampled: 08/06/13 10:28
Percent Solids: 24

ESS Laboratory Work Order: 1308104
ESS Laboratory Sample ID: 1308104-04
Sample Matrix: Solid

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**48000** (500)		TOC-LK		1	SUB	08/12/13 0:00	mg/kg	CH31340

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-108T 0-0.5ft
Date Sampled: 08/06/13 10:28
Percent Solids: 24
Initial Volume: 15.2
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1308104
ESS Laboratory Sample ID: 1308104-04
Sample Matrix: Solid
Units: mg/kg dry

Prepared: 8/8/13 11:00

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (104)		MADEP-EPH		1	IBM	08/09/13 1:54	CWH0117	CH30813
C19-C36 Aliphatics1	**189** (104)		MADEP-EPH		1	IBM	08/09/13 1:54	CWH0117	CH30813
C11-C22 Unadjusted Aromatics1	ND (104)		EPH8270		1	IBM	08/09/13 2:15	CWH0116	CH30813
C11-C22 Aromatics1,2	ND (104)		EPH8270			IBM	08/09/13 2:15		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*85 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*104 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*101 %*		*40-140*
Surrogate: O-Terphenyl	*91 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-108 2-4ft
Date Sampled: 08/01/13 11:01
Percent Solids: 29

ESS Laboratory Work Order: 1308104
ESS Laboratory Sample ID: 1308104-05
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (3.3)		6020A		50	JP	08/09/13 4:33	5.19	100	CH30730
Arsenic	**86.9** (3.3)		6010B		1	SVD	08/08/13 5:25	5.19	100	CH30730
Barium	**59.1** (3.3)		6010B		1	SVD	08/08/13 5:25	5.19	100	CH30730
Beryllium	**0.81** (0.14)		6010B		1	SVD	08/08/13 5:25	5.19	100	CH30730
Cadmium	**3.71** (0.66)		6010B		1	SVD	08/08/13 5:25	5.19	100	CH30730
Chromium	**121** (1.3)		6010B		1	SVD	08/08/13 5:25	5.19	100	CH30730
Lead	**363** (6.6)		6010B		1	SVD	08/08/13 5:25	5.19	100	CH30730
Mercury	**3.42** (0.318)		7471B		5	KJK	08/08/13 18:07	1.06	40	CH30732
Nickel	**27.8** (3.3)		6010B		1	SVD	08/08/13 5:25	5.19	100	CH30730
Selenium	**4.66** (3.30)		6020A		50	JP	08/09/13 4:33	5.19	100	CH30730
Silver	**3.28** (0.66)		6010B		1	SVD	08/08/13 5:25	5.19	100	CH30730
Thallium	ND (3.30)		6020A		50	JP	08/09/13 4:33	5.19	100	CH30730
Vanadium	**186** (1.3)		6010B		1	SVD	08/08/13 5:25	5.19	100	CH30730
Zinc	**482** (3.3)		6010B		1	SVD	08/08/13 5:25	5.19	100	CH30730

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-108 2-4ft
Date Sampled: 08/01/13 11:01
Percent Solids: 29
Initial Volume: 19.8
Final Volume: 5
Extraction Method: 3540

ESS Laboratory Work Order: 1308104
ESS Laboratory Sample ID: 1308104-05
Sample Matrix: Solid
Units: mg/kg dry
Analyst: TJ
Prepared: 8/8/13 17:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0860)		8082A		1	08/12/13 14:36		CH30812
Aroclor 1221	ND (0.0860)		8082A		1	08/12/13 14:36		CH30812
Aroclor 1232	ND (0.0860)		8082A		1	08/12/13 14:36		CH30812
Aroclor 1242	ND (0.0860)		8082A		1	08/12/13 14:36		CH30812
Aroclor 1248	**2.45** (0.430)		8082A		5	08/15/13 11:00		CH30812
Aroclor 1254	**3.06** (0.430)		8082A		5	08/15/13 11:00		CH30812
Aroclor 1260	**1.26** (0.0860)		8082A		1	08/12/13 14:36		CH30812
Aroclor 1262	ND (0.0860)		8082A		1	08/12/13 14:36		CH30812
Aroclor 1268	ND (0.0860)		8082A		1	08/12/13 14:36		CH30812

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*94 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*114 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*82 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*75 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-108 2-4ft
Date Sampled: 08/01/13 11:01
Percent Solids: 29
Initial Volume: 30.3
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308104
ESS Laboratory Sample ID: 1308104-05
Sample Matrix: Solid
Units: mg/kg dry
Analyst: IBM
Prepared: 8/7/13 16:46

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.561)		8270D		1	08/08/13 19:17	CWH0106	CH30632
1,2-Dichlorobenzene	ND (0.561)		8270D		1	08/08/13 19:17	CWH0106	CH30632
1,3-Dichlorobenzene	ND (0.561)		8270D		1	08/08/13 19:17	CWH0106	CH30632
1,4-Dichlorobenzene	ND (0.561)		8270D		1	08/08/13 19:17	CWH0106	CH30632
2-Methylnaphthalene	ND (0.561)		8270D		1	08/08/13 19:17	CWH0106	CH30632
2-Methylphenol	ND (0.561)		8270D		1	08/08/13 19:17	CWH0106	CH30632
Acenaphthene	ND (0.561)		8270D		1	08/08/13 19:17	CWH0106	CH30632
Acenaphthylene	ND (0.561)		8270D		1	08/08/13 19:17	CWH0106	CH30632
Anthracene	ND (0.561)		8270D		1	08/08/13 19:17	CWH0106	CH30632
Benzo(a)anthracene	ND (0.561)		8270D		1	08/08/13 19:17	CWH0106	CH30632
Benzo(a)pyrene	**0.552** (0.281)		8270D		1	08/08/13 19:17	CWH0106	CH30632
Benzo(b)fluoranthene	**0.701** (0.561)		8270D		1	08/08/13 19:17	CWH0106	CH30632
Benzo(g,h,i)perylene	ND (0.561)		8270D		1	08/08/13 19:17	CWH0106	CH30632
Benzo(k)fluoranthene	ND (0.561)		8270D		1	08/08/13 19:17	CWH0106	CH30632
bis(2-Ethylhexyl)phthalate	**44.5** (5.61)		8270D		10	08/13/13 19:18	CWH0106	CH30632
Butylbenzylphthalate	ND (0.561)		8270D		1	08/08/13 19:17	CWH0106	CH30632
Carbazole	ND (0.561)		8270D		1	08/08/13 19:17	CWH0106	CH30632
Chrysene	**0.629** (0.281)		8270D		1	08/08/13 19:17	CWH0106	CH30632
Dibenzo(a,h)Anthracene	ND (0.281)		8270D		1	08/08/13 19:17	CWH0106	CH30632
Dibenzofuran	ND (0.561)		8270D		1	08/08/13 19:17	CWH0106	CH30632
Diethylphthalate	ND (0.561)		8270D		1	08/08/13 19:17	CWH0106	CH30632
Dimethylphthalate	ND (0.561)		8270D		1	08/08/13 19:17	CWH0106	CH30632
Di-n-butylphthalate	ND (0.561)		8270D		1	08/08/13 19:17	CWH0106	CH30632
Di-n-octylphthalate	**1.13** (0.561)		8270D		1	08/08/13 19:17	CWH0106	CH30632
Fluoranthene	**1.21** (0.561)		8270D		1	08/08/13 19:17	CWH0106	CH30632
Fluorene	ND (0.561)		8270D		1	08/08/13 19:17	CWH0106	CH30632
Hexachlorobenzene	ND (0.561)		8270D		1	08/08/13 19:17	CWH0106	CH30632
Hexachlorocyclopentadiene	ND (2.81)		8270D		1	08/08/13 19:17	CWH0106	CH30632
Indeno(1,2,3-cd)Pyrene	ND (0.561)		8270D		1	08/08/13 19:17	CWH0106	CH30632
Naphthalene	ND (0.561)		8270D		1	08/08/13 19:17	CWH0106	CH30632
Phenanthrene	ND (0.561)		8270D		1	08/08/13 19:17	CWH0106	CH30632

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-108 2-4ft
Date Sampled: 08/01/13 11:01
Percent Solids: 29
Initial Volume: 30.3
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308104
ESS Laboratory Sample ID: 1308104-05
Sample Matrix: Solid
Units: mg/kg dry
Analyst: IBM
Prepared: 8/7/13 16:46

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Phenol	ND (0.561)		8270D		1	08/08/13 19:17	CWH0106	CH30632
Pyrene	**1.01** (0.561)		8270D		1	08/08/13 19:17	CWH0106	CH30632

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*66 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*81 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*70 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*72 %*		*30-130*
Surrogate: 2-Fluorophenol	*64 %*		*30-130*
Surrogate: Nitrobenzene-d5	*69 %*		*30-130*
Surrogate: Phenol-d6	*70 %*		*30-130*
Surrogate: p-Terphenyl-d14	*84 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-108 2-4ft
Date Sampled: 08/01/13 11:01
Percent Solids: 29
Initial Volume: 15.2
Final Volume: 0.5
Extraction Method: 3541

ESS Laboratory Work Order: 1308104
ESS Laboratory Sample ID: 1308104-05
Sample Matrix: Solid
Units: mg/kg dry
Analyst: IBM
Prepared: 8/8/13 9:05

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	ND (0.028)		8270D		1	08/10/13 1:40	CWH0104	CH30811
Acenaphthene	ND (0.028)		8270D		1	08/10/13 1:40	CWH0104	CH30811
Acenaphthylene	**0.054** (0.028)		8270D		1	08/10/13 1:40	CWH0104	CH30811
Anthracene	**0.050** (0.028)		8270D		1	08/10/13 1:40	CWH0104	CH30811
Benzo(a)anthracene	**0.115** (0.028)		8270D		1	08/10/13 1:40	CWH0104	CH30811
Benzo(a)pyrene	**0.160** (0.028)		8270D		1	08/10/13 1:40	CWH0104	CH30811
Benzo(b)fluoranthene	**0.216** (0.028)		8270D		1	08/10/13 1:40	CWH0104	CH30811
Benzo(g,h,i)perylene	**0.157** (0.028)		8270D		1	08/10/13 1:40	CWH0104	CH30811
Benzo(k)fluoranthene	**0.082** (0.028)		8270D		1	08/10/13 1:40	CWH0104	CH30811
Chrysene	**0.165** (0.028)		8270D		1	08/10/13 1:40	CWH0104	CH30811
Dibenzo(a,h)Anthracene	**0.038** (0.028)		8270D		1	08/10/13 1:40	CWH0104	CH30811
Fluoranthene	**0.234** (0.028)		8270D		1	08/10/13 1:40	CWH0104	CH30811
Fluorene	ND (0.028)		8270D		1	08/10/13 1:40	CWH0104	CH30811
Indeno(1,2,3-cd)Pyrene	**0.162** (0.028)		8270D		1	08/10/13 1:40	CWH0104	CH30811
Naphthalene	**0.046** (0.028)		8270D		1	08/10/13 1:40	CWH0104	CH30811
Phenanthrene	**0.095** (0.028)		8270D		1	08/10/13 1:40	CWH0104	CH30811
Pyrene	**0.254** (0.028)		8270D		1	08/10/13 1:40	CWH0104	CH30811

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*36 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*42 %*		*30-130*
Surrogate: Nitrobenzene-d5	*39 %*		*30-130*
Surrogate: p-Terphenyl-d14	*74 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-108 2-4ft
Date Sampled: 08/01/13 11:01
Percent Solids: 29

ESS Laboratory Work Order: 1308104
ESS Laboratory Sample ID: 1308104-05
Sample Matrix: Solid

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**59600** (500)		TOC-LK		1	SUB	08/12/13 0:00	mg/kg	CH31340

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-108 2-4ft
Date Sampled: 08/01/13 11:01
Percent Solids: 29
Initial Volume: 14.6
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1308104
ESS Laboratory Sample ID: 1308104-05
Sample Matrix: Solid
Units: mg/kg dry

Prepared: 8/8/13 11:00

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	**142** (87.4)		MADEP-EPH		1	VSC	08/12/13 21:13	CWH0163	CH30813
C19-C36 Aliphatics1	**937** (87.4)		MADEP-EPH		1	VSC	08/12/13 21:13	CWH0163	CH30813
C11-C22 Unadjusted Aromatics1	**445** (87.4)		EPH8270		1	IBM	08/09/13 3:02	CWH0116	CH30813
C11-C22 Aromatics1,2	**445** (87.4)		EPH8270			IBM	08/09/13 3:02		[CALC]

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1-Chlorooctadecane	*94 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*113 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*106 %*		*40-140*
Surrogate: O-Terphenyl	*93 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-108 4-6ft
Date Sampled: 08/01/13 11:01
Percent Solids: 23

ESS Laboratory Work Order: 1308104
ESS Laboratory Sample ID: 1308104-06
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (4.3)		6020A		50	JP	08/09/13 4:51	5.18	100	CH30730
Arsenic	**89.7** (4.3)		6010B		1	SVD	08/08/13 5:30	5.18	100	CH30730
Barium	**51.8** (4.3)		6010B		1	SVD	08/08/13 5:30	5.18	100	CH30730
Beryllium	**0.71** (0.18)		6010B		1	SVD	08/08/13 5:30	5.18	100	CH30730
Cadmium	**2.49** (0.86)		6010B		1	SVD	08/08/13 5:30	5.18	100	CH30730
Chromium	**162** (1.7)		6010B		1	SVD	08/08/13 5:30	5.18	100	CH30730
Lead	**257** (8.6)		6010B		1	SVD	08/08/13 5:30	5.18	100	CH30730
Mercury	**2.44** (0.357)		7471B		5	KJK	08/08/13 18:10	1.23	40	CH30732
Nickel	**19.3** (4.3)		6010B		1	SVD	08/08/13 5:30	5.18	100	CH30730
Selenium	ND (4.30)		6020A		50	JP	08/09/13 4:51	5.18	100	CH30730
Silver	**2.44** (0.86)		6010B		1	SVD	08/08/13 5:30	5.18	100	CH30730
Thallium	ND (4.30)		6020A		50	JP	08/09/13 4:51	5.18	100	CH30730
Vanadium	**183** (1.7)		6010B		1	SVD	08/08/13 5:30	5.18	100	CH30730
Zinc	**302** (4.3)		6010B		1	SVD	08/08/13 5:30	5.18	100	CH30730

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-108 4-6ft
Date Sampled: 08/01/13 11:01
Percent Solids: 23

ESS Laboratory Work Order: 1308104
ESS Laboratory Sample ID: 1308104-06
Sample Matrix: Solid

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**54800** (500)		TOC-LK		1	SUB	08/12/13 0:00	mg/kg	CH31340

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-108 8-10ft
Date Sampled: 08/01/13 11:01
Percent Solids: 19

ESS Laboratory Work Order: 1308104
ESS Laboratory Sample ID: 1308104-07
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (5.2)		6020A		50	JP	08/09/13 4:57	5.14	100	CH30730
Arsenic	**135** (5.2)		6010B		1	SVD	08/08/13 5:44	5.14	100	CH30730
Barium	**68.4** (5.2)		6010B		1	SVD	08/08/13 5:44	5.14	100	CH30730
Beryllium	**0.91** (0.22)		6010B		1	SVD	08/08/13 5:44	5.14	100	CH30730
Cadmium	**4.12** (1.05)		6010B		1	SVD	08/08/13 5:44	5.14	100	CH30730
Chromium	**168** (2.1)		6010B		1	SVD	08/08/13 5:44	5.14	100	CH30730
Lead	**328** (10.5)		6010B		1	SVD	08/08/13 5:44	5.14	100	CH30730
Mercury	**4.05** (0.415)		7471B		5	KJK	08/08/13 18:13	1.28	40	CH30732
Nickel	**18.8** (5.2)		6010B		1	SVD	08/08/13 5:44	5.14	100	CH30730
Selenium	ND (5.25)		6020A		50	JP	08/09/13 4:57	5.14	100	CH30730
Silver	**3.26** (1.05)		6010B		1	SVD	08/08/13 5:44	5.14	100	CH30730
Thallium	ND (5.25)		6020A		50	JP	08/09/13 4:57	5.14	100	CH30730
Vanadium	**159** (2.1)		6010B		1	SVD	08/08/13 5:44	5.14	100	CH30730
Zinc	**439** (5.2)		6010B		1	SVD	08/08/13 5:44	5.14	100	CH30730

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-109T 0-0.5ft
Date Sampled: 08/06/13 09:28
Percent Solids: 35

ESS Laboratory Work Order: 1308104
ESS Laboratory Sample ID: 1308104-08
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (2.7)		6020A		50	JP	08/09/13 5:03	5.28	100	CH30730
Arsenic	**75.7** (2.7)		6010B		1	SVD	08/08/13 5:49	5.28	100	CH30730
Barium	**45.9** (2.7)		6010B		1	SVD	08/08/13 5:49	5.28	100	CH30730
Beryllium	**0.57** (0.11)		6010B		1	SVD	08/08/13 5:49	5.28	100	CH30730
Cadmium	**1.68** (0.55)		6010B		1	SVD	08/08/13 5:49	5.28	100	CH30730
Chromium	**62.0** (1.1)		6010B		1	SVD	08/08/13 5:49	5.28	100	CH30730
Lead	**209** (5.5)		6010B		1	SVD	08/08/13 5:49	5.28	100	CH30730
Mercury	**1.43** (0.207)		7471B		5	KJK	08/08/13 18:21	1.38	40	CH30732
Nickel	**22.5** (2.7)		6010B		1	SVD	08/08/13 5:49	5.28	100	CH30730
Selenium	**5.44** (2.75)		6020A		50	JP	08/09/13 5:03	5.28	100	CH30730
Silver	**1.59** (0.55)		6010B		1	SVD	08/08/13 5:49	5.28	100	CH30730
Thallium	ND (2.75)		6020A		50	JP	08/09/13 5:03	5.28	100	CH30730
Vanadium	**84.5** (1.1)		6010B		1	SVD	08/08/13 5:49	5.28	100	CH30730
Zinc	**279** (2.7)		6010B		1	SVD	08/08/13 5:49	5.28	100	CH30730

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-109 0.5-2.5ft
Date Sampled: 08/02/13 08:01
Percent Solids: 64

ESS Laboratory Work Order: 1308104
ESS Laboratory Sample ID: 1308104-09
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	**2.5** (1.4)		6020A		50	JP	08/09/13 5:09	5.46	100	CH30730
Arsenic	**229** (7.2)		6010B		5	SVD	08/08/13 18:41	5.46	100	CH30730
Barium	**40.8** (7.2)		6010B		5	SVD	08/08/13 18:41	5.46	100	CH30730
Beryllium	ND (0.30)		6010B		5	SVD	08/08/13 18:41	5.46	100	CH30730
Cadmium	**1.52** (1.45)		6010B		5	SVD	08/08/13 18:41	5.46	100	CH30730
Chromium	**24.5** (2.9)		6010B		5	SVD	08/08/13 18:41	5.46	100	CH30730
Lead	**394** (14.4)		6010B		5	SVD	08/08/13 18:41	5.46	100	CH30730
Mercury	**3.99** (0.435)		7471B		20	KJK	08/08/13 20:14	1.43	40	CH30732
Nickel	**13.5** (7.2)		6010B		5	SVD	08/08/13 18:41	5.46	100	CH30730
Selenium	**104** (1.45)		6020A		50	JP	08/09/13 5:09	5.46	100	CH30730
Silver	**1.46** (1.45)		6010B		5	SVD	08/08/13 18:41	5.46	100	CH30730
Thallium	ND (1.45)		6020A		50	JP	08/09/13 5:09	5.46	100	CH30730
Vanadium	**25.0** (2.9)		6010B		5	SVD	08/08/13 18:41	5.46	100	CH30730
Zinc	**169** (7.2)		6010B		5	SVD	08/08/13 18:41	5.46	100	CH30730

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-109 0.5-2.5ft
Date Sampled: 08/02/13 08:01
Percent Solids: 64
Initial Volume: 20.2
Final Volume: 5
Extraction Method: 3540

ESS Laboratory Work Order: 1308104
ESS Laboratory Sample ID: 1308104-09
Sample Matrix: Solid
Units: mg/kg dry
Analyst: TJ
Prepared: 8/8/13 17:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0389)		8082A		1	08/13/13 15:52		CH30812
Aroclor 1221	ND (0.0389)		8082A		1	08/13/13 15:52		CH30812
Aroclor 1232	ND (0.0389)		8082A		1	08/13/13 15:52		CH30812
Aroclor 1242	ND (0.0389)		8082A		1	08/13/13 15:52		CH30812
Aroclor 1248	ND (0.0389)		8082A		1	08/13/13 15:52		CH30812
Aroclor 1254	ND (0.0389)		8082A		1	08/13/13 15:52		CH30812
Aroclor 1260	ND (0.0389)		8082A		1	08/13/13 15:52		CH30812
Aroclor 1262	ND (0.0389)		8082A		1	08/13/13 15:52		CH30812
Aroclor 1268	ND (0.0389)		8082A		1	08/13/13 15:52		CH30812

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*84 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*79 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*49 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*45 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-109 0.5-2.5ft
Date Sampled: 08/02/13 08:01
Percent Solids: 64
Initial Volume: 30.8
Final Volume: 3
Extraction Method: 3546

ESS Laboratory Work Order: 1308104
ESS Laboratory Sample ID: 1308104-09
Sample Matrix: Solid
Units: mg/kg dry
Analyst: IBM
Prepared: 8/7/13 16:46

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (1.53)		8270D		1	08/08/13 19:50	CWH0106	CH30632
1,2-Dichlorobenzene	ND (1.53)		8270D		1	08/08/13 19:50	CWH0106	CH30632
1,3-Dichlorobenzene	ND (1.53)		8270D		1	08/08/13 19:50	CWH0106	CH30632
1,4-Dichlorobenzene	ND (1.53)		8270D		1	08/08/13 19:50	CWH0106	CH30632
2-Methylnaphthalene	ND (1.53)		8270D		1	08/08/13 19:50	CWH0106	CH30632
2-Methylphenol	ND (1.53)		8270D		1	08/08/13 19:50	CWH0106	CH30632
Acenaphthene	ND (1.53)		8270D		1	08/08/13 19:50	CWH0106	CH30632
Acenaphthylene	ND (1.53)		8270D		1	08/08/13 19:50	CWH0106	CH30632
Anthracene	ND (1.53)		8270D		1	08/08/13 19:50	CWH0106	CH30632
Benzo(a)anthracene	ND (1.53)		8270D		1	08/08/13 19:50	CWH0106	CH30632
Benzo(a)pyrene	ND (0.767)		8270D		1	08/08/13 19:50	CWH0106	CH30632
Benzo(b)fluoranthene	ND (1.53)		8270D		1	08/08/13 19:50	CWH0106	CH30632
Benzo(g,h,i)perylene	ND (1.53)		8270D		1	08/08/13 19:50	CWH0106	CH30632
Benzo(k)fluoranthene	ND (1.53)		8270D		1	08/08/13 19:50	CWH0106	CH30632
bis(2-Ethylhexyl)phthalate	ND (1.53)		8270D		1	08/08/13 19:50	CWH0106	CH30632
Butylbenzylphthalate	ND (1.53)		8270D		1	08/08/13 19:50	CWH0106	CH30632
Carbazole	ND (1.53)		8270D		1	08/08/13 19:50	CWH0106	CH30632
Chrysene	**1.88** (0.767)		8270D		1	08/08/13 19:50	CWH0106	CH30632
Dibenzo(a,h)Anthracene	ND (0.767)		8270D		1	08/08/13 19:50	CWH0106	CH30632
Dibenzofuran	ND (1.53)		8270D		1	08/08/13 19:50	CWH0106	CH30632
Diethylphthalate	ND (1.53)		8270D		1	08/08/13 19:50	CWH0106	CH30632
Dimethylphthalate	ND (1.53)		8270D		1	08/08/13 19:50	CWH0106	CH30632
Di-n-butylphthalate	ND (1.53)		8270D		1	08/08/13 19:50	CWH0106	CH30632
Di-n-octylphthalate	ND (1.53)		8270D		1	08/08/13 19:50	CWH0106	CH30632
Fluoranthene	**4.91** (1.53)		8270D		1	08/08/13 19:50	CWH0106	CH30632
Fluorene	ND (1.53)		8270D		1	08/08/13 19:50	CWH0106	CH30632
Hexachlorobenzene	ND (1.53)		8270D		1	08/08/13 19:50	CWH0106	CH30632
Hexachlorocyclopentadiene	ND (7.67)		8270D		1	08/08/13 19:50	CWH0106	CH30632
Indeno(1,2,3-cd)Pyrene	ND (1.53)		8270D		1	08/08/13 19:50	CWH0106	CH30632
Naphthalene	ND (1.53)		8270D		1	08/08/13 19:50	CWH0106	CH30632
Phenanthrene	ND (1.53)		8270D		1	08/08/13 19:50	CWH0106	CH30632

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-109 0.5-2.5ft
Date Sampled: 08/02/13 08:01
Percent Solids: 64
Initial Volume: 30.8
Final Volume: 3
Extraction Method: 3546

ESS Laboratory Work Order: 1308104
ESS Laboratory Sample ID: 1308104-09
Sample Matrix: Solid
Units: mg/kg dry
Analyst: IBM
Prepared: 8/7/13 16:46

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Phenol	ND (1.53)		8270D		1	08/08/13 19:50	CWH0106	CH30632
Pyrene	**5.34** (1.53)		8270D		1	08/08/13 19:50	CWH0106	CH30632

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*58 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*80 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*60 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*64 %*		*30-130*
Surrogate: 2-Fluorophenol	*55 %*		*30-130*
Surrogate: Nitrobenzene-d5	*58 %*		*30-130*
Surrogate: Phenol-d6	*63 %*		*30-130*
Surrogate: p-Terphenyl-d14	*71 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-109 0.5-2.5ft
Date Sampled: 08/02/13 08:01
Percent Solids: 64
Initial Volume: 15.4
Final Volume: 2
Extraction Method: 3541

ESS Laboratory Work Order: 1308104
ESS Laboratory Sample ID: 1308104-09
Sample Matrix: Solid
Units: mg/kg dry
Analyst: IBM
Prepared: 8/13/13 13:30

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	**0.114** (0.102)		8270D		1	08/15/13 12:19	CWH0207	CH31330
Acenaphthene	**0.120** (0.102)		8270D		1	08/15/13 12:19	CWH0207	CH31330
Acenaphthylene	**0.204** (0.102)		8270D		1	08/15/13 12:19	CWH0207	CH31330
Anthracene	**0.741** (0.102)		8270D		1	08/15/13 12:19	CWH0207	CH31330
Benzo(a)anthracene	**1.12** (0.102)		8270D		1	08/15/13 12:19	CWH0207	CH31330
Benzo(a)pyrene	**0.563** (0.102)		8270D		1	08/15/13 12:19	CWH0207	CH31330
Benzo(b)fluoranthene	**1.35** (0.102)		8270D		1	08/15/13 12:19	CWH0207	CH31330
Benzo(g,h,i)perylene	**0.300** (0.102)		8270D		1	08/15/13 12:19	CWH0207	CH31330
Benzo(k)fluoranthene	**1.42** (0.102)		8270D		1	08/15/13 12:19	CWH0207	CH31330
Chrysene	**1.18** (0.102)		8270D		1	08/15/13 12:19	CWH0207	CH31330
Dibenzo(a,h)Anthracene	ND (0.102)		8270D		1	08/15/13 12:19	CWH0207	CH31330
Fluoranthene	ND (0.102)		8270D		1	08/15/13 12:19	CWH0207	CH31330
Fluorene	**0.163** (0.102)		8270D		1	08/15/13 12:19	CWH0207	CH31330
Indeno(1,2,3-cd)Pyrene	**0.369** (0.102)		8270D		1	08/15/13 12:19	CWH0207	CH31330
Naphthalene	**0.496** (0.102)		8270D		1	08/15/13 12:19	CWH0207	CH31330
Phenanthrene	**0.733** (0.102)		8270D		1	08/15/13 12:19	CWH0207	CH31330
Pyrene	**2.41** (0.102)		8270D		1	08/15/13 12:19	CWH0207	CH31330

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1,2-Dichlorobenzene-d4	*42 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*54 %*		*30-130*
Surrogate: Nitrobenzene-d5	*46 %*		*30-130*
Surrogate: p-Terphenyl-d14	*102 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-109 0.5-2.5ft
Date Sampled: 08/02/13 08:01
Percent Solids: 64

ESS Laboratory Work Order: 1308104
ESS Laboratory Sample ID: 1308104-09
Sample Matrix: Solid

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**75700** (500)		TOC-LK		1	SUB	08/12/13 0:00	mg/kg	CH31340

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-109 0.5-2.5ft
Date Sampled: 08/02/13 08:01
Percent Solids: 64
Initial Volume: 15.4
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1308104
ESS Laboratory Sample ID: 1308104-09
Sample Matrix: Solid
Units: mg/kg dry

Prepared: 8/8/13 11:00

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	**262** (38.3)		MADEP-EPH		1	IBM	08/09/13 3:35	CWH0117	CH30813
C19-C36 Aliphatics1	**1570** (38.3)		MADEP-EPH		1	IBM	08/09/13 3:35	CWH0117	CH30813
C11-C22 Unadjusted Aromatics1	**2480** (765)		EPH8270		20	SEP	08/10/13 19:18	CWH0135	CH30813
C11-C22 Aromatics1,2	**2480** (765)		EPH8270			SEP	08/10/13 19:18		[CALC]

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1-Chlorooctadecane	*67 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*112 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*49 %*		*40-140*
Surrogate: O-Terphenyl	*46 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-110B 0-0.5ft
Date Sampled: 08/05/13 09:55
Percent Solids: 78

ESS Laboratory Work Order: 1308104
ESS Laboratory Sample ID: 1308104-10
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (1.3)		6020A		50	JP	08/09/13 5:15	5.17	100	CH30730
Arsenic	**28.5** (1.2)		6010B		1	SVD	08/08/13 6:00	5.17	100	CH30730
Barium	**14.1** (1.2)		6010B		1	SVD	08/08/13 6:00	5.17	100	CH30730
Beryllium	**0.19** (0.05)		6010B		1	SVD	08/08/13 6:00	5.17	100	CH30730
Cadmium	**0.67** (0.25)		6010B		1	SVD	08/08/13 6:00	5.17	100	CH30730
Chromium	**19.0** (0.5)		6010B		1	SVD	08/08/13 6:00	5.17	100	CH30730
Lead	**208** (2.5)		6010B		1	SVD	08/08/13 6:00	5.17	100	CH30730
Mercury	**1.53** (0.105)		7471B		5	KJK	08/08/13 18:26	1.22	40	CH30732
Nickel	**6.2** (1.2)		6010B		1	SVD	08/08/13 6:00	5.17	100	CH30730
Selenium	**6.23** (1.25)		6020A		50	JP	08/09/13 5:15	5.17	100	CH30730
Silver	**0.32** (0.25)		6010B		1	SVD	08/08/13 6:00	5.17	100	CH30730
Thallium	ND (1.25)		6020A		50	JP	08/09/13 5:15	5.17	100	CH30730
Vanadium	**14.6** (0.5)		6010B		1	SVD	08/08/13 6:00	5.17	100	CH30730
Zinc	**173** (1.2)		6010B		1	SVD	08/08/13 6:00	5.17	100	CH30730

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-110B 0-0.5ft
Date Sampled: 08/05/13 09:55
Percent Solids: 78

ESS Laboratory Work Order: 1308104
ESS Laboratory Sample ID: 1308104-10
Sample Matrix: Solid

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**19700** (500)		TOC-LK		1	SUB	08/12/13 0:00	mg/kg	CH31340

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-110B 2-4ft
Date Sampled: 08/05/13 09:55
Percent Solids: 62

ESS Laboratory Work Order: 1308104
ESS Laboratory Sample ID: 1308104-11
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (1.6)		6020A		50	JP	08/09/13 5:45	5.03	100	CH30730
Arsenic	**2.5** (1.6)		6010B		1	SVD	08/08/13 6:26	5.03	100	CH30730
Barium	**16.7** (1.6)		6010B		1	SVD	08/08/13 6:26	5.03	100	CH30730
Beryllium	**0.35** (0.07)		6010B		1	SVD	08/08/13 6:26	5.03	100	CH30730
Cadmium	**0.39** (0.32)		6010B		1	SVD	08/08/13 6:26	5.03	100	CH30730
Chromium	**17.2** (0.6)		6010B		1	SVD	08/08/13 6:26	5.03	100	CH30730
Lead	**12.8** (3.2)		6010B		1	SVD	08/08/13 6:26	5.03	100	CH30730
Mercury	**0.090** (0.045)		7471B		2	KJK	08/08/13 20:17	1.43	40	CH30732
Nickel	**10.3** (1.6)		6010B		1	SVD	08/08/13 6:26	5.03	100	CH30730
Selenium	ND (1.61)		6020A		50	JP	08/09/13 5:45	5.03	100	CH30730
Silver	ND (0.32)		6010B		1	SVD	08/08/13 6:26	5.03	100	CH30730
Thallium	ND (1.61)		6020A		50	JP	08/09/13 5:45	5.03	100	CH30730
Vanadium	**23.9** (0.6)		6010B		1	SVD	08/08/13 6:26	5.03	100	CH30730
Zinc	**28.8** (1.6)		6010B		1	SVD	08/08/13 6:26	5.03	100	CH30730

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-111 0-0.5ft
Date Sampled: 08/01/13 11:21
Percent Solids: 34

ESS Laboratory Work Order: 1308104
ESS Laboratory Sample ID: 1308104-12
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (2.7)		6020A		50	JP	08/09/13 6:03	5.36	100	CH30730
Arsenic	**28.8** (2.7)		6010B		1	SVD	08/08/13 6:31	5.36	100	CH30730
Barium	**50.5** (2.7)		6010B		1	SVD	08/08/13 6:31	5.36	100	CH30730
Beryllium	**0.53** (0.11)		6010B		1	SVD	08/08/13 6:31	5.36	100	CH30730
Cadmium	**1.45** (0.54)		6010B		1	SVD	08/08/13 6:31	5.36	100	CH30730
Chromium	**63.7** (1.1)		6010B		1	SVD	08/08/13 6:31	5.36	100	CH30730
Lead	**226** (5.4)		6010B		1	SVD	08/08/13 6:31	5.36	100	CH30730
Mercury	**1.37** (0.254)		7471B		5	KJK	08/08/13 18:42	1.13	40	CH30732
Nickel	**18.9** (2.7)		6010B		1	SVD	08/08/13 6:31	5.36	100	CH30730
Selenium	ND (2.72)		6020A		50	JP	08/09/13 6:03	5.36	100	CH30730
Silver	**1.59** (0.54)		6010B		1	SVD	08/08/13 6:31	5.36	100	CH30730
Thallium	ND (2.72)		6020A		50	JP	08/09/13 6:03	5.36	100	CH30730
Vanadium	**62.4** (1.1)		6010B		1	SVD	08/08/13 6:31	5.36	100	CH30730
Zinc	**279** (2.7)		6010B		1	SVD	08/08/13 6:31	5.36	100	CH30730

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-111 2-4ft
Date Sampled: 08/01/13 11:21
Percent Solids: 23

ESS Laboratory Work Order: 1308104
ESS Laboratory Sample ID: 1308104-13
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (4.4)		6020A		50	JP	08/09/13 6:09	5.01	100	CH30730
Arsenic	**77.6** (4.4)		6010B		1	SVD	08/08/13 6:45	5.01	100	CH30730
Barium	**49.1** (4.4)		6010B		1	SVD	08/08/13 6:45	5.01	100	CH30730
Beryllium	**0.52** (0.19)		6010B		1	SVD	08/08/13 6:45	5.01	100	CH30730
Cadmium	**2.46** (0.89)		6010B		1	SVD	08/08/13 6:45	5.01	100	CH30730
Chromium	**107** (1.8)		6010B		1	SVD	08/08/13 6:45	5.01	100	CH30730
Lead	**190** (8.8)		6010B		1	SVD	08/08/13 6:45	5.01	100	CH30730
Mercury	**1.34** (0.343)		7471B		5	KJK	08/08/13 18:45	1.28	40	CH30732
Nickel	**11.5** (4.4)		6010B		1	SVD	08/08/13 6:45	5.01	100	CH30730
Selenium	ND (4.44)		6020A		50	JP	08/09/13 6:09	5.01	100	CH30730
Silver	**1.49** (0.89)		6010B		1	SVD	08/08/13 6:45	5.01	100	CH30730
Thallium	ND (4.44)		6020A		50	JP	08/09/13 6:09	5.01	100	CH30730
Vanadium	**118** (1.8)		6010B		1	SVD	08/08/13 6:45	5.01	100	CH30730
Zinc	**209** (4.4)		6010B		1	SVD	08/08/13 6:45	5.01	100	CH30730

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-111 7-8ft
Date Sampled: 08/01/13 11:21
Percent Solids: 23

ESS Laboratory Work Order: 1308104
ESS Laboratory Sample ID: 1308104-14
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (4.3)		6020A		50	JP	08/09/13 6:15	5.05	100	CH30730
Arsenic	**9.5** (4.3)		6010B		1	SVD	08/08/13 6:51	5.05	100	CH30730
Barium	**38.1** (4.3)		6010B		1	SVD	08/08/13 6:51	5.05	100	CH30730
Beryllium	**0.66** (0.18)		6010B		1	SVD	08/08/13 6:51	5.05	100	CH30730
Cadmium	ND (0.86)		6010B		1	SVD	08/08/13 6:51	5.05	100	CH30730
Chromium	**38.7** (1.7)		6010B		1	SVD	08/08/13 6:51	5.05	100	CH30730
Lead	**32.4** (8.6)		6010B		1	SVD	08/08/13 6:51	5.05	100	CH30730
Mercury	ND (0.083)		7471B		1	KJK	08/08/13 20:20	1.03	40	CH30732
Nickel	**20.6** (4.3)		6010B		1	SVD	08/08/13 6:51	5.05	100	CH30730
Selenium	ND (4.31)		6020A		50	JP	08/09/13 6:15	5.05	100	CH30730
Silver	ND (0.86)		6010B		1	SVD	08/08/13 6:51	5.05	100	CH30730
Thallium	ND (4.31)		6020A		50	JP	08/09/13 6:15	5.05	100	CH30730
Vanadium	**46.7** (1.7)		6010B		1	SVD	08/08/13 6:51	5.05	100	CH30730
Zinc	**81.6** (4.3)		6010B		1	SVD	08/08/13 6:51	5.05	100	CH30730

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-111 7-8ft
Date Sampled: 08/01/13 11:21
Percent Solids: 23
Initial Volume: 20.3
Final Volume: 5
Extraction Method: 3540

ESS Laboratory Work Order: 1308104
ESS Laboratory Sample ID: 1308104-14
Sample Matrix: Solid
Units: mg/kg dry
Analyst: TJ
Prepared: 8/8/13 17:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.107)		8082A		1	08/10/13 21:10		CH30812
Aroclor 1221	ND (0.107)		8082A		1	08/10/13 21:10		CH30812
Aroclor 1232	ND (0.107)		8082A		1	08/10/13 21:10		CH30812
Aroclor 1242	ND (0.107)		8082A		1	08/10/13 21:10		CH30812
Aroclor 1248	ND (0.107)		8082A		1	08/10/13 21:10		CH30812
Aroclor 1254	ND (0.107)		8082A		1	08/10/13 21:10		CH30812
Aroclor 1260	ND (0.107)		8082A		1	08/10/13 21:10		CH30812
Aroclor 1262	ND (0.107)		8082A		1	08/10/13 21:10		CH30812
Aroclor 1268	ND (0.107)		8082A		1	08/10/13 21:10		CH30812

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*104 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*74 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*80 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*68 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-111 7-8ft
Date Sampled: 08/01/13 11:21
Percent Solids: 23
Initial Volume: 30.1
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308104
ESS Laboratory Sample ID: 1308104-14
Sample Matrix: Solid
Units: mg/kg dry
Analyst: IBM
Prepared: 8/7/13 16:46

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.718)		8270D		1	08/08/13 20:24	CWH0106	CH30632
1,2-Dichlorobenzene	ND (0.718)		8270D		1	08/08/13 20:24	CWH0106	CH30632
1,3-Dichlorobenzene	ND (0.718)		8270D		1	08/08/13 20:24	CWH0106	CH30632
1,4-Dichlorobenzene	ND (0.718)		8270D		1	08/08/13 20:24	CWH0106	CH30632
2-Methylnaphthalene	ND (0.718)		8270D		1	08/08/13 20:24	CWH0106	CH30632
2-Methylphenol	ND (0.718)		8270D		1	08/08/13 20:24	CWH0106	CH30632
Acenaphthene	ND (0.718)		8270D		1	08/08/13 20:24	CWH0106	CH30632
Acenaphthylene	ND (0.718)		8270D		1	08/08/13 20:24	CWH0106	CH30632
Anthracene	ND (0.718)		8270D		1	08/08/13 20:24	CWH0106	CH30632
Benzo(a)anthracene	ND (0.718)		8270D		1	08/08/13 20:24	CWH0106	CH30632
Benzo(a)pyrene	ND (0.360)		8270D		1	08/08/13 20:24	CWH0106	CH30632
Benzo(b)fluoranthene	ND (0.718)		8270D		1	08/08/13 20:24	CWH0106	CH30632
Benzo(g,h,i)perylene	ND (0.718)		8270D		1	08/08/13 20:24	CWH0106	CH30632
Benzo(k)fluoranthene	ND (0.718)		8270D		1	08/08/13 20:24	CWH0106	CH30632
bis(2-Ethylhexyl)phthalate	**15.2** (0.718)		8270D		1	08/08/13 20:24	CWH0106	CH30632
Butylbenzylphthalate	ND (0.718)		8270D		1	08/08/13 20:24	CWH0106	CH30632
Carbazole	ND (0.718)		8270D		1	08/08/13 20:24	CWH0106	CH30632
Chrysene	ND (0.360)		8270D		1	08/08/13 20:24	CWH0106	CH30632
Dibenzo(a,h)Anthracene	ND (0.360)		8270D		1	08/08/13 20:24	CWH0106	CH30632
Dibenzofuran	ND (0.718)		8270D		1	08/08/13 20:24	CWH0106	CH30632
Diethylphthalate	ND (0.718)		8270D		1	08/08/13 20:24	CWH0106	CH30632
Dimethylphthalate	ND (0.718)		8270D		1	08/08/13 20:24	CWH0106	CH30632
Di-n-butylphthalate	ND (0.718)		8270D		1	08/08/13 20:24	CWH0106	CH30632
Di-n-octylphthalate	**0.751** (0.718)		8270D		1	08/08/13 20:24	CWH0106	CH30632
Fluoranthene	ND (0.718)		8270D		1	08/08/13 20:24	CWH0106	CH30632
Fluorene	ND (0.718)		8270D		1	08/08/13 20:24	CWH0106	CH30632
Hexachlorobenzene	ND (0.718)		8270D		1	08/08/13 20:24	CWH0106	CH30632
Hexachlorocyclopentadiene	ND (3.60)		8270D		1	08/08/13 20:24	CWH0106	CH30632
Indeno(1,2,3-cd)Pyrene	ND (0.718)		8270D		1	08/08/13 20:24	CWH0106	CH30632
Naphthalene	ND (0.718)		8270D		1	08/08/13 20:24	CWH0106	CH30632
Phenanthrene	ND (0.718)		8270D		1	08/08/13 20:24	CWH0106	CH30632

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-111 7-8ft
Date Sampled: 08/01/13 11:21
Percent Solids: 23
Initial Volume: 30.1
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308104
ESS Laboratory Sample ID: 1308104-14
Sample Matrix: Solid
Units: mg/kg dry
Analyst: IBM
Prepared: 8/7/13 16:46

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Phenol	ND (0.718)		8270D		1	08/08/13 20:24	CWH0106	CH30632
Pyrene	ND (0.718)		8270D		1	08/08/13 20:24	CWH0106	CH30632

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*70 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*39 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*75 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*77 %*		*30-130*
Surrogate: 2-Fluorophenol	*68 %*		*30-130*
Surrogate: Nitrobenzene-d5	*72 %*		*30-130*
Surrogate: Phenol-d6	*76 %*		*30-130*
Surrogate: p-Terphenyl-d14	*81 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-111 7-8ft
Date Sampled: 08/01/13 11:21
Percent Solids: 23
Initial Volume: 15.4
Final Volume: 0.5
Extraction Method: 3541

ESS Laboratory Work Order: 1308104
ESS Laboratory Sample ID: 1308104-14
Sample Matrix: Solid
Units: mg/kg dry
Analyst: IBM
Prepared: 8/8/13 9:05

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	ND (0.035)		8270D		1	08/10/13 2:30	CWH0104	CH30811
Acenaphthene	ND (0.035)		8270D		1	08/10/13 2:30	CWH0104	CH30811
Acenaphthylene	ND (0.035)		8270D		1	08/10/13 2:30	CWH0104	CH30811
Anthracene	**0.042** (0.035)		8270D		1	08/10/13 2:30	CWH0104	CH30811
Benzo(a)anthracene	**0.062** (0.035)		8270D		1	08/10/13 2:30	CWH0104	CH30811
Benzo(a)pyrene	**0.051** (0.035)		8270D		1	08/10/13 2:30	CWH0104	CH30811
Benzo(b)fluoranthene	**0.065** (0.035)		8270D		1	08/10/13 2:30	CWH0104	CH30811
Benzo(g,h,i)perylene	**0.038** (0.035)		8270D		1	08/10/13 2:30	CWH0104	CH30811
Benzo(k)fluoranthene	ND (0.035)		8270D		1	08/10/13 2:30	CWH0104	CH30811
Chrysene	**0.067** (0.035)		8270D		1	08/10/13 2:30	CWH0104	CH30811
Dibenzo(a,h)Anthracene	ND (0.035)		8270D		1	08/10/13 2:30	CWH0104	CH30811
Fluoranthene	**0.114** (0.035)		8270D		1	08/10/13 2:30	CWH0104	CH30811
Fluorene	ND (0.035)		8270D		1	08/10/13 2:30	CWH0104	CH30811
Indeno(1,2,3-cd)Pyrene	**0.041** (0.035)		8270D		1	08/10/13 2:30	CWH0104	CH30811
Naphthalene	**0.091** (0.035)		8270D		1	08/10/13 2:30	CWH0104	CH30811
Phenanthrene	**0.122** (0.035)		8270D		1	08/10/13 2:30	CWH0104	CH30811
Pyrene	**0.125** (0.035)		8270D		1	08/10/13 2:30	CWH0104	CH30811

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*51 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*55 %*		*30-130*
Surrogate: Nitrobenzene-d5	*54 %*		*30-130*
Surrogate: p-Terphenyl-d14	*77 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-111 7-8ft
Date Sampled: 08/01/13 11:21
Percent Solids: 23

ESS Laboratory Work Order: 1308104
ESS Laboratory Sample ID: 1308104-14
Sample Matrix: Solid

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**5210** (500)		TOC-LK		1	SUB	08/13/13 0:00	mg/kg	CH31340

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-111 7-8ft
Date Sampled: 08/01/13 11:21
Percent Solids: 23
Initial Volume: 15.1
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1308104
ESS Laboratory Sample ID: 1308104-14
Sample Matrix: Solid
Units: mg/kg dry

Prepared: 8/8/13 11:00

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (108)		MADEP-EPH		1	IBM	08/09/13 4:25	CWH0117	CH30813
C19-C36 Aliphatics1	ND (108)		MADEP-EPH		1	IBM	08/09/13 4:25	CWH0117	CH30813
C11-C22 Unadjusted Aromatics1	ND (108)		EPH8270		1	IBM	08/09/13 4:36	CWH0116	CH30813
C11-C22 Aromatics1,2	ND (108)		EPH8270			IBM	08/09/13 4:36		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*88 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*104 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*102 %*		*40-140*
Surrogate: O-Terphenyl	*88 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-112T 0-0.5ft
Date Sampled: 08/06/13 09:00
Percent Solids: 25

ESS Laboratory Work Order: 1308104
ESS Laboratory Sample ID: 1308104-15
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (4.0)		6020A		50	JP	08/09/13 6:21	5	100	CH30730
Arsenic	**54.2** (4.0)		6010B		1	SVD	08/08/13 6:56	5	100	CH30730
Barium	**63.6** (4.0)		6010B		1	SVD	08/08/13 6:56	5	100	CH30730
Beryllium	**0.69** (0.17)		6010B		1	SVD	08/08/13 6:56	5	100	CH30730
Cadmium	**2.09** (0.80)		6010B		1	SVD	08/08/13 6:56	5	100	CH30730
Chromium	**83.7** (1.6)		6010B		1	SVD	08/08/13 6:56	5	100	CH30730
Lead	**266** (8.0)		6010B		1	SVD	08/08/13 6:56	5	100	CH30730
Mercury	**1.67** (0.296)		7471B		5	KJK	08/08/13 18:56	1.34	40	CH30732
Nickel	**24.1** (4.0)		6010B		1	SVD	08/08/13 6:56	5	100	CH30730
Selenium	ND (4.02)		6020A		50	JP	08/09/13 6:21	5	100	CH30730
Silver	**2.07** (0.80)		6010B		1	SVD	08/08/13 6:56	5	100	CH30730
Thallium	ND (4.02)		6020A		50	JP	08/09/13 6:21	5	100	CH30730
Vanadium	**82.0** (1.6)		6010B		1	SVD	08/08/13 6:56	5	100	CH30730
Zinc	**373** (4.0)		6010B		1	SVD	08/08/13 6:56	5	100	CH30730

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-112T 0-0.5ft
Date Sampled: 08/06/13 09:00
Percent Solids: 25

ESS Laboratory Work Order: 1308104
ESS Laboratory Sample ID: 1308104-15
Sample Matrix: Solid

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**50700** (500)		TOC-LK		1	SUB	08/13/13 0:00	mg/kg	CH31340

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-112 2-4ft
Date Sampled: 08/01/13 12:26
Percent Solids: 25

ESS Laboratory Work Order: 1308104
ESS Laboratory Sample ID: 1308104-16
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (3.7)		6020A		50	JP	08/09/13 6:27	5.3	100	CH30730
Arsenic	**94.8** (3.7)		6010B		1	SVD	08/08/13 7:02	5.3	100	CH30730
Barium	**60.9** (3.7)		6010B		1	SVD	08/08/13 7:02	5.3	100	CH30730
Beryllium	**0.77** (0.16)		6010B		1	SVD	08/08/13 7:02	5.3	100	CH30730
Cadmium	**3.45** (0.75)		6010B		1	SVD	08/08/13 7:02	5.3	100	CH30730
Chromium	**138** (1.5)		6010B		1	SVD	08/08/13 7:02	5.3	100	CH30730
Lead	**357** (7.5)		6010B		1	SVD	08/08/13 7:02	5.3	100	CH30730
Mercury	**3.70** (0.329)		7471B		5	KJK	08/08/13 18:59	1.19	40	CH30732
Nickel	**29.9** (3.7)		6010B		1	SVD	08/08/13 7:02	5.3	100	CH30730
Selenium	ND (3.75)		6020A		50	JP	08/09/13 6:27	5.3	100	CH30730
Silver	**3.50** (0.75)		6010B		1	SVD	08/08/13 7:02	5.3	100	CH30730
Thallium	ND (3.75)		6020A		50	JP	08/09/13 6:27	5.3	100	CH30730
Vanadium	**231** (1.5)		6010B		1	SVD	08/08/13 7:02	5.3	100	CH30730
Zinc	**469** (3.7)		6010B		1	SVD	08/08/13 7:02	5.3	100	CH30730

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-112 6-8ft
Date Sampled: 08/01/13 12:26
Percent Solids: 22

ESS Laboratory Work Order: 1308104
ESS Laboratory Sample ID: 1308104-17
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (4.6)		6020A		50	JP	08/09/13 6:33	5.01	100	CH30730
Arsenic	**87.3** (4.5)		6010B		1	SVD	08/08/13 7:07	5.01	100	CH30730
Barium	**48.0** (4.5)		6010B		1	SVD	08/08/13 7:07	5.01	100	CH30730
Beryllium	**0.94** (0.19)		6010B		1	SVD	08/08/13 7:07	5.01	100	CH30730
Cadmium	**2.73** (0.92)		6010B		1	SVD	08/08/13 7:07	5.01	100	CH30730
Chromium	**115** (1.8)		6010B		1	SVD	08/08/13 7:07	5.01	100	CH30730
Lead	**178** (9.1)		6010B		1	SVD	08/08/13 7:07	5.01	100	CH30730
Mercury	**2.68** (0.400)		7471B		5	KJK	08/08/13 19:01	1.13	40	CH30732
Nickel	**23.9** (4.5)		6010B		1	SVD	08/08/13 7:07	5.01	100	CH30730
Selenium	ND (4.58)		6020A		50	JP	08/09/13 6:33	5.01	100	CH30730
Silver	**1.69** (0.92)		6010B		1	SVD	08/08/13 7:07	5.01	100	CH30730
Thallium	ND (4.58)		6020A		50	JP	08/09/13 6:33	5.01	100	CH30730
Vanadium	**120** (1.8)		6010B		1	SVD	08/08/13 7:07	5.01	100	CH30730
Zinc	**243** (4.5)		6010B		1	SVD	08/08/13 7:07	5.01	100	CH30730

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-113T 0-0.5ft
Date Sampled: 08/06/13 11:11
Percent Solids: 52

ESS Laboratory Work Order: 1308104
ESS Laboratory Sample ID: 1308104-18
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (1.8)		6020A		50	JP	08/09/13 6:39	5.4	100	CH30730
Arsenic	**39.7** (1.8)		6010B		1	SVD	08/08/13 7:13	5.4	100	CH30730
Barium	**21.9** (1.8)		6010B		1	SVD	08/08/13 7:13	5.4	100	CH30730
Beryllium	**0.29** (0.07)		6010B		1	SVD	08/08/13 7:13	5.4	100	CH30730
Cadmium	**0.95** (0.36)		6010B		1	SVD	08/08/13 7:13	5.4	100	CH30730
Chromium	**32.8** (0.7)		6010B		1	SVD	08/08/13 7:13	5.4	100	CH30730
Lead	**101** (3.5)		6010B		1	SVD	08/08/13 7:13	5.4	100	CH30730
Mercury	**0.754** (0.126)		7471B		5	KJK	08/08/13 19:04	1.5	40	CH30732
Nickel	**15.3** (1.8)		6010B		1	SVD	08/08/13 7:13	5.4	100	CH30730
Selenium	**1.81** (1.78)		6020A		50	JP	08/09/13 6:39	5.4	100	CH30730
Silver	**0.91** (0.36)		6010B		1	SVD	08/08/13 7:13	5.4	100	CH30730
Thallium	ND (1.78)		6020A		50	JP	08/09/13 6:39	5.4	100	CH30730
Vanadium	**52.9** (0.7)		6010B		1	SVD	08/08/13 7:13	5.4	100	CH30730
Zinc	**147** (1.8)		6010B		1	SVD	08/08/13 7:13	5.4	100	CH30730

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-113T 0-0.5ft
Date Sampled: 08/06/13 11:11
Percent Solids: 52
Initial Volume: 20.5
Final Volume: 5
Extraction Method: 3540

ESS Laboratory Work Order: 1308104
ESS Laboratory Sample ID: 1308104-18
Sample Matrix: Solid
Units: mg/kg dry
Analyst: TJ
Prepared: 8/8/13 17:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0466)		8082A		1	08/11/13 5:47		CH30812
Aroclor 1221	ND (0.0466)		8082A		1	08/11/13 5:47		CH30812
Aroclor 1232	ND (0.0466)		8082A		1	08/11/13 5:47		CH30812
Aroclor 1242	ND (0.0466)		8082A		1	08/11/13 5:47		CH30812
Aroclor 1248	**0.648** (0.0466)		8082A		1	08/11/13 5:47		CH30812
Aroclor 1254	**0.914** (0.0466)		8082A		1	08/11/13 5:47		CH30812
Aroclor 1260	**0.358** (0.0466)		8082A		1	08/11/13 5:47		CH30812
Aroclor 1262	ND (0.0466)		8082A		1	08/11/13 5:47		CH30812
Aroclor 1268	ND (0.0466)		8082A		1	08/11/13 5:47		CH30812

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*92 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*98 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*73 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*63 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-113T 0-0.5ft
Date Sampled: 08/06/13 11:11
Percent Solids: 52
Initial Volume: 30.4
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308104
ESS Laboratory Sample ID: 1308104-18
Sample Matrix: Solid
Units: mg/kg dry
Analyst: IBM
Prepared: 8/7/13 16:46

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.314)		8270D		1	08/08/13 20:57	CWH0106	CH30632
1,2-Dichlorobenzene	ND (0.314)		8270D		1	08/08/13 20:57	CWH0106	CH30632
1,3-Dichlorobenzene	ND (0.314)		8270D		1	08/08/13 20:57	CWH0106	CH30632
1,4-Dichlorobenzene	ND (0.314)		8270D		1	08/08/13 20:57	CWH0106	CH30632
2-Methylnaphthalene	ND (0.314)		8270D		1	08/08/13 20:57	CWH0106	CH30632
2-Methylphenol	ND (0.314)		8270D		1	08/08/13 20:57	CWH0106	CH30632
Acenaphthene	ND (0.314)		8270D		1	08/08/13 20:57	CWH0106	CH30632
Acenaphthylene	ND (0.314)		8270D		1	08/08/13 20:57	CWH0106	CH30632
Anthracene	ND (0.314)		8270D		1	08/08/13 20:57	CWH0106	CH30632
Benzo(a)anthracene	ND (0.314)		8270D		1	08/08/13 20:57	CWH0106	CH30632
Benzo(a)pyrene	**0.231** (0.158)		8270D		1	08/08/13 20:57	CWH0106	CH30632
Benzo(b)fluoranthene	ND (0.314)		8270D		1	08/08/13 20:57	CWH0106	CH30632
Benzo(g,h,i)perylene	ND (0.314)		8270D		1	08/08/13 20:57	CWH0106	CH30632
Benzo(k)fluoranthene	ND (0.314)		8270D		1	08/08/13 20:57	CWH0106	CH30632
bis(2-Ethylhexyl)phthalate	**2.27** (0.314)		8270D		1	08/08/13 20:57	CWH0106	CH30632
Butylbenzylphthalate	ND (0.314)		8270D		1	08/08/13 20:57	CWH0106	CH30632
Carbazole	ND (0.314)		8270D		1	08/08/13 20:57	CWH0106	CH30632
Chrysene	**0.256** (0.158)		8270D		1	08/08/13 20:57	CWH0106	CH30632
Dibenzo(a,h)Anthracene	ND (0.158)		8270D		1	08/08/13 20:57	CWH0106	CH30632
Dibenzofuran	ND (0.314)		8270D		1	08/08/13 20:57	CWH0106	CH30632
Diethylphthalate	ND (0.314)		8270D		1	08/08/13 20:57	CWH0106	CH30632
Dimethylphthalate	ND (0.314)		8270D		1	08/08/13 20:57	CWH0106	CH30632
Di-n-butylphthalate	ND (0.314)		8270D		1	08/08/13 20:57	CWH0106	CH30632
Di-n-octylphthalate	ND (0.314)		8270D		1	08/08/13 20:57	CWH0106	CH30632
Fluoranthene	**0.431** (0.314)		8270D		1	08/08/13 20:57	CWH0106	CH30632
Fluorene	ND (0.314)		8270D		1	08/08/13 20:57	CWH0106	CH30632
Hexachlorobenzene	ND (0.314)		8270D		1	08/08/13 20:57	CWH0106	CH30632
Hexachlorocyclopentadiene	ND (1.58)		8270D		1	08/08/13 20:57	CWH0106	CH30632
Indeno(1,2,3-cd)Pyrene	ND (0.314)		8270D		1	08/08/13 20:57	CWH0106	CH30632
Naphthalene	ND (0.314)		8270D		1	08/08/13 20:57	CWH0106	CH30632
Phenanthrene	ND (0.314)		8270D		1	08/08/13 20:57	CWH0106	CH30632

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-113T 0-0.5ft
Date Sampled: 08/06/13 11:11
Percent Solids: 52
Initial Volume: 30.4
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308104
ESS Laboratory Sample ID: 1308104-18
Sample Matrix: Solid
Units: mg/kg dry
Analyst: IBM
Prepared: 8/7/13 16:46

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Phenol	ND (0.314)		8270D		1	08/08/13 20:57	CWH0106	CH30632
Pyrene	**0.408** (0.314)		8270D		1	08/08/13 20:57	CWH0106	CH30632

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*65 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*49 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*69 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*75 %*		*30-130*
Surrogate: 2-Fluorophenol	*64 %*		*30-130*
Surrogate: Nitrobenzene-d5	*68 %*		*30-130*
Surrogate: Phenol-d6	*68 %*		*30-130*
Surrogate: p-Terphenyl-d14	*77 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-113T 0-0.5ft
Date Sampled: 08/06/13 11:11
Percent Solids: 52
Initial Volume: 15.1
Final Volume: 0.5
Extraction Method: 3541

ESS Laboratory Work Order: 1308104
ESS Laboratory Sample ID: 1308104-18
Sample Matrix: Solid
Units: mg/kg dry
Analyst: IBM
Prepared: 8/8/13 9:05

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	ND (0.079)		8270D		5	08/10/13 3:19	CWH0104	CH30811
Acenaphthene	ND (0.079)		8270D		5	08/10/13 3:19	CWH0104	CH30811
Acenaphthylene	ND (0.079)		8270D		5	08/10/13 3:19	CWH0104	CH30811
Anthracene	ND (0.079)		8270D		5	08/10/13 3:19	CWH0104	CH30811
Benzo(a)anthracene	**0.117** (0.079)		8270D		5	08/10/13 3:19	CWH0104	CH30811
Benzo(a)pyrene	**0.149** (0.079)		8270D		5	08/10/13 3:19	CWH0104	CH30811
Benzo(b)fluoranthene	**0.206** (0.079)		8270D		5	08/10/13 3:19	CWH0104	CH30811
Benzo(g,h,i)perylene	**0.130** (0.079)		8270D		5	08/10/13 3:19	CWH0104	CH30811
Benzo(k)fluoranthene	ND (0.079)		8270D		5	08/10/13 3:19	CWH0104	CH30811
Chrysene	**0.158** (0.079)		8270D		5	08/10/13 3:19	CWH0104	CH30811
Dibenzo(a,h)Anthracene	ND (0.079)		8270D		5	08/10/13 3:19	CWH0104	CH30811
Fluoranthene	**0.203** (0.079)		8270D		5	08/10/13 3:19	CWH0104	CH30811
Fluorene	ND (0.079)		8270D		5	08/10/13 3:19	CWH0104	CH30811
Indeno(1,2,3-cd)Pyrene	**0.139** (0.079)		8270D		5	08/10/13 3:19	CWH0104	CH30811
Naphthalene	ND (0.079)		8270D		5	08/10/13 3:19	CWH0104	CH30811
Phenanthrene	**0.108** (0.079)		8270D		5	08/10/13 3:19	CWH0104	CH30811
Pyrene	**0.237** (0.079)		8270D		5	08/10/13 3:19	CWH0104	CH30811

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*34 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*43 %*		*30-130*
Surrogate: Nitrobenzene-d5	*38 %*		*30-130*
Surrogate: p-Terphenyl-d14	*74 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-113T 0-0.5ft
Date Sampled: 08/06/13 11:11
Percent Solids: 52

ESS Laboratory Work Order: 1308104
ESS Laboratory Sample ID: 1308104-18
Sample Matrix: Solid

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**24600** (500)		TOC-LK		1	SUB	08/13/13 0:00	mg/kg	CH31340

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-113T 0-0.5ft
Date Sampled: 08/06/13 11:11
Percent Solids: 52
Initial Volume: 15.4
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1308104
ESS Laboratory Sample ID: 1308104-18
Sample Matrix: Solid
Units: mg/kg dry

Prepared: 8/8/13 11:00

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	**51.4** (46.5)		MADEP-EPH		1	IBM	08/09/13 5:16	CWH0117	CH30813
C19-C36 Aliphatics1	**329** (46.5)		MADEP-EPH		1	IBM	08/09/13 5:16	CWH0117	CH30813
C11-C22 Unadjusted Aromatics1	**175** (46.5)		EPH8270		1	IBM	08/09/13 5:23	CWH0116	CH30813
C11-C22 Aromatics1,2	**175** (46.5)		EPH8270			IBM	08/09/13 5:23		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*87 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*100 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*93 %*		*40-140*
Surrogate: O-Terphenyl	*91 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-113 2-4ft
Date Sampled: 08/01/13 12:41
Percent Solids: 53

ESS Laboratory Work Order: 1308104
ESS Laboratory Sample ID: 1308104-19
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (1.8)		6020A		50	JP	08/09/13 6:45	5.27	100	CH30730
Arsenic	**46.4** (1.8)		6010B		1	SVD	08/08/13 7:18	5.27	100	CH30730
Barium	**30.8** (1.8)		6010B		1	SVD	08/08/13 7:18	5.27	100	CH30730
Beryllium	**0.33** (0.07)		6010B		1	SVD	08/08/13 7:18	5.27	100	CH30730
Cadmium	**1.30** (0.36)		6010B		1	SVD	08/08/13 7:18	5.27	100	CH30730
Chromium	**37.2** (0.7)		6010B		1	SVD	08/08/13 7:18	5.27	100	CH30730
Lead	**187** (3.6)		6010B		1	SVD	08/08/13 7:18	5.27	100	CH30730
Mercury	**1.59** (0.134)		7471B		5	KJK	08/08/13 19:07	1.39	40	CH30732
Nickel	**19.7** (1.8)		6010B		1	SVD	08/08/13 7:18	5.27	100	CH30730
Selenium	**2.75** (1.79)		6020A		50	JP	08/09/13 6:45	5.27	100	CH30730
Silver	**1.16** (0.36)		6010B		1	SVD	08/08/13 7:18	5.27	100	CH30730
Thallium	ND (1.79)		6020A		50	JP	08/09/13 6:45	5.27	100	CH30730
Vanadium	**171** (0.7)		6010B		1	SVD	08/08/13 7:18	5.27	100	CH30730
Zinc	**190** (1.8)		6010B		1	SVD	08/08/13 7:18	5.27	100	CH30730

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-113 2-4ft
Date Sampled: 08/01/13 12:41
Percent Solids: 53
Initial Volume: 20.7
Final Volume: 5
Extraction Method: 3540

ESS Laboratory Work Order: 1308104
ESS Laboratory Sample ID: 1308104-19
Sample Matrix: Solid
Units: mg/kg dry
Analyst: TJ
Prepared: 8/8/13 17:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0453)		8082A		1	08/12/13 16:31		CH30812
Aroclor 1221	ND (0.0453)		8082A		1	08/12/13 16:31		CH30812
Aroclor 1232	ND (0.0453)		8082A		1	08/12/13 16:31		CH30812
Aroclor 1242	ND (0.0453)		8082A		1	08/12/13 16:31		CH30812
Aroclor 1248	ND (0.0453)		8082A		1	08/12/13 16:31		CH30812
Aroclor 1254	**1.38** (0.226)		8082A		5	08/13/13 16:11		CH30812
Aroclor 1260	**1.42** (0.226)		8082A		5	08/13/13 16:11		CH30812
Aroclor 1262	ND (0.0453)		8082A		1	08/12/13 16:31		CH30812
Aroclor 1268	ND (0.0453)		8082A		1	08/12/13 16:31		CH30812

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*93 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*88 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*61 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*54 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-113 2-4ft
Date Sampled: 08/01/13 12:41
Percent Solids: 53
Initial Volume: 30.4
Final Volume: 3
Extraction Method: 3546

ESS Laboratory Work Order: 1308104
ESS Laboratory Sample ID: 1308104-19
Sample Matrix: Solid
Units: mg/kg dry
Analyst: IBM
Prepared: 8/7/13 16:46

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (1.85)		8270D		1	08/08/13 21:30	CWH0106	CH30632
1,2-Dichlorobenzene	ND (1.85)		8270D		1	08/08/13 21:30	CWH0106	CH30632
1,3-Dichlorobenzene	ND (1.85)		8270D		1	08/08/13 21:30	CWH0106	CH30632
1,4-Dichlorobenzene	ND (1.85)		8270D		1	08/08/13 21:30	CWH0106	CH30632
2-Methylnaphthalene	ND (1.85)		8270D		1	08/08/13 21:30	CWH0106	CH30632
2-Methylphenol	ND (1.85)		8270D		1	08/08/13 21:30	CWH0106	CH30632
Acenaphthene	ND (1.85)		8270D		1	08/08/13 21:30	CWH0106	CH30632
Acenaphthylene	ND (1.85)		8270D		1	08/08/13 21:30	CWH0106	CH30632
Anthracene	ND (1.85)		8270D		1	08/08/13 21:30	CWH0106	CH30632
Benzo(a)anthracene	ND (1.85)		8270D		1	08/08/13 21:30	CWH0106	CH30632
Benzo(a)pyrene	ND (0.927)		8270D		1	08/08/13 21:30	CWH0106	CH30632
Benzo(b)fluoranthene	ND (1.85)		8270D		1	08/08/13 21:30	CWH0106	CH30632
Benzo(g,h,i)perylene	ND (1.85)		8270D		1	08/08/13 21:30	CWH0106	CH30632
Benzo(k)fluoranthene	ND (1.85)		8270D		1	08/08/13 21:30	CWH0106	CH30632
bis(2-Ethylhexyl)phthalate	**30.4** (1.85)		8270D		1	08/08/13 21:30	CWH0106	CH30632
Butylbenzylphthalate	ND (1.85)		8270D		1	08/08/13 21:30	CWH0106	CH30632
Carbazole	ND (1.85)		8270D		1	08/08/13 21:30	CWH0106	CH30632
Chrysene	ND (0.927)		8270D		1	08/08/13 21:30	CWH0106	CH30632
Dibenzo(a,h)Anthracene	ND (0.927)		8270D		1	08/08/13 21:30	CWH0106	CH30632
Dibenzofuran	ND (1.85)		8270D		1	08/08/13 21:30	CWH0106	CH30632
Diethylphthalate	ND (1.85)		8270D		1	08/08/13 21:30	CWH0106	CH30632
Dimethylphthalate	ND (1.85)		8270D		1	08/08/13 21:30	CWH0106	CH30632
Di-n-butylphthalate	ND (1.85)		8270D		1	08/08/13 21:30	CWH0106	CH30632
Di-n-octylphthalate	ND (1.85)		8270D		1	08/08/13 21:30	CWH0106	CH30632
Fluoranthene	ND (1.85)		8270D		1	08/08/13 21:30	CWH0106	CH30632
Fluorene	ND (1.85)		8270D		1	08/08/13 21:30	CWH0106	CH30632
Hexachlorobenzene	ND (1.85)		8270D		1	08/08/13 21:30	CWH0106	CH30632
Hexachlorocyclopentadiene	ND (9.27)		8270D		1	08/08/13 21:30	CWH0106	CH30632
Indeno(1,2,3-cd)Pyrene	ND (1.85)		8270D		1	08/08/13 21:30	CWH0106	CH30632
Naphthalene	ND (1.85)		8270D		1	08/08/13 21:30	CWH0106	CH30632
Phenanthrene	ND (1.85)		8270D		1	08/08/13 21:30	CWH0106	CH30632

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-113 2-4ft
Date Sampled: 08/01/13 12:41
Percent Solids: 53
Initial Volume: 30.4
Final Volume: 3
Extraction Method: 3546

ESS Laboratory Work Order: 1308104
ESS Laboratory Sample ID: 1308104-19
Sample Matrix: Solid
Units: mg/kg dry
Analyst: IBM
Prepared: 8/7/13 16:46

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Phenol	ND (1.85)		8270D		1	08/08/13 21:30	CWH0106	CH30632
Pyrene	ND (1.85)		8270D		1	08/08/13 21:30	CWH0106	CH30632

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*31 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*37 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*32 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*36 %*		*30-130*
Surrogate: 2-Fluorophenol	*32 %*		*30-130*
Surrogate: Nitrobenzene-d5	*30 %*		*30-130*
Surrogate: Phenol-d6	*34 %*		*30-130*
Surrogate: p-Terphenyl-d14	*47 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-113 2-4ft
Date Sampled: 08/01/13 12:41
Percent Solids: 53
Initial Volume: 15.3
Final Volume: 3
Extraction Method: 3541

ESS Laboratory Work Order: 1308104
ESS Laboratory Sample ID: 1308104-19
Sample Matrix: Solid
Units: mg/kg dry
Analyst: IBM
Prepared: 8/8/13 9:05

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	ND (0.092)		8270D		1	08/10/13 8:59	CWH0128	CH30811
Acenaphthene	ND (0.092)		8270D		1	08/10/13 8:59	CWH0128	CH30811
Acenaphthylene	**0.180** (0.092)		8270D		1	08/10/13 8:59	CWH0128	CH30811
Anthracene	**0.268** (0.092)		8270D		1	08/10/13 8:59	CWH0128	CH30811
Benzo(a)anthracene	**0.577** (0.092)		8270D		1	08/10/13 8:59	CWH0128	CH30811
Benzo(a)pyrene	**0.599** (0.092)		8270D		1	08/10/13 8:59	CWH0128	CH30811
Benzo(b)fluoranthene	**0.875** (0.092)		8270D		1	08/10/13 8:59	CWH0128	CH30811
Benzo(g,h,i)perylene	**0.515** (0.092)		8270D		1	08/10/13 8:59	CWH0128	CH30811
Benzo(k)fluoranthene	**0.309** (0.092)		8270D		1	08/10/13 8:59	CWH0128	CH30811
Chrysene	**0.680** (0.092)		8270D		1	08/10/13 8:59	CWH0128	CH30811
Dibenzo(a,h)Anthracene	**0.154** (0.092)		8270D		1	08/10/13 8:59	CWH0128	CH30811
Fluoranthene	**0.673** (0.092)		8270D		1	08/10/13 8:59	CWH0128	CH30811
Fluorene	ND (0.092)		8270D		1	08/10/13 8:59	CWH0128	CH30811
Indeno(1,2,3-cd)Pyrene	**0.585** (0.092)		8270D		1	08/10/13 8:59	CWH0128	CH30811
Naphthalene	ND (0.092)		8270D		1	08/10/13 8:59	CWH0128	CH30811
Phenanthrene	**0.408** (0.092)		8270D		1	08/10/13 8:59	CWH0128	CH30811
Pyrene	**1.01** (0.092)		8270D		1	08/10/13 8:59	CWH0128	CH30811

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*40 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*52 %*		*30-130*
Surrogate: Nitrobenzene-d5	*38 %*		*30-130*
Surrogate: p-Terphenyl-d14	*97 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-113 2-4ft
Date Sampled: 08/01/13 12:41
Percent Solids: 53

ESS Laboratory Work Order: 1308104
ESS Laboratory Sample ID: 1308104-19
Sample Matrix: Solid

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**31300** (500)		TOC-LK		1	SUB	08/13/13 0:00	mg/kg	CH31340

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-113 2-4ft
Date Sampled: 08/01/13 12:41
Percent Solids: 53
Initial Volume: 14.6
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1308104
ESS Laboratory Sample ID: 1308104-19
Sample Matrix: Solid
Units: mg/kg dry

Prepared: 8/8/13 11:00

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (48.2)		MADEP-EPH		1	IBM	08/09/13 6:07	CWH0117	CH30813
C19-C36 Aliphatics1	**305** (48.2)		MADEP-EPH		1	IBM	08/09/13 6:07	CWH0117	CH30813
C11-C22 Unadjusted Aromatics1	**2630** (963)		EPH8270		20	SEP	08/10/13 20:05	CWH0135	CH30813
C11-C22 Aromatics1,2	**2630** (963)		EPH8270			SEP	08/10/13 20:05		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*50 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*107 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*95 %*		*40-140*
Surrogate: O-Terphenyl	*63 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-113 4-6ft
Date Sampled: 08/01/13 12:41
Percent Solids: 69

ESS Laboratory Work Order: 1308104
ESS Laboratory Sample ID: 1308104-20
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (1.4)		6020A		50	JP	08/09/13 6:51	5.35	100	CH30730
Arsenic	**78.3** (6.8)		6010B		5	SVD	08/08/13 18:46	5.35	100	CH30730
Barium	**36.0** (6.8)		6010B		5	SVD	08/08/13 18:46	5.35	100	CH30730
Beryllium	ND (0.29)		6010B		5	SVD	08/08/13 18:46	5.35	100	CH30730
Cadmium	**1.76** (1.37)		6010B		5	SVD	08/08/13 18:46	5.35	100	CH30730
Chromium	**40.8** (2.7)		6010B		5	SVD	08/08/13 18:46	5.35	100	CH30730
Lead	**246** (13.6)		6010B		5	SVD	08/08/13 18:46	5.35	100	CH30730
Mercury	**1.08** (0.115)		7471B		5	KJK	08/08/13 19:09	1.25	40	CH30732
Nickel	**8.2** (6.8)		6010B		5	SVD	08/08/13 18:46	5.35	100	CH30730
Selenium	**26.8** (1.37)		6020A		50	JP	08/09/13 6:51	5.35	100	CH30730
Silver	**1.74** (1.37)		6010B		5	SVD	08/08/13 18:46	5.35	100	CH30730
Thallium	ND (1.37)		6020A		50	JP	08/09/13 6:51	5.35	100	CH30730
Vanadium	**26.8** (2.7)		6010B		5	SVD	08/08/13 18:46	5.35	100	CH30730
Zinc	**187** (6.8)		6010B		5	SVD	08/08/13 18:46	5.35	100	CH30730

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308104

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Total Metals Solid										
Batch CH30730 - 3050B										
Blank										
Antimony	ND	2.5	mg/kg wet							
Arsenic	ND	2.5	mg/kg wet							
Barium	ND	2.5	mg/kg wet							
Beryllium	ND	0.10	mg/kg wet							
Cadmium	ND	0.50	mg/kg wet							
Chromium	ND	1.0	mg/kg wet							
Lead	ND	5.0	mg/kg wet							
Nickel	ND	2.5	mg/kg wet							
Selenium	ND	2.51	mg/kg wet							
Silver	ND	0.50	mg/kg wet							
Thallium	ND	2.51	mg/kg wet							
Vanadium	ND	1.0	mg/kg wet							
Zinc	ND	2.5	mg/kg wet							
LCS										
Antimony	96.9	9.7	mg/kg wet	106.0		91	80-120			
Arsenic	156	9.6	mg/kg wet	182.0		86	80-120			
Barium	120	9.6	mg/kg wet	143.0		84	80-120			
Beryllium	80.0	0.40	mg/kg wet	98.30		81	80-120			
Cadmium	49.7	1.93	mg/kg wet	60.40		82	80-120			
Chromium	105	3.8	mg/kg wet	125.0		84	80-120			
Lead	113	19.2	mg/kg wet	136.0		83	80-120			
Nickel	108	9.6	mg/kg wet	128.0		85	80-120			
Selenium	84.1	9.66	mg/kg wet	85.90		98	80-120			
Silver	52.6	1.93	mg/kg wet	61.30		86	80-120			
Thallium	129	9.66	mg/kg wet	144.0		89	80-120			
Vanadium	88.9	3.8	mg/kg wet	104.0		85	80-120			
Zinc	165	9.6	mg/kg wet	204.0		81	80-120			
LCS Dup										
Antimony	93.7	9.0	mg/kg wet	106.0		88	80-120	3	20	
Arsenic	159	8.9	mg/kg wet	182.0		87	80-120	2	20	
Barium	116	8.9	mg/kg wet	143.0		81	80-120	4	20	
Beryllium	79.3	0.38	mg/kg wet	98.30		81	80-120	0.9	20	
Cadmium	50.8	1.79	mg/kg wet	60.40		84	80-120	2	20	
Chromium	103	3.6	mg/kg wet	125.0		83	80-120	1	20	
Lead	111	17.9	mg/kg wet	136.0		82	80-120	2	20	
Nickel	106	8.9	mg/kg wet	128.0		83	80-120	2	20	
Selenium	78.9	8.97	mg/kg wet	85.90		92	80-120	6	20	
Silver	51.8	1.79	mg/kg wet	61.30		85	80-120	2	20	
Thallium	130	8.97	mg/kg wet	144.0		90	80-120	0.9	20	
Vanadium	86.3	3.6	mg/kg wet	104.0		83	80-120	3	20	
Zinc	168	8.9	mg/kg wet	204.0		82	80-120	2	20	
Batch CH30732 - 7471A										
Blank										

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308104

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Total Metals Solid										
Batch CH30732 - 7471A										
Mercury	ND	0.033	mg/kg wet							
LCS										
Mercury	10.6	0.728	mg/kg wet	9.250		115	80-120			
LCS Dup										
Mercury	8.71	0.811	mg/kg wet	9.250		94	80-120	20	20	
8082A Polychlorinated Biphenyls (PCB)										
Batch CH30812 - 3540										
Blank										
Aroclor 1016	ND	0.0250	mg/kg wet							
Aroclor 1016 (1)	ND	0.0250	mg/kg wet							
Aroclor 1016 (1) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1016 (2)	ND	0.0250	mg/kg wet							
Aroclor 1016 (2) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1016 (3)	ND	0.0250	mg/kg wet							
Aroclor 1016 (3) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1016 (4)	ND	0.0250	mg/kg wet							
Aroclor 1016 (4) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1016 (5)	ND	0.0250	mg/kg wet							
Aroclor 1016 (5) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1221	ND	0.0250	mg/kg wet							
Aroclor 1221 (1)	ND	0.0250	mg/kg wet							
Aroclor 1221 (1) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1221 (2)	ND	0.0250	mg/kg wet							
Aroclor 1221 (2) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1221 (3)	ND	0.0250	mg/kg wet							
Aroclor 1221 (3) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1221 (4)	ND	0.0250	mg/kg wet							
Aroclor 1221 (4) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1221 (5)	ND	0.0250	mg/kg wet							
Aroclor 1221 (5) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1232	ND	0.0250	mg/kg wet							
Aroclor 1232 (1)	ND	0.0250	mg/kg wet							
Aroclor 1232 (1) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1232 (2)	ND	0.0250	mg/kg wet							
Aroclor 1232 (2) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1232 (3)	ND	0.0250	mg/kg wet							
Aroclor 1232 (3) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1232 (4)	ND	0.0250	mg/kg wet							
Aroclor 1232 (4) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1232 (5)	ND	0.0250	mg/kg wet							
Aroclor 1232 (5) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1242	ND	0.0250	mg/kg wet							
Aroclor 1242 (1)	ND	0.0250	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308104

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CH30812 - 3540										
Aroclor 1242 (1) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1242 (2)	ND	0.0250	mg/kg wet							
Aroclor 1242 (2) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1242 (3)	ND	0.0250	mg/kg wet							
Aroclor 1242 (3) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1242 (4)	ND	0.0250	mg/kg wet							
Aroclor 1242 (4) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1242 (5)	ND	0.0250	mg/kg wet							
Aroclor 1242 (5) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1248	ND	0.0250	mg/kg wet							
Aroclor 1248 (1)	ND	0.0250	mg/kg wet							
Aroclor 1248 (1) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1248 (2)	ND	0.0250	mg/kg wet							
Aroclor 1248 (2) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1248 (3)	ND	0.0250	mg/kg wet							
Aroclor 1248 (3) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1248 (4)	ND	0.0250	mg/kg wet							
Aroclor 1248 (4) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1248 (5)	ND	0.0250	mg/kg wet							
Aroclor 1248 (5) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1254	ND	0.0250	mg/kg wet							
Aroclor 1254 (1)	ND	0.0250	mg/kg wet							
Aroclor 1254 (1) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1254 (2)	ND	0.0250	mg/kg wet							
Aroclor 1254 (2) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1254 (3)	ND	0.0250	mg/kg wet							
Aroclor 1254 (3) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1254 (4)	ND	0.0250	mg/kg wet							
Aroclor 1254 (4) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1254 (5)	ND	0.0250	mg/kg wet							
Aroclor 1254 (5) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1260	ND	0.0250	mg/kg wet							
Aroclor 1260 (1)	ND	0.0250	mg/kg wet							
Aroclor 1260 (1) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1260 (2)	ND	0.0250	mg/kg wet							
Aroclor 1260 (2) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1260 (3)	ND	0.0250	mg/kg wet							
Aroclor 1260 (3) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1260 (4)	ND	0.0250	mg/kg wet							
Aroclor 1260 (4) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1260 (5)	ND	0.0250	mg/kg wet							
Aroclor 1260 (5) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1262	ND	0.0250	mg/kg wet							
Aroclor 1262 (1)	ND	0.0250	mg/kg wet							
Aroclor 1262 (1) [2C]	ND	0.0250	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308104

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CH30812 - 3540										
Aroclor 1262 (2)	ND	0.0250	mg/kg wet							
Aroclor 1262 (2) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1262 (3)	ND	0.0250	mg/kg wet							
Aroclor 1262 (3) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1262 (4)	ND	0.0250	mg/kg wet							
Aroclor 1262 (4) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1262 (5)	ND	0.0250	mg/kg wet							
Aroclor 1262 (5) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1268	ND	0.0250	mg/kg wet							
Aroclor 1268 (1)	ND	0.0250	mg/kg wet							
Aroclor 1268 (1) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1268 (2)	ND	0.0250	mg/kg wet							
Aroclor 1268 (2) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1268 (3)	ND	0.0250	mg/kg wet							
Aroclor 1268 (3) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1268 (4)	ND	0.0250	mg/kg wet							
Aroclor 1268 (4) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1268 (5)	ND	0.0250	mg/kg wet							
Aroclor 1268 (5) [2C]	ND	0.0250	mg/kg wet							
Surrogate: Decachlorobiphenyl	*0.0130*		mg/kg wet	*0.01250*		*104*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.00992*		mg/kg wet	*0.01250*		*79*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0104*		mg/kg wet	*0.01250*		*83*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.00936*		mg/kg wet	*0.01250*		*75*	*30-150*			
LCS										
Aroclor 1016	0.260	0.0250	mg/kg wet	0.2500		104	40-140			
Aroclor 1260	0.263	0.0250	mg/kg wet	0.2500		105	40-140			
Surrogate: Decachlorobiphenyl	*0.0135*		mg/kg wet	*0.01250*		*108*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0104*		mg/kg wet	*0.01250*		*83*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0112*		mg/kg wet	*0.01250*		*90*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.00989*		mg/kg wet	*0.01250*		*79*	*30-150*			
LCS Dup										
Aroclor 1016	0.261	0.0250	mg/kg wet	0.2500		104	40-140	0.5	30	
Aroclor 1260	0.268	0.0250	mg/kg wet	0.2500		107	40-140	2	30	
Surrogate: Decachlorobiphenyl	*0.0139*		mg/kg wet	*0.01250*		*111*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0106*		mg/kg wet	*0.01250*		*85*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0115*		mg/kg wet	*0.01250*		*92*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.00996*		mg/kg wet	*0.01250*		*80*	*30-150*			
8270D Semi-Volatile Organic Compounds										
Batch CH30632 - 3546										
Blank										
1,2,4-Trichlorobenzene	ND	0.333	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308104

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D Semi-Volatile Organic Compounds										
Batch CH30632 - 3546										
1,2-Dichlorobenzene	ND	0.333	mg/kg wet							
1,3-Dichlorobenzene	ND	0.333	mg/kg wet							
1,4-Dichlorobenzene	ND	0.333	mg/kg wet							
2-Methylnaphthalene	ND	0.333	mg/kg wet							
2-Methylphenol	ND	0.333	mg/kg wet							
Acenaphthene	ND	0.333	mg/kg wet							
Acenaphthylene	ND	0.333	mg/kg wet							
Anthracene	ND	0.333	mg/kg wet							
Benzo(a)anthracene	ND	0.333	mg/kg wet							
Benzo(a)pyrene	ND	0.167	mg/kg wet							
Benzo(b)fluoranthene	ND	0.333	mg/kg wet							
Benzo(g,h,i)perylene	ND	0.333	mg/kg wet							
Benzo(k)fluoranthene	ND	0.333	mg/kg wet							
bis(2-Ethylhexyl)phthalate	ND	0.333	mg/kg wet							
Butylbenzylphthalate	ND	0.333	mg/kg wet							
Carbazole	ND	0.333	mg/kg wet							
Chrysene	ND	0.167	mg/kg wet							
Dibenzo(a,h)Anthracene	ND	0.167	mg/kg wet							
Dibenzofuran	ND	0.333	mg/kg wet							
Diethylphthalate	ND	0.333	mg/kg wet							
Dimethylphthalate	ND	0.333	mg/kg wet							
Di-n-butylphthalate	ND	0.333	mg/kg wet							
Di-n-octylphthalate	ND	0.333	mg/kg wet							
Fluoranthene	ND	0.333	mg/kg wet							
Fluorene	ND	0.333	mg/kg wet							
Hexachlorobenzene	ND	0.333	mg/kg wet							
Hexachlorocyclopentadiene	ND	1.67	mg/kg wet							
Indeno(1,2,3-cd)Pyrene	ND	0.333	mg/kg wet							
Naphthalene	ND	0.333	mg/kg wet							
Phenanthrene	ND	0.333	mg/kg wet							
Phenol	ND	0.333	mg/kg wet							
Pyrene	ND	0.333	mg/kg wet							
Surrogate: 1,2-Dichlorobenzene-d4	*2.99*		mg/kg wet	*3.333*		*90*	*30-130*			
Surrogate: 2,4,6-Tribromophenol	*4.10*		mg/kg wet	*5.000*		*82*	*30-130*			
Surrogate: 2-Chlorophenol-d4	*4.69*		mg/kg wet	*5.000*		*94*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*3.01*		mg/kg wet	*3.333*		*90*	*30-130*			
Surrogate: 2-Fluorophenol	*4.45*		mg/kg wet	*5.000*		*89*	*30-130*			
Surrogate: Nitrobenzene-d5	*3.01*		mg/kg wet	*3.333*		*90*	*30-130*			
Surrogate: Phenol-d6	*4.71*		mg/kg wet	*5.000*		*94*	*30-130*			
Surrogate: p-Terphenyl-d14	*3.63*		mg/kg wet	*3.333*		*109*	*30-130*			
LCS										
1,2,4-Trichlorobenzene	2.58	0.333	mg/kg wet	3.333		78	40-140			
1,2-Dichlorobenzene	2.58	0.333	mg/kg wet	3.333		77	40-140			
1,3-Dichlorobenzene	2.52	0.333	mg/kg wet	3.333		76	40-140			
1,4-Dichlorobenzene	2.59	0.333	mg/kg wet	3.333		78	40-140			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308104

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D Semi-Volatile Organic Compounds										
Batch CH30632 - 3546										
2-Methylnaphthalene	2.75	0.333	mg/kg wet	3.333		83	40-140			
2-Methylphenol	2.64	0.333	mg/kg wet	3.333		79	30-130			
Acenaphthene	2.75	0.333	mg/kg wet	3.333		82	40-140			
Acenaphthylene	2.62	0.333	mg/kg wet	3.333		78	40-140			
Anthracene	2.95	0.333	mg/kg wet	3.333		89	40-140			
Benzo(a)anthracene	2.73	0.333	mg/kg wet	3.333		82	40-140			
Benzo(a)pyrene	2.62	0.167	mg/kg wet	3.333		79	40-140			
Benzo(b)fluoranthene	2.98	0.333	mg/kg wet	3.333		89	40-140			
Benzo(g,h,i)perylene	2.80	0.333	mg/kg wet	3.333		84	40-140			
Benzo(k)fluoranthene	3.10	0.333	mg/kg wet	3.333		93	40-140			
bis(2-Ethylhexyl)phthalate	3.25	0.333	mg/kg wet	3.333		98	40-140			
Butylbenzylphthalate	3.16	0.333	mg/kg wet	3.333		95	40-140			
Carbazole	2.99	0.333	mg/kg wet	3.333		90	40-140			
Chrysene	2.99	0.167	mg/kg wet	3.333		90	40-140			
Dibenzo(a,h)Anthracene	3.18	0.167	mg/kg wet	3.333		95	40-140			
Dibenzofuran	2.72	0.333	mg/kg wet	3.333		82	40-140			
Diethylphthalate	2.89	0.333	mg/kg wet	3.333		87	40-140			
Dimethylphthalate	2.77	0.333	mg/kg wet	3.333		83	40-140			
Di-n-butylphthalate	3.17	0.333	mg/kg wet	3.333		95	40-140			
Di-n-octylphthalate	3.13	0.333	mg/kg wet	3.333		94	40-140			
Fluoranthene	2.96	0.333	mg/kg wet	3.333		89	40-140			
Fluorene	2.84	0.333	mg/kg wet	3.333		85	40-140			
Hexachlorobenzene	2.62	0.333	mg/kg wet	3.333		79	40-140			
Hexachlorocyclopentadiene	1.90	1.67	mg/kg wet	3.333		57	40-140			
Indeno(1,2,3-cd)Pyrene	2.74	0.333	mg/kg wet	3.333		82	40-140			
Naphthalene	2.78	0.333	mg/kg wet	3.333		83	40-140			
Phenanthrene	2.94	0.333	mg/kg wet	3.333		88	40-140			
Phenol	2.60	0.333	mg/kg wet	3.333		78	30-130			
Pyrene	3.01	0.333	mg/kg wet	3.333		90	40-140			
Surrogate: 1,2-Dichlorobenzene-d4	*2.99*		mg/kg wet	*3.333*		*90*	*30-130*			
Surrogate: 2,4,6-Tribromophenol	*4.59*		mg/kg wet	*5.000*		*92*	*30-130*			
Surrogate: 2-Chlorophenol-d4	*4.70*		mg/kg wet	*5.000*		*94*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*3.13*		mg/kg wet	*3.333*		*94*	*30-130*			
Surrogate: 2-Fluorophenol	*4.53*		mg/kg wet	*5.000*		*91*	*30-130*			
Surrogate: Nitrobenzene-d5	*3.30*		mg/kg wet	*3.333*		*99*	*30-130*			
Surrogate: Phenol-d6	*4.65*		mg/kg wet	*5.000*		*93*	*30-130*			
Surrogate: p-Terphenyl-d14	*3.37*		mg/kg wet	*3.333*		*101*	*30-130*			
LCS Dup										
1,2,4-Trichlorobenzene	2.57	0.333	mg/kg wet	3.333		77	40-140	0.7	30	
1,2-Dichlorobenzene	2.57	0.333	mg/kg wet	3.333		77	40-140	0.06	30	
1,3-Dichlorobenzene	2.52	0.333	mg/kg wet	3.333		76	40-140	0.1	30	
1,4-Dichlorobenzene	2.58	0.333	mg/kg wet	3.333		77	40-140	0.4	30	
2-Methylnaphthalene	2.78	0.333	mg/kg wet	3.333		84	40-140	1	30	
2-Methylphenol	2.75	0.333	mg/kg wet	3.333		83	30-130	4	30	
Acenaphthene	2.76	0.333	mg/kg wet	3.333		83	40-140	0.7	30	

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308104

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D Semi-Volatile Organic Compounds										
Batch CH30632 - 3546										
Acenaphthylene	2.65	0.333	mg/kg wet	3.333		79	40-140	1	30	
Anthracene	2.96	0.333	mg/kg wet	3.333		89	40-140	0.2	30	
Benzo(a)anthracene	2.87	0.333	mg/kg wet	3.333		86	40-140	5	30	
Benzo(a)pyrene	2.71	0.167	mg/kg wet	3.333		81	40-140	3	30	
Benzo(b)fluoranthene	2.97	0.333	mg/kg wet	3.333		89	40-140	0.5	30	
Benzo(g,h,i)perylene	2.81	0.333	mg/kg wet	3.333		84	40-140	0.3	30	
Benzo(k)fluoranthene	3.05	0.333	mg/kg wet	3.333		92	40-140	1	30	
bis(2-Ethylhexyl)phthalate	3.19	0.333	mg/kg wet	3.333		96	40-140	2	30	
Butylbenzylphthalate	3.14	0.333	mg/kg wet	3.333		94	40-140	0.7	30	
Carbazole	2.97	0.333	mg/kg wet	3.333		89	40-140	0.6	30	
Chrysene	2.82	0.167	mg/kg wet	3.333		85	40-140	6	30	
Dibenzo(a,h)Anthracene	3.28	0.167	mg/kg wet	3.333		98	40-140	3	30	
Dibenzofuran	2.74	0.333	mg/kg wet	3.333		82	40-140	0.7	30	
Diethylphthalate	2.86	0.333	mg/kg wet	3.333		86	40-140	0.8	30	
Dimethylphthalate	2.77	0.333	mg/kg wet	3.333		83	40-140	0.1	30	
Di-n-butylphthalate	3.11	0.333	mg/kg wet	3.333		93	40-140	2	30	
Di-n-octylphthalate	3.02	0.333	mg/kg wet	3.333		91	40-140	4	30	
Fluoranthene	2.93	0.333	mg/kg wet	3.333		88	40-140	1	30	
Fluorene	2.85	0.333	mg/kg wet	3.333		86	40-140	0.3	30	
Hexachlorobenzene	2.72	0.333	mg/kg wet	3.333		82	40-140	4	30	
Hexachlorocyclopentadiene	1.93	1.67	mg/kg wet	3.333		58	40-140	2	30	
Indeno(1,2,3-cd)Pyrene	2.67	0.333	mg/kg wet	3.333		80	40-140	2	30	
Naphthalene	2.77	0.333	mg/kg wet	3.333		83	40-140	0.4	30	
Phenanthrene	2.97	0.333	mg/kg wet	3.333		89	40-140	0.9	30	
Phenol	2.68	0.333	mg/kg wet	3.333		80	30-130	3	30	
Pyrene	3.05	0.333	mg/kg wet	3.333		91	40-140	1	30	
Surrogate: 1,2-Dichlorobenzene-d4	*2.93*		mg/kg wet	*3.333*		*88*	*30-130*			
Surrogate: 2,4,6-Tribromophenol	*4.59*		mg/kg wet	*5.000*		*92*	*30-130*			
Surrogate: 2-Chlorophenol-d4	*4.69*		mg/kg wet	*5.000*		*94*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*3.06*		mg/kg wet	*3.333*		*92*	*30-130*			
Surrogate: 2-Fluorophenol	*4.46*		mg/kg wet	*5.000*		*89*	*30-130*			
Surrogate: Nitrobenzene-d5	*3.16*		mg/kg wet	*3.333*		*95*	*30-130*			
Surrogate: Phenol-d6	*4.68*		mg/kg wet	*5.000*		*94*	*30-130*			
Surrogate: p-Terphenyl-d14	*3.07*		mg/kg wet	*3.333*		*92*	*30-130*			
8270D(SIM) Polynuclear Aromatic Hydrocarbons										
Batch CH30811 - 3541										
Blank										
2-Methylnaphthalene	ND	0.017	mg/kg wet							
Acenaphthene	ND	0.017	mg/kg wet							
Acenaphthylene	ND	0.017	mg/kg wet							
Anthracene	ND	0.017	mg/kg wet							
Benzo(a)anthracene	ND	0.017	mg/kg wet							
Benzo(a)pyrene	ND	0.017	mg/kg wet							
Benzo(b)fluoranthene	ND	0.017	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308104

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D(SIM) Polynuclear Aromatic Hydrocarbons										
Batch CH30811 - 3541										
Benzo(g,h,i)perylene	ND	0.017	mg/kg wet							
Benzo(k)fluoranthene	ND	0.017	mg/kg wet							
Chrysene	ND	0.017	mg/kg wet							
Dibenzo(a,h)Anthracene	ND	0.017	mg/kg wet							
Fluoranthene	ND	0.017	mg/kg wet							
Fluorene	ND	0.017	mg/kg wet							
Indeno(1,2,3-cd)Pyrene	ND	0.017	mg/kg wet							
Naphthalene	ND	0.017	mg/kg wet							
Phenanthrene	ND	0.017	mg/kg wet							
Pyrene	ND	0.017	mg/kg wet							
Surrogate: 1,2-Dichlorobenzene-d4	*0.119*		mg/kg wet	*0.3333*		*36*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*0.125*		mg/kg wet	*0.3333*		*38*	*30-130*			
Surrogate: Nitrobenzene-d5	*0.128*		mg/kg wet	*0.3333*		*38*	*30-130*			
Surrogate: p-Terphenyl-d14	*0.183*		mg/kg wet	*0.3333*		*55*	*30-130*			
LCS										
2-Methylnaphthalene	0.252	0.017	mg/kg wet	0.2667		95	40-140			
Acenaphthene	0.233	0.017	mg/kg wet	0.2667		87	40-140			
Acenaphthylene	0.211	0.017	mg/kg wet	0.2667		79	40-140			
Anthracene	0.254	0.017	mg/kg wet	0.2667		95	40-140			
Benzo(a)anthracene	0.263	0.017	mg/kg wet	0.2667		98	40-140			
Benzo(a)pyrene	0.242	0.017	mg/kg wet	0.2667		91	40-140			
Benzo(b)fluoranthene	0.243	0.017	mg/kg wet	0.2667		91	40-140			
Benzo(g,h,i)perylene	0.281	0.017	mg/kg wet	0.2667		105	40-140			
Benzo(k)fluoranthene	0.243	0.017	mg/kg wet	0.2667		91	40-140			
Chrysene	0.259	0.017	mg/kg wet	0.2667		97	40-140			
Dibenzo(a,h)Anthracene	0.310	0.017	mg/kg wet	0.2667		116	40-140			
Fluoranthene	0.234	0.017	mg/kg wet	0.2667		88	40-140			
Fluorene	0.243	0.017	mg/kg wet	0.2667		91	40-140			
Indeno(1,2,3-cd)Pyrene	0.290	0.017	mg/kg wet	0.2667		109	40-140			
Naphthalene	0.236	0.017	mg/kg wet	0.2667		88	40-140			
Phenanthrene	0.251	0.017	mg/kg wet	0.2667		94	40-140			
Pyrene	0.260	0.017	mg/kg wet	0.2667		97	40-140			
Surrogate: 1,2-Dichlorobenzene-d4	*0.240*		mg/kg wet	*0.3333*		*72*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*0.233*		mg/kg wet	*0.3333*		*70*	*30-130*			
Surrogate: Nitrobenzene-d5	*0.246*		mg/kg wet	*0.3333*		*74*	*30-130*			
Surrogate: p-Terphenyl-d14	*0.322*		mg/kg wet	*0.3333*		*97*	*30-130*			
LCS Dup										
2-Methylnaphthalene	0.206	0.017	mg/kg wet	0.2667		77	40-140	20	30	
Acenaphthene	0.199	0.017	mg/kg wet	0.2667		74	40-140	16	30	
Acenaphthylene	0.177	0.017	mg/kg wet	0.2667		66	40-140	17	30	
Anthracene	0.217	0.017	mg/kg wet	0.2667		81	40-140	16	30	
Benzo(a)anthracene	0.244	0.017	mg/kg wet	0.2667		91	40-140	7	30	
Benzo(a)pyrene	0.226	0.017	mg/kg wet	0.2667		85	40-140	7	30	
Benzo(b)fluoranthene	0.238	0.017	mg/kg wet	0.2667		89	40-140	2	30	
Benzo(g,h,i)perylene	0.260	0.017	mg/kg wet	0.2667		97	40-140	8	30	

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308104

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D(SIM) Polynuclear Aromatic Hydrocarbons										
Batch CH30811 - 3541										
Benzo(k)fluoranthene	0.229	0.017	mg/kg wet	0.2667		86	40-140	6	30	
Chrysene	0.238	0.017	mg/kg wet	0.2667		89	40-140	8	30	
Dibenzo(a,h)Anthracene	0.286	0.017	mg/kg wet	0.2667		107	40-140	8	30	
Fluoranthene	0.211	0.017	mg/kg wet	0.2667		79	40-140	10	30	
Fluorene	0.207	0.017	mg/kg wet	0.2667		78	40-140	16	30	
Indeno(1,2,3-cd)Pyrene	0.272	0.017	mg/kg wet	0.2667		102	40-140	7	30	
Naphthalene	0.190	0.017	mg/kg wet	0.2667		71	40-140	21	30	
Phenanthrene	0.212	0.017	mg/kg wet	0.2667		79	40-140	17	30	
Pyrene	0.235	0.017	mg/kg wet	0.2667		88	40-140	10	30	
Surrogate: 1,2-Dichlorobenzene-d4	*0.181*		mg/kg wet	*0.3333*		*54*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*0.186*		mg/kg wet	*0.3333*		*56*	*30-130*			
Surrogate: Nitrobenzene-d5	*0.189*		mg/kg wet	*0.3333*		*57*	*30-130*			
Surrogate: p-Terphenyl-d14	*0.283*		mg/kg wet	*0.3333*		*85*	*30-130*			
Batch CH31330 - 3541										
Blank										
2-Methylnaphthalene	ND	0.017	mg/kg wet							
Acenaphthene	ND	0.017	mg/kg wet							
Acenaphthylene	ND	0.017	mg/kg wet							
Anthracene	ND	0.017	mg/kg wet							
Benzo(a)anthracene	ND	0.017	mg/kg wet							
Benzo(a)pyrene	ND	0.017	mg/kg wet							
Benzo(b)fluoranthene	ND	0.017	mg/kg wet							
Benzo(g,h,i)perylene	ND	0.017	mg/kg wet							
Benzo(k)fluoranthene	ND	0.017	mg/kg wet							
Chrysene	ND	0.017	mg/kg wet							
Dibenzo(a,h)Anthracene	ND	0.017	mg/kg wet							
Fluoranthene	ND	0.017	mg/kg wet							
Fluorene	ND	0.017	mg/kg wet							
Indeno(1,2,3-cd)Pyrene	ND	0.017	mg/kg wet							
Naphthalene	ND	0.017	mg/kg wet							
Phenanthrene	ND	0.017	mg/kg wet							
Pyrene	ND	0.017	mg/kg wet							
Surrogate: 1,2-Dichlorobenzene-d4	*0.154*		mg/kg wet	*0.3333*		*46*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*0.146*		mg/kg wet	*0.3333*		*44*	*30-130*			
Surrogate: Nitrobenzene-d5	*0.169*		mg/kg wet	*0.3333*		*51*	*30-130*			
Surrogate: p-Terphenyl-d14	*0.239*		mg/kg wet	*0.3333*		*72*	*30-130*			
LCS										
2-Methylnaphthalene	0.167	0.017	mg/kg wet	0.2667		62	40-140			
Acenaphthene	0.143	0.017	mg/kg wet	0.2667		54	40-140			
Acenaphthylene	0.134	0.017	mg/kg wet	0.2667		50	40-140			
Anthracene	0.180	0.017	mg/kg wet	0.2667		67	40-140			
Benzo(a)anthracene	0.178	0.017	mg/kg wet	0.2667		67	40-140			
Benzo(a)pyrene	0.166	0.017	mg/kg wet	0.2667		62	40-140			
Benzo(b)fluoranthene	0.165	0.017	mg/kg wet	0.2667		62	40-140			
Benzo(g,h,i)perylene	0.181	0.017	mg/kg wet	0.2667		68	40-140			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308104

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D(SIM) Polynuclear Aromatic Hydrocarbons										
Batch CH31330 - 3541										
Benzo(k)fluoranthene	0.175	0.017	mg/kg wet	0.2667		66	40-140			
Chrysene	0.180	0.017	mg/kg wet	0.2667		68	40-140			
Dibenzo(a,h)Anthracene	0.204	0.017	mg/kg wet	0.2667		76	40-140			
Fluoranthene	0.174	0.017	mg/kg wet	0.2667		65	40-140			
Fluorene	0.153	0.017	mg/kg wet	0.2667		57	40-140			
Indeno(1,2,3-cd)Pyrene	0.176	0.017	mg/kg wet	0.2667		66	40-140			
Naphthalene	0.138	0.017	mg/kg wet	0.2667		52	40-140			
Phenanthrene	0.171	0.017	mg/kg wet	0.2667		64	40-140			
Pyrene	0.174	0.017	mg/kg wet	0.2667		65	40-140			
Surrogate: 1,2-Dichlorobenzene-d4	*0.171*		mg/kg wet	*0.3333*		*51*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*0.169*		mg/kg wet	*0.3333*		*51*	*30-130*			
Surrogate: Nitrobenzene-d5	*0.191*		mg/kg wet	*0.3333*		*57*	*30-130*			
Surrogate: p-Terphenyl-d14	*0.283*		mg/kg wet	*0.3333*		*85*	*30-130*			
LCS Dup										
2-Methylnaphthalene	0.162	0.017	mg/kg wet	0.2667		61	40-140	3	30	
Acenaphthene	0.137	0.017	mg/kg wet	0.2667		51	40-140	4	30	
Acenaphthylene	0.130	0.017	mg/kg wet	0.2667		49	40-140	3	30	
Anthracene	0.176	0.017	mg/kg wet	0.2667		66	40-140	2	30	
Benzo(a)anthracene	0.176	0.017	mg/kg wet	0.2667		66	40-140	1	30	
Benzo(a)pyrene	0.163	0.017	mg/kg wet	0.2667		61	40-140	2	30	
Benzo(b)fluoranthene	0.167	0.017	mg/kg wet	0.2667		62	40-140	1	30	
Benzo(g,h,i)perylene	0.183	0.017	mg/kg wet	0.2667		69	40-140	1	30	
Benzo(k)fluoranthene	0.177	0.017	mg/kg wet	0.2667		66	40-140	1	30	
Chrysene	0.177	0.017	mg/kg wet	0.2667		66	40-140	2	30	
Dibenzo(a,h)Anthracene	0.208	0.017	mg/kg wet	0.2667		78	40-140	2	30	
Fluoranthene	0.173	0.017	mg/kg wet	0.2667		65	40-140	1	30	
Fluorene	0.141	0.017	mg/kg wet	0.2667		53	40-140	8	30	
Indeno(1,2,3-cd)Pyrene	0.176	0.017	mg/kg wet	0.2667		66	40-140	0	30	
Naphthalene	0.130	0.017	mg/kg wet	0.2667		49	40-140	6	30	
Phenanthrene	0.167	0.017	mg/kg wet	0.2667		63	40-140	2	30	
Pyrene	0.173	0.017	mg/kg wet	0.2667		65	40-140	0.4	30	
Surrogate: 1,2-Dichlorobenzene-d4	*0.155*		mg/kg wet	*0.3333*		*46*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*0.152*		mg/kg wet	*0.3333*		*46*	*30-130*			
Surrogate: Nitrobenzene-d5	*0.172*		mg/kg wet	*0.3333*		*52*	*30-130*			
Surrogate: p-Terphenyl-d14	*0.268*		mg/kg wet	*0.3333*		*80*	*30-130*			
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CH30813 - 3546										
Blank										
C19-C36 Aliphatics1	ND	15.0	mg/kg wet							
C9-C18 Aliphatics1	ND	15.0	mg/kg wet							
Decane (C10)	ND	0.5	mg/kg wet							
Docosane (C22)	ND	0.5	mg/kg wet							
Dodecane (C12)	ND	0.5	mg/kg wet							
Eicosane (C20)	ND	0.5	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308104

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CH30813 - 3546										
Hexacosane (C26)	ND	0.5	mg/kg wet							
Hexadecane (C16)	ND	0.5	mg/kg wet							
Hexatriacontane (C36)	ND	0.5	mg/kg wet							
Nonadecane (C19)	ND	0.5	mg/kg wet							
Nonane (C9)	ND	0.5	mg/kg wet							
Octacosane (C28)	ND	0.5	mg/kg wet							
Octadecane (C18)	ND	0.5	mg/kg wet							
Tetracosane (C24)	ND	0.5	mg/kg wet							
Tetradecane (C14)	ND	0.5	mg/kg wet							
Triacontane (C30)	ND	0.5	mg/kg wet							
Surrogate: 1-Chlorooctadecane	*1.52*		mg/kg wet	*2.000*		*76*	*40-140*			
Blank										
2-Methylnaphthalene	ND	0.20	mg/kg wet							
Acenaphthene	ND	0.40	mg/kg wet							
Acenaphthylene	ND	0.20	mg/kg wet							
Anthracene	ND	0.40	mg/kg wet							
Benzo(a)anthracene	ND	0.40	mg/kg wet							
Benzo(a)pyrene	ND	0.40	mg/kg wet							
Benzo(b)fluoranthene	ND	0.40	mg/kg wet							
Benzo(g,h,i)perylene	ND	0.40	mg/kg wet							
Benzo(k)fluoranthene	ND	0.40	mg/kg wet							
C11-C22 Unadjusted Aromatics1	ND	15.0	mg/kg wet							
Chrysene	ND	0.40	mg/kg wet							
Dibenzo(a,h)Anthracene	ND	0.20	mg/kg wet							
Fluoranthene	ND	0.40	mg/kg wet							
Fluorene	ND	0.40	mg/kg wet							
Indeno(1,2,3-cd)Pyrene	ND	0.40	mg/kg wet							
Naphthalene	ND	0.40	mg/kg wet							
Phenanthrene	ND	0.40	mg/kg wet							
Pyrene	ND	0.40	mg/kg wet							
Surrogate: 2-Bromonaphthalene	*2.15*		mg/kg wet	*2.000*		*107*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*2.07*		mg/kg wet	*2.000*		*104*	*40-140*			
Surrogate: O-Terphenyl	*1.75*		mg/kg wet	*2.000*		*88*	*40-140*			
LCS										
C19-C36 Aliphatics1	15.0	15.0	mg/kg wet	16.00		94	40-140			
C9-C18 Aliphatics1	9.2	15.0	mg/kg wet	12.00		76	40-140			
Decane (C10)	1.1	0.5	mg/kg wet	2.000		54	40-140			
Docosane (C22)	1.6	0.5	mg/kg wet	2.000		81	40-140			
Dodecane (C12)	1.2	0.5	mg/kg wet	2.000		59	40-140			
Eicosane (C20)	1.6	0.5	mg/kg wet	2.000		78	40-140			
Hexacosane (C26)	1.6	0.5	mg/kg wet	2.000		80	40-140			
Hexadecane (C16)	1.5	0.5	mg/kg wet	2.000		73	40-140			
Hexatriacontane (C36)	1.6	0.5	mg/kg wet	2.000		82	40-140			
Nonadecane (C19)	1.6	0.5	mg/kg wet	2.000		78	40-140			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308104

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CH30813 - 3546										
Nonane (C9)	0.8	0.5	mg/kg wet	2.000		40	30-140			
Octacosane (C28)	1.6	0.5	mg/kg wet	2.000		80	40-140			
Octadecane (C18)	1.5	0.5	mg/kg wet	2.000		77	40-140			
Tetracosane (C24)	1.6	0.5	mg/kg wet	2.000		79	40-140			
Tetradecane (C14)	1.3	0.5	mg/kg wet	2.000		67	40-140			
Triacontane (C30)	1.6	0.5	mg/kg wet	2.000		81	40-140			
Surrogate: 1-Chlorooctadecane	*1.63*		mg/kg wet	*2.000*		*81*	*40-140*			
LCS										
2-Methylnaphthalene	1.30	0.20	mg/kg wet	2.000		65	40-140			
Acenaphthene	1.33	0.40	mg/kg wet	2.000		66	40-140			
Acenaphthylene	1.33	0.20	mg/kg wet	2.000		67	40-140			
Anthracene	1.35	0.40	mg/kg wet	2.000		68	40-140			
Benzo(a)anthracene	1.37	0.40	mg/kg wet	2.000		68	40-140			
Benzo(a)pyrene	1.68	0.40	mg/kg wet	2.000		84	40-140			
Benzo(b)fluoranthene	1.40	0.40	mg/kg wet	2.000		70	40-140			
Benzo(g,h,i)perylene	1.45	0.40	mg/kg wet	2.000		73	40-140			
Benzo(k)fluoranthene	1.59	0.40	mg/kg wet	2.000		79	40-140			
C11-C22 Unadjusted Aromatics1	27.6	15.0	mg/kg wet	34.00		81	40-140			
Chrysene	1.46	0.40	mg/kg wet	2.000		73	40-140			
Dibenzo(a,h)Anthracene	1.58	0.20	mg/kg wet	2.000		79	40-140			
Fluoranthene	1.43	0.40	mg/kg wet	2.000		71	40-140			
Fluorene	1.39	0.40	mg/kg wet	2.000		69	40-140			
Indeno(1,2,3-cd)Pyrene	1.43	0.40	mg/kg wet	2.000		71	40-140			
Naphthalene	1.19	0.40	mg/kg wet	2.000		59	40-140			
Phenanthrene	1.40	0.40	mg/kg wet	2.000		70	40-140			
Pyrene	1.44	0.40	mg/kg wet	2.000		72	40-140			
Surrogate: 2-Bromonaphthalene	*1.94*		mg/kg wet	*2.000*		*97*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*2.09*		mg/kg wet	*2.000*		*105*	*40-140*			
Surrogate: O-Terphenyl	*1.72*		mg/kg wet	*2.000*		*86*	*40-140*			
LCS										
2-Methylnaphthalene Breakthrough	0.0		%				0-5			
Naphthalene Breakthrough	0.0		%				0-5			
LCS Dup										
C19-C36 Aliphatics1	14.9	15.0	mg/kg wet	16.00		93	40-140	0.6	25	
C9-C18 Aliphatics1	8.6	15.0	mg/kg wet	12.00		72	40-140	6	25	
Decane (C10)	1.0	0.5	mg/kg wet	2.000		51	40-140	6	25	
Docosane (C22)	1.6	0.5	mg/kg wet	2.000		80	40-140	0.7	25	
Dodecane (C12)	1.1	0.5	mg/kg wet	2.000		57	40-140	4	25	
Eicosane (C20)	1.5	0.5	mg/kg wet	2.000		76	40-140	2	25	
Hexacosane (C26)	1.6	0.5	mg/kg wet	2.000		80	40-140	0.2	25	
Hexadecane (C16)	1.4	0.5	mg/kg wet	2.000		68	40-140	7	25	
Hexatriacontane (C36)	1.6	0.5	mg/kg wet	2.000		81	40-140	0.6	25	
Nonadecane (C19)	1.5	0.5	mg/kg wet	2.000		75	40-140	4	25	

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308104

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CH30813 - 3546										
Nonane (C9)	0.8	0.5	mg/kg wet	2.000		40	30-140	2	25	
Octacosane (C28)	1.6	0.5	mg/kg wet	2.000		81	40-140	0.2	25	
Octadecane (C18)	1.4	0.5	mg/kg wet	2.000		72	40-140	6	25	
Tetracosane (C24)	1.6	0.5	mg/kg wet	2.000		80	40-140	0.2	25	
Tetradecane (C14)	1.3	0.5	mg/kg wet	2.000		63	40-140	6	25	
Triacontane (C30)	1.6	0.5	mg/kg wet	2.000		80	40-140	0.3	25	
Surrogate: 1-Chlorooctadecane	*1.58*		mg/kg wet	*2.000*		*79*	*40-140*			
LCS Dup										
2-Methylnaphthalene	1.25	0.20	mg/kg wet	2.000		62	40-140	4	20	
Acenaphthene	1.26	0.40	mg/kg wet	2.000		63	40-140	6	20	
Acenaphthylene	1.30	0.20	mg/kg wet	2.000		65	40-140	3	20	
Anthracene	1.36	0.40	mg/kg wet	2.000		68	40-140	0.4	20	
Benzo(a)anthracene	1.43	0.40	mg/kg wet	2.000		71	40-140	4	20	
Benzo(a)pyrene	1.73	0.40	mg/kg wet	2.000		86	40-140	3	20	
Benzo(b)fluoranthene	1.49	0.40	mg/kg wet	2.000		74	40-140	6	20	
Benzo(g,h,i)perylene	1.50	0.40	mg/kg wet	2.000		75	40-140	3	20	
Benzo(k)fluoranthene	1.63	0.40	mg/kg wet	2.000		82	40-140	3	20	
C11-C22 Unadjusted Aromatics1	27.4	15.0	mg/kg wet	34.00		81	40-140	0.7	25	
Chrysene	1.51	0.40	mg/kg wet	2.000		76	40-140	4	20	
Dibenzo(a,h)Anthracene	1.61	0.20	mg/kg wet	2.000		80	40-140	2	20	
Fluoranthene	1.46	0.40	mg/kg wet	2.000		73	40-140	2	20	
Fluorene	1.38	0.40	mg/kg wet	2.000		69	40-140	0.7	20	
Indeno(1,2,3-cd)Pyrene	1.48	0.40	mg/kg wet	2.000		74	40-140	3	20	
Naphthalene	1.18	0.40	mg/kg wet	2.000		59	40-140	0.7	20	
Phenanthrene	1.35	0.40	mg/kg wet	2.000		67	40-140	4	20	
Pyrene	1.45	0.40	mg/kg wet	2.000		72	40-140	0.7	20	
Surrogate: 2-Bromonaphthalene	*1.86*		mg/kg wet	*2.000*		*93*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*2.00*		mg/kg wet	*2.000*		*100*	*40-140*			
Surrogate: O-Terphenyl	*1.69*		mg/kg wet	*2.000*		*85*	*40-140*			
LCS Dup										
2-Methylnaphthalene Breakthrough	0.0		%				0-5		200	
Naphthalene Breakthrough	0.0		%				0-5		200	

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308104

Notes and Definitions

U	Analyte included in the analysis, but not detected
Q	Calibration required quadratic regression (Q).
ICV	Initial Calibration Verification recovery is outside of control limit (ICV).
D	Diluted.
C+	Continuing Calibration recovery is above upper control limit (C+).
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	Detection Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308104

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Department of Defense (DoD) Environmental Laboratory Accreditation Program (ELAP)
A2LA Accredited: Testing Cert# 2864.01
http://www.a2la.org/scopepdf/2864-01.pdf

Rhode Island Potable and Non Potable Water: LAI00179
http://www.health.ri.gov/labs/waterlabs-instate.php

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750
http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI0002
http://www.maine.gov/dep/blwq/topic/vessel/lab_list.pdf

Massachusetts Potable and Non Potable Water: M-RI002
http://public.dep.state.ma.us/labcert/labcert.aspx

New Hampshire (NELAP accredited) Potable and Non PotableWater, Solid and Hazardous Waste: 2424
http://www4.egov.nh.gov/des/nhelap/namesearch.asp

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313
http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006
http://datamine2.state.nj.us/dep/DEP_OPRA/

United States Department of Agriculture Soil Permit: S-54210

Maryland Potable Water: 301
http://www.mde.state.md.us/assets/document/WSP_labs-2009apr20.pdf

CHEMISTRY

A2LA Accredited: Testing Cert # 2864.01
Lead in Paint, Phthalates, Lead in Children's Metals Products (Including Jewelry)
http://www.A2LA.org/dirsearchnew/newsearch.cfm

CPSC ID# 1141
Lead Paint, Lead in Children's Metals Jewelry
http://www.cpsc.gov/cgi-bin/labapplist.aspx

Sterling Analytical, Inc.
15 Agawam Avenue
West Springfield, MA 01089
Phone (413) 214-6541 Fax (413) 214-6842
email-madhu@sterlinganalytical.com

Visit our website: www.sterlinganalytical.com

Mass Certification - MA-00071
Conn Certification - PH-0520

Report Date August 13, 2013

Customer	Contact	Laboratory Supervisor	eMail
ESS Laboratory	C. Taylor	Madhu Shah	madhu@sterlinganalytical.com

Sample Description
Analysis of Solid Samples

Samples Analyzed

Enclosed are Report No(s): 39711 to 39720

ICV 50,000 = 49,999mg/kg
CCV 50,000 = 48,137mg/kg

Sample # 39720 = 31,280mg/kg

39720 MS+50,000 = 74,810mg/kg 87.0% Rec
39720 MSD = 75860mg/kg 89.2% Rec

Thank you for your business

Madhu Shah

Madhu Shah, Laboratory Supervisor

8/13/13

Date

ALL the information contained in this report has been reviewed for accuracy and checked against all quality control requirements outlined in each applicable method.
This report may not be reproduced, except in full, without written approval from Sterling Analytical, Inc.

Sample	Description	Source	Taken/Time	Received
39711	1308104-2	ESS Laboratory	8/1/13	8/9/13

Parameter	Results		MDL	Method	Analyzed/Time	Tech
Total Organic Carbon Lloyd Kah	45,260	mg/kg	500.00	Lloyd Kahn	08/12/13	sjr

Sample	Description	Source	Taken/Time	Received
39712	1308104-4	ESS Laboratory	8/1/13	8/9/13

Parameter	Results		MDL	Method	Analyzed/Time	Tech
Total Organic Carbon Lloyd Kah	47,980	mg/kg	500.00	Lloyd Kahn	08/12/13	sjr

Sample	Description	Source	Taken/Time	Received
39713	1308104-5	ESS Laboratory	8/1/13	8/9/13

Parameter	Results		MDL	Method	Analyzed/Time	Tech
Total Organic Carbon Lloyd Kah	59,620	mg/kg	500.00	Lloyd Kahn	08/12/13	sjr

Sample	Description	Source	Taken/Time	Received
39714	1308104-6	ESS Laboratory	8/1/13	8/9/13

Parameter	Results		MDL	Method	Analyzed/Time	Tech
Total Organic Carbon Lloyd Kah	54,760	mg/kg	500.00	Lloyd Kahn	08/12/13	sjr

Sample	Description	Source	Taken/Time	Received
39715	1308104-9	ESS Laboratory	8/1/13	8/9/13

Parameter	Results		MDL	Method	Analyzed/Time	Tech
Total Organic Carbon Lloyd Kah	75,660	mg/kg	500.00	Lloyd Kahn	08/12/13	sjr

Sample	Description	Source	Taken/Time	Received
39716	1308104-10	ESS Laboratory	8/1/13	8/9/13

Parameter	Results		MDL	Method	Analyzed/Time	Tech
Total Organic Carbon Lloyd Kah	19,710	mg/kg	500.00	Lloyd Kahn	08/12/13	sjr

Sample	Description	Source	Taken/Time	Received
39717	1308104-14	ESS Laboratory	8/1/13	8/9/13

Parameter	Results		MDL	Method	Analyzed/Time	Tech
Total Organic Carbon Lloyd Kah	5,210	mg/kg	500.00	Lloyd Kahn	08/13/13	sjr

Sample	Description	Source	Taken/Time	Received
39718	1308104-15	ESS Laboratory	8/1/13	8/9/13

Parameter	Results		MDL	Method	Analyzed/Time	Tech
Total Organic Carbon Lloyd Kah	50,690	mg/kg	500.00	Lloyd Kahn	08/13/13	sjr

Sample	Description	Source	Taken/Time	Received
39719	1308104-18	ESS Laboratory	8/1/13	8/9/13

Parameter	Results		MDL	Method	Analyzed/Time	Tech
Total Organic Carbon Lloyd Kah	24,610	mg/kg	500.00	Lloyd Kahn	08/13/13	sjr

Sample	Description	Source	Taken/Time	Received
39720	1308104-19	ESS Laboratory	8/1/13	8/9/13

Parameter	Results		MDL	Method	Analyzed/Time	Tech
Total Organic Carbon Lloyd Kah	31,280	mg/kg	500.00	Lloyd Kahn	08/13/13	sjr

Sterling Analytical, Inc.
P.O. Box 2010
West Springfield, MA 01090-2010
Phone (413) 787-9064 Fax (413) 787-905
email-madhu@sterlinganalytical.com

Sample Number 39720

QA/QC Results

8/14/2013

Parameter	Blank	LCS	CCV	Sample Results	Spiked With		Theoretical	Spiked Results	Percent Recovery
Total Organic Carbon Lloyd Kah	1	466	50,866		50000	Spiked	50000.000	74807.00	149.61%
						Duplicate	50000.000	75858.00	151.72%

ICV- true value 50,000 found 49,535---- Date analyzed 8/14/13

ICV: Initial Control Verification CCV:Continuous Control Verification LCS: Fortified

Signature Madhu Shah

Madhu Shah

ESS Laboratory

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

Page_____ of_____

Turn Time ___ Standard Other 48 hr
If faster than 5 days, prior approval by laboratory is required #

State where samples were collected from:
MA) RI CT NH NJ NY ME Other

Is this project for any of the following:
MA-MCP) Navy USACE Other

Reporting Limits

ESS LAB PROJECT ID

Electronic Deliverable Yes ✓ No ___
Format: Excel ___ Access ___ PDF ✓ Other ___

Co. Name	Project #	Project Name (20 Char. or less)
ESS	1305104	
Contact Person	**Address**	
Christine Taylor		
City	**State**	**Zip**
Telephone #	**Fax #**	**Email Address**

PO# 1305104

ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	Write Required Analysis: TOC (Mod. Lloyd Kahn)													
	7/11/13	1113		✓	SD	1305104-2	1	1	6	X													
		1028		✓		1305104-4	✓	✓	✓														
		1101		✓		-5	✓	✓	✓														
		1101		✓	✓	-6	✓	✓	✓	✓													
		101		✓	✓	-9	✓	✓	✓	✓													
		955		✓	✓	-10	✓	✓	✓	✓													
		1121		✓	✓	-14	✓	✓	✓	✓													
		900		✓	✓	-15	✓	✓	✓	✓													
		1122		✓	✓	-18	✓	✓	✓	✓													
	↓	1241		✓	✓	-19	✓	✓	✓	✓													

Container Type: P-Poly G-Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present ___ Yes ___ No Internal Use Only

Seals Intact ___ Yes ___ No NA: ___ [ ] Pickup

Cooler Temp: _____ [ ] Technicians _____

Preservation Code 1- NP, 2- HCl, 3- H_2SO_4, 4- HNO_3, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9- _____

Sampled by:

Commenrs:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	7/12/13 1350						
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt

10/26/04 A

Sample and Cooler Receipt Checklist

Client: GZA GeoEnvironmental, Inc.
Client Project ID: _____
Shipped/Delivered Via: ESS Courier

ESS Project ID: 13080104
Date Project Due: 8/14/13
Days For Project: 5 Day

Items to be checked upon receipt:

1. Air Bill Manifest Present?	* No	10. Are the samples properly preserved?	Yes
Air No.:		11. Proper sample containers used?	Yes
2. Were Custody Seals Present?	No	12. Any air bubbles in the VOA vials?	N/A
3. Were Custody Seals Intact?	N/A	13. Holding times exceeded?	No
4. Is Radiation count < 100 CPM?	Yes	14. Sufficient sample volumes?	Yes
5. Is a cooler present?	Yes	15. Any Subcontracting needed?	~~No~~ Yes CET 8/7/13
Cooler Temp: **4.1**		16. Are ESS labels on correct containers?	Yes|No
Iced With: **Ice**		17. Were samples received intact?	Yes|No
6. Was COC included with samples?	Yes	ESS Sample IDs:	1308104(2,45,6,9,10,14,15,18,19
7. Was COC signed and dated by client?	Yes	Sub Lab:	(Sterling) + ~~Test America~~
8. Does the COC match the sample	Yes	Analysis:	TOC
9. Is COC complete and correct?	Yes	TAT:	Std

18. Was there need to call project manager to discuss status? If yes, please explain.

_____

_____

_____

Who was called?:_____ By whom? _____

Sample Number	Properly Preserved	Container Type	# of Containers	Preservative
1	Yes	4 oz Soil Jar	1	NP
1	Yes	8 oz Soil Jar	1	NP
2	Yes	2 oz Soil Jar	1	NP
2	Yes	4 oz Soil Jar	1	NP
2	Yes	8 oz Soil Jar	1	NP
3	Yes	4 oz Soil Jar	1	NP
3	Yes	8 oz Soil Jar	1	NP
4	Yes	2 oz Soil Jar	1	NP
4	Yes	4 oz Soil Jar	1	NP
4	Yes	8 oz Soil Jar	1	NP
5	Yes	2 oz Soil Jar	1	NP
5	Yes	4 oz Soil Jar	1	NP
5	Yes	8 oz Soil Jar	1	NP
6	Yes	2 oz Soil Jar	1	NP
6	Yes	4 oz Soil Jar	1	NP
6	Yes	8 oz Soil Jar	1	NP
7	Yes	4 oz Soil Jar	1	NP
7	Yes	8 oz Soil Jar	1	NP
8	Yes	4 oz Soil Jar	1	NP
8	Yes	8 oz Soil Jar	1	NP
9	Yes	2 oz Soil Jar	1	NP
9	Yes	4 oz Soil Jar	1	NP
9	Yes	8 oz Soil Jar	1	NP
10	Yes	2 oz Soil Jar	1	NP
10	Yes	4 oz Soil Jar	1	NP

Sample and Cooler Receipt Checklist

Client: GZA GeoEnvironmental, Inc. ESS Project ID: 13080104

10	Yes	8 oz Soil Jar	1	NP
11	Yes	4 oz Soil Jar	1	NP
11	Yes	8 oz Soil Jar	1	NP
12	Yes	4 oz Soil Jar	1	NP
12	Yes	8 oz Soil Jar	1	NP
13	Yes	4 oz Soil Jar	1	NP
13	Yes	8 oz Soil Jar	1	NP
14	Yes	2 oz Soil Jar	1	NP
14	Yes	4 oz Soil Jar	1	NP
14	Yes	8 oz Soil Jar	1	NP
15	Yes	2 oz Soil Jar	1	NP
15	Yes	4 oz Soil Jar	1	NP
15	Yes	8 oz Soil Jar	1	NP
16	Yes	4 oz Soil Jar	1	NP
16	Yes	8 oz Soil Jar	1	NP
17	Yes	4 oz Soil Jar	1	NP
17	Yes	8 oz Soil Jar	1	NP
18	Yes	2 oz Soil Jar	1	NP
18	Yes	4 oz Soil Jar	1	NP
18	Yes	8 oz Soil Jar	1	NP
19	Yes	2 oz Soil Jar	1	NP
19	Yes	4 oz Soil Jar	1	NP
19	Yes	8 oz Soil Jar	1	NP
20	Yes	4 oz Soil Jar	1	NP
20	Yes	8 oz Soil Jar	1	NP

Completed By: _____ Date/Time: 8/7/13 1325

Reviewed By: _____ Date/Time: 8/7/13 1409

ESS Laboratory
Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

ESS LAB PROJECT ID: 1308104

Turn Time ___x___ Standard Rush_____ Approved By: _____

Reporting Limits - see prev. email correspondence

State where samples were collected: MA RI CT NH NJ NY ME Other_____

Is this project for any of the following: (please circle)
MA-MCP CT-RCP RGP DOD Other_____

Electonic Deliverable Yes__x__ No____
Format: Excel_x__ Access___ PDF___ Other_____

GZA Project Manager: David E. Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Avenue
Norwood, MA 02062
(781) 278-3700
PRESUMPTIVE CERTAINTY REQUIRED

Project # 171521.02
Project Name: Former Everett Staging Yard
Contract Pricing _____
Special Pricing WO#: _____

ESS Lab Sample ID	Date	Collection Time	Grab -G Composite-C	Matrix	Sample Identification	# of Containers	MCP 14 metals	B/N Phthalates Esters 8270	PAH 8270 SIM	EPH Fractions	PCBs	TOC by Lloyd Kahn					Comment #
						Analysis											
1	8/1/13	10:41	G	Sed	GZ-106 6-9'	2	X										
2	8/1/13	11:13	G	Sed	GZ-107 0-0.5'	2	X					X					
3	8/1/13	11:13	G	Sed	GZ-107 2-4'	2	X										
4	8/6/13	10:28	G	Sed	GZ-108 T 0-0.5'	2	X	X	X	X	X	X					
5	8/1/13	11:01	G	Sed	GZ-108 2-4'	2	X	X	X	X	X	X					
6	8/1/13	11:01	G	Sed	GZ-108 4-6'	2	X					X					
7	8/1/13	11:01	G	Sed	GZ-108 8-10'	2	X										
8	8/6/13	9:28	G	Sed	GZ-109 T 0-0.5'	2	X										
9	8/2/13	8:01	G	Sed	GZ-109 0.5-2.5'	2	X	X	X	X	X	X					
10	8/5/13	9:55	G	Sed	GZ-110B 0-0.5'	2	X					X					

Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-_____

Container Type: P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA — AG AG G AG AG AG

Matrix: S-Soil SD-Solid D-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filter

Cooler Present ✓ Yes _____ No
Seals Intact ✓ Yes _____ No NA: _____
Cooler Temperature: 4.1 3.6 4.8 2.6 3.2

Sampled by : Dan Scanlon
Comments: Contract Price - 10%

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Scanlon	8/6/13	8/7/13 1030	1120	8/7/13	8/7/13 11:2

Please E-mail all changes to Chain of Custody in writing.

2 of 2

ESS Laboratory

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www.esslaboratory.com

CHAIN OF CUSTODY

ESS LAB PROJECT ID: 1308104

Turn Time ___x___Standard Rush_____ Approved By: _____

Reporting Limits - see prev. email correspondence

State where samples were collected: MA RI CT NH NJ NY ME Other_____

Is this project for any of the following: (please circle)
MA-MCP CT-RCP RGP DOD Other_____

Electonic Deliverable Yes__x__ No____
Format: Excel_x__ Access___ PDF___ Other_____

GZA Project Manager: David E. Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Avenue
Norwood, MA 02062
(781) 278-3700
PRESUMPTIVE CERTAINTY REQUIRED

Project # 171521.02

Project Name: Former Everett Staging Yard

Contract Pricing _____
Special Pricing WO#: _____

ESS Lab Sample ID	Date	Collection Time	Grab -G Composite-C	Matrix	Sample Identification	# of Containers	Analysis: MCP 14 metals	B/N Phthalates Esters 8270	PAH 8270 SIM	EPH Fractions	PCBs	TOC by Lloyd Kahn					Comment #
11	8/5/13	9:55	G	Sed	GZ-110B 2-4'	2	X										
12	8/1/13	11:21	G	Sed	GZ-111 0-0.5'	2	X										
13	8/1/13	11:21	G	Sed	GZ-111 2-4'	2	X										
14	8/1/13	11:21	G	Sed	GZ-111 7-8'	2	X	X	X	X	X	X					
15	8/6/13	9:00	G	Sed	GZ-112 T 0-0.5'	2	X					X					
16	8/1/13	12:26	G	Sed	GZ-112 2-4'	2	X										
17	8/1/13	12:26	G	Sed	GZ-112 6-8'	2	X										
18	8/6/13	11:11	G	Sed	GZ-113 T 0-0.5'	2	X	X	X	X	X	X					
19	8/1/13	12:41	G	Sed	GZ-113 2-4'	2	X	X	X	X	X	X					
20	8/1/13	12:41	G	Sed	GZ-113 4-6'	2	X										
Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-_____																	
Container Type: P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA							AG	AG	AG	AG	AG	AG					

Matrix: S-Soil SD-Solid D-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filter

Cooler Present ✓ Yes _____ No
Seals Intact loose Yes _____ No NA: BB
5 Coolers
Cooler Temperature: 4.1 3.6 4.8 2.6 3.2

Sampled by : Dan Scanlon

Comments: Contract Price - 10%

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
W Oosten	6/6/13 13:01	Bill Bussan 8/7/13 1030	Bill Bussan 1120	8/7/13	8/7/13 11:30

Please E-mail all changes to Chain of Custody in writing.

CERTIFICATE OF ANALYSIS

David E Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Avenue
Norwood, MA 02062

RE: Everett (01.0171521.02)
ESS Laboratory Work Order Number: 1308105

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard
Laboratory Director

REVIEWED
By ESS Laboratory at 4:13 pm, Aug 19, 2013

Analytical Summary
The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with NELAC Standards, A2LA and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibratins, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.

Subcontracted Analyses

Sterling Analytical Lab - West Springfield, MA	Total Organic Carbon

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308105

SAMPLE RECEIPT

The following samples were received on August 07, 2013 for the analyses specified on the enclosed Chain of Custody Record.

To achieve CAM compliance for MCP data, ESS Laboratory has performed and reviewed all QA/QC Requirements and Performance Standards listed in each method. Holding times and preservation have also been reviewed. All CAM requirements have been achieved unless noted in the project narrative.

Each method has been set-up in the laboratory to reach required MCP standards. The methods for aqueous VOA and Soil Methanol VOA have known limitations for certain analytes. The regulatory standards may not be achieved due to these limitations. In addition, for all methods, matrix interferences, dilutions, and %Solids may elevate method reporting limits above regulatory standards. ESS Laboratory can provide, upon request, a Data Checker (regulatory standard comparison spreadsheet) electronic deliverable which will highlight these exceedances.

For EPH soil samples, the aromatic range results have been corrected for identified cartridge contaminant in accordance with the CAM protocol.

Question I: All samples for SVOA were analyzed for a subset of the required MCP list per the client's request.

Lab Number	SampleName	Matrix	Analysis
1308105-01	GZ-114T 0-0.5ft	Solid	6010B, 6020A, 7471B, 8082A, 8270D, EPH8270, MADEP-EPH, TOC-LK
1308105-02	GZ-114 2-5ft	Solid	6010B, 6020A, 7471B, 8082A, 8270D, EPH8270, MADEP-EPH, TOC-LK
1308105-03	GZ-114 5-7ft	Solid	6010B, 6020A, 7471B
1308105-04	GZ-115T 0-0.5ft	Solid	6010B, 6020A, 7471B, TOC-LK
1308105-05	GZ-115 2-5ft	Solid	6010B, 6020A, 7471B
1308105-06	GZ-115 5-7ft	Solid	6010B, 6020A, 7471B
1308105-07	GZ-116T 0-0.5ft	Solid	6010B, 6020A, 7471B, 8082A, 8270D, EPH8270, MADEP-EPH, TOC-LK
1308105-08	GZ-116 0.5-2ft	Solid	6010B, 6020A, 7471B, 8082A, 8270D, EPH8270, MADEP-EPH, TOC-LK
1308105-09	GZ-116 2-4ft	Solid	6010B, 7.3.3.2, 7.3.4.1, 7471B, 8082A, 8270D, EPH8270, MADEP-EPH, TOC-LK
1308105-10	GZ-116 4-6ft	Solid	6010B, 6020A, 7471B
1308105-11	GZ-116 6-8ft	Solid	6010B, 6020A, 7471B, 8082A, 8270D, EPH8270, MADEP-EPH, TOC-LK
1308105-12	GZ-116 8-9ft	Solid	6010B, 6020A, 7471B
1308105-13	GZ-117T 0-0.5ft	Solid	6010B, 6020A, 7471B, TOC-LK
1308105-14	GZ-117 2-4ft	Solid	6010B, 6020A, 7471B
1308105-15	GZ-117 4-6ft	Solid	6010B, 6020A, 7471B

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
ESS Laboratory Work Order: 1308105

1308105-16	GZ-118A 0-0.5ft	Solid	6010B, 6020A, 7471B, TOC-LK
1308105-17	GZ-118A 0.5-1ft	Solid	6010B, 6020A, 7471B
1308105-18	GZ-119T 0-0.5ft	Solid	6010B, 6020A, 7471B, 8082A, 8270D, EPH8270, MADEP-EPH, TOC-LK
1308105-19	GZ-119 2-4ft	Solid	6010B, 6020A, 7471B, 8082A, 8270D, EPH8270, MADEP-EPH, TOC-LK
1308105-20	GZ-120T 0-0.5ft	Solid	6010B, 6020A, 7471B, TOC-LK

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308105

PROJECT NARRATIVE

8082A Polychlorinated Biphenyls (PCB)

1308105-01 **Surrogate recovery(ies) below lower control limit (S-).**
Tetrachloro-m-xylene [2C] (24% @ 30-150%)

1308105-02 **Surrogate recovery(ies) diluted below the MRL (SD).**
Decachlorobiphenyl (% @ 30-150%), Decachlorobiphenyl [2C] (% @ 30-150%), Tetrachloro-m-xylene (% @ 30-150%), Tetrachloro-m-xylene [2C] (% @ 30-150%)

1308105-18 **Surrogate recovery(ies) below lower control limit (S-).**
Tetrachloro-m-xylene [2C] (21% @ 30-150%)

8270D Semi-Volatile Organic Compounds

1308105-01 **Surrogate recovery(ies) below lower control limit (S-).**
2,4,6-Tribromophenol (14% @ 30-130%)

1308105-07 **Surrogate recovery(ies) below lower control limit (S-).**
2,4,6-Tribromophenol (28% @ 30-130%)

1308105-08 **Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).**
1,2-Dichlorobenzene-d4 (27% @ 30-130%), 2,4,6-Tribromophenol (25% @ 30-130%), 2-Fluorophenol (27% @ 30-130%)

1308105-09 **Surrogate recovery(ies) below lower control limit (S-).**
2,4,6-Tribromophenol (% @ 30-130%)

1308105-11 **Surrogate recovery(ies) below lower control limit (S-).**
2,4,6-Tribromophenol (7% @ 30-130%)

1308105-18 **Surrogate recovery(ies) below lower control limit (S-).**
2,4,6-Tribromophenol (29% @ 30-130%)

CWH0106-CCV1 **Calibration required quadratic regression (Q).**
2,4-Dinitrophenol (110% @ 80-120%), 4,6-Dinitro-2-Methylphenol (114% @ 70-130%), Benzoic Acid (103% @ 70-130%), Pentachlorophenol (103% @ 80-120%)

CWH0106-CCV1 **Initial Calibration Verification recovery is outside of control limit (ICV).**
Benzidine , Hexachlorocyclopentadiene

8270D(SIM) Polynuclear Aromatic Hydrocarbons

1308105-08 **Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).**
1,2-Dichlorobenzene-d4 (26% @ 30-130%), Nitrobenzene-d5 (26% @ 30-130%)

1308105-18 **Surrogate recovery(ies) below lower control limit (S-).**
Nitrobenzene-d5 (26% @ 30-130%)

MADEP-EPH Extractable Petroleum Hydrocarbons

CWH0135-CCV4 **Continuing Calibration recovery is above upper control limit (C+).**
Benzo(a)pyrene (121% @ 80-120%)

Total Metals Solid

1308105-09 **Elevated Method Reporting Limits due to sample matrix (EL).**
Antimony , Selenium , Thallium

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308105

No other observations noted.

End of Project Narrative.

DATA USABILITY LINKS

Definitions of Quality Control Parameters

Semivolatile Organics Internal Standard Information

Semivolatile Organics Surrogate Information

Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists

CURRENT SW-846 METHODOLOGY VERSIONS

Analytical Methods

1010A - Flashpoint
6010C - ICP
6020A - ICP MS
7010 - Graphite Furnace
7196A - Hexavalent Chromium
7470A - Aqueous Mercury
7471B - Solid Mercury
8011 - EDB/DBCP/TCP
8015C - GRO/DRO
8081B - Pesticides
8082A - PCB
8100M - TPH
8151A - Herbicides
8260B - VOA
8270D - SVOA
8270D SIM - SVOA Low Level
9014 - Cyanide
9038 - Sulfate
9040C - Aqueous pH
9045D - Solid pH (Corrosivity)
9050A - Specific Conductance
9056A - Anions (IC)
9060A - TOC
9095B - Paint Filter
MADEP 04-1.1 - EPH / VPH

Prep Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5035 - Solid Purge and Trap

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308105

MassDEP Analytical Protocol Certification Form

MADEP RTN: _____

This form provides certification for the following data set: **1308105-01 through 1308105-20**

Matrices: ( ) Ground Water/Surface Water (X) Soil/Sediment ( ) Drinking Water ( ) Air ( ) Other:_____

CAM Protocol (check all that apply below):

( ) 8260 VOC CAM II A	(X) 7470/7471 Hg CAM III B	( ) MassDEP VPH CAM IV A	( ) 8081 Pesticides CAM V B	( ) 7196 Hex Cr CAM VI B	( ) MassDEP APH CAM IX A
(X) 8270 SVOC CAM II B	( ) 7010 Metals CAM III C	(X) MassDEP EPH CAM IV B	( ) 8151 Herbicides CAM V C	( ) 8330 Explosives CAM VIII A	( ) TO-15 VOC CAM IX B
(X) 6010 Metals CAM III A	(X) 6020 Metals CAM III D	(X) 8082 PCB CAM V A	( ) 6860 Perchlorate CAM VIII B	( ) 9014 Total Cyanide/PAC CAM VI A	

Affirmative responses to questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	Yes (X) No ( )
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	Yes (X) No ( )
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	Yes (X) No ( )
D	Does the laboratory report comply with all the reporting requirements specified in the CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	Yes (X) No ( )
E	a. VPH, EPH, APH and TO-15 only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	Yes (X) No ( )
	b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	Yes ( ) No ( )
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	Yes (X) No ( )

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocols(s)?	Yes (X) No ( )*
	***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**	
H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	Yes ( ) No (X)*
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	Yes ( ) No (X)*

All negative responses must be addressed in an attached laboratory narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: Laurel Stoddard

Date: August 19, 2013

Printed Name: Laurel Stoddard

Position: Laboratory Director

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-114T 0-0.5ft
Date Sampled: 08/06/13 09:55
Percent Solids: 29

ESS Laboratory Work Order: 1308105
ESS Laboratory Sample ID: 1308105-01
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (3.1)		6020A		50	JP	08/09/13 18:15	5.52	100	CH30801
Arsenic	**41.4** (3.1)		6010B		1	SVD	08/08/13 19:33	5.52	100	CH30801
Barium	**77.5** (3.1)		6010B		1	SVD	08/08/13 19:33	5.52	100	CH30801
Beryllium	**0.82** (0.13)		6010B		1	SVD	08/08/13 19:33	5.52	100	CH30801
Cadmium	**2.27** (0.62)		6010B		1	SVD	08/08/13 19:33	5.52	100	CH30801
Chromium	**94.2** (1.2)		6010B		1	SVD	08/08/13 19:33	5.52	100	CH30801
Lead	**288** (6.2)		6010B		1	SVD	08/08/13 19:33	5.52	100	CH30801
Mercury	**1.15** (0.300)		7471B		5	NAR	08/09/13 12:32	1.12	40	CH30803
Nickel	**27.6** (3.1)		6010B		1	SVD	08/08/13 19:33	5.52	100	CH30801
Selenium	**3.57** (3.09)		6020A		50	JP	08/09/13 18:15	5.52	100	CH30801
Silver	**2.21** (0.62)		6010B		1	SVD	08/08/13 19:33	5.52	100	CH30801
Thallium	ND (3.09)		6020A		50	JP	08/09/13 18:15	5.52	100	CH30801
Vanadium	**88.0** (1.2)		6010B		1	SVD	08/08/13 19:33	5.52	100	CH30801
Zinc	**416** (3.1)		6010B		1	SVD	08/08/13 19:33	5.52	100	CH30801

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-114T 0-0.5ft
Date Sampled: 08/06/13 09:55
Percent Solids: 29
Initial Volume: 19.1
Final Volume: 5
Extraction Method: 3540

ESS Laboratory Work Order: 1308105
ESS Laboratory Sample ID: 1308105-01
Sample Matrix: Solid
Units: mg/kg dry
Analyst: TJ
Prepared: 8/8/13 17:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0889)		8082A		1	08/11/13 6:26		CH30812
Aroclor 1221	ND (0.0889)		8082A		1	08/11/13 6:26		CH30812
Aroclor 1232	ND (0.0889)		8082A		1	08/11/13 6:26		CH30812
Aroclor 1242	ND (0.0889)		8082A		1	08/11/13 6:26		CH30812
Aroclor 1248	**0.266** (0.0889)		8082A		1	08/11/13 6:26		CH30812
Aroclor 1254	**0.606** (0.0889)		8082A		1	08/11/13 6:26		CH30812
Aroclor 1260	**0.462** (0.0889)		8082A		1	08/11/13 6:26		CH30812
Aroclor 1262	ND (0.0889)		8082A		1	08/11/13 6:26		CH30812
Aroclor 1268	ND (0.0889)		8082A		1	08/11/13 6:26		CH30812

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*79 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*73 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*33 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*24 %*	*S-*	*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-114T 0-0.5ft
Date Sampled: 08/06/13 09:55
Percent Solids: 29
Initial Volume: 30.1
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308105
ESS Laboratory Sample ID: 1308105-01
Sample Matrix: Solid
Units: mg/kg dry
Analyst: IBM
Prepared: 8/8/13 13:40

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.563)		8270D		1	08/08/13 22:04	CWH0106	CH30815
1,2-Dichlorobenzene	ND (0.563)		8270D		1	08/08/13 22:04	CWH0106	CH30815
1,3-Dichlorobenzene	ND (0.563)		8270D		1	08/08/13 22:04	CWH0106	CH30815
1,4-Dichlorobenzene	ND (0.563)		8270D		1	08/08/13 22:04	CWH0106	CH30815
2-Methylnaphthalene	ND (0.563)		8270D		1	08/08/13 22:04	CWH0106	CH30815
2-Methylphenol	ND (0.563)		8270D		1	08/08/13 22:04	CWH0106	CH30815
Acenaphthene	ND (0.563)		8270D		1	08/08/13 22:04	CWH0106	CH30815
Acenaphthylene	ND (0.563)		8270D		1	08/08/13 22:04	CWH0106	CH30815
Anthracene	ND (0.563)		8270D		1	08/08/13 22:04	CWH0106	CH30815
Benzo(a)anthracene	ND (0.563)		8270D		1	08/08/13 22:04	CWH0106	CH30815
Benzo(a)pyrene	ND (0.283)		8270D		1	08/08/13 22:04	CWH0106	CH30815
Benzo(b)fluoranthene	ND (0.563)		8270D		1	08/08/13 22:04	CWH0106	CH30815
Benzo(g,h,i)perylene	ND (0.563)		8270D		1	08/08/13 22:04	CWH0106	CH30815
Benzo(k)fluoranthene	ND (0.563)		8270D		1	08/08/13 22:04	CWH0106	CH30815
bis(2-Ethylhexyl)phthalate	**0.979** (0.563)		8270D		1	08/08/13 22:04	CWH0106	CH30815
Butylbenzylphthalate	ND (0.563)		8270D		1	08/08/13 22:04	CWH0106	CH30815
Carbazole	ND (0.563)		8270D		1	08/08/13 22:04	CWH0106	CH30815
Chrysene	ND (0.283)		8270D		1	08/08/13 22:04	CWH0106	CH30815
Dibenzo(a,h)Anthracene	ND (0.283)		8270D		1	08/08/13 22:04	CWH0106	CH30815
Dibenzofuran	ND (0.563)		8270D		1	08/08/13 22:04	CWH0106	CH30815
Diethylphthalate	ND (0.563)		8270D		1	08/08/13 22:04	CWH0106	CH30815
Dimethylphthalate	ND (0.563)		8270D		1	08/08/13 22:04	CWH0106	CH30815
Di-n-butylphthalate	ND (0.563)		8270D		1	08/08/13 22:04	CWH0106	CH30815
Di-n-octylphthalate	ND (0.563)		8270D		1	08/08/13 22:04	CWH0106	CH30815
Fluoranthene	ND (0.563)		8270D		1	08/08/13 22:04	CWH0106	CH30815
Fluorene	ND (0.563)		8270D		1	08/08/13 22:04	CWH0106	CH30815
Hexachlorobenzene	ND (0.563)		8270D		1	08/08/13 22:04	CWH0106	CH30815
Hexachlorocyclopentadiene	ND (2.83)		8270D		1	08/08/13 22:04	CWH0106	CH30815
Indeno(1,2,3-cd)Pyrene	ND (0.563)		8270D		1	08/08/13 22:04	CWH0106	CH30815
Naphthalene	ND (0.563)		8270D		1	08/08/13 22:04	CWH0106	CH30815
Phenanthrene	ND (0.563)		8270D		1	08/08/13 22:04	CWH0106	CH30815

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-114T 0-0.5ft
Date Sampled: 08/06/13 09:55
Percent Solids: 29
Initial Volume: 30.1
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308105
ESS Laboratory Sample ID: 1308105-01
Sample Matrix: Solid
Units: mg/kg dry
Analyst: IBM
Prepared: 8/8/13 13:40

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Phenol	ND (0.563)		8270D		1	08/08/13 22:04	CWH0106	CH30815
Pyrene	ND (0.563)		8270D		1	08/08/13 22:04	CWH0106	CH30815

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*56 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*14 %*	*S-*	*30-130*
Surrogate: 2-Chlorophenol-d4	*59 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*65 %*		*30-130*
Surrogate: 2-Fluorophenol	*56 %*		*30-130*
Surrogate: Nitrobenzene-d5	*60 %*		*30-130*
Surrogate: Phenol-d6	*59 %*		*30-130*
Surrogate: p-Terphenyl-d14	*81 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-114T 0-0.5ft
Date Sampled: 08/06/13 09:55
Percent Solids: 29
Initial Volume: 15
Final Volume: 0.5
Extraction Method: 3541

ESS Laboratory Work Order: 1308105
ESS Laboratory Sample ID: 1308105-01
Sample Matrix: Solid
Units: mg/kg dry
Analyst: IBM
Prepared: 8/8/13 11:45

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	ND (0.141)		8270D		5	08/10/13 13:05	CWH0128	CH30811
Acenaphthene	ND (0.141)		8270D		5	08/10/13 13:05	CWH0128	CH30811
Acenaphthylene	ND (0.141)		8270D		5	08/10/13 13:05	CWH0128	CH30811
Anthracene	ND (0.141)		8270D		5	08/10/13 13:05	CWH0128	CH30811
Benzo(a)anthracene	**0.215** (0.141)		8270D		5	08/10/13 13:05	CWH0128	CH30811
Benzo(a)pyrene	**0.323** (0.141)		8270D		5	08/10/13 13:05	CWH0128	CH30811
Benzo(b)fluoranthene	**0.458** (0.141)		8270D		5	08/10/13 13:05	CWH0128	CH30811
Benzo(g,h,i)perylene	**0.255** (0.141)		8270D		5	08/10/13 13:05	CWH0128	CH30811
Benzo(k)fluoranthene	**0.147** (0.141)		8270D		5	08/10/13 13:05	CWH0128	CH30811
Chrysene	**0.323** (0.141)		8270D		5	08/10/13 13:05	CWH0128	CH30811
Dibenzo(a,h)Anthracene	ND (0.141)		8270D		5	08/10/13 13:05	CWH0128	CH30811
Fluoranthene	**0.430** (0.141)		8270D		5	08/10/13 13:05	CWH0128	CH30811
Fluorene	ND (0.141)		8270D		5	08/10/13 13:05	CWH0128	CH30811
Indeno(1,2,3-cd)Pyrene	**0.277** (0.141)		8270D		5	08/10/13 13:05	CWH0128	CH30811
Naphthalene	ND (0.141)		8270D		5	08/10/13 13:05	CWH0128	CH30811
Phenanthrene	**0.181** (0.141)		8270D		5	08/10/13 13:05	CWH0128	CH30811
Pyrene	**0.464** (0.141)		8270D		5	08/10/13 13:05	CWH0128	CH30811

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*35 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*39 %*		*30-130*
Surrogate: Nitrobenzene-d5	*31 %*		*30-130*
Surrogate: p-Terphenyl-d14	*76 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-114T 0-0.5ft
Date Sampled: 08/06/13 09:55
Percent Solids: 29

ESS Laboratory Work Order: 1308105
ESS Laboratory Sample ID: 1308105-01
Sample Matrix: Solid

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**50600** (500)		TOC-LK		1	SUB	08/14/13 0:00	mg/kg	CH31926

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-114T 0-0.5ft
Date Sampled: 08/06/13 09:55
Percent Solids: 29
Initial Volume: 15.1
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1308105
ESS Laboratory Sample ID: 1308105-01
Sample Matrix: Solid
Units: mg/kg dry

Prepared: 8/8/13 11:00

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (84.3)		MADEP-EPH		1	IBM	08/09/13 10:18	CWH0117	CH30813
C19-C36 Aliphatics1	**137** (84.3)		MADEP-EPH		1	IBM	08/09/13 10:18	CWH0117	CH30813
C11-C22 Unadjusted Aromatics1	**111** (84.3)		EPH8270		1	IBM	08/09/13 10:04	CWH0116	CH30813
C11-C22 Aromatics1,2	**111** (84.3)		EPH8270			IBM	08/09/13 10:04		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*70 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*107 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*104 %*		*40-140*
Surrogate: O-Terphenyl	*80 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-114 2-5ft
Date Sampled: 08/01/13 12:51
Percent Solids: 24

ESS Laboratory Work Order: 1308105
ESS Laboratory Sample ID: 1308105-02
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (3.9)		6020A		50	JP	08/09/13 18:21	5.46	100	CH30801
Arsenic	**152** (3.9)		6010B		1	SVD	08/08/13 19:39	5.46	100	CH30801
Barium	**163** (3.9)		6010B		1	SVD	08/08/13 19:39	5.46	100	CH30801
Beryllium	**1.51** (0.16)		6010B		1	SVD	08/08/13 19:39	5.46	100	CH30801
Cadmium	**8.49** (0.78)		6010B		1	SVD	08/08/13 19:39	5.46	100	CH30801
Chromium	**212** (1.6)		6010B		1	SVD	08/08/13 19:39	5.46	100	CH30801
Lead	**667** (7.8)		6010B		1	SVD	08/08/13 19:39	5.46	100	CH30801
Mercury	**4.57** (0.258)		7471B		5	NAR	08/09/13 12:34	1.63	40	CH30803
Nickel	**38.2** (3.9)		6010B		1	SVD	08/08/13 19:39	5.46	100	CH30801
Selenium	**11.7** (3.91)		6020A		50	JP	08/09/13 18:21	5.46	100	CH30801
Silver	**4.02** (0.78)		6010B		1	SVD	08/08/13 19:39	5.46	100	CH30801
Thallium	ND (3.91)		6020A		50	JP	08/09/13 18:21	5.46	100	CH30801
Vanadium	**163** (1.6)		6010B		1	SVD	08/08/13 19:39	5.46	100	CH30801
Zinc	**956** (3.9)		6010B		1	SVD	08/08/13 19:39	5.46	100	CH30801

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-114 2-5ft
Date Sampled: 08/01/13 12:51
Percent Solids: 24
Initial Volume: 19.4
Final Volume: 5
Extraction Method: 3540

ESS Laboratory Work Order: 1308105
ESS Laboratory Sample ID: 1308105-02
Sample Matrix: Solid
Units: mg/kg dry
Analyst: TJ
Prepared: 8/8/13 17:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (5.48)		8082A		50	08/13/13 16:30		CH30812
Aroclor 1221	ND (5.48)		8082A		50	08/13/13 16:30		CH30812
Aroclor 1232	ND (5.48)		8082A		50	08/13/13 16:30		CH30812
Aroclor 1242	ND (5.48)		8082A		50	08/13/13 16:30		CH30812
Aroclor 1248	**59.7** (5.48)		8082A		50	08/13/13 16:30		CH30812
Aroclor 1254	ND (5.48)		8082A		50	08/13/13 16:30		CH30812
Aroclor 1260	ND (5.48)		8082A		50	08/13/13 16:30		CH30812
Aroclor 1262	ND (5.48)		8082A		50	08/13/13 16:30		CH30812
Aroclor 1268	ND (5.48)		8082A		50	08/13/13 16:30		CH30812

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	%	SD	30-150
Surrogate: Decachlorobiphenyl [2C]	%	SD	30-150
Surrogate: Tetrachloro-m-xylene	%	SD	30-150
Surrogate: Tetrachloro-m-xylene [2C]	%	SD	30-150

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-114 2-5ft
Date Sampled: 08/01/13 12:51
Percent Solids: 24
Initial Volume: 30.3
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308105
ESS Laboratory Sample ID: 1308105-02
Sample Matrix: Solid
Units: mg/kg dry
Analyst: IBM
Prepared: 8/8/13 13:40

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.701)		8270D		1	08/08/13 22:37	CWH0106	CH30815
1,2-Dichlorobenzene	ND (0.701)		8270D		1	08/08/13 22:37	CWH0106	CH30815
1,3-Dichlorobenzene	ND (0.701)		8270D		1	08/08/13 22:37	CWH0106	CH30815
1,4-Dichlorobenzene	ND (0.701)		8270D		1	08/08/13 22:37	CWH0106	CH30815
2-Methylnaphthalene	ND (0.701)		8270D		1	08/08/13 22:37	CWH0106	CH30815
2-Methylphenol	ND (0.701)		8270D		1	08/08/13 22:37	CWH0106	CH30815
Acenaphthene	ND (0.701)		8270D		1	08/08/13 22:37	CWH0106	CH30815
Acenaphthylene	ND (0.701)		8270D		1	08/08/13 22:37	CWH0106	CH30815
Anthracene	ND (0.701)		8270D		1	08/08/13 22:37	CWH0106	CH30815
Benzo(a)anthracene	ND (0.701)		8270D		1	08/08/13 22:37	CWH0106	CH30815
Benzo(a)pyrene	**0.354** (0.351)		8270D		1	08/08/13 22:37	CWH0106	CH30815
Benzo(b)fluoranthene	ND (0.701)		8270D		1	08/08/13 22:37	CWH0106	CH30815
Benzo(g,h,i)perylene	ND (0.701)		8270D		1	08/08/13 22:37	CWH0106	CH30815
Benzo(k)fluoranthene	ND (0.701)		8270D		1	08/08/13 22:37	CWH0106	CH30815
bis(2-Ethylhexyl)phthalate	**1270** (350)		8270D		500	08/12/13 11:35	CWH0106	CH30815
Butylbenzylphthalate	ND (0.701)		8270D		1	08/08/13 22:37	CWH0106	CH30815
Carbazole	ND (0.701)		8270D		1	08/08/13 22:37	CWH0106	CH30815
Chrysene	**0.567** (0.351)		8270D		1	08/08/13 22:37	CWH0106	CH30815
Dibenzo(a,h)Anthracene	ND (0.351)		8270D		1	08/08/13 22:37	CWH0106	CH30815
Dibenzofuran	ND (0.701)		8270D		1	08/08/13 22:37	CWH0106	CH30815
Diethylphthalate	ND (0.701)		8270D		1	08/08/13 22:37	CWH0106	CH30815
Dimethylphthalate	ND (0.701)		8270D		1	08/08/13 22:37	CWH0106	CH30815
Di-n-butylphthalate	ND (0.701)		8270D		1	08/08/13 22:37	CWH0106	CH30815
Di-n-octylphthalate	**46.7** (7.01)		8270D		10	08/09/13 19:46	CWH0106	CH30815
Fluoranthene	**1.49** (0.701)		8270D		1	08/08/13 22:37	CWH0106	CH30815
Fluorene	ND (0.701)		8270D		1	08/08/13 22:37	CWH0106	CH30815
Hexachlorobenzene	ND (0.701)		8270D		1	08/08/13 22:37	CWH0106	CH30815
Hexachlorocyclopentadiene	ND (3.51)		8270D		1	08/08/13 22:37	CWH0106	CH30815
Indeno(1,2,3-cd)Pyrene	ND (0.701)		8270D		1	08/08/13 22:37	CWH0106	CH30815
Naphthalene	**3.17** (0.701)		8270D		1	08/08/13 22:37	CWH0106	CH30815
Phenanthrene	**1.62** (0.701)		8270D		1	08/08/13 22:37	CWH0106	CH30815

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-114 2-5ft
Date Sampled: 08/01/13 12:51
Percent Solids: 24
Initial Volume: 30.3
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308105
ESS Laboratory Sample ID: 1308105-02
Sample Matrix: Solid
Units: mg/kg dry
Analyst: IBM
Prepared: 8/8/13 13:40

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Phenol	ND (0.701)		8270D		1	08/08/13 22:37	CWH0106	CH30815
Pyrene	**1.18** (0.701)		8270D		1	08/08/13 22:37	CWH0106	CH30815

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*69 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*40 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*75 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*74 %*		*30-130*
Surrogate: 2-Fluorophenol	*71 %*		*30-130*
Surrogate: Nitrobenzene-d5	*73 %*		*30-130*
Surrogate: Phenol-d6	*75 %*		*30-130*
Surrogate: p-Terphenyl-d14	*72 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-114 2-5ft
Date Sampled: 08/01/13 12:51
Percent Solids: 24
Initial Volume: 15.3
Final Volume: 0.5
Extraction Method: 3541

ESS Laboratory Work Order: 1308105
ESS Laboratory Sample ID: 1308105-02
Sample Matrix: Solid
Units: mg/kg dry
Analyst: IBM
Prepared: 8/8/13 11:45

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	**0.114** (0.035)		8270D		1	08/10/13 15:34	CWH0128	CH30811
Acenaphthene	**0.060** (0.035)		8270D		1	08/10/13 15:34	CWH0128	CH30811
Acenaphthylene	**0.079** (0.035)		8270D		1	08/10/13 15:34	CWH0128	CH30811
Anthracene	**0.144** (0.035)		8270D		1	08/10/13 15:34	CWH0128	CH30811
Benzo(a)anthracene	**0.142** (0.035)		8270D		1	08/10/13 15:34	CWH0128	CH30811
Benzo(a)pyrene	**0.119** (0.035)		8270D		1	08/10/13 15:34	CWH0128	CH30811
Benzo(b)fluoranthene	**0.236** (0.035)		8270D		1	08/10/13 15:34	CWH0128	CH30811
Benzo(g,h,i)perylene	**0.118** (0.035)		8270D		1	08/10/13 15:34	CWH0128	CH30811
Benzo(k)fluoranthene	**0.085** (0.035)		8270D		1	08/10/13 15:34	CWH0128	CH30811
Chrysene	**0.167** (0.035)		8270D		1	08/10/13 15:34	CWH0128	CH30811
Dibenzo(a,h)Anthracene	ND (0.035)		8270D		1	08/10/13 15:34	CWH0128	CH30811
Fluoranthene	**0.342** (0.035)		8270D		1	08/10/13 15:34	CWH0128	CH30811
Fluorene	**0.113** (0.035)		8270D		1	08/10/13 15:34	CWH0128	CH30811
Indeno(1,2,3-cd)Pyrene	**0.124** (0.035)		8270D		1	08/10/13 15:34	CWH0128	CH30811
Naphthalene	**0.472** (0.035)		8270D		1	08/10/13 15:34	CWH0128	CH30811
Phenanthrene	**0.625** (0.035)		8270D		1	08/10/13 15:34	CWH0128	CH30811
Pyrene	**0.440** (0.035)		8270D		1	08/10/13 15:34	CWH0128	CH30811

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1,2-Dichlorobenzene-d4	*37 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*41 %*		*30-130*
Surrogate: Nitrobenzene-d5	*43 %*		*30-130*
Surrogate: p-Terphenyl-d14	*70 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-114 2-5ft
Date Sampled: 08/01/13 12:51
Percent Solids: 24

ESS Laboratory Work Order: 1308105
ESS Laboratory Sample ID: 1308105-02
Sample Matrix: Solid

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**61300** (500)		TOC-LK		1	SUB	08/14/13 0:00	mg/kg	CH31926

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-114 2-5ft
Date Sampled: 08/01/13 12:51
Percent Solids: 24
Initial Volume: 15
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1308105
ESS Laboratory Sample ID: 1308105-02
Sample Matrix: Solid
Units: mg/kg dry

Prepared: 8/8/13 11:00

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	**442** (106)		MADEP-EPH		1	IBM	08/09/13 11:09	CWH0117	CH30813
C19-C36 Aliphatics1	**321** (106)		MADEP-EPH		1	IBM	08/09/13 11:09	CWH0117	CH30813
C11-C22 Unadjusted Aromatics1	**1640** (213)		EPH8270		2	SEP	08/10/13 21:39	CWH0135	CH30813
C11-C22 Aromatics1,2	**1640** (213)		EPH8270			SEP	08/10/13 21:39		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*88 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*110 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*107 %*		*40-140*
Surrogate: O-Terphenyl	*90 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-114 5-7ft
Date Sampled: 08/01/13 12:51
Percent Solids: 75

ESS Laboratory Work Order: 1308105
ESS Laboratory Sample ID: 1308105-03
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (1.3)		6020A		50	JP	08/09/13 18:27	5.2	100	CH30801
Arsenic	**2.2** (1.3)		6010B		1	SVD	08/08/13 19:44	5.2	100	CH30801
Barium	**15.4** (1.3)		6010B		1	SVD	08/08/13 19:44	5.2	100	CH30801
Beryllium	**0.29** (0.05)		6010B		1	SVD	08/08/13 19:44	5.2	100	CH30801
Cadmium	**0.26** (0.26)		6010B		1	SVD	08/08/13 19:44	5.2	100	CH30801
Chromium	**14.2** (0.5)		6010B		1	SVD	08/08/13 19:44	5.2	100	CH30801
Lead	**3.0** (2.6)		6010B		1	SVD	08/08/13 19:44	5.2	100	CH30801
Mercury	ND (0.023)		7471B		1	NAR	08/09/13 15:40	1.12	40	CH30803
Nickel	**8.7** (1.3)		6010B		1	SVD	08/08/13 19:44	5.2	100	CH30801
Selenium	ND (1.28)		6020A		50	JP	08/09/13 18:27	5.2	100	CH30801
Silver	ND (0.26)		6010B		1	SVD	08/08/13 19:44	5.2	100	CH30801
Thallium	ND (1.28)		6020A		50	JP	08/09/13 18:27	5.2	100	CH30801
Vanadium	**18.1** (0.5)		6010B		1	SVD	08/08/13 19:44	5.2	100	CH30801
Zinc	**24.1** (1.3)		6010B		1	SVD	08/08/13 19:44	5.2	100	CH30801

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-115T 0-0.5ft
Date Sampled: 08/06/13 10:09
Percent Solids: 28

ESS Laboratory Work Order: 1308105
ESS Laboratory Sample ID: 1308105-04
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (3.5)		6020A		50	JP	08/09/13 18:33	5.15	100	CH30801
Arsenic	**45.7** (3.4)		6010B		1	SVD	08/08/13 19:50	5.15	100	CH30801
Barium	**77.8** (3.4)		6010B		1	SVD	08/08/13 19:50	5.15	100	CH30801
Beryllium	**0.82** (0.14)		6010B		1	SVD	08/08/13 19:50	5.15	100	CH30801
Cadmium	**2.39** (0.69)		6010B		1	SVD	08/08/13 19:50	5.15	100	CH30801
Chromium	**95.0** (1.4)		6010B		1	SVD	08/08/13 19:50	5.15	100	CH30801
Lead	**281** (6.9)		6010B		1	SVD	08/08/13 19:50	5.15	100	CH30801
Mercury	**1.26** (0.262)		7471B		5	NAR	08/09/13 12:40	1.34	40	CH30803
Nickel	**28.0** (3.4)		6010B		1	SVD	08/08/13 19:50	5.15	100	CH30801
Selenium	ND (3.46)		6020A		50	JP	08/09/13 18:33	5.15	100	CH30801
Silver	**2.17** (0.69)		6010B		1	SVD	08/08/13 19:50	5.15	100	CH30801
Thallium	ND (3.46)		6020A		50	JP	08/09/13 18:33	5.15	100	CH30801
Vanadium	**88.6** (1.4)		6010B		1	SVD	08/08/13 19:50	5.15	100	CH30801
Zinc	**423** (3.4)		6010B		1	SVD	08/08/13 19:50	5.15	100	CH30801

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-115T 0-0.5ft
Date Sampled: 08/06/13 10:09
Percent Solids: 28

ESS Laboratory Work Order: 1308105
ESS Laboratory Sample ID: 1308105-04
Sample Matrix: Solid

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**49100** (500)		TOC-LK		1	SUB	08/14/13 0:00	mg/kg	CH31926

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-115 2-5ft
Date Sampled: 08/01/13 13:05
Percent Solids: 28

ESS Laboratory Work Order: 1308105
ESS Laboratory Sample ID: 1308105-05
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (3.4)		6020A		50	JP	08/09/13 18:39	5.24	100	CH30801
Arsenic	**323** (3.4)		6010B		1	SVD	08/08/13 19:55	5.24	100	CH30801
Barium	**34.4** (3.4)		6010B		1	SVD	08/08/13 19:55	5.24	100	CH30801
Beryllium	**0.86** (0.14)		6010B		1	SVD	08/08/13 19:55	5.24	100	CH30801
Cadmium	**2.26** (0.68)		6010B		1	SVD	08/08/13 19:55	5.24	100	CH30801
Chromium	**172** (1.3)		6010B		1	SVD	08/08/13 19:55	5.24	100	CH30801
Lead	**283** (6.7)		6010B		1	SVD	08/08/13 19:55	5.24	100	CH30801
Mercury	**4.19** (0.217)		7471B		5	NAR	08/09/13 12:43	1.61	40	CH30803
Nickel	**15.4** (3.4)		6010B		1	SVD	08/08/13 19:55	5.24	100	CH30801
Selenium	ND (3.38)		6020A		50	JP	08/09/13 18:39	5.24	100	CH30801
Silver	**1.94** (0.68)		6010B		1	SVD	08/08/13 19:55	5.24	100	CH30801
Thallium	ND (3.38)		6020A		50	JP	08/09/13 18:39	5.24	100	CH30801
Vanadium	**297** (1.3)		6010B		1	SVD	08/08/13 19:55	5.24	100	CH30801
Zinc	**342** (3.4)		6010B		1	SVD	08/08/13 19:55	5.24	100	CH30801

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-115 5-7ft
Date Sampled: 08/01/13 13:05
Percent Solids: 17

ESS Laboratory Work Order: 1308105
ESS Laboratory Sample ID: 1308105-06
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (5.7)		6020A		50	JP	08/09/13 18:45	5.06	100	CH30801
Arsenic	**204** (5.7)		6010B		1	SVD	08/08/13 20:01	5.06	100	CH30801
Barium	**61.0** (5.7)		6010B		1	SVD	08/08/13 20:01	5.06	100	CH30801
Beryllium	**0.91** (0.24)		6010B		1	SVD	08/08/13 20:01	5.06	100	CH30801
Cadmium	**2.91** (1.15)		6010B		1	SVD	08/08/13 20:01	5.06	100	CH30801
Chromium	**201** (2.3)		6010B		1	SVD	08/08/13 20:01	5.06	100	CH30801
Lead	**344** (11.4)		6010B		1	SVD	08/08/13 20:01	5.06	100	CH30801
Mercury	**2.51** (0.525)		7471B		5	NAR	08/09/13 12:45	1.09	40	CH30803
Nickel	**17.4** (5.7)		6010B		1	SVD	08/08/13 20:01	5.06	100	CH30801
Selenium	ND (5.74)		6020A		50	JP	08/09/13 18:45	5.06	100	CH30801
Silver	**2.50** (1.15)		6010B		1	SVD	08/08/13 20:01	5.06	100	CH30801
Thallium	ND (5.74)		6020A		50	JP	08/09/13 18:45	5.06	100	CH30801
Vanadium	**192** (2.3)		6010B		1	SVD	08/08/13 20:01	5.06	100	CH30801
Zinc	**349** (5.7)		6010B		1	SVD	08/08/13 20:01	5.06	100	CH30801

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-116T 0-0.5ft
Date Sampled: 08/06/13 10:55
Percent Solids: 56

ESS Laboratory Work Order: 1308105
ESS Laboratory Sample ID: 1308105-07
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (1.6)		6020A		50	JP	08/09/13 18:51	5.71	100	CH30801
Arsenic	**75.7** (1.5)		6010B		1	SVD	08/08/13 20:06	5.71	100	CH30801
Barium	**32.6** (1.5)		6010B		1	SVD	08/08/13 20:06	5.71	100	CH30801
Beryllium	**0.49** (0.07)		6010B		1	SVD	08/08/13 20:06	5.71	100	CH30801
Cadmium	**1.04** (0.31)		6010B		1	SVD	08/08/13 20:06	5.71	100	CH30801
Chromium	**39.8** (0.6)		6010B		1	SVD	08/08/13 20:06	5.71	100	CH30801
Lead	**116** (3.1)		6010B		1	SVD	08/08/13 20:06	5.71	100	CH30801
Mercury	**0.484** (0.135)		7471B		5	NAR	08/09/13 12:48	1.3	40	CH30803
Nickel	**15.8** (1.5)		6010B		1	SVD	08/08/13 20:06	5.71	100	CH30801
Selenium	**1.58** (1.56)		6020A		50	JP	08/09/13 18:51	5.71	100	CH30801
Silver	**0.97** (0.31)		6010B		1	SVD	08/08/13 20:06	5.71	100	CH30801
Thallium	ND (1.56)		6020A		50	JP	08/09/13 18:51	5.71	100	CH30801
Vanadium	**57.5** (0.6)		6010B		1	SVD	08/08/13 20:06	5.71	100	CH30801
Zinc	**182** (1.5)		6010B		1	SVD	08/08/13 20:06	5.71	100	CH30801

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-116T 0-0.5ft
Date Sampled: 08/06/13 10:55
Percent Solids: 56
Initial Volume: 19.3
Final Volume: 5
Extraction Method: 3540

ESS Laboratory Work Order: 1308105
ESS Laboratory Sample ID: 1308105-07
Sample Matrix: Solid
Units: mg/kg dry
Analyst: TJ
Prepared: 8/8/13 17:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0459)		8082A		1	08/11/13 6:45		CH30812
Aroclor 1221	ND (0.0459)		8082A		1	08/11/13 6:45		CH30812
Aroclor 1232	ND (0.0459)		8082A		1	08/11/13 6:45		CH30812
Aroclor 1242	ND (0.0459)		8082A		1	08/11/13 6:45		CH30812
Aroclor 1248	**0.170** (0.0459)		8082A		1	08/11/13 6:45		CH30812
Aroclor 1254	**0.286** (0.0459)		8082A		1	08/11/13 6:45		CH30812
Aroclor 1260	**0.211** (0.0459)		8082A		1	08/11/13 6:45		CH30812
Aroclor 1262	ND (0.0459)		8082A		1	08/11/13 6:45		CH30812
Aroclor 1268	ND (0.0459)		8082A		1	08/11/13 6:45		CH30812

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*89 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*84 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*72 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*62 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-116T 0-0.5ft
Date Sampled: 08/06/13 10:55
Percent Solids: 56
Initial Volume: 30.2
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308105
ESS Laboratory Sample ID: 1308105-07
Sample Matrix: Solid
Units: mg/kg dry
Analyst: IBM
Prepared: 8/8/13 13:40

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.293)		8270D		1	08/08/13 23:11	CWH0106	CH30815
1,2-Dichlorobenzene	ND (0.293)		8270D		1	08/08/13 23:11	CWH0106	CH30815
1,3-Dichlorobenzene	ND (0.293)		8270D		1	08/08/13 23:11	CWH0106	CH30815
1,4-Dichlorobenzene	ND (0.293)		8270D		1	08/08/13 23:11	CWH0106	CH30815
2-Methylnaphthalene	ND (0.293)		8270D		1	08/08/13 23:11	CWH0106	CH30815
2-Methylphenol	ND (0.293)		8270D		1	08/08/13 23:11	CWH0106	CH30815
Acenaphthene	ND (0.293)		8270D		1	08/08/13 23:11	CWH0106	CH30815
Acenaphthylene	ND (0.293)		8270D		1	08/08/13 23:11	CWH0106	CH30815
Anthracene	ND (0.293)		8270D		1	08/08/13 23:11	CWH0106	CH30815
Benzo(a)anthracene	**0.442** (0.293)		8270D		1	08/08/13 23:11	CWH0106	CH30815
Benzo(a)pyrene	**0.596** (0.147)		8270D		1	08/08/13 23:11	CWH0106	CH30815
Benzo(b)fluoranthene	**0.981** (0.293)		8270D		1	08/08/13 23:11	CWH0106	CH30815
Benzo(g,h,i)perylene	ND (0.293)		8270D		1	08/08/13 23:11	CWH0106	CH30815
Benzo(k)fluoranthene	**0.342** (0.293)		8270D		1	08/08/13 23:11	CWH0106	CH30815
bis(2-Ethylhexyl)phthalate	**2.94** (0.293)		8270D		1	08/08/13 23:11	CWH0106	CH30815
Butylbenzylphthalate	ND (0.293)		8270D		1	08/08/13 23:11	CWH0106	CH30815
Carbazole	ND (0.293)		8270D		1	08/08/13 23:11	CWH0106	CH30815
Chrysene	**0.647** (0.147)		8270D		1	08/08/13 23:11	CWH0106	CH30815
Dibenzo(a,h)Anthracene	ND (0.147)		8270D		1	08/08/13 23:11	CWH0106	CH30815
Dibenzofuran	ND (0.293)		8270D		1	08/08/13 23:11	CWH0106	CH30815
Diethylphthalate	ND (0.293)		8270D		1	08/08/13 23:11	CWH0106	CH30815
Dimethylphthalate	ND (0.293)		8270D		1	08/08/13 23:11	CWH0106	CH30815
Di-n-butylphthalate	ND (0.293)		8270D		1	08/08/13 23:11	CWH0106	CH30815
Di-n-octylphthalate	ND (0.293)		8270D		1	08/08/13 23:11	CWH0106	CH30815
Fluoranthene	**0.901** (0.293)		8270D		1	08/08/13 23:11	CWH0106	CH30815
Fluorene	ND (0.293)		8270D		1	08/08/13 23:11	CWH0106	CH30815
Hexachlorobenzene	ND (0.293)		8270D		1	08/08/13 23:11	CWH0106	CH30815
Hexachlorocyclopentadiene	ND (1.47)		8270D		1	08/08/13 23:11	CWH0106	CH30815
Indeno(1,2,3-cd)Pyrene	ND (0.293)		8270D		1	08/08/13 23:11	CWH0106	CH30815
Naphthalene	ND (0.293)		8270D		1	08/08/13 23:11	CWH0106	CH30815
Phenanthrene	ND (0.293)		8270D		1	08/08/13 23:11	CWH0106	CH30815

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-116T 0-0.5ft
Date Sampled: 08/06/13 10:55
Percent Solids: 56
Initial Volume: 30.2
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308105
ESS Laboratory Sample ID: 1308105-07
Sample Matrix: Solid
Units: mg/kg dry
Analyst: IBM
Prepared: 8/8/13 13:40

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Phenol	ND (0.293)		8270D		1	08/08/13 23:11	CWH0106	CH30815
Pyrene	**0.816** (0.293)		8270D		1	08/08/13 23:11	CWH0106	CH30815

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*46 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*28 %*	*S-*	*30-130*
Surrogate: 2-Chlorophenol-d4	*51 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*55 %*		*30-130*
Surrogate: 2-Fluorophenol	*47 %*		*30-130*
Surrogate: Nitrobenzene-d5	*50 %*		*30-130*
Surrogate: Phenol-d6	*52 %*		*30-130*
Surrogate: p-Terphenyl-d14	*67 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-116T 0-0.5ft
Date Sampled: 08/06/13 10:55
Percent Solids: 56
Initial Volume: 15
Final Volume: 0.5
Extraction Method: 3541

ESS Laboratory Work Order: 1308105
ESS Laboratory Sample ID: 1308105-07
Sample Matrix: Solid
Units: mg/kg dry
Analyst: IBM
Prepared: 8/8/13 11:45

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	ND (0.074)		8270D		5	08/10/13 13:55	CWH0128	CH30811
Acenaphthene	ND (0.074)		8270D		5	08/10/13 13:55	CWH0128	CH30811
Acenaphthylene	ND (0.074)		8270D		5	08/10/13 13:55	CWH0128	CH30811
Anthracene	ND (0.074)		8270D		5	08/10/13 13:55	CWH0128	CH30811
Benzo(a)anthracene	**0.198** (0.074)		8270D		5	08/10/13 13:55	CWH0128	CH30811
Benzo(a)pyrene	**0.180** (0.074)		8270D		5	08/10/13 13:55	CWH0128	CH30811
Benzo(b)fluoranthene	**0.227** (0.074)		8270D		5	08/10/13 13:55	CWH0128	CH30811
Benzo(g,h,i)perylene	**0.115** (0.074)		8270D		5	08/10/13 13:55	CWH0128	CH30811
Benzo(k)fluoranthene	**0.074** (0.074)		8270D		5	08/10/13 13:55	CWH0128	CH30811
Chrysene	**0.221** (0.074)		8270D		5	08/10/13 13:55	CWH0128	CH30811
Dibenzo(a,h)Anthracene	ND (0.074)		8270D		5	08/10/13 13:55	CWH0128	CH30811
Fluoranthene	**0.295** (0.074)		8270D		5	08/10/13 13:55	CWH0128	CH30811
Fluorene	ND (0.074)		8270D		5	08/10/13 13:55	CWH0128	CH30811
Indeno(1,2,3-cd)Pyrene	**0.121** (0.074)		8270D		5	08/10/13 13:55	CWH0128	CH30811
Naphthalene	ND (0.074)		8270D		5	08/10/13 13:55	CWH0128	CH30811
Phenanthrene	**0.189** (0.074)		8270D		5	08/10/13 13:55	CWH0128	CH30811
Pyrene	**0.407** (0.074)		8270D		5	08/10/13 13:55	CWH0128	CH30811

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*44 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*44 %*		*30-130*
Surrogate: Nitrobenzene-d5	*40 %*		*30-130*
Surrogate: p-Terphenyl-d14	*72 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-116T 0-0.5ft
Date Sampled: 08/06/13 10:55
Percent Solids: 56

ESS Laboratory Work Order: 1308105
ESS Laboratory Sample ID: 1308105-07
Sample Matrix: Solid

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**30500** (500)		TOC-LK		1	SUB	08/14/13 0:00	mg/kg	CH31926

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-116T 0-0.5ft
Date Sampled: 08/06/13 10:55
Percent Solids: 56
Initial Volume: 15.3
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1308105
ESS Laboratory Sample ID: 1308105-07
Sample Matrix: Solid
Units: mg/kg dry

Prepared: 8/8/13 11:00

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (43.4)		MADEP-EPH		1	IBM	08/09/13 11:59	CWH0117	CH30813
C19-C36 Aliphatics1	**85.0** (43.4)		MADEP-EPH		1	IBM	08/09/13 11:59	CWH0117	CH30813
C11-C22 Unadjusted Aromatics1	**60.2** (43.4)		EPH8270		1	IBM	08/09/13 14:15	CWH0116	CH30813
C11-C22 Aromatics1,2	**60.2** (43.4)		EPH8270			IBM	08/09/13 14:15		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*75 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*110 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*104 %*		*40-140*
Surrogate: O-Terphenyl	*86 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-116 0.5-2ft
Date Sampled: 08/02/13 08:28
Percent Solids: 73

ESS Laboratory Work Order: 1308105
ESS Laboratory Sample ID: 1308105-08
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	**1.6** (1.2)		6020A		50	JP	08/09/13 19:09	5.54	100	CH30801
Arsenic	**249** (1.2)		6010B		1	SVD	08/08/13 20:12	5.54	100	CH30801
Barium	**33.9** (1.2)		6010B		1	SVD	08/08/13 20:12	5.54	100	CH30801
Beryllium	**0.13** (0.05)		6010B		1	SVD	08/08/13 20:12	5.54	100	CH30801
Cadmium	**0.85** (0.25)		6010B		1	SVD	08/08/13 20:12	5.54	100	CH30801
Chromium	**71.4** (0.5)		6010B		1	SVD	08/08/13 20:12	5.54	100	CH30801
Lead	**467** (2.5)		6010B		1	SVD	08/08/13 20:12	5.54	100	CH30801
Mercury	**2.70** (0.147)		7471B		10	NAR	08/09/13 14:35	1.85	40	CH30803
Nickel	**3.5** (1.2)		6010B		1	SVD	08/08/13 20:12	5.54	100	CH30801
Selenium	**4.36** (1.25)		6020A		50	JP	08/09/13 19:09	5.54	100	CH30801
Silver	**3.90** (0.25)		6010B		1	SVD	08/08/13 20:12	5.54	100	CH30801
Thallium	**1.37** (1.25)		6020A		50	JP	08/09/13 19:09	5.54	100	CH30801
Vanadium	**25.0** (0.5)		6010B		1	SVD	08/08/13 20:12	5.54	100	CH30801
Zinc	**67.5** (1.2)		6010B		1	SVD	08/08/13 20:12	5.54	100	CH30801

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-116 0.5-2ft
Date Sampled: 08/02/13 08:28
Percent Solids: 73
Initial Volume: 19.3
Final Volume: 5
Extraction Method: 3540

ESS Laboratory Work Order: 1308105
ESS Laboratory Sample ID: 1308105-08
Sample Matrix: Solid
Units: mg/kg dry
Analyst: TJ
Prepared: 8/8/13 17:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0356)		8082A		1	08/12/13 17:09		CH30812
Aroclor 1221	ND (0.0356)		8082A		1	08/12/13 17:09		CH30812
Aroclor 1232	ND (0.0356)		8082A		1	08/12/13 17:09		CH30812
Aroclor 1242	ND (0.0356)		8082A		1	08/12/13 17:09		CH30812
Aroclor 1248	ND (0.0356)		8082A		1	08/12/13 17:09		CH30812
Aroclor 1254	**2.94** (0.356)		8082A		10	08/13/13 16:49		CH30812
Aroclor 1260	**0.995** (0.356)		8082A		10	08/13/13 16:49		CH30812
Aroclor 1262	ND (0.0356)		8082A		1	08/12/13 17:09		CH30812
Aroclor 1268	ND (0.0356)		8082A		1	08/12/13 17:09		CH30812

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*114 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*93 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*77 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*69 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-116 0.5-2ft
Date Sampled: 08/02/13 08:28
Percent Solids: 73
Initial Volume: 30.3
Final Volume: 2
Extraction Method: 3546

ESS Laboratory Work Order: 1308105
ESS Laboratory Sample ID: 1308105-08
Sample Matrix: Solid
Units: mg/kg dry
Analyst: IBM
Prepared: 8/8/13 13:40

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.906)		8270D		1	08/08/13 23:44	CWH0106	CH30815
1,2-Dichlorobenzene	ND (0.906)		8270D		1	08/08/13 23:44	CWH0106	CH30815
1,3-Dichlorobenzene	ND (0.906)		8270D		1	08/08/13 23:44	CWH0106	CH30815
1,4-Dichlorobenzene	ND (0.906)		8270D		1	08/08/13 23:44	CWH0106	CH30815
2-Methylnaphthalene	ND (0.906)		8270D		1	08/08/13 23:44	CWH0106	CH30815
2-Methylphenol	ND (0.906)		8270D		1	08/08/13 23:44	CWH0106	CH30815
Acenaphthene	ND (0.906)		8270D		1	08/08/13 23:44	CWH0106	CH30815
Acenaphthylene	ND (0.906)		8270D		1	08/08/13 23:44	CWH0106	CH30815
Anthracene	ND (0.906)		8270D		1	08/08/13 23:44	CWH0106	CH30815
Benzo(a)anthracene	ND (0.906)		8270D		1	08/08/13 23:44	CWH0106	CH30815
Benzo(a)pyrene	ND (0.455)		8270D		1	08/08/13 23:44	CWH0106	CH30815
Benzo(b)fluoranthene	ND (0.906)		8270D		1	08/08/13 23:44	CWH0106	CH30815
Benzo(g,h,i)perylene	ND (0.906)		8270D		1	08/08/13 23:44	CWH0106	CH30815
Benzo(k)fluoranthene	ND (0.906)		8270D		1	08/08/13 23:44	CWH0106	CH30815
bis(2-Ethylhexyl)phthalate	**543** (90.6)		8270D		100	08/09/13 21:26	CWH0106	CH30815
Butylbenzylphthalate	ND (0.906)		8270D		1	08/08/13 23:44	CWH0106	CH30815
Carbazole	ND (0.906)		8270D		1	08/08/13 23:44	CWH0106	CH30815
Chrysene	ND (0.455)		8270D		1	08/08/13 23:44	CWH0106	CH30815
Dibenzo(a,h)Anthracene	ND (0.455)		8270D		1	08/08/13 23:44	CWH0106	CH30815
Dibenzofuran	ND (0.906)		8270D		1	08/08/13 23:44	CWH0106	CH30815
Diethylphthalate	ND (0.906)		8270D		1	08/08/13 23:44	CWH0106	CH30815
Dimethylphthalate	ND (0.906)		8270D		1	08/08/13 23:44	CWH0106	CH30815
Di-n-butylphthalate	ND (0.906)		8270D		1	08/08/13 23:44	CWH0106	CH30815
Di-n-octylphthalate	**34.8** (9.06)		8270D		10	08/09/13 20:53	CWH0106	CH30815
Fluoranthene	**0.981** (0.906)		8270D		1	08/08/13 23:44	CWH0106	CH30815
Fluorene	ND (0.906)		8270D		1	08/08/13 23:44	CWH0106	CH30815
Hexachlorobenzene	ND (0.906)		8270D		1	08/08/13 23:44	CWH0106	CH30815
Hexachlorocyclopentadiene	ND (4.55)		8270D		1	08/08/13 23:44	CWH0106	CH30815
Indeno(1,2,3-cd)Pyrene	ND (0.906)		8270D		1	08/08/13 23:44	CWH0106	CH30815
Naphthalene	ND (0.906)		8270D		1	08/08/13 23:44	CWH0106	CH30815
Phenanthrene	ND (0.906)		8270D		1	08/08/13 23:44	CWH0106	CH30815

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-116 0.5-2ft
Date Sampled: 08/02/13 08:28
Percent Solids: 73
Initial Volume: 30.3
Final Volume: 2
Extraction Method: 3546

ESS Laboratory Work Order: 1308105
ESS Laboratory Sample ID: 1308105-08
Sample Matrix: Solid
Units: mg/kg dry
Analyst: IBM
Prepared: 8/8/13 13:40

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Phenol	ND (0.906)		8270D		1	08/08/13 23:44	CWH0106	CH30815
Pyrene	ND (0.906)		8270D		1	08/08/13 23:44	CWH0106	CH30815

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*27 %*	*SM*	*30-130*
Surrogate: 2,4,6-Tribromophenol	*25 %*	*SM*	*30-130*
Surrogate: 2-Chlorophenol-d4	*32 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*48 %*		*30-130*
Surrogate: 2-Fluorophenol	*27 %*	*SM*	*30-130*
Surrogate: Nitrobenzene-d5	*32 %*		*30-130*
Surrogate: Phenol-d6	*35 %*		*30-130*
Surrogate: p-Terphenyl-d14	*56 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-116 0.5-2ft
Date Sampled: 08/02/13 08:28
Percent Solids: 73
Initial Volume: 15
Final Volume: 0.5
Extraction Method: 3541

ESS Laboratory Work Order: 1308105
ESS Laboratory Sample ID: 1308105-08
Sample Matrix: Solid
Units: mg/kg dry
Analyst: IBM
Prepared: 8/8/13 11:45

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	ND (0.057)		8270D		5	08/10/13 14:44	CWH0128	CH30811
Acenaphthene	ND (0.057)		8270D		5	08/10/13 14:44	CWH0128	CH30811
Acenaphthylene	ND (0.057)		8270D		5	08/10/13 14:44	CWH0128	CH30811
Anthracene	**0.094** (0.057)		8270D		5	08/10/13 14:44	CWH0128	CH30811
Benzo(a)anthracene	**0.172** (0.057)		8270D		5	08/10/13 14:44	CWH0128	CH30811
Benzo(a)pyrene	**0.165** (0.057)		8270D		5	08/10/13 14:44	CWH0128	CH30811
Benzo(b)fluoranthene	**0.293** (0.057)		8270D		5	08/10/13 14:44	CWH0128	CH30811
Benzo(g,h,i)perylene	**0.144** (0.057)		8270D		5	08/10/13 14:44	CWH0128	CH30811
Benzo(k)fluoranthene	**0.085** (0.057)		8270D		5	08/10/13 14:44	CWH0128	CH30811
Chrysene	**0.234** (0.057)		8270D		5	08/10/13 14:44	CWH0128	CH30811
Dibenzo(a,h)Anthracene	ND (0.057)		8270D		5	08/10/13 14:44	CWH0128	CH30811
Fluoranthene	**0.355** (0.057)		8270D		5	08/10/13 14:44	CWH0128	CH30811
Fluorene	ND (0.057)		8270D		5	08/10/13 14:44	CWH0128	CH30811
Indeno(1,2,3-cd)Pyrene	**0.154** (0.057)		8270D		5	08/10/13 14:44	CWH0128	CH30811
Naphthalene	**0.119** (0.057)		8270D		5	08/10/13 14:44	CWH0128	CH30811
Phenanthrene	**0.167** (0.057)		8270D		5	08/10/13 14:44	CWH0128	CH30811
Pyrene	**0.383** (0.057)		8270D		5	08/10/13 14:44	CWH0128	CH30811

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*26 %*	*SM*	*30-130*
Surrogate: 2-Fluorobiphenyl	*34 %*		*30-130*
Surrogate: Nitrobenzene-d5	*26 %*	*SM*	*30-130*
Surrogate: p-Terphenyl-d14	*58 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-116 0.5-2ft
Date Sampled: 08/02/13 08:28
Percent Solids: 73

ESS Laboratory Work Order: 1308105
ESS Laboratory Sample ID: 1308105-08
Sample Matrix: Solid

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**21600** (500)		TOC-LK		1	SUB	08/14/13 0:00	mg/kg	CH31926

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-116 0.5-2ft
Date Sampled: 08/02/13 08:28
Percent Solids: 73
Initial Volume: 15.2
Final Volume: 3
Extraction Method: 3546

ESS Laboratory Work Order: 1308105
ESS Laboratory Sample ID: 1308105-08
Sample Matrix: Solid
Units: mg/kg dry

Prepared: 8/8/13 11:00

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (102)		MADEP-EPH		1	SEP	08/10/13 14:50	CWH0134	CH30813
C19-C36 Aliphatics1	**154** (102)		MADEP-EPH		1	SEP	08/10/13 14:50	CWH0134	CH30813
C11-C22 Unadjusted Aromatics1	**674** (102)		EPH8270		1	IBM	08/09/13 15:02	CWH0116	CH30813
C11-C22 Aromatics1,2	**674** (102)		EPH8270			IBM	08/09/13 15:02		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*40 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*113 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*107 %*		*40-140*
Surrogate: O-Terphenyl	*62 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-116 2-4ft
Date Sampled: 08/02/13 08:28
Percent Solids: 72

ESS Laboratory Work Order: 1308105
ESS Laboratory Sample ID: 1308105-09
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	**EL** ND (125)		6010B		50	KJK	08/12/13 19:08	5.55	100	CH30801
Arsenic	**235** (1.3)		6010B		1	SVD	08/08/13 20:51	5.55	100	CH30801
Barium	**49.6** (1.3)		6010B		1	SVD	08/08/13 20:51	5.55	100	CH30801
Beryllium	ND (0.05)		6010B		1	SVD	08/08/13 20:51	5.55	100	CH30801
Cadmium	**5.25** (0.25)		6010B		1	SVD	08/08/13 20:51	5.55	100	CH30801
Chromium	**18.6** (0.5)		6010B		1	SVD	08/08/13 20:51	5.55	100	CH30801
Lead	**192** (2.5)		6010B		1	SVD	08/08/13 20:51	5.55	100	CH30801
Mercury	**2.52** (0.165)		7471B		10	NAR	08/09/13 14:37	1.67	40	CH30803
Nickel	**8.3** (1.3)		6010B		1	SVD	08/08/13 20:51	5.55	100	CH30801
Selenium	**EL** ND (125)		6010B		50	KJK	08/12/13 19:08	5.55	100	CH30801
Silver	**10.8** (0.25)		6010B		1	SVD	08/08/13 20:51	5.55	100	CH30801
Thallium	**EL** ND (250)		6010B		50	KJK	08/12/13 19:08	5.55	100	CH30801
Vanadium	**22.5** (0.5)		6010B		1	SVD	08/08/13 20:51	5.55	100	CH30801
Zinc	**469** (1.3)		6010B		1	SVD	08/08/13 20:51	5.55	100	CH30801

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-116 2-4ft
Date Sampled: 08/02/13 08:28
Percent Solids: 72
Initial Volume: 19.6
Final Volume: 5
Extraction Method: 3540

ESS Laboratory Work Order: 1308105
ESS Laboratory Sample ID: 1308105-09
Sample Matrix: Solid
Units: mg/kg dry
Analyst: TJ
Prepared: 8/8/13 17:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0355)		8082A		1	08/13/13 17:09		CH30812
Aroclor 1221	ND (0.0355)		8082A		1	08/13/13 17:09		CH30812
Aroclor 1232	ND (0.0355)		8082A		1	08/13/13 17:09		CH30812
Aroclor 1242	ND (0.0355)		8082A		1	08/13/13 17:09		CH30812
Aroclor 1248	ND (0.0355)		8082A		1	08/13/13 17:09		CH30812
Aroclor 1254	ND (0.0355)		8082A		1	08/13/13 17:09		CH30812
Aroclor 1260	ND (0.0355)		8082A		1	08/13/13 17:09		CH30812
Aroclor 1262	ND (0.0355)		8082A		1	08/13/13 17:09		CH30812
Aroclor 1268	ND (0.0355)		8082A		1	08/13/13 17:09		CH30812

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*137 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*111 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*51 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*46 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-116 2-4ft
Date Sampled: 08/02/13 08:28
Percent Solids: 72
Initial Volume: 30
Final Volume: 3
Extraction Method: 3546

ESS Laboratory Work Order: 1308105
ESS Laboratory Sample ID: 1308105-09
Sample Matrix: Solid
Units: mg/kg dry
Analyst: IBM
Prepared: 8/8/13 13:40

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (1.39)		8270D		1	08/09/13 0:17	CWH0106	CH30815
1,2-Dichlorobenzene	ND (1.39)		8270D		1	08/09/13 0:17	CWH0106	CH30815
1,3-Dichlorobenzene	ND (1.39)		8270D		1	08/09/13 0:17	CWH0106	CH30815
1,4-Dichlorobenzene	ND (1.39)		8270D		1	08/09/13 0:17	CWH0106	CH30815
2-Methylnaphthalene	ND (1.39)		8270D		1	08/09/13 0:17	CWH0106	CH30815
2-Methylphenol	ND (1.39)		8270D		1	08/09/13 0:17	CWH0106	CH30815
Acenaphthene	ND (1.39)		8270D		1	08/09/13 0:17	CWH0106	CH30815
Acenaphthylene	ND (1.39)		8270D		1	08/09/13 0:17	CWH0106	CH30815
Anthracene	ND (1.39)		8270D		1	08/09/13 0:17	CWH0106	CH30815
Benzo(a)anthracene	ND (1.39)		8270D		1	08/09/13 0:17	CWH0106	CH30815
Benzo(a)pyrene	ND (0.696)		8270D		1	08/09/13 0:17	CWH0106	CH30815
Benzo(b)fluoranthene	ND (1.39)		8270D		1	08/09/13 0:17	CWH0106	CH30815
Benzo(g,h,i)perylene	ND (1.39)		8270D		1	08/09/13 0:17	CWH0106	CH30815
Benzo(k)fluoranthene	ND (1.39)		8270D		1	08/09/13 0:17	CWH0106	CH30815
bis(2-Ethylhexyl)phthalate	**4.44** (1.39)		8270D		1	08/09/13 0:17	CWH0106	CH30815
Butylbenzylphthalate	ND (1.39)		8270D		1	08/09/13 0:17	CWH0106	CH30815
Carbazole	ND (1.39)		8270D		1	08/09/13 0:17	CWH0106	CH30815
Chrysene	ND (0.696)		8270D		1	08/09/13 0:17	CWH0106	CH30815
Dibenzo(a,h)Anthracene	ND (0.696)		8270D		1	08/09/13 0:17	CWH0106	CH30815
Dibenzofuran	ND (1.39)		8270D		1	08/09/13 0:17	CWH0106	CH30815
Diethylphthalate	ND (1.39)		8270D		1	08/09/13 0:17	CWH0106	CH30815
Dimethylphthalate	ND (1.39)		8270D		1	08/09/13 0:17	CWH0106	CH30815
Di-n-butylphthalate	ND (1.39)		8270D		1	08/09/13 0:17	CWH0106	CH30815
Di-n-octylphthalate	ND (1.39)		8270D		1	08/09/13 0:17	CWH0106	CH30815
Fluoranthene	ND (1.39)		8270D		1	08/09/13 0:17	CWH0106	CH30815
Fluorene	ND (1.39)		8270D		1	08/09/13 0:17	CWH0106	CH30815
Hexachlorobenzene	ND (1.39)		8270D		1	08/09/13 0:17	CWH0106	CH30815
Hexachlorocyclopentadiene	ND (6.96)		8270D		1	08/09/13 0:17	CWH0106	CH30815
Indeno(1,2,3-cd)Pyrene	ND (1.39)		8270D		1	08/09/13 0:17	CWH0106	CH30815
Naphthalene	ND (1.39)		8270D		1	08/09/13 0:17	CWH0106	CH30815
Phenanthrene	ND (1.39)		8270D		1	08/09/13 0:17	CWH0106	CH30815

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-116 2-4ft
Date Sampled: 08/02/13 08:28
Percent Solids: 72
Initial Volume: 30
Final Volume: 3
Extraction Method: 3546

ESS Laboratory Work Order: 1308105
ESS Laboratory Sample ID: 1308105-09
Sample Matrix: Solid
Units: mg/kg dry
Analyst: IBM
Prepared: 8/8/13 13:40

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Phenol	ND (1.39)		8270D		1	08/09/13 0:17	CWH0106	CH30815
Pyrene	ND (1.39)		8270D		1	08/09/13 0:17	CWH0106	CH30815

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*58 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*%*	*S-*	*30-130*
Surrogate: 2-Chlorophenol-d4	*62 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*63 %*		*30-130*
Surrogate: 2-Fluorophenol	*58 %*		*30-130*
Surrogate: Nitrobenzene-d5	*60 %*		*30-130*
Surrogate: Phenol-d6	*64 %*		*30-130*
Surrogate: p-Terphenyl-d14	*82 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-116 2-4ft
Date Sampled: 08/02/13 08:28
Percent Solids: 72
Initial Volume: 15.5
Final Volume: 3
Extraction Method: 3541

ESS Laboratory Work Order: 1308105
ESS Laboratory Sample ID: 1308105-09
Sample Matrix: Solid
Units: mg/kg dry
Analyst: IBM
Prepared: 8/8/13 11:45

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	**0.083** (0.067)		8270D		1	08/11/13 0:32	CWH0138	CH30811
Acenaphthene	ND (0.067)		8270D		1	08/11/13 0:32	CWH0138	CH30811
Acenaphthylene	**0.070** (0.067)		8270D		1	08/11/13 0:32	CWH0138	CH30811
Anthracene	**0.091** (0.067)		8270D		1	08/11/13 0:32	CWH0138	CH30811
Benzo(a)anthracene	**0.153** (0.067)		8270D		1	08/11/13 0:32	CWH0138	CH30811
Benzo(a)pyrene	**0.126** (0.067)		8270D		1	08/11/13 0:32	CWH0138	CH30811
Benzo(b)fluoranthene	**0.207** (0.067)		8270D		1	08/11/13 0:32	CWH0138	CH30811
Benzo(g,h,i)perylene	**0.089** (0.067)		8270D		1	08/11/13 0:32	CWH0138	CH30811
Benzo(k)fluoranthene	**0.078** (0.067)		8270D		1	08/11/13 0:32	CWH0138	CH30811
Chrysene	**0.175** (0.067)		8270D		1	08/11/13 0:32	CWH0138	CH30811
Dibenzo(a,h)Anthracene	ND (0.067)		8270D		1	08/11/13 0:32	CWH0138	CH30811
Fluoranthene	**0.180** (0.067)		8270D		1	08/11/13 0:32	CWH0138	CH30811
Fluorene	ND (0.067)		8270D		1	08/11/13 0:32	CWH0138	CH30811
Indeno(1,2,3-cd)Pyrene	**0.118** (0.067)		8270D		1	08/11/13 0:32	CWH0138	CH30811
Naphthalene	**0.247** (0.067)		8270D		1	08/11/13 0:32	CWH0138	CH30811
Phenanthrene	**0.315** (0.067)		8270D		1	08/11/13 0:32	CWH0138	CH30811
Pyrene	**0.242** (0.067)		8270D		1	08/11/13 0:32	CWH0138	CH30811

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1,2-Dichlorobenzene-d4	*44 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*49 %*		*30-130*
Surrogate: Nitrobenzene-d5	*43 %*		*30-130*
Surrogate: p-Terphenyl-d14	*88 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-116 2-4ft
Date Sampled: 08/02/13 08:28
Percent Solids: 72

ESS Laboratory Work Order: 1308105
ESS Laboratory Sample ID: 1308105-09
Sample Matrix: Solid

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Reactive Cyanide	ND (2.0)		7.3.3.2		1	EEM	08/08/13 15:05	mg/kg	CH30841
Reactive Sulfide	ND (2.0)		7.3.4.1		1	EEM	08/08/13 15:05	mg/kg	CH30841
Total Organic Carbon	**15500** (500)		TOC-LK		1	SUB	08/14/13 0:00	mg/kg	CH31926

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-116 2-4ft
Date Sampled: 08/02/13 08:28
Percent Solids: 72
Initial Volume: 15.1
Final Volume: 3
Extraction Method: 3546

ESS Laboratory Work Order: 1308105
ESS Laboratory Sample ID: 1308105-09
Sample Matrix: Solid
Units: mg/kg dry

Prepared: 8/8/13 11:00

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (104)		MADEP-EPH		1	SEP	08/10/13 15:41	CWH0134	CH30813
C19-C36 Aliphatics1	**121** (104)		MADEP-EPH		1	SEP	08/10/13 15:41	CWH0134	CH30813
C11-C22 Unadjusted Aromatics1	**141** (104)		EPH8270		1	IBM	08/09/13 15:49	CWH0116	CH30813
C11-C22 Aromatics1,2	**141** (104)		EPH8270			IBM	08/09/13 15:49		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*65 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*108 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*103 %*		*40-140*
Surrogate: O-Terphenyl	*81 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-116 4-6ft
Date Sampled: 08/02/13 08:28
Percent Solids: 65

ESS Laboratory Work Order: 1308105
ESS Laboratory Sample ID: 1308105-10
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (1.5)		6020A		50	JP	08/09/13 19:15	5.31	100	CH30801
Arsenic	**4.0** (1.4)		6010B		1	SVD	08/08/13 20:56	5.31	100	CH30801
Barium	**21.7** (1.4)		6010B		1	SVD	08/08/13 20:56	5.31	100	CH30801
Beryllium	**0.44** (0.06)		6010B		1	SVD	08/08/13 20:56	5.31	100	CH30801
Cadmium	**0.37** (0.29)		6010B		1	SVD	08/08/13 20:56	5.31	100	CH30801
Chromium	**20.9** (0.6)		6010B		1	SVD	08/08/13 20:56	5.31	100	CH30801
Lead	**4.3** (2.9)		6010B		1	SVD	08/08/13 20:56	5.31	100	CH30801
Mercury	ND (0.023)		7471B		1	NAR	08/09/13 15:43	1.31	40	CH30803
Nickel	**11.7** (1.4)		6010B		1	SVD	08/08/13 20:56	5.31	100	CH30801
Selenium	ND (1.45)		6020A		50	JP	08/09/13 19:15	5.31	100	CH30801
Silver	ND (0.29)		6010B		1	SVD	08/08/13 20:56	5.31	100	CH30801
Thallium	ND (1.45)		6020A		50	JP	08/09/13 19:15	5.31	100	CH30801
Vanadium	**26.5** (0.6)		6010B		1	SVD	08/08/13 20:56	5.31	100	CH30801
Zinc	**34.1** (1.4)		6010B		1	SVD	08/08/13 20:56	5.31	100	CH30801

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-116 6-8ft
Date Sampled: 08/02/13 08:28
Percent Solids: 64

ESS Laboratory Work Order: 1308105
ESS Laboratory Sample ID: 1308105-11
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (1.5)		6020A		50	JP	08/09/13 19:45	5.4	100	CH30801
Arsenic	**6.9** (1.5)		6010B		1	SVD	08/08/13 21:23	5.4	100	CH30801
Barium	**24.1** (1.5)		6010B		1	SVD	08/08/13 21:23	5.4	100	CH30801
Beryllium	**0.41** (0.06)		6010B		1	SVD	08/08/13 21:23	5.4	100	CH30801
Cadmium	**0.42** (0.29)		6010B		1	SVD	08/08/13 21:23	5.4	100	CH30801
Chromium	**20.1** (0.6)		6010B		1	SVD	08/08/13 21:23	5.4	100	CH30801
Lead	**22.0** (2.9)		6010B		1	SVD	08/08/13 21:23	5.4	100	CH30801
Mercury	**0.065** (0.023)		7471B		1	NAR	08/09/13 15:56	1.33	40	CH30803
Nickel	**10.9** (1.5)		6010B		1	SVD	08/08/13 21:23	5.4	100	CH30801
Selenium	ND (1.46)		6020A		50	JP	08/09/13 19:45	5.4	100	CH30801
Silver	ND (0.29)		6010B		1	SVD	08/08/13 21:23	5.4	100	CH30801
Thallium	ND (1.46)		6020A		50	JP	08/09/13 19:45	5.4	100	CH30801
Vanadium	**24.9** (0.6)		6010B		1	SVD	08/08/13 21:23	5.4	100	CH30801
Zinc	**52.0** (1.5)		6010B		1	SVD	08/08/13 21:23	5.4	100	CH30801

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-116 6-8ft
Date Sampled: 08/02/13 08:28
Percent Solids: 64
Initial Volume: 19.8
Final Volume: 5
Extraction Method: 3540

ESS Laboratory Work Order: 1308105
ESS Laboratory Sample ID: 1308105-11
Sample Matrix: Solid
Units: mg/kg dry
Analyst: TJ
Prepared: 8/8/13 17:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0397)		8082A		1	08/10/13 22:46		CH30812
Aroclor 1221	ND (0.0397)		8082A		1	08/10/13 22:46		CH30812
Aroclor 1232	ND (0.0397)		8082A		1	08/10/13 22:46		CH30812
Aroclor 1242	ND (0.0397)		8082A		1	08/10/13 22:46		CH30812
Aroclor 1248	ND (0.0397)		8082A		1	08/10/13 22:46		CH30812
Aroclor 1254	ND (0.0397)		8082A		1	08/10/13 22:46		CH30812
Aroclor 1260	ND (0.0397)		8082A		1	08/10/13 22:46		CH30812
Aroclor 1262	ND (0.0397)		8082A		1	08/10/13 22:46		CH30812
Aroclor 1268	ND (0.0397)		8082A		1	08/10/13 22:46		CH30812

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*103 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*77 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*69 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*64 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-116 6-8ft
Date Sampled: 08/02/13 08:28
Percent Solids: 64
Initial Volume: 30.4
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308105
ESS Laboratory Sample ID: 1308105-11
Sample Matrix: Solid
Units: mg/kg dry
Analyst: IBM
Prepared: 8/8/13 13:40

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.258)		8270D		1	08/09/13 0:51	CWH0106	CH30815
1,2-Dichlorobenzene	ND (0.258)		8270D		1	08/09/13 0:51	CWH0106	CH30815
1,3-Dichlorobenzene	ND (0.258)		8270D		1	08/09/13 0:51	CWH0106	CH30815
1,4-Dichlorobenzene	ND (0.258)		8270D		1	08/09/13 0:51	CWH0106	CH30815
2-Methylnaphthalene	ND (0.258)		8270D		1	08/09/13 0:51	CWH0106	CH30815
2-Methylphenol	ND (0.258)		8270D		1	08/09/13 0:51	CWH0106	CH30815
Acenaphthene	ND (0.258)		8270D		1	08/09/13 0:51	CWH0106	CH30815
Acenaphthylene	ND (0.258)		8270D		1	08/09/13 0:51	CWH0106	CH30815
Anthracene	ND (0.258)		8270D		1	08/09/13 0:51	CWH0106	CH30815
Benzo(a)anthracene	ND (0.258)		8270D		1	08/09/13 0:51	CWH0106	CH30815
Benzo(a)pyrene	ND (0.129)		8270D		1	08/09/13 0:51	CWH0106	CH30815
Benzo(b)fluoranthene	ND (0.258)		8270D		1	08/09/13 0:51	CWH0106	CH30815
Benzo(g,h,i)perylene	ND (0.258)		8270D		1	08/09/13 0:51	CWH0106	CH30815
Benzo(k)fluoranthene	ND (0.258)		8270D		1	08/09/13 0:51	CWH0106	CH30815
bis(2-Ethylhexyl)phthalate	ND (0.258)		8270D		1	08/09/13 0:51	CWH0106	CH30815
Butylbenzylphthalate	ND (0.258)		8270D		1	08/09/13 0:51	CWH0106	CH30815
Carbazole	ND (0.258)		8270D		1	08/09/13 0:51	CWH0106	CH30815
Chrysene	ND (0.129)		8270D		1	08/09/13 0:51	CWH0106	CH30815
Dibenzo(a,h)Anthracene	ND (0.129)		8270D		1	08/09/13 0:51	CWH0106	CH30815
Dibenzofuran	ND (0.258)		8270D		1	08/09/13 0:51	CWH0106	CH30815
Diethylphthalate	ND (0.258)		8270D		1	08/09/13 0:51	CWH0106	CH30815
Dimethylphthalate	ND (0.258)		8270D		1	08/09/13 0:51	CWH0106	CH30815
Di-n-butylphthalate	ND (0.258)		8270D		1	08/09/13 0:51	CWH0106	CH30815
Di-n-octylphthalate	ND (0.258)		8270D		1	08/09/13 0:51	CWH0106	CH30815
Fluoranthene	ND (0.258)		8270D		1	08/09/13 0:51	CWH0106	CH30815
Fluorene	ND (0.258)		8270D		1	08/09/13 0:51	CWH0106	CH30815
Hexachlorobenzene	ND (0.258)		8270D		1	08/09/13 0:51	CWH0106	CH30815
Hexachlorocyclopentadiene	ND (1.29)		8270D		1	08/09/13 0:51	CWH0106	CH30815
Indeno(1,2,3-cd)Pyrene	ND (0.258)		8270D		1	08/09/13 0:51	CWH0106	CH30815
Naphthalene	ND (0.258)		8270D		1	08/09/13 0:51	CWH0106	CH30815
Phenanthrene	ND (0.258)		8270D		1	08/09/13 0:51	CWH0106	CH30815

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-116 6-8ft
Date Sampled: 08/02/13 08:28
Percent Solids: 64
Initial Volume: 30.4
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308105
ESS Laboratory Sample ID: 1308105-11
Sample Matrix: Solid
Units: mg/kg dry
Analyst: IBM
Prepared: 8/8/13 13:40

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Phenol	ND (0.258)		8270D		1	08/09/13 0:51	CWH0106	CH30815
Pyrene	ND (0.258)		8270D		1	08/09/13 0:51	CWH0106	CH30815

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*76 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*7 %*	*S-*	*30-130*
Surrogate: 2-Chlorophenol-d4	*80 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*77 %*		*30-130*
Surrogate: 2-Fluorophenol	*75 %*		*30-130*
Surrogate: Nitrobenzene-d5	*80 %*		*30-130*
Surrogate: Phenol-d6	*81 %*		*30-130*
Surrogate: p-Terphenyl-d14	*84 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-116 6-8ft
Date Sampled: 08/02/13 08:28
Percent Solids: 64
Initial Volume: 15.6
Final Volume: 0.5
Extraction Method: 3541

ESS Laboratory Work Order: 1308105
ESS Laboratory Sample ID: 1308105-11
Sample Matrix: Solid
Units: mg/kg dry
Analyst: IBM
Prepared: 8/8/13 11:45

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	ND (0.013)		8270D		1	08/11/13 1:23	CWH0138	CH30811
Acenaphthene	ND (0.013)		8270D		1	08/11/13 1:23	CWH0138	CH30811
Acenaphthylene	ND (0.013)		8270D		1	08/11/13 1:23	CWH0138	CH30811
Anthracene	ND (0.013)		8270D		1	08/11/13 1:23	CWH0138	CH30811
Benzo(a)anthracene	ND (0.013)		8270D		1	08/11/13 1:23	CWH0138	CH30811
Benzo(a)pyrene	ND (0.013)		8270D		1	08/11/13 1:23	CWH0138	CH30811
Benzo(b)fluoranthene	ND (0.013)		8270D		1	08/11/13 1:23	CWH0138	CH30811
Benzo(g,h,i)perylene	ND (0.013)		8270D		1	08/11/13 1:23	CWH0138	CH30811
Benzo(k)fluoranthene	ND (0.013)		8270D		1	08/11/13 1:23	CWH0138	CH30811
Chrysene	ND (0.013)		8270D		1	08/11/13 1:23	CWH0138	CH30811
Dibenzo(a,h)Anthracene	ND (0.013)		8270D		1	08/11/13 1:23	CWH0138	CH30811
Fluoranthene	ND (0.013)		8270D		1	08/11/13 1:23	CWH0138	CH30811
Fluorene	ND (0.013)		8270D		1	08/11/13 1:23	CWH0138	CH30811
Indeno(1,2,3-cd)Pyrene	ND (0.013)		8270D		1	08/11/13 1:23	CWH0138	CH30811
Naphthalene	ND (0.013)		8270D		1	08/11/13 1:23	CWH0138	CH30811
Phenanthrene	ND (0.013)		8270D		1	08/11/13 1:23	CWH0138	CH30811
Pyrene	ND (0.013)		8270D		1	08/11/13 1:23	CWH0138	CH30811

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1,2-Dichlorobenzene-d4	*41 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*42 %*		*30-130*
Surrogate: Nitrobenzene-d5	*46 %*		*30-130*
Surrogate: p-Terphenyl-d14	*76 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-116 6-8ft
Date Sampled: 08/02/13 08:28
Percent Solids: 64

ESS Laboratory Work Order: 1308105
ESS Laboratory Sample ID: 1308105-11
Sample Matrix: Solid

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**10900** (500)		TOC-LK		1	SUB	08/14/13 0:00	mg/kg	CH31926

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-116 6-8ft
Date Sampled: 08/02/13 08:28
Percent Solids: 64
Initial Volume: 15.2
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1308105
ESS Laboratory Sample ID: 1308105-11
Sample Matrix: Solid
Units: mg/kg dry

Prepared: 8/8/13 11:00

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (38.7)		MADEP-EPH		1	IBM	08/09/13 14:30	CWH0117	CH30813
C19-C36 Aliphatics1	ND (38.7)		MADEP-EPH		1	IBM	08/09/13 14:30	CWH0117	CH30813
C11-C22 Unadjusted Aromatics1	ND (38.7)		EPH8270		1	IBM	08/09/13 16:36	CWH0116	CH30813
C11-C22 Aromatics1,2	ND (38.7)		EPH8270			IBM	08/09/13 16:36		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*70 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*104 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*99 %*		*40-140*
Surrogate: O-Terphenyl	*73 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-116 8-9ft
Date Sampled: 08/02/13 08:28
Percent Solids: 62

ESS Laboratory Work Order: 1308105
ESS Laboratory Sample ID: 1308105-12
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (1.5)		6020A		50	JP	08/09/13 19:51	5.39	100	CH30801
Arsenic	**2.6** (1.5)		6010B		1	SVD	08/08/13 21:29	5.39	100	CH30801
Barium	**28.7** (1.5)		6010B		1	SVD	08/08/13 21:29	5.39	100	CH30801
Beryllium	**0.55** (0.06)		6010B		1	SVD	08/08/13 21:29	5.39	100	CH30801
Cadmium	**0.47** (0.30)		6010B		1	SVD	08/08/13 21:29	5.39	100	CH30801
Chromium	**24.3** (0.6)		6010B		1	SVD	08/08/13 21:29	5.39	100	CH30801
Lead	**4.5** (3.0)		6010B		1	SVD	08/08/13 21:29	5.39	100	CH30801
Mercury	ND (0.023)		7471B		1	NAR	08/09/13 15:59	1.36	40	CH30803
Nickel	**13.8** (1.5)		6010B		1	SVD	08/08/13 21:29	5.39	100	CH30801
Selenium	ND (1.50)		6020A		50	JP	08/09/13 19:51	5.39	100	CH30801
Silver	ND (0.30)		6010B		1	SVD	08/08/13 21:29	5.39	100	CH30801
Thallium	ND (1.50)		6020A		50	JP	08/09/13 19:51	5.39	100	CH30801
Vanadium	**31.7** (0.6)		6010B		1	SVD	08/08/13 21:29	5.39	100	CH30801
Zinc	**42.0** (1.5)		6010B		1	SVD	08/08/13 21:29	5.39	100	CH30801

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-117T 0-0.5ft
Date Sampled: 08/06/13 08:55
Percent Solids: 29

ESS Laboratory Work Order: 1308105
ESS Laboratory Sample ID: 1308105-13
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (3.3)		6020A		50	JP	08/09/13 19:57	5.18	100	CH30801
Arsenic	**38.6** (3.3)		6010B		1	SVD	08/08/13 21:35	5.18	100	CH30801
Barium	**74.8** (3.3)		6010B		1	SVD	08/08/13 21:35	5.18	100	CH30801
Beryllium	**0.81** (0.14)		6010B		1	SVD	08/08/13 21:35	5.18	100	CH30801
Cadmium	**2.33** (0.66)		6010B		1	SVD	08/08/13 21:35	5.18	100	CH30801
Chromium	**90.7** (1.3)		6010B		1	SVD	08/08/13 21:35	5.18	100	CH30801
Lead	**245** (6.6)		6010B		1	SVD	08/08/13 21:35	5.18	100	CH30801
Mercury	**1.12** (0.274)		7471B		5	NAR	08/09/13 13:20	1.24	40	CH30803
Nickel	**26.4** (3.3)		6010B		1	SVD	08/08/13 21:35	5.18	100	CH30801
Selenium	ND (3.32)		6020A		50	JP	08/09/13 19:57	5.18	100	CH30801
Silver	**2.30** (0.66)		6010B		1	SVD	08/08/13 21:35	5.18	100	CH30801
Thallium	ND (3.32)		6020A		50	JP	08/09/13 19:57	5.18	100	CH30801
Vanadium	**86.0** (1.3)		6010B		1	SVD	08/08/13 21:35	5.18	100	CH30801
Zinc	**392** (3.3)		6010B		1	SVD	08/08/13 21:35	5.18	100	CH30801

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-117T 0-0.5ft
Date Sampled: 08/06/13 08:55
Percent Solids: 29

ESS Laboratory Work Order: 1308105
ESS Laboratory Sample ID: 1308105-13
Sample Matrix: Solid

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**45700** (500)		TOC-LK		1	SUB	08/14/13 0:00	mg/kg	CH31926

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-117 2-4ft
Date Sampled: 08/01/13 13:19
Percent Solids: 35

ESS Laboratory Work Order: 1308105
ESS Laboratory Sample ID: 1308105-14
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (2.7)		6020A		50	JP	08/09/13 20:03	5.33	100	CH30801
Arsenic	**153** (2.7)		6010B		1	SVD	08/08/13 21:40	5.33	100	CH30801
Barium	**63.2** (2.7)		6010B		1	SVD	08/08/13 21:40	5.33	100	CH30801
Beryllium	**0.90** (0.11)		6010B		1	SVD	08/08/13 21:40	5.33	100	CH30801
Cadmium	**4.31** (0.54)		6010B		1	SVD	08/08/13 21:40	5.33	100	CH30801
Chromium	**150** (1.1)		6010B		1	SVD	08/08/13 21:40	5.33	100	CH30801
Lead	**350** (5.3)		6010B		1	SVD	08/08/13 21:40	5.33	100	CH30801
Mercury	**2.34** (0.210)		7471B		5	NAR	08/09/13 13:28	1.34	40	CH30803
Nickel	**34.6** (2.7)		6010B		1	SVD	08/08/13 21:40	5.33	100	CH30801
Selenium	ND (2.68)		6020A		50	JP	08/09/13 20:03	5.33	100	CH30801
Silver	**4.04** (0.54)		6010B		1	SVD	08/08/13 21:40	5.33	100	CH30801
Thallium	ND (2.68)		6020A		50	JP	08/09/13 20:03	5.33	100	CH30801
Vanadium	**307** (1.1)		6010B		1	SVD	08/08/13 21:40	5.33	100	CH30801
Zinc	**531** (2.7)		6010B		1	SVD	08/08/13 21:40	5.33	100	CH30801

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-117 4-6ft
Date Sampled: 08/01/13 13:19
Percent Solids: 34

ESS Laboratory Work Order: 1308105
ESS Laboratory Sample ID: 1308105-15
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (2.9)		6020A		50	JP	08/09/13 20:21	5.04	100	CH30801
Arsenic	**112** (2.9)		6010B		1	SVD	08/08/13 21:54	5.04	100	CH30801
Barium	**44.4** (2.9)		6010B		1	SVD	08/08/13 21:54	5.04	100	CH30801
Beryllium	**0.55** (0.12)		6010B		1	SVD	08/08/13 21:54	5.04	100	CH30801
Cadmium	**2.03** (0.58)		6010B		1	SVD	08/08/13 21:54	5.04	100	CH30801
Chromium	**120** (1.2)		6010B		1	SVD	08/08/13 21:54	5.04	100	CH30801
Lead	**164** (5.8)		6010B		1	SVD	08/08/13 21:54	5.04	100	CH30801
Mercury	**2.31** (0.225)		7471B		5	NAR	08/09/13 13:31	1.28	40	CH30803
Nickel	**20.4** (2.9)		6010B		1	SVD	08/08/13 21:54	5.04	100	CH30801
Selenium	ND (2.90)		6020A		50	JP	08/09/13 20:21	5.04	100	CH30801
Silver	**2.22** (0.58)		6010B		1	SVD	08/08/13 21:54	5.04	100	CH30801
Thallium	ND (2.90)		6020A		50	JP	08/09/13 20:21	5.04	100	CH30801
Vanadium	**235** (1.2)		6010B		1	SVD	08/08/13 21:54	5.04	100	CH30801
Zinc	**221** (2.9)		6010B		1	SVD	08/08/13 21:54	5.04	100	CH30801

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-118A 0-0.5ft
Date Sampled: 08/05/13 11:35
Percent Solids: 71

ESS Laboratory Work Order: 1308105
ESS Laboratory Sample ID: 1308105-16
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (1.3)		6020A		50	JP	08/09/13 20:27	5.48	100	CH30801
Arsenic	**155** (1.3)		6010B		1	SVD	08/08/13 22:00	5.48	100	CH30801
Barium	**23.5** (1.3)		6010B		1	SVD	08/08/13 22:00	5.48	100	CH30801
Beryllium	**0.25** (0.05)		6010B		1	SVD	08/08/13 22:00	5.48	100	CH30801
Cadmium	**0.59** (0.26)		6010B		1	SVD	08/08/13 22:00	5.48	100	CH30801
Chromium	**15.1** (0.5)		6010B		1	SVD	08/08/13 22:00	5.48	100	CH30801
Lead	**80.6** (2.6)		6010B		1	SVD	08/08/13 22:00	5.48	100	CH30801
Mercury	**0.249** (0.085)		7471B		5	NAR	08/09/13 13:33	1.65	40	CH30803
Nickel	**7.4** (1.3)		6010B		1	SVD	08/08/13 22:00	5.48	100	CH30801
Selenium	ND (1.30)		6020A		50	JP	08/09/13 20:27	5.48	100	CH30801
Silver	**0.67** (0.26)		6010B		1	SVD	08/08/13 22:00	5.48	100	CH30801
Thallium	ND (1.30)		6020A		50	JP	08/09/13 20:27	5.48	100	CH30801
Vanadium	**32.8** (0.5)		6010B		1	SVD	08/08/13 22:00	5.48	100	CH30801
Zinc	**73.3** (1.3)		6010B		1	SVD	08/08/13 22:00	5.48	100	CH30801

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-118A 0-0.5ft
Date Sampled: 08/05/13 11:35
Percent Solids: 71

ESS Laboratory Work Order: 1308105
ESS Laboratory Sample ID: 1308105-16
Sample Matrix: Solid

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**33700** (500)		TOC-LK		1	SUB	08/14/13 0:00	mg/kg	CH31926

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-118A 0.5-1ft
Date Sampled: 08/05/13 11:35
Percent Solids: 79

ESS Laboratory Work Order: 1308105
ESS Laboratory Sample ID: 1308105-17
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (1.2)		6020A		50	JP	08/09/13 20:33	5.12	100	CH30801
Arsenic	**106** (1.2)		6010B		1	SVD	08/08/13 22:05	5.12	100	CH30801
Barium	**25.2** (1.2)		6010B		1	SVD	08/08/13 22:05	5.12	100	CH30801
Beryllium	**0.29** (0.05)		6010B		1	SVD	08/08/13 22:05	5.12	100	CH30801
Cadmium	**0.46** (0.25)		6010B		1	SVD	08/08/13 22:05	5.12	100	CH30801
Chromium	**17.7** (0.5)		6010B		1	SVD	08/08/13 22:05	5.12	100	CH30801
Lead	**69.0** (2.5)		6010B		1	SVD	08/08/13 22:05	5.12	100	CH30801
Mercury	**0.276** (0.093)		7471B		5	NAR	08/09/13 13:36	1.34	40	CH30803
Nickel	**8.6** (1.2)		6010B		1	SVD	08/08/13 22:05	5.12	100	CH30801
Selenium	ND (1.24)		6020A		50	JP	08/09/13 20:33	5.12	100	CH30801
Silver	**0.57** (0.25)		6010B		1	SVD	08/08/13 22:05	5.12	100	CH30801
Thallium	ND (1.24)		6020A		50	JP	08/09/13 20:33	5.12	100	CH30801
Vanadium	**34.5** (0.5)		6010B		1	SVD	08/08/13 22:05	5.12	100	CH30801
Zinc	**70.9** (1.2)		6010B		1	SVD	08/08/13 22:05	5.12	100	CH30801

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-119T 0-0.5ft
Date Sampled: 08/01/13 10:39
Percent Solids: 31

ESS Laboratory Work Order: 1308105
ESS Laboratory Sample ID: 1308105-18
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (2.8)		6020A		50	JP	08/09/13 20:39	5.83	100	CH30801
Arsenic	**33.0** (2.8)		6010B		1	SVD	08/08/13 22:10	5.83	100	CH30801
Barium	**65.4** (2.8)		6010B		1	SVD	08/08/13 22:10	5.83	100	CH30801
Beryllium	**0.70** (0.12)		6010B		1	SVD	08/08/13 22:10	5.83	100	CH30801
Cadmium	**2.23** (0.56)		6010B		1	SVD	08/08/13 22:10	5.83	100	CH30801
Chromium	**79.8** (1.1)		6010B		1	SVD	08/08/13 22:10	5.83	100	CH30801
Lead	**213** (5.6)		6010B		1	SVD	08/08/13 22:10	5.83	100	CH30801
Mercury	**1.11** (0.284)		7471B		5	NAR	08/09/13 13:39	1.14	40	CH30803
Nickel	**22.4** (2.8)		6010B		1	SVD	08/08/13 22:10	5.83	100	CH30801
Selenium	ND (2.82)		6020A		50	JP	08/09/13 20:39	5.83	100	CH30801
Silver	**2.03** (0.56)		6010B		1	SVD	08/08/13 22:10	5.83	100	CH30801
Thallium	ND (2.82)		6020A		50	JP	08/09/13 20:39	5.83	100	CH30801
Vanadium	**70.5** (1.1)		6010B		1	SVD	08/08/13 22:10	5.83	100	CH30801
Zinc	**369** (2.8)		6010B		1	SVD	08/08/13 22:10	5.83	100	CH30801

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-119T 0-0.5ft
Date Sampled: 08/01/13 10:39
Percent Solids: 31
Initial Volume: 19.3
Final Volume: 5
Extraction Method: 3540

ESS Laboratory Work Order: 1308105
ESS Laboratory Sample ID: 1308105-18
Sample Matrix: Solid
Units: mg/kg dry
Analyst: TJ
Prepared: 8/8/13 17:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0849)		8082A		1	08/12/13 20:38		CH30812
Aroclor 1221	ND (0.0849)		8082A		1	08/12/13 20:38		CH30812
Aroclor 1232	ND (0.0849)		8082A		1	08/12/13 20:38		CH30812
Aroclor 1242	ND (0.0849)		8082A		1	08/12/13 20:38		CH30812
Aroclor 1248	**1.53** (0.0849)		8082A		1	08/12/13 20:38		CH30812
Aroclor 1254	**1.29** (0.0849)		8082A		1	08/12/13 20:38		CH30812
Aroclor 1260	**0.569** (0.0849)		8082A		1	08/12/13 20:38		CH30812
Aroclor 1262	ND (0.0849)		8082A		1	08/12/13 20:38		CH30812
Aroclor 1268	ND (0.0849)		8082A		1	08/12/13 20:38		CH30812

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*89 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*83 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*31 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*21 %*	*S-*	*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-119T 0-0.5ft
Date Sampled: 08/01/13 10:39
Percent Solids: 31
Initial Volume: 30.1
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308105
ESS Laboratory Sample ID: 1308105-18
Sample Matrix: Solid
Units: mg/kg dry
Analyst: IBM
Prepared: 8/8/13 13:40

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.544)		8270D		1	08/09/13 1:58	CWH0106	CH30815
1,2-Dichlorobenzene	ND (0.544)		8270D		1	08/09/13 1:58	CWH0106	CH30815
1,3-Dichlorobenzene	ND (0.544)		8270D		1	08/09/13 1:58	CWH0106	CH30815
1,4-Dichlorobenzene	ND (0.544)		8270D		1	08/09/13 1:58	CWH0106	CH30815
2-Methylnaphthalene	ND (0.544)		8270D		1	08/09/13 1:58	CWH0106	CH30815
2-Methylphenol	ND (0.544)		8270D		1	08/09/13 1:58	CWH0106	CH30815
Acenaphthene	ND (0.544)		8270D		1	08/09/13 1:58	CWH0106	CH30815
Acenaphthylene	ND (0.544)		8270D		1	08/09/13 1:58	CWH0106	CH30815
Anthracene	ND (0.544)		8270D		1	08/09/13 1:58	CWH0106	CH30815
Benzo(a)anthracene	**0.715** (0.544)		8270D		1	08/09/13 1:58	CWH0106	CH30815
Benzo(a)pyrene	**1.03** (0.273)		8270D		1	08/09/13 1:58	CWH0106	CH30815
Benzo(b)fluoranthene	**1.62** (0.544)		8270D		1	08/09/13 1:58	CWH0106	CH30815
Benzo(g,h,i)perylene	ND (0.544)		8270D		1	08/09/13 1:58	CWH0106	CH30815
Benzo(k)fluoranthene	**0.724** (0.544)		8270D		1	08/09/13 1:58	CWH0106	CH30815
bis(2-Ethylhexyl)phthalate	**131** (5.44)		8270D		10	08/09/13 23:07	CWH0106	CH30815
Butylbenzylphthalate	ND (0.544)		8270D		1	08/09/13 1:58	CWH0106	CH30815
Carbazole	ND (0.544)		8270D		1	08/09/13 1:58	CWH0106	CH30815
Chrysene	**1.15** (0.273)		8270D		1	08/09/13 1:58	CWH0106	CH30815
Dibenzo(a,h)Anthracene	ND (0.273)		8270D		1	08/09/13 1:58	CWH0106	CH30815
Dibenzofuran	ND (0.544)		8270D		1	08/09/13 1:58	CWH0106	CH30815
Diethylphthalate	ND (0.544)		8270D		1	08/09/13 1:58	CWH0106	CH30815
Dimethylphthalate	ND (0.544)		8270D		1	08/09/13 1:58	CWH0106	CH30815
Di-n-butylphthalate	ND (0.544)		8270D		1	08/09/13 1:58	CWH0106	CH30815
Di-n-octylphthalate	**7.86** (5.44)		8270D		10	08/09/13 23:07	CWH0106	CH30815
Fluoranthene	**1.89** (0.544)		8270D		1	08/09/13 1:58	CWH0106	CH30815
Fluorene	ND (0.544)		8270D		1	08/09/13 1:58	CWH0106	CH30815
Hexachlorobenzene	ND (0.544)		8270D		1	08/09/13 1:58	CWH0106	CH30815
Hexachlorocyclopentadiene	ND (2.73)		8270D		1	08/09/13 1:58	CWH0106	CH30815
Indeno(1,2,3-cd)Pyrene	ND (0.544)		8270D		1	08/09/13 1:58	CWH0106	CH30815
Naphthalene	ND (0.544)		8270D		1	08/09/13 1:58	CWH0106	CH30815
Phenanthrene	**0.621** (0.544)		8270D		1	08/09/13 1:58	CWH0106	CH30815

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-119T 0-0.5ft
Date Sampled: 08/01/13 10:39
Percent Solids: 31
Initial Volume: 30.1
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308105
ESS Laboratory Sample ID: 1308105-18
Sample Matrix: Solid
Units: mg/kg dry
Analyst: IBM
Prepared: 8/8/13 13:40

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Phenol	ND (0.544)		8270D		1	08/09/13 1:58	CWH0106	CH30815
Pyrene	**1.56** (0.544)		8270D		1	08/09/13 1:58	CWH0106	CH30815

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*45 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*29 %*	*S-*	*30-130*
Surrogate: 2-Chlorophenol-d4	*50 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*50 %*		*30-130*
Surrogate: 2-Fluorophenol	*44 %*		*30-130*
Surrogate: Nitrobenzene-d5	*47 %*		*30-130*
Surrogate: Phenol-d6	*50 %*		*30-130*
Surrogate: p-Terphenyl-d14	*63 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-119T 0-0.5ft
Date Sampled: 08/01/13 10:39
Percent Solids: 31
Initial Volume: 15.4
Final Volume: 0.5
Extraction Method: 3541

ESS Laboratory Work Order: 1308105
ESS Laboratory Sample ID: 1308105-18
Sample Matrix: Solid
Units: mg/kg dry
Analyst: IBM
Prepared: 8/8/13 11:45

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	ND (0.133)		8270D		5	08/10/13 8:10	CWH0128	CH30811
Acenaphthene	ND (0.133)		8270D		5	08/10/13 8:10	CWH0128	CH30811
Acenaphthylene	ND (0.133)		8270D		5	08/10/13 8:10	CWH0128	CH30811
Anthracene	ND (0.133)		8270D		5	08/10/13 8:10	CWH0128	CH30811
Benzo(a)anthracene	**0.144** (0.133)		8270D		5	08/10/13 8:10	CWH0128	CH30811
Benzo(a)pyrene	**0.191** (0.133)		8270D		5	08/10/13 8:10	CWH0128	CH30811
Benzo(b)fluoranthene	**0.266** (0.133)		8270D		5	08/10/13 8:10	CWH0128	CH30811
Benzo(g,h,i)perylene	**0.175** (0.133)		8270D		5	08/10/13 8:10	CWH0128	CH30811
Benzo(k)fluoranthene	ND (0.133)		8270D		5	08/10/13 8:10	CWH0128	CH30811
Chrysene	**0.197** (0.133)		8270D		5	08/10/13 8:10	CWH0128	CH30811
Dibenzo(a,h)Anthracene	ND (0.133)		8270D		5	08/10/13 8:10	CWH0128	CH30811
Fluoranthene	**0.266** (0.133)		8270D		5	08/10/13 8:10	CWH0128	CH30811
Fluorene	ND (0.133)		8270D		5	08/10/13 8:10	CWH0128	CH30811
Indeno(1,2,3-cd)Pyrene	**0.191** (0.133)		8270D		5	08/10/13 8:10	CWH0128	CH30811
Naphthalene	ND (0.133)		8270D		5	08/10/13 8:10	CWH0128	CH30811
Phenanthrene	ND (0.133)		8270D		5	08/10/13 8:10	CWH0128	CH30811
Pyrene	**0.314** (0.133)		8270D		5	08/10/13 8:10	CWH0128	CH30811

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*34 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*30 %*		*30-130*
Surrogate: Nitrobenzene-d5	*26 %*	*S-*	*30-130*
Surrogate: p-Terphenyl-d14	*57 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-119T 0-0.5ft
Date Sampled: 08/01/13 10:39
Percent Solids: 31

ESS Laboratory Work Order: 1308105
ESS Laboratory Sample ID: 1308105-18
Sample Matrix: Solid

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**49400** (500)		TOC-LK		1	SUB	08/14/13 0:00	mg/kg	CH31926

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-119T 0-0.5ft
Date Sampled: 08/01/13 10:39
Percent Solids: 31
Initial Volume: 15.3
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1308105
ESS Laboratory Sample ID: 1308105-18
Sample Matrix: Solid
Units: mg/kg dry

Prepared: 8/8/13 11:00

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (80.3)		MADEP-EPH		1	IBM	08/09/13 16:12	CWH0117	CH30813
C19-C36 Aliphatics1	**99.9** (80.3)		MADEP-EPH		1	IBM	08/09/13 16:12	CWH0117	CH30813
C11-C22 Unadjusted Aromatics1	**155** (80.3)		EPH8270		1	SEP	08/10/13 17:45	CWH0135	CH30813
C11-C22 Aromatics1,2	**155** (80.3)		EPH8270			SEP	08/10/13 17:45		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*62 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*108 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*101 %*		*40-140*
Surrogate: O-Terphenyl	*83 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-119 2-4ft
Date Sampled: 08/01/13 13:33
Percent Solids: 20

ESS Laboratory Work Order: 1308105
ESS Laboratory Sample ID: 1308105-19
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (4.9)		6020A		50	JP	08/09/13 20:45	5.05	100	CH30801
Arsenic	**93.1** (4.9)		6010B		1	SVD	08/08/13 22:16	5.05	100	CH30801
Barium	**66.7** (4.9)		6010B		1	SVD	08/08/13 22:16	5.05	100	CH30801
Beryllium	**0.85** (0.20)		6010B		1	SVD	08/08/13 22:16	5.05	100	CH30801
Cadmium	**2.35** (0.98)		6010B		1	SVD	08/08/13 22:16	5.05	100	CH30801
Chromium	**133** (1.9)		6010B		1	SVD	08/08/13 22:16	5.05	100	CH30801
Lead	**202** (9.7)		6010B		1	SVD	08/08/13 22:16	5.05	100	CH30801
Mercury	**1.51** (0.358)		7471B		5	NAR	08/09/13 13:41	1.36	40	CH30803
Nickel	**17.2** (4.9)		6010B		1	SVD	08/08/13 22:16	5.05	100	CH30801
Selenium	ND (4.89)		6020A		50	JP	08/09/13 20:45	5.05	100	CH30801
Silver	**1.63** (0.98)		6010B		1	SVD	08/08/13 22:16	5.05	100	CH30801
Thallium	ND (4.89)		6020A		50	JP	08/09/13 20:45	5.05	100	CH30801
Vanadium	**134** (1.9)		6010B		1	SVD	08/08/13 22:16	5.05	100	CH30801
Zinc	**272** (4.9)		6010B		1	SVD	08/08/13 22:16	5.05	100	CH30801

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-119 2-4ft
Date Sampled: 08/01/13 13:33
Percent Solids: 20
Initial Volume: 19.1
Final Volume: 5
Extraction Method: 3540

ESS Laboratory Work Order: 1308105
ESS Laboratory Sample ID: 1308105-19
Sample Matrix: Solid
Units: mg/kg dry
Analyst: TJ
Prepared: 8/8/13 17:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.129)		8082A		1	08/12/13 20:57		CH30812
Aroclor 1221	ND (0.129)		8082A		1	08/12/13 20:57		CH30812
Aroclor 1232	ND (0.129)		8082A		1	08/12/13 20:57		CH30812
Aroclor 1242	ND (0.129)		8082A		1	08/12/13 20:57		CH30812
Aroclor 1248	**2.07** (0.129)		8082A		1	08/12/13 20:57		CH30812
Aroclor 1254	**3.88** (0.644)		8082A		5	08/14/13 16:40		CH30812
Aroclor 1260	ND (0.129)		8082A		1	08/12/13 20:57		CH30812
Aroclor 1262	ND (0.129)		8082A		1	08/12/13 20:57		CH30812
Aroclor 1268	ND (0.129)		8082A		1	08/12/13 20:57		CH30812

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*120 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*92 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*115 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*102 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-119 2-4ft
Date Sampled: 08/01/13 13:33
Percent Solids: 20
Initial Volume: 30.2
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308105
ESS Laboratory Sample ID: 1308105-19
Sample Matrix: Solid
Units: mg/kg dry
Analyst: IBM
Prepared: 8/8/13 13:40

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.813)		8270D		1	08/09/13 2:31	CWH0106	CH30815
1,2-Dichlorobenzene	ND (0.813)		8270D		1	08/09/13 2:31	CWH0106	CH30815
1,3-Dichlorobenzene	ND (0.813)		8270D		1	08/09/13 2:31	CWH0106	CH30815
1,4-Dichlorobenzene	ND (0.813)		8270D		1	08/09/13 2:31	CWH0106	CH30815
2-Methylnaphthalene	ND (0.813)		8270D		1	08/09/13 2:31	CWH0106	CH30815
2-Methylphenol	ND (0.813)		8270D		1	08/09/13 2:31	CWH0106	CH30815
Acenaphthene	ND (0.813)		8270D		1	08/09/13 2:31	CWH0106	CH30815
Acenaphthylene	ND (0.813)		8270D		1	08/09/13 2:31	CWH0106	CH30815
Anthracene	ND (0.813)		8270D		1	08/09/13 2:31	CWH0106	CH30815
Benzo(a)anthracene	ND (0.813)		8270D		1	08/09/13 2:31	CWH0106	CH30815
Benzo(a)pyrene	ND (0.408)		8270D		1	08/09/13 2:31	CWH0106	CH30815
Benzo(b)fluoranthene	ND (0.813)		8270D		1	08/09/13 2:31	CWH0106	CH30815
Benzo(g,h,i)perylene	ND (0.813)		8270D		1	08/09/13 2:31	CWH0106	CH30815
Benzo(k)fluoranthene	ND (0.813)		8270D		1	08/09/13 2:31	CWH0106	CH30815
bis(2-Ethylhexyl)phthalate	**1170** (81.3)		8270D		100	08/10/13 0:14	CWH0106	CH30815
Butylbenzylphthalate	ND (0.813)		8270D		1	08/09/13 2:31	CWH0106	CH30815
Carbazole	ND (0.813)		8270D		1	08/09/13 2:31	CWH0106	CH30815
Chrysene	ND (0.408)		8270D		1	08/09/13 2:31	CWH0106	CH30815
Dibenzo(a,h)Anthracene	ND (0.408)		8270D		1	08/09/13 2:31	CWH0106	CH30815
Dibenzofuran	ND (0.813)		8270D		1	08/09/13 2:31	CWH0106	CH30815
Diethylphthalate	ND (0.813)		8270D		1	08/09/13 2:31	CWH0106	CH30815
Dimethylphthalate	ND (0.813)		8270D		1	08/09/13 2:31	CWH0106	CH30815
Di-n-butylphthalate	ND (0.813)		8270D		1	08/09/13 2:31	CWH0106	CH30815
Di-n-octylphthalate	**2.34** (0.813)		8270D		1	08/09/13 2:31	CWH0106	CH30815
Fluoranthene	ND (0.813)		8270D		1	08/09/13 2:31	CWH0106	CH30815
Fluorene	ND (0.813)		8270D		1	08/09/13 2:31	CWH0106	CH30815
Hexachlorobenzene	ND (0.813)		8270D		1	08/09/13 2:31	CWH0106	CH30815
Hexachlorocyclopentadiene	ND (4.08)		8270D		1	08/09/13 2:31	CWH0106	CH30815
Indeno(1,2,3-cd)Pyrene	ND (0.813)		8270D		1	08/09/13 2:31	CWH0106	CH30815
Naphthalene	**1.05** (0.813)		8270D		1	08/09/13 2:31	CWH0106	CH30815
Phenanthrene	ND (0.813)		8270D		1	08/09/13 2:31	CWH0106	CH30815

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-119 2-4ft
Date Sampled: 08/01/13 13:33
Percent Solids: 20
Initial Volume: 30.2
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308105
ESS Laboratory Sample ID: 1308105-19
Sample Matrix: Solid
Units: mg/kg dry
Analyst: IBM
Prepared: 8/8/13 13:40

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Phenol	ND (0.813)		8270D		1	08/09/13 2:31	CWH0106	CH30815
Pyrene	ND (0.813)		8270D		1	08/09/13 2:31	CWH0106	CH30815

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*73 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*74 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*78 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*76 %*		*30-130*
Surrogate: 2-Fluorophenol	*73 %*		*30-130*
Surrogate: Nitrobenzene-d5	*75 %*		*30-130*
Surrogate: Phenol-d6	*77 %*		*30-130*
Surrogate: p-Terphenyl-d14	*69 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-119 2-4ft
Date Sampled: 08/01/13 13:33
Percent Solids: 20
Initial Volume: 15
Final Volume: 0.5
Extraction Method: 3541

ESS Laboratory Work Order: 1308105
ESS Laboratory Sample ID: 1308105-19
Sample Matrix: Solid
Units: mg/kg dry
Analyst: IBM
Prepared: 8/8/13 11:45

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	**0.218** (0.041)		8270D		1	08/10/13 16:24	CWH0128	CH30811
Acenaphthene	**0.070** (0.041)		8270D		1	08/10/13 16:24	CWH0128	CH30811
Acenaphthylene	**0.067** (0.041)		8270D		1	08/10/13 16:24	CWH0128	CH30811
Anthracene	**0.154** (0.041)		8270D		1	08/10/13 16:24	CWH0128	CH30811
Benzo(a)anthracene	**0.151** (0.041)		8270D		1	08/10/13 16:24	CWH0128	CH30811
Benzo(a)pyrene	**0.121** (0.041)		8270D		1	08/10/13 16:24	CWH0128	CH30811
Benzo(b)fluoranthene	**0.252** (0.041)		8270D		1	08/10/13 16:24	CWH0128	CH30811
Benzo(g,h,i)perylene	**0.098** (0.041)		8270D		1	08/10/13 16:24	CWH0128	CH30811
Benzo(k)fluoranthene	**0.113** (0.041)		8270D		1	08/10/13 16:24	CWH0128	CH30811
Chrysene	**0.182** (0.041)		8270D		1	08/10/13 16:24	CWH0128	CH30811
Dibenzo(a,h)Anthracene	ND (0.041)		8270D		1	08/10/13 16:24	CWH0128	CH30811
Fluoranthene	**0.364** (0.041)		8270D		1	08/10/13 16:24	CWH0128	CH30811
Fluorene	**0.157** (0.041)		8270D		1	08/10/13 16:24	CWH0128	CH30811
Indeno(1,2,3-cd)Pyrene	**0.111** (0.041)		8270D		1	08/10/13 16:24	CWH0128	CH30811
Naphthalene	**0.808** (0.041)		8270D		1	08/10/13 16:24	CWH0128	CH30811
Phenanthrene	**0.767** (0.041)		8270D		1	08/10/13 16:24	CWH0128	CH30811
Pyrene	**0.446** (0.041)		8270D		1	08/10/13 16:24	CWH0128	CH30811

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*37 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*44 %*		*30-130*
Surrogate: Nitrobenzene-d5	*51 %*		*30-130*
Surrogate: p-Terphenyl-d14	*70 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-119 2-4ft
Date Sampled: 08/01/13 13:33
Percent Solids: 20

ESS Laboratory Work Order: 1308105
ESS Laboratory Sample ID: 1308105-19
Sample Matrix: Solid

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**52800** (500)		TOC-LK		1	SUB	08/14/13 0:00	mg/kg	CH31926

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-119 2-4ft
Date Sampled: 08/01/13 13:33
Percent Solids: 20
Initial Volume: 15.1
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1308105
ESS Laboratory Sample ID: 1308105-19
Sample Matrix: Solid
Units: mg/kg dry

Prepared: 8/8/13 11:00

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	**218** (122)		MADEP-EPH		1	IBM	08/09/13 17:02	CWH0117	CH30813
C19-C36 Aliphatics1	**194** (122)		MADEP-EPH		1	IBM	08/09/13 17:02	CWH0117	CH30813
C11-C22 Unadjusted Aromatics1	**949** (122)		EPH8270		1	SEP	08/10/13 18:32	CWH0135	CH30813
C11-C22 Aromatics1,2	**949** (122)		EPH8270			SEP	08/10/13 18:32		[CALC]

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1-Chlorooctadecane	*76 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*114 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*107 %*		*40-140*
Surrogate: O-Terphenyl	*85 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-120T 0-0.5ft
Date Sampled: 08/06/13 09:49
Percent Solids: 56

ESS Laboratory Work Order: 1308105
ESS Laboratory Sample ID: 1308105-20
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	**2.5** (1.6)		6020A		50	JP	08/09/13 20:51	5.49	100	CH30801
Arsenic	**172** (1.6)		6010B		1	SVD	08/08/13 22:21	5.49	100	CH30801
Barium	**52.5** (1.6)		6010B		1	SVD	08/08/13 22:21	5.49	100	CH30801
Beryllium	**0.34** (0.07)		6010B		1	SVD	08/08/13 22:21	5.49	100	CH30801
Cadmium	**0.83** (0.33)		6010B		1	SVD	08/08/13 22:21	5.49	100	CH30801
Chromium	**27.3** (0.6)		6010B		1	SVD	08/08/13 22:21	5.49	100	CH30801
Lead	**306** (3.3)		6010B		1	SVD	08/08/13 22:21	5.49	100	CH30801
Mercury	**0.740** (0.116)		7471B		5	NAR	08/09/13 13:44	1.53	40	CH30803
Nickel	**8.5** (1.6)		6010B		1	SVD	08/08/13 22:21	5.49	100	CH30801
Selenium	ND (1.63)		6020A		50	JP	08/09/13 20:51	5.49	100	CH30801
Silver	**1.65** (0.33)		6010B		1	SVD	08/08/13 22:21	5.49	100	CH30801
Thallium	ND (1.63)		6020A		50	JP	08/09/13 20:51	5.49	100	CH30801
Vanadium	**39.3** (0.6)		6010B		1	SVD	08/08/13 22:21	5.49	100	CH30801
Zinc	**157** (1.6)		6010B		1	SVD	08/08/13 22:21	5.49	100	CH30801

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-120T 0-0.5ft
Date Sampled: 08/06/13 09:49
Percent Solids: 56

ESS Laboratory Work Order: 1308105
ESS Laboratory Sample ID: 1308105-20
Sample Matrix: Solid

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**19400** (500)		TOC-LK		1	SUB	08/14/13 0:00	mg/kg	CH31926

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308105

Quality Control Data

Total Metals Solid

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch CH30801 - 3050B										
Blank										
Antimony	ND	2.5	mg/kg wet							
Antimony	ND	5.0	mg/kg wet							
Arsenic	ND	2.5	mg/kg wet							
Barium	ND	2.5	mg/kg wet							
Beryllium	ND	0.10	mg/kg wet							
Cadmium	ND	0.50	mg/kg wet							
Chromium	ND	1.0	mg/kg wet							
Lead	ND	5.0	mg/kg wet							
Nickel	ND	2.5	mg/kg wet							
Selenium	ND	2.51	mg/kg wet							
Selenium	ND	5.0	mg/kg wet							
Silver	ND	0.50	mg/kg wet							
Thallium	ND	10.0	mg/kg wet							
Thallium	ND	2.51	mg/kg wet							
Vanadium	ND	1.0	mg/kg wet							
Zinc	ND	2.5	mg/kg wet							
LCS										
Antimony	94.9	8.4	mg/kg wet	106.0		90	80-120			
Antimony	90.8	16.7	mg/kg wet	106.0		86	80-120			
Arsenic	176	8.3	mg/kg wet	182.0		97	80-120			
Barium	143	8.3	mg/kg wet	143.0		100	80-120			
Beryllium	96.0	0.35	mg/kg wet	98.30		98	80-120			
Cadmium	59.1	1.68	mg/kg wet	60.40		98	80-120			
Chromium	126	3.3	mg/kg wet	125.0		101	80-120			
Lead	136	16.7	mg/kg wet	136.0		100	80-120			
Nickel	133	8.3	mg/kg wet	128.0		104	80-120			
Selenium	80.3	16.7	mg/kg wet	85.90		94	80-120			
Selenium	89.6	8.38	mg/kg wet	85.90		104	80-120			
Silver	61.1	1.68	mg/kg wet	61.30		100	80-120			
Thallium	152	8.38	mg/kg wet	144.0		106	80-120			
Thallium	158	33.2	mg/kg wet	144.0		110	80-120			
Vanadium	106	3.3	mg/kg wet	104.0		102	80-120			
Zinc	200	8.3	mg/kg wet	204.0		98	80-120			
LCS Dup										
Antimony	89.1	8.2	mg/kg wet	106.0		84	80-120	6	20	
Antimony	87.3	16.4	mg/kg wet	106.0		82	80-120	4	20	
Arsenic	173	8.2	mg/kg wet	182.0		95	80-120	1	20	
Barium	141	8.2	mg/kg wet	143.0		98	80-120	2	20	
Beryllium	94.7	0.34	mg/kg wet	98.30		96	80-120	1	20	
Cadmium	59.5	1.65	mg/kg wet	60.40		98	80-120	0.6	20	
Chromium	123	3.3	mg/kg wet	125.0		98	80-120	3	20	
Lead	135	16.4	mg/kg wet	136.0		99	80-120	0.8	20	
Nickel	131	8.2	mg/kg wet	128.0		102	80-120	1	20	
Selenium	79.4	16.4	mg/kg wet	85.90		92	80-120	1	20	

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308105

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Total Metals Solid										
Batch CH30801 - 3050B										
Selenium	85.2	8.24	mg/kg wet	85.90		99	80-120	5	20	
Silver	60.7	1.65	mg/kg wet	61.30		99	80-120	0.7	20	
Thallium	158	32.7	mg/kg wet	144.0		109	80-120	0.2	20	
Thallium	149	8.24	mg/kg wet	144.0		104	80-120	2	20	
Vanadium	103	3.3	mg/kg wet	104.0		99	80-120	3	20	
Zinc	195	8.2	mg/kg wet	204.0		96	80-120	2	20	
Batch CH30803 - 7471A										
Blank										
Mercury	ND	0.033	mg/kg wet							
LCS										
Mercury	10.2	1.65	mg/kg wet	9.250		110	80-120			
LCS Dup										
Mercury	9.36	1.60	mg/kg wet	9.250		101	80-120	9	20	
8082A Polychlorinated Biphenyls (PCB)										
Batch CH30812 - 3540										
Blank										
Aroclor 1016	ND	0.0250	mg/kg wet							
Aroclor 1016 (1)	ND	0.0250	mg/kg wet							
Aroclor 1016 (1) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1016 (2)	ND	0.0250	mg/kg wet							
Aroclor 1016 (2) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1016 (3)	ND	0.0250	mg/kg wet							
Aroclor 1016 (3) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1016 (4)	ND	0.0250	mg/kg wet							
Aroclor 1016 (4) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1016 (5)	ND	0.0250	mg/kg wet							
Aroclor 1016 (5) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1221	ND	0.0250	mg/kg wet							
Aroclor 1221 (1)	ND	0.0250	mg/kg wet							
Aroclor 1221 (1) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1221 (2)	ND	0.0250	mg/kg wet							
Aroclor 1221 (2) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1221 (3)	ND	0.0250	mg/kg wet							
Aroclor 1221 (3) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1221 (4)	ND	0.0250	mg/kg wet							
Aroclor 1221 (4) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1221 (5)	ND	0.0250	mg/kg wet							
Aroclor 1221 (5) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1232	ND	0.0250	mg/kg wet							
Aroclor 1232 (1)	ND	0.0250	mg/kg wet							
Aroclor 1232 (1) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1232 (2)	ND	0.0250	mg/kg wet							
Aroclor 1232 (2) [2C]	ND	0.0250	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308105

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CH30812 - 3540										
Aroclor 1232 (3)	ND	0.0250	mg/kg wet							
Aroclor 1232 (3) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1232 (4)	ND	0.0250	mg/kg wet							
Aroclor 1232 (4) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1232 (5)	ND	0.0250	mg/kg wet							
Aroclor 1232 (5) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1242	ND	0.0250	mg/kg wet							
Aroclor 1242 (1)	ND	0.0250	mg/kg wet							
Aroclor 1242 (1) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1242 (2)	ND	0.0250	mg/kg wet							
Aroclor 1242 (2) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1242 (3)	ND	0.0250	mg/kg wet							
Aroclor 1242 (3) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1242 (4)	ND	0.0250	mg/kg wet							
Aroclor 1242 (4) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1242 (5)	ND	0.0250	mg/kg wet							
Aroclor 1242 (5) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1248	ND	0.0250	mg/kg wet							
Aroclor 1248 (1)	ND	0.0250	mg/kg wet							
Aroclor 1248 (1) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1248 (2)	ND	0.0250	mg/kg wet							
Aroclor 1248 (2) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1248 (3)	ND	0.0250	mg/kg wet							
Aroclor 1248 (3) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1248 (4)	ND	0.0250	mg/kg wet							
Aroclor 1248 (4) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1248 (5)	ND	0.0250	mg/kg wet							
Aroclor 1248 (5) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1254	ND	0.0250	mg/kg wet							
Aroclor 1254 (1)	ND	0.0250	mg/kg wet							
Aroclor 1254 (1) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1254 (2)	ND	0.0250	mg/kg wet							
Aroclor 1254 (2) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1254 (3)	ND	0.0250	mg/kg wet							
Aroclor 1254 (3) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1254 (4)	ND	0.0250	mg/kg wet							
Aroclor 1254 (4) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1254 (5)	ND	0.0250	mg/kg wet							
Aroclor 1254 (5) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1260	ND	0.0250	mg/kg wet							
Aroclor 1260 (1)	ND	0.0250	mg/kg wet							
Aroclor 1260 (1) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1260 (2)	ND	0.0250	mg/kg wet							
Aroclor 1260 (2) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1260 (3)	ND	0.0250	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308105

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CH30812 - 3540										
Aroclor 1260 (3) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1260 (4)	ND	0.0250	mg/kg wet							
Aroclor 1260 (4) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1260 (5)	ND	0.0250	mg/kg wet							
Aroclor 1260 (5) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1262	ND	0.0250	mg/kg wet							
Aroclor 1262 (1)	ND	0.0250	mg/kg wet							
Aroclor 1262 (1) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1262 (2)	ND	0.0250	mg/kg wet							
Aroclor 1262 (2) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1262 (3)	ND	0.0250	mg/kg wet							
Aroclor 1262 (3) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1262 (4)	ND	0.0250	mg/kg wet							
Aroclor 1262 (4) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1262 (5)	ND	0.0250	mg/kg wet							
Aroclor 1262 (5) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1268	ND	0.0250	mg/kg wet							
Aroclor 1268 (1)	ND	0.0250	mg/kg wet							
Aroclor 1268 (1) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1268 (2)	ND	0.0250	mg/kg wet							
Aroclor 1268 (2) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1268 (3)	ND	0.0250	mg/kg wet							
Aroclor 1268 (3) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1268 (4)	ND	0.0250	mg/kg wet							
Aroclor 1268 (4) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1268 (5)	ND	0.0250	mg/kg wet							
Aroclor 1268 (5) [2C]	ND	0.0250	mg/kg wet							
Surrogate: Decachlorobiphenyl	*0.0130*		mg/kg wet	*0.01250*		*104*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.00992*		mg/kg wet	*0.01250*		*79*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0104*		mg/kg wet	*0.01250*		*83*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.00936*		mg/kg wet	*0.01250*		*75*	*30-150*			
LCS										
Aroclor 1016	0.260	0.0250	mg/kg wet	0.2500		104	40-140			
Aroclor 1260	0.263	0.0250	mg/kg wet	0.2500		105	40-140			
Surrogate: Decachlorobiphenyl	*0.0135*		mg/kg wet	*0.01250*		*108*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0104*		mg/kg wet	*0.01250*		*83*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0112*		mg/kg wet	*0.01250*		*90*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.00989*		mg/kg wet	*0.01250*		*79*	*30-150*			
LCS Dup										
Aroclor 1016	0.261	0.0250	mg/kg wet	0.2500		104	40-140	0.5	30	
Aroclor 1260	0.268	0.0250	mg/kg wet	0.2500		107	40-140	2	30	
Surrogate: Decachlorobiphenyl	*0.0139*		mg/kg wet	*0.01250*		*111*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0106*		mg/kg wet	*0.01250*		*85*	*30-150*			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308105

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CH30812 - 3540										
Surrogate: Tetrachloro-m-xylene	*0.0115*		mg/kg wet	*0.01250*		*92*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.00996*		mg/kg wet	*0.01250*		*80*	*30-150*			
8270D Semi-Volatile Organic Compounds										
Batch CH30815 - 3546										
Blank										
1,2,4-Trichlorobenzene	ND	0.333	mg/kg wet							
1,2-Dichlorobenzene	ND	0.333	mg/kg wet							
1,3-Dichlorobenzene	ND	0.333	mg/kg wet							
1,4-Dichlorobenzene	ND	0.333	mg/kg wet							
2-Methylnaphthalene	ND	0.333	mg/kg wet							
2-Methylphenol	ND	0.333	mg/kg wet							
Acenaphthene	ND	0.333	mg/kg wet							
Acenaphthylene	ND	0.333	mg/kg wet							
Anthracene	ND	0.333	mg/kg wet							
Benzo(a)anthracene	ND	0.333	mg/kg wet							
Benzo(a)pyrene	ND	0.167	mg/kg wet							
Benzo(b)fluoranthene	ND	0.333	mg/kg wet							
Benzo(g,h,i)perylene	ND	0.333	mg/kg wet							
Benzo(k)fluoranthene	ND	0.333	mg/kg wet							
bis(2-Ethylhexyl)phthalate	ND	0.333	mg/kg wet							
Butylbenzylphthalate	ND	0.333	mg/kg wet							
Carbazole	ND	0.333	mg/kg wet							
Chrysene	ND	0.167	mg/kg wet							
Dibenzo(a,h)Anthracene	ND	0.167	mg/kg wet							
Dibenzofuran	ND	0.333	mg/kg wet							
Diethylphthalate	ND	0.333	mg/kg wet							
Dimethylphthalate	ND	0.333	mg/kg wet							
Di-n-butylphthalate	ND	0.333	mg/kg wet							
Di-n-octylphthalate	ND	0.333	mg/kg wet							
Fluoranthene	ND	0.333	mg/kg wet							
Fluorene	ND	0.333	mg/kg wet							
Hexachlorobenzene	ND	0.333	mg/kg wet							
Hexachlorocyclopentadiene	ND	1.67	mg/kg wet							
Indeno(1,2,3-cd)Pyrene	ND	0.333	mg/kg wet							
Naphthalene	ND	0.333	mg/kg wet							
Phenanthrene	ND	0.333	mg/kg wet							
Phenol	ND	0.333	mg/kg wet							
Pyrene	ND	0.333	mg/kg wet							
Surrogate: 1,2-Dichlorobenzene-d4	*2.36*		mg/kg wet	*3.333*		*71*	*30-130*			
Surrogate: 2,4,6-Tribromophenol	*3.81*		mg/kg wet	*5.000*		*76*	*30-130*			
Surrogate: 2-Chlorophenol-d4	*3.78*		mg/kg wet	*5.000*		*76*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*2.38*		mg/kg wet	*3.333*		*72*	*30-130*			
Surrogate: 2-Fluorophenol	*3.53*		mg/kg wet	*5.000*		*71*	*30-130*			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308105

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D Semi-Volatile Organic Compounds										
Batch CH30815 - 3546										
Surrogate: Nitrobenzene-d5	*2.35*		mg/kg wet	*3.333*		*71*	*30-130*			
Surrogate: Phenol-d6	*3.76*		mg/kg wet	*5.000*		*75*	*30-130*			
Surrogate: p-Terphenyl-d14	*3.51*		mg/kg wet	*3.333*		*105*	*30-130*			
LCS										
1,2,4-Trichlorobenzene	2.16	0.333	mg/kg wet	3.333		65	40-140			
1,2-Dichlorobenzene	2.07	0.333	mg/kg wet	3.333		62	40-140			
1,3-Dichlorobenzene	2.06	0.333	mg/kg wet	3.333		62	40-140			
1,4-Dichlorobenzene	2.08	0.333	mg/kg wet	3.333		62	40-140			
2-Methylnaphthalene	2.32	0.333	mg/kg wet	3.333		70	40-140			
2-Methylphenol	2.14	0.333	mg/kg wet	3.333		64	30-130			
Acenaphthene	2.58	0.333	mg/kg wet	3.333		77	40-140			
Acenaphthylene	2.45	0.333	mg/kg wet	3.333		74	40-140			
Anthracene	3.03	0.333	mg/kg wet	3.333		91	40-140			
Benzo(a)anthracene	2.81	0.333	mg/kg wet	3.333		84	40-140			
Benzo(a)pyrene	2.69	0.167	mg/kg wet	3.333		81	40-140			
Benzo(b)fluoranthene	3.15	0.333	mg/kg wet	3.333		95	40-140			
Benzo(g,h,i)perylene	3.08	0.333	mg/kg wet	3.333		92	40-140			
Benzo(k)fluoranthene	3.04	0.333	mg/kg wet	3.333		91	40-140			
bis(2-Ethylhexyl)phthalate	3.18	0.333	mg/kg wet	3.333		95	40-140			
Butylbenzylphthalate	3.15	0.333	mg/kg wet	3.333		95	40-140			
Carbazole	3.07	0.333	mg/kg wet	3.333		92	40-140			
Chrysene	2.94	0.167	mg/kg wet	3.333		88	40-140			
Dibenzo(a,h)Anthracene	3.54	0.167	mg/kg wet	3.333		106	40-140			
Dibenzofuran	2.62	0.333	mg/kg wet	3.333		78	40-140			
Diethylphthalate	2.88	0.333	mg/kg wet	3.333		86	40-140			
Dimethylphthalate	2.75	0.333	mg/kg wet	3.333		82	40-140			
Di-n-butylphthalate	3.22	0.333	mg/kg wet	3.333		97	40-140			
Di-n-octylphthalate	2.92	0.333	mg/kg wet	3.333		88	40-140			
Fluoranthene	3.10	0.333	mg/kg wet	3.333		93	40-140			
Fluorene	2.78	0.333	mg/kg wet	3.333		83	40-140			
Hexachlorobenzene	2.80	0.333	mg/kg wet	3.333		84	40-140			
Hexachlorocyclopentadiene	1.58	1.67	mg/kg wet	3.333		47	40-140			
Indeno(1,2,3-cd)Pyrene	2.98	0.333	mg/kg wet	3.333		89	40-140			
Naphthalene	2.28	0.333	mg/kg wet	3.333		68	40-140			
Phenanthrene	3.04	0.333	mg/kg wet	3.333		91	40-140			
Phenol	2.11	0.333	mg/kg wet	3.333		63	30-130			
Pyrene	3.05	0.333	mg/kg wet	3.333		92	40-140			
Surrogate: 1,2-Dichlorobenzene-d4	*2.14*		mg/kg wet	*3.333*		*64*	*30-130*			
Surrogate: 2,4,6-Tribromophenol	*4.28*		mg/kg wet	*5.000*		*86*	*30-130*			
Surrogate: 2-Chlorophenol-d4	*3.34*		mg/kg wet	*5.000*		*67*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*2.48*		mg/kg wet	*3.333*		*74*	*30-130*			
Surrogate: 2-Fluorophenol	*3.21*		mg/kg wet	*5.000*		*64*	*30-130*			
Surrogate: Nitrobenzene-d5	*2.28*		mg/kg wet	*3.333*		*69*	*30-130*			
Surrogate: Phenol-d6	*3.31*		mg/kg wet	*5.000*		*66*	*30-130*			
Surrogate: p-Terphenyl-d14	*2.84*		mg/kg wet	*3.333*		*85*	*30-130*			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308105

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D Semi-Volatile Organic Compounds										
Batch CH30815 - 3546										
LCS Dup										
1,2,4-Trichlorobenzene	2.17	0.333	mg/kg wet	3.333		65	40-140	0.7	30	
1,2-Dichlorobenzene	2.16	0.333	mg/kg wet	3.333		65	40-140	4	30	
1,3-Dichlorobenzene	2.13	0.333	mg/kg wet	3.333		64	40-140	3	30	
1,4-Dichlorobenzene	2.18	0.333	mg/kg wet	3.333		65	40-140	5	30	
2-Methylnaphthalene	2.37	0.333	mg/kg wet	3.333		71	40-140	2	30	
2-Methylphenol	2.22	0.333	mg/kg wet	3.333		67	30-130	4	30	
Acenaphthene	2.71	0.333	mg/kg wet	3.333		81	40-140	5	30	
Acenaphthylene	2.57	0.333	mg/kg wet	3.333		77	40-140	5	30	
Anthracene	3.14	0.333	mg/kg wet	3.333		94	40-140	4	30	
Benzo(a)anthracene	3.10	0.333	mg/kg wet	3.333		93	40-140	10	30	
Benzo(a)pyrene	2.73	0.167	mg/kg wet	3.333		82	40-140	2	30	
Benzo(b)fluoranthene	3.25	0.333	mg/kg wet	3.333		97	40-140	3	30	
Benzo(g,h,i)perylene	3.21	0.333	mg/kg wet	3.333		96	40-140	4	30	
Benzo(k)fluoranthene	3.20	0.333	mg/kg wet	3.333		96	40-140	5	30	
bis(2-Ethylhexyl)phthalate	3.26	0.333	mg/kg wet	3.333		98	40-140	2	30	
Butylbenzylphthalate	3.26	0.333	mg/kg wet	3.333		98	40-140	3	30	
Carbazole	3.18	0.333	mg/kg wet	3.333		95	40-140	3	30	
Chrysene	3.04	0.167	mg/kg wet	3.333		91	40-140	3	30	
Dibenzo(a,h)Anthracene	3.68	0.167	mg/kg wet	3.333		110	40-140	4	30	
Dibenzofuran	2.73	0.333	mg/kg wet	3.333		82	40-140	4	30	
Diethylphthalate	2.96	0.333	mg/kg wet	3.333		89	40-140	3	30	
Dimethylphthalate	2.86	0.333	mg/kg wet	3.333		86	40-140	4	30	
Di-n-butylphthalate	3.30	0.333	mg/kg wet	3.333		99	40-140	2	30	
Di-n-octylphthalate	3.01	0.333	mg/kg wet	3.333		90	40-140	3	30	
Fluoranthene	3.21	0.333	mg/kg wet	3.333		96	40-140	4	30	
Fluorene	2.90	0.333	mg/kg wet	3.333		87	40-140	4	30	
Hexachlorobenzene	2.95	0.333	mg/kg wet	3.333		88	40-140	5	30	
Hexachlorocyclopentadiene	1.70	1.67	mg/kg wet	3.333		51	40-140	7	30	
Indeno(1,2,3-cd)Pyrene	3.14	0.333	mg/kg wet	3.333		94	40-140	5	30	
Naphthalene	2.30	0.333	mg/kg wet	3.333		69	40-140	0.7	30	
Phenanthrene	3.14	0.333	mg/kg wet	3.333		94	40-140	3	30	
Phenol	2.18	0.333	mg/kg wet	3.333		65	30-130	3	30	
Pyrene	3.16	0.333	mg/kg wet	3.333		95	40-140	3	30	
Surrogate: 1,2-Dichlorobenzene-d4	*2.17*		mg/kg wet	*3.333*		*65*	*30-130*			
Surrogate: 2,4,6-Tribromophenol	*4.40*		mg/kg wet	*5.000*		*88*	*30-130*			
Surrogate: 2-Chlorophenol-d4	*3.37*		mg/kg wet	*5.000*		*67*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*2.59*		mg/kg wet	*3.333*		*78*	*30-130*			
Surrogate: 2-Fluorophenol	*3.23*		mg/kg wet	*5.000*		*65*	*30-130*			
Surrogate: Nitrobenzene-d5	*2.27*		mg/kg wet	*3.333*		*68*	*30-130*			
Surrogate: Phenol-d6	*3.34*		mg/kg wet	*5.000*		*67*	*30-130*			
Surrogate: p-Terphenyl-d14	*2.76*		mg/kg wet	*3.333*		*83*	*30-130*			
8270D(SIM) Polynuclear Aromatic Hydrocarbons										
Batch CH30811 - 3541										

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308105

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D(SIM) Polynuclear Aromatic Hydrocarbons										
Batch CH30811 - 3541										
Blank										
2-Methylnaphthalene	ND	0.017	mg/kg wet							
Acenaphthene	ND	0.017	mg/kg wet							
Acenaphthylene	ND	0.017	mg/kg wet							
Anthracene	ND	0.017	mg/kg wet							
Benzo(a)anthracene	ND	0.017	mg/kg wet							
Benzo(a)pyrene	ND	0.017	mg/kg wet							
Benzo(b)fluoranthene	ND	0.017	mg/kg wet							
Benzo(g,h,i)perylene	ND	0.017	mg/kg wet							
Benzo(k)fluoranthene	ND	0.017	mg/kg wet							
Chrysene	ND	0.017	mg/kg wet							
Dibenzo(a,h)Anthracene	ND	0.017	mg/kg wet							
Fluoranthene	ND	0.017	mg/kg wet							
Fluorene	ND	0.017	mg/kg wet							
Indeno(1,2,3-cd)Pyrene	ND	0.017	mg/kg wet							
Naphthalene	ND	0.017	mg/kg wet							
Phenanthrene	ND	0.017	mg/kg wet							
Pyrene	ND	0.017	mg/kg wet							
Surrogate: 1,2-Dichlorobenzene-d4	*0.119*		mg/kg wet	*0.3333*		*36*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*0.125*		mg/kg wet	*0.3333*		*38*	*30-130*			
Surrogate: Nitrobenzene-d5	*0.128*		mg/kg wet	*0.3333*		*38*	*30-130*			
Surrogate: p-Terphenyl-d14	*0.183*		mg/kg wet	*0.3333*		*55*	*30-130*			
LCS										
2-Methylnaphthalene	0.252	0.017	mg/kg wet	0.2667		95	40-140			
Acenaphthene	0.233	0.017	mg/kg wet	0.2667		87	40-140			
Acenaphthylene	0.211	0.017	mg/kg wet	0.2667		79	40-140			
Anthracene	0.254	0.017	mg/kg wet	0.2667		95	40-140			
Benzo(a)anthracene	0.263	0.017	mg/kg wet	0.2667		98	40-140			
Benzo(a)pyrene	0.242	0.017	mg/kg wet	0.2667		91	40-140			
Benzo(b)fluoranthene	0.243	0.017	mg/kg wet	0.2667		91	40-140			
Benzo(g,h,i)perylene	0.281	0.017	mg/kg wet	0.2667		105	40-140			
Benzo(k)fluoranthene	0.243	0.017	mg/kg wet	0.2667		91	40-140			
Chrysene	0.259	0.017	mg/kg wet	0.2667		97	40-140			
Dibenzo(a,h)Anthracene	0.310	0.017	mg/kg wet	0.2667		116	40-140			
Fluoranthene	0.234	0.017	mg/kg wet	0.2667		88	40-140			
Fluorene	0.243	0.017	mg/kg wet	0.2667		91	40-140			
Indeno(1,2,3-cd)Pyrene	0.290	0.017	mg/kg wet	0.2667		109	40-140			
Naphthalene	0.236	0.017	mg/kg wet	0.2667		88	40-140			
Phenanthrene	0.251	0.017	mg/kg wet	0.2667		94	40-140			
Pyrene	0.260	0.017	mg/kg wet	0.2667		97	40-140			
Surrogate: 1,2-Dichlorobenzene-d4	*0.240*		mg/kg wet	*0.3333*		*72*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*0.233*		mg/kg wet	*0.3333*		*70*	*30-130*			
Surrogate: Nitrobenzene-d5	*0.246*		mg/kg wet	*0.3333*		*74*	*30-130*			
Surrogate: p-Terphenyl-d14	*0.322*		mg/kg wet	*0.3333*		*97*	*30-130*			
LCS Dup										

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308105

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D(SIM) Polynuclear Aromatic Hydrocarbons										
Batch CH30811 - 3541										
2-Methylnaphthalene	0.206	0.017	mg/kg wet	0.2667		77	40-140	20	30	
Acenaphthene	0.199	0.017	mg/kg wet	0.2667		74	40-140	16	30	
Acenaphthylene	0.177	0.017	mg/kg wet	0.2667		66	40-140	17	30	
Anthracene	0.217	0.017	mg/kg wet	0.2667		81	40-140	16	30	
Benzo(a)anthracene	0.244	0.017	mg/kg wet	0.2667		91	40-140	7	30	
Benzo(a)pyrene	0.226	0.017	mg/kg wet	0.2667		85	40-140	7	30	
Benzo(b)fluoranthene	0.238	0.017	mg/kg wet	0.2667		89	40-140	2	30	
Benzo(g,h,i)perylene	0.260	0.017	mg/kg wet	0.2667		97	40-140	8	30	
Benzo(k)fluoranthene	0.229	0.017	mg/kg wet	0.2667		86	40-140	6	30	
Chrysene	0.238	0.017	mg/kg wet	0.2667		89	40-140	8	30	
Dibenzo(a,h)Anthracene	0.286	0.017	mg/kg wet	0.2667		107	40-140	8	30	
Fluoranthene	0.211	0.017	mg/kg wet	0.2667		79	40-140	10	30	
Fluorene	0.207	0.017	mg/kg wet	0.2667		78	40-140	16	30	
Indeno(1,2,3-cd)Pyrene	0.272	0.017	mg/kg wet	0.2667		102	40-140	7	30	
Naphthalene	0.190	0.017	mg/kg wet	0.2667		71	40-140	21	30	
Phenanthrene	0.212	0.017	mg/kg wet	0.2667		79	40-140	17	30	
Pyrene	0.235	0.017	mg/kg wet	0.2667		88	40-140	10	30	
Surrogate: 1,2-Dichlorobenzene-d4	*0.181*		mg/kg wet	*0.3333*		*54*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*0.186*		mg/kg wet	*0.3333*		*56*	*30-130*			
Surrogate: Nitrobenzene-d5	*0.189*		mg/kg wet	*0.3333*		*57*	*30-130*			
Surrogate: p-Terphenyl-d14	*0.283*		mg/kg wet	*0.3333*		*85*	*30-130*			
Classical Chemistry										
Batch CH30841 - General Preparation										
Blank										
Reactive Cyanide	ND	2.0	mg/kg							
Reactive Sulfide	ND	2.0	mg/kg							
LCS										
Reactive Cyanide	3.9	2.0	mg/kg	100.3		4	0.68-5.41			
Reactive Sulfide	0.2	2.0	mg/kg	10.00		2	0-44			
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CH30813 - 3546										
Blank										
C19-C36 Aliphatics1	ND	15.0	mg/kg wet							
C9-C18 Aliphatics1	ND	15.0	mg/kg wet							
Decane (C10)	ND	0.5	mg/kg wet							
Docosane (C22)	ND	0.5	mg/kg wet							
Dodecane (C12)	ND	0.5	mg/kg wet							
Eicosane (C20)	ND	0.5	mg/kg wet							
Hexacosane (C26)	ND	0.5	mg/kg wet							
Hexadecane (C16)	ND	0.5	mg/kg wet							
Hexatriacontane (C36)	ND	0.5	mg/kg wet							
Nonadecane (C19)	ND	0.5	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
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ESS Laboratory Work Order: 1308105

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CH30813 - 3546										
Nonane (C9)	ND	0.5	mg/kg wet							
Octacosane (C28)	ND	0.5	mg/kg wet							
Octadecane (C18)	ND	0.5	mg/kg wet							
Tetracosane (C24)	ND	0.5	mg/kg wet							
Tetradecane (C14)	ND	0.5	mg/kg wet							
Triacontane (C30)	ND	0.5	mg/kg wet							
Surrogate: 1-Chlorooctadecane	*1.52*		mg/kg wet	*2.000*		*76*	*40-140*			
Blank										
2-Methylnaphthalene	ND	0.20	mg/kg wet							
Acenaphthene	ND	0.40	mg/kg wet							
Acenaphthylene	ND	0.20	mg/kg wet							
Anthracene	ND	0.40	mg/kg wet							
Benzo(a)anthracene	ND	0.40	mg/kg wet							
Benzo(a)pyrene	ND	0.40	mg/kg wet							
Benzo(b)fluoranthene	ND	0.40	mg/kg wet							
Benzo(g,h,i)perylene	ND	0.40	mg/kg wet							
Benzo(k)fluoranthene	ND	0.40	mg/kg wet							
C11-C22 Unadjusted Aromatics1	ND	15.0	mg/kg wet							
Chrysene	ND	0.40	mg/kg wet							
Dibenzo(a,h)Anthracene	ND	0.20	mg/kg wet							
Fluoranthene	ND	0.40	mg/kg wet							
Fluorene	ND	0.40	mg/kg wet							
Indeno(1,2,3-cd)Pyrene	ND	0.40	mg/kg wet							
Naphthalene	ND	0.40	mg/kg wet							
Phenanthrene	ND	0.40	mg/kg wet							
Pyrene	ND	0.40	mg/kg wet							
Surrogate: 2-Bromonaphthalene	*2.15*		mg/kg wet	*2.000*		*107*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*2.07*		mg/kg wet	*2.000*		*104*	*40-140*			
Surrogate: O-Terphenyl	*1.75*		mg/kg wet	*2.000*		*88*	*40-140*			
LCS										
C19-C36 Aliphatics1	15.0	15.0	mg/kg wet	16.00		94	40-140			
C9-C18 Aliphatics1	9.2	15.0	mg/kg wet	12.00		76	40-140			
Decane (C10)	1.1	0.5	mg/kg wet	2.000		54	40-140			
Docosane (C22)	1.6	0.5	mg/kg wet	2.000		81	40-140			
Dodecane (C12)	1.2	0.5	mg/kg wet	2.000		59	40-140			
Eicosane (C20)	1.6	0.5	mg/kg wet	2.000		78	40-140			
Hexacosane (C26)	1.6	0.5	mg/kg wet	2.000		80	40-140			
Hexadecane (C16)	1.5	0.5	mg/kg wet	2.000		73	40-140			
Hexatriacontane (C36)	1.6	0.5	mg/kg wet	2.000		82	40-140			
Nonadecane (C19)	1.6	0.5	mg/kg wet	2.000		78	40-140			
Nonane (C9)	0.8	0.5	mg/kg wet	2.000		40	30-140			
Octacosane (C28)	1.6	0.5	mg/kg wet	2.000		80	40-140			
Octadecane (C18)	1.5	0.5	mg/kg wet	2.000		77	40-140			
Tetracosane (C24)	1.6	0.5	mg/kg wet	2.000		79	40-140			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308105

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CH30813 - 3546										
Tetradecane (C14)	1.3	0.5	mg/kg wet	2.000		67	40-140			
Triacontane (C30)	1.6	0.5	mg/kg wet	2.000		81	40-140			
Surrogate: 1-Chlorooctadecane	*1.63*		mg/kg wet	*2.000*		*81*	*40-140*			
LCS										
2-Methylnaphthalene	1.30	0.20	mg/kg wet	2.000		65	40-140			
Acenaphthene	1.33	0.40	mg/kg wet	2.000		66	40-140			
Acenaphthylene	1.33	0.20	mg/kg wet	2.000		67	40-140			
Anthracene	1.35	0.40	mg/kg wet	2.000		68	40-140			
Benzo(a)anthracene	1.37	0.40	mg/kg wet	2.000		68	40-140			
Benzo(a)pyrene	1.68	0.40	mg/kg wet	2.000		84	40-140			
Benzo(b)fluoranthene	1.40	0.40	mg/kg wet	2.000		70	40-140			
Benzo(g,h,i)perylene	1.45	0.40	mg/kg wet	2.000		73	40-140			
Benzo(k)fluoranthene	1.59	0.40	mg/kg wet	2.000		79	40-140			
C11-C22 Unadjusted Aromatics1	27.6	15.0	mg/kg wet	34.00		81	40-140			
Chrysene	1.46	0.40	mg/kg wet	2.000		73	40-140			
Dibenzo(a,h)Anthracene	1.58	0.20	mg/kg wet	2.000		79	40-140			
Fluoranthene	1.43	0.40	mg/kg wet	2.000		71	40-140			
Fluorene	1.39	0.40	mg/kg wet	2.000		69	40-140			
Indeno(1,2,3-cd)Pyrene	1.43	0.40	mg/kg wet	2.000		71	40-140			
Naphthalene	1.19	0.40	mg/kg wet	2.000		59	40-140			
Phenanthrene	1.40	0.40	mg/kg wet	2.000		70	40-140			
Pyrene	1.44	0.40	mg/kg wet	2.000		72	40-140			
Surrogate: 2-Bromonaphthalene	*1.94*		mg/kg wet	*2.000*		*97*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*2.09*		mg/kg wet	*2.000*		*105*	*40-140*			
Surrogate: O-Terphenyl	*1.72*		mg/kg wet	*2.000*		*86*	*40-140*			
LCS										
2-Methylnaphthalene Breakthrough	0.0		%				0-5			
Naphthalene Breakthrough	0.0		%				0-5			
LCS Dup										
C19-C36 Aliphatics1	14.9	15.0	mg/kg wet	16.00		93	40-140	0.6	25	
C9-C18 Aliphatics1	8.6	15.0	mg/kg wet	12.00		72	40-140	6	25	
Decane (C10)	1.0	0.5	mg/kg wet	2.000		51	40-140	6	25	
Docosane (C22)	1.6	0.5	mg/kg wet	2.000		80	40-140	0.7	25	
Dodecane (C12)	1.1	0.5	mg/kg wet	2.000		57	40-140	4	25	
Eicosane (C20)	1.5	0.5	mg/kg wet	2.000		76	40-140	2	25	
Hexacosane (C26)	1.6	0.5	mg/kg wet	2.000		80	40-140	0.2	25	
Hexadecane (C16)	1.4	0.5	mg/kg wet	2.000		68	40-140	7	25	
Hexatriacontane (C36)	1.6	0.5	mg/kg wet	2.000		81	40-140	0.6	25	
Nonadecane (C19)	1.5	0.5	mg/kg wet	2.000		75	40-140	4	25	
Nonane (C9)	0.8	0.5	mg/kg wet	2.000		40	30-140	2	25	
Octacosane (C28)	1.6	0.5	mg/kg wet	2.000		81	40-140	0.2	25	
Octadecane (C18)	1.4	0.5	mg/kg wet	2.000		72	40-140	6	25	
Tetracosane (C24)	1.6	0.5	mg/kg wet	2.000		80	40-140	0.2	25	

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308105

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CH30813 - 3546										
Tetradecane (C14)	1.3	0.5	mg/kg wet	2.000		63	40-140	6	25	
Triacontane (C30)	1.6	0.5	mg/kg wet	2.000		80	40-140	0.3	25	
Surrogate: 1-Chlorooctadecane	*1.58*		mg/kg wet	*2.000*		*79*	*40-140*			
LCS Dup										
2-Methylnaphthalene	1.25	0.20	mg/kg wet	2.000		62	40-140	4	20	
Acenaphthene	1.26	0.40	mg/kg wet	2.000		63	40-140	6	20	
Acenaphthylene	1.30	0.20	mg/kg wet	2.000		65	40-140	3	20	
Anthracene	1.36	0.40	mg/kg wet	2.000		68	40-140	0.4	20	
Benzo(a)anthracene	1.43	0.40	mg/kg wet	2.000		71	40-140	4	20	
Benzo(a)pyrene	1.73	0.40	mg/kg wet	2.000		86	40-140	3	20	
Benzo(b)fluoranthene	1.49	0.40	mg/kg wet	2.000		74	40-140	6	20	
Benzo(g,h,i)perylene	1.50	0.40	mg/kg wet	2.000		75	40-140	3	20	
Benzo(k)fluoranthene	1.63	0.40	mg/kg wet	2.000		82	40-140	3	20	
C11-C22 Unadjusted Aromatics1	27.4	15.0	mg/kg wet	34.00		81	40-140	0.7	25	
Chrysene	1.51	0.40	mg/kg wet	2.000		76	40-140	4	20	
Dibenzo(a,h)Anthracene	1.61	0.20	mg/kg wet	2.000		80	40-140	2	20	
Fluoranthene	1.46	0.40	mg/kg wet	2.000		73	40-140	2	20	
Fluorene	1.38	0.40	mg/kg wet	2.000		69	40-140	0.7	20	
Indeno(1,2,3-cd)Pyrene	1.48	0.40	mg/kg wet	2.000		74	40-140	3	20	
Naphthalene	1.18	0.40	mg/kg wet	2.000		59	40-140	0.7	20	
Phenanthrene	1.35	0.40	mg/kg wet	2.000		67	40-140	4	20	
Pyrene	1.45	0.40	mg/kg wet	2.000		72	40-140	0.7	20	
Surrogate: 2-Bromonaphthalene	*1.86*		mg/kg wet	*2.000*		*93*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*2.00*		mg/kg wet	*2.000*		*100*	*40-140*			
Surrogate: O-Terphenyl	*1.69*		mg/kg wet	*2.000*		*85*	*40-140*			
LCS Dup										
2-Methylnaphthalene Breakthrough	0.0		%				0-5		200	
Naphthalene Breakthrough	0.0		%				0-5		200	

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308105

Notes and Definitions

U	Analyte included in the analysis, but not detected
SM	Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).
SD	Surrogate recovery(ies) diluted below the MRL (SD).
S-	Surrogate recovery(ies) below lower control limit (S-).
Q	Calibration required quadratic regression (Q).
ICV	Initial Calibration Verification recovery is outside of control limit (ICV).
EL	Elevated Method Reporting Limits due to sample matrix (EL).
D	Diluted.
C+	Continuing Calibration recovery is above upper control limit (C+).
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	Detection Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308105

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Department of Defense (DoD) Environmental Laboratory Accreditation Program (ELAP)
A2LA Accredited: Testing Cert# 2864.01
http://www.a2la.org/scopepdf/2864-01.pdf

Rhode Island Potable and Non Potable Water: LAI00179
http://www.health.ri.gov/labs/waterlabs-instate.php

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750
http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI0002
http://www.maine.gov/dep/blwq/topic/vessel/lab_list.pdf

Massachusetts Potable and Non Potable Water: M-RI002
http://public.dep.state.ma.us/labcert/labcert.aspx

New Hampshire (NELAP accredited) Potable and Non PotableWater, Solid and Hazardous Waste: 2424
http://www4.egov.nh.gov/des/nhelap/namesearch.asp

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313
http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006
http://datamine2.state.nj.us/dep/DEP_OPRA/

United States Department of Agriculture Soil Permit: S-54210

Maryland Potable Water: 301
http://www.mde.state.md.us/assets/document/WSP_labs-2009apr20.pdf

CHEMISTRY

A2LA Accredited: Testing Cert # 2864.01
Lead in Paint, Phthalates, Lead in Children's Metals Products (Including Jewelry)
http://www.A2LA.org/dirsearchnew/newsearch.cfm

CPSC ID# 1141
Lead Paint, Lead in Children's Metals Jewelry
http://www.cpsc.gov/cgi-bin/labapplist.aspx

Sterling Analytical, Inc.
15 Agawam Avenue
West Springfield, MA 01089
Phone (413) 214-6541 Fax (413) 214-6842
email-madhu@sterlinganalytical.com

Visit our website: www.sterlinganalytical.com

Mass Certification - MA-00071
Conn Certification - PH-0520

Report Date August 14, 2013

Customer	Contact	Laboratory Supervisor	eMail
ESS Laboratory	C. Taylor	Madhu Shah	madhu@sterlinganalytical.com

Sample Description
Analysis of Solid Samples

Samples Analyzed

Enclosed are Report No(s): 39721 to 39732

ICV 50,000 = 49,999mg/kg 8/13/13
CCV 50,000 = 48,137mg/kg 8/13/13

ICV 50,000 = 50,866mg/kg 8/14/13
CCV 50,000 = 49,535mg/kg 8/14/13

Sample # 39721 = 50,550mg/kg

39721 MS+50,000 = 103,794mg/kg 106.5% Rec
39721 MSD = 97,072mg/kg 93.1% Rec

Thank you for your business

Madhu Shah, Laboratory Supervisor **Date**

ALL the information contained in this report has been reviewed for accuracy and checked against all quality control requirements outlined in each applicable method.
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Sample	Description	Source	Taken/Time	Received
39721	1308105-1	ESS Laboratory	8/6/13	8/9/13

Parameter	Results		MDL	Method	Analyzed/Time	Tech
Total Organic Carbon Lloyd Kah	50,550	mg/kg	500.00	Lloyd Kahn	08/13/13	sjr

Sample	Description	Source	Taken/Time	Received
39722	1308105-2	ESS Laboratory	8/6/13	8/9/13

Parameter	Results		MDL	Method	Analyzed/Time	Tech
Total Organic Carbon Lloyd Kah	61,270	mg/kg	500.00	Lloyd Kahn	08/13/13	sjr

Sample	Description	Source	Taken/Time	Received
39723	1308105-4	ESS Laboratory	8/6/13	8/9/13

Parameter	Results		MDL	Method	Analyzed/Time	Tech
Total Organic Carbon Lloyd Kah	49,080	mg/kg	500.00	Lloyd Kahn	08/13/13	sjr

Sample	Description	Source	Taken/Time	Received
39724	1308105-7	ESS Laboratory	8/6/13	8/9/13

Parameter	Results		MDL	Method	Analyzed/Time	Tech
Total Organic Carbon Lloyd Kah	30,540	mg/kg	500.00	Lloyd Kahn	08/13/13	sjr

Sample	Description	Source	Taken/Time	Received
39725	1308105-8	ESS Laboratory	8/6/13	8/9/13

Parameter	Results		MDL	Method	Analyzed/Time	Tech
Total Organic Carbon Lloyd Kah	21,570	mg/kg	500.00	Lloyd Kahn	08/13/13	sjr

Sample	Description	Source	Taken/Time	Received
39726	1308105-9	ESS Laboratory	8/6/13	8/9/13

Parameter	Results		MDL	Method	Analyzed/Time	Tech
Total Organic Carbon Lloyd Kah	15,520	mg/kg	500.00	Lloyd Kahn	08/13/13	sjr

Sample	Description	Source	Taken/Time	Received
39727	1308105-11	ESS Laboratory	8/6/13	8/9/13

Parameter	Results		MDL	Method	Analyzed/Time	Tech
Total Organic Carbon Lloyd Kah	10,930	mg/kg	500.00	Lloyd Kahn	08/14/13	sjr

Sample	Description	Source	Taken/Time	Received
39728	1308105-13	ESS Laboratory	8/6/13	8/9/13

Parameter	Results		MDL	Method	Analyzed/Time	Tech
Total Organic Carbon Lloyd Kah	45,660	mg/kg	500.00	Lloyd Kahn	08/14/13	sjr

Sample	Description	Source	Taken/Time	Received
39729	1308105-16	ESS Laboratory	8/6/13	8/9/13

Parameter	Results		MDL	Method	Analyzed/Time	Tech
Total Organic Carbon Lloyd Kah	33,740	mg/kg	500.00	Lloyd Kahn	08/14/13	sjr

Sample	Description	Source	Taken/Time	Received
39730	1308105-18	ESS Laboratory	8/6/13	8/9/13

Parameter	Results		MDL	Method	Analyzed/Time	Tech
Total Organic Carbon Lloyd Kah	49,350	mg/kg	500.00	Lloyd Kahn	08/14/13	sjr

Sample	Description	Source	Taken/Time	Received
39731	1308105-19	ESS Laboratory	8/6/13	8/9/13

Parameter	Results		MDL	Method	Analyzed/Time	Tech
Total Organic Carbon Lloyd Kah	52,790	mg/kg	500.00	Lloyd Kahn	08/14/13	sjr

Sample	Description	Source	Taken/Time	Received
39732	1308105-20	ESS Laboratory	8/6/13	8/9/13

Parameter	Results		MDL	Method	Analyzed/Time	Tech
Total Organic Carbon Lloyd Kah	19,360	mg/kg	500.00	Lloyd Kahn	08/14/13	sjr

Sterling Analytical, Inc.
P.O. Box 2010
West Springfield, MA 01090-2010
Phone (413) 787-9064 Fax (413) 787-905
email-madhu@sterlinganalytical.com

Sample Number 39721

QA/QC Results

8/14/2013

Parameter	Blank	LCS	CCV	Sample Results	Spiked With		Theoretical	Spiked Results	Percent Recovery
Total Organic Carbon Lloyd Kah	2	502	48137	0	50000	Spiked	50000.000	103794.00	207.59%
						Duplicate	50000.000	97072.00	194.14%

ICV--- Actual value 50,000 PPM, found 49,999 ---- date analyzed 8/13/13

ICV: Initial Control Verification CCV:Continuous Control Verification LCS: Fortified

Signature Madhu Shah

Madhu Shah

Sample and Cooler Receipt Checklist

Client: GZA GeoEnvironmental, Inc.
Client Project ID: _____
Shipped/Delivered Via: ESS Courier

ESS Project ID: 13080105
Date Project Due: 8/14/13
Days For Project: 5 Day

Items to be checked upon receipt:

1. Air Bill Manifest Present? *** No**
   Air No.:
2. Were Custody Seals Present? **No**
3. Were Custody Seals Intact? **N/A**
4. Is Radiation count < 100 CPM? **Yes**
5. Is a cooler present? **Yes**
   Cooler Temp: **4.1**
   Iced With: **Ice**
6. Was COC included with samples? **Yes**
7. Was COC signed and dated by client? **Yes**
8. Does the COC match the sample **Yes**
9. Is COC complete and correct? **Yes**
10. Are the samples properly preserved? **Yes**
11. Proper sample containers used? **Yes**
12. Any air bubbles in the VOA vials? **N/A**
13. Holding times exceeded? **No**
14. Sufficient sample volumes? **Yes**
15. Any Subcontracting needed? **No**
16. Are ESS labels on correct containers? **Yes | No**
17. Were samples received intact? **Yes | No**
18. ESS Sample IDs: 1308105-1, 2, 4, 7, 8, 9, 11, 13, 16, 18, 19, 20
    Sub Lab: ~~Sterling~~ TA
    Analysis: TOC
    TAT: 4 day

18. Was there need to call project manager to discuss status? If yes, please explain.

_____

_____

_____

Who was called?: _____ By whom? _____

Sample Number	Properly Preserved	Container Type	# of Containers	Preservative
1	Yes	2 oz Soil Jar	1	NP
1	Yes	4 oz Soil Jar	1	NP
1	Yes	8 oz Soil Jar	1	NP
2	Yes	2 oz Soil Jar	1	NP
2	Yes	4 oz Soil Jar	1	NP
2	Yes	8 oz Soil Jar	1	NP
3	Yes	4 oz Soil Jar	1	NP
3	Yes	8 oz Soil Jar	1	NP
4	Yes	2 oz Soil Jar	1	NP
4	Yes	4 oz Soil Jar	1	NP
4	Yes	8 oz Soil Jar	1	NP
5	Yes	4 oz Soil Jar	1	NP
5	Yes	8 oz Soil Jar	1	NP
6	Yes	4 oz Soil Jar	1	NP
6	Yes	8 oz Soil Jar	1	NP
7	Yes	2 oz Soil Jar	1	NP
7	Yes	4 oz Soil Jar	1	NP
7	Yes	8 oz Soil Jar	1	NP
8	Yes	2 oz Soil Jar	1	NP
8	Yes	4 oz Soil Jar	1	NP
8	Yes	8 oz Soil Jar	1	NP
9	Yes	2 oz Soil Jar	1	NP
9	Yes	4 oz Soil Jar	1	NP
9	Yes	8 oz Soil Jar	1	NP
10	Yes	4 oz Soil Jar	1	NP

Sample and Cooler Receipt Checklist

Client: GZA GeoEnvironmental, Inc. ESS Project ID: 13080105

10	Yes	8 oz Soil Jar	1	NP
11	Yes	2 oz Soil Jar	1	NP
11	Yes	4 oz Soil Jar	1	NP
11	Yes	8 oz Soil Jar	1	NP
12	Yes	4 oz Soil Jar	1	NP
12	Yes	8 oz Soil Jar	1	NP
13	Yes	2 oz Soil Jar	1	NP
13	Yes	4 oz Soil Jar	1	NP
13	Yes	8 oz Soil Jar	1	NP
14	Yes	4 oz Soil Jar	1	NP
14	Yes	8 oz Soil Jar	1	NP
15	Yes	4 oz Soil Jar	1	NP
15	Yes	8 oz Soil Jar	1	NP
16	Yes	2 oz Soil Jar	1	NP
16	Yes	4 oz Soil Jar	1	NP
16	Yes	8 oz Soil Jar	1	NP
17	Yes	4 oz Soil Jar	1	NP
17	Yes	8 oz Soil Jar	1	NP
18	Yes	2 oz Soil Jar	1	NP
18	Yes	4 oz Soil Jar	1	NP
18	Yes	8 oz Soil Jar	1	NP
19	Yes	2 oz Soil Jar	1	NP
19	Yes	4 oz Soil Jar	1	NP
19	Yes	8 oz Soil Jar	1	NP
20	Yes	2 oz Soil Jar	1	NP
20	Yes	4 oz Soil Jar	1	NP
20	Yes	8 oz Soil Jar	1	NP

Completed By: _____ Date/Time: 8/7/13 1510

Reviewed By: _____ Date/Time: 8/7/13 1609

ESS Laboratory

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

Turn Time ___ Standard Other 1 week
If faster than 5 days, prior approval by laboratory is required # _____

State where samples were collected from:
MA RI CT NH NJ NY ME Other _____

Is this project for any of the following:
MA-MCP Navy USACE Other _____

Reporting Limits

ESS LAB PROJECT ID

Electronic Deliverable Yes ✓ No ___
Format: Excel __ Access __ PDF ✓ Other _____

Co. Name	Project #	Project Name (20 Char. or less)
ESS	1508.105	
Contact Person: Charlie Fuller	Address	
City	State	Zip
PO# 1508.105		
Telephone #	Fax #	Email Address

ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	VOC (Full List)	Write Required Analysis
	5/11/13	1355		✓	SO	1508.105-19				1	
	5/6/13	0945				1508.105-20				4	

Container Type: P-Poly G-Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present ___ Yes ___ No Internal Use Only

Seals Intact ___ Yes ___ No NA: ___ [ ] Pickup

Cooler Temp: _____ [ ] Technicians _____

Preservation Code 1- NP, 2- HCl, 3- H_2SO_4, 4- HNO_3, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9- _____

Sampled by:

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	5/13 09						
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt

10/26/04 A

ESS Laboratory

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
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www.esslaboratory.com

CHAIN OF CUSTODY

Page_____ of_____

Turn Time ___ Standard Other 4 Day
If faster than 5 days, prior approval by laboratory is required # ____

State where samples were collected from:
MA RI CT NH NJ NY ME Other _____

Is this project for any of the following:
MA-MCP Navy USACE Other _____

Reporting Limits

ESS LAB PROJECT ID

Electronic Deliverable Yes ✓ No ___
Format: Excel __ Access __ PDF ✓ Other _____

Co. Name	Project #	Project Name (20 Char. or less)
ESS	130810S	
Contact Person	**Address**	
Christine Taylor		
City	**State**	**Zip**
Telephone #	**Fax #**	**Email Address**
		ctaylor@thielsch

PO# 130810S

ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	Write Required Analysis
	8/6/13	0955		✓	WW	130810S-1	1	1	V	X
	8/1/13	1251				130810S-2	1	1	1	1
	8/6/13	1009				130810S-4	1	1	1	1
	8/6/13	1035				130810S-7	1	1	1	1
	8/12/13	1128				-8	1	1	1	1
	8/12/13	1128				-9	1	1		1
	8/12/13	✓ 28				-11	1	1		1
	8/6/13	1055				13	1	1		1
	8/5/13	1135				-16	1	1		1
	8/1/13	1039				-18	V	1	V	V

Container Type: P-Poly G-Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present ___ Yes ___ No Internal Use Only

Seals Intact ___ Yes ___ No NA: ___ [ ] Pickup

Cooler Temp: _____ [ ] Technicians ____

Preservation Code 1- NP, 2- HCl, 3- H_2SO_4, 4- HNO_3, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9- _____

Sampled by:

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	8/13 15:00						
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt

10/26/04 A

ESS Laboratory
Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

ESS LAB PROJECT ID: 130810

Turn Time ___x___ Standard Rush _____ Approved By: _____

Reporting Limits - see prev. email correspondence

State where samples were collected: MA RI CT NH NJ NY ME Other_____

Is this project for any of the following: (please circle)
MA-MCP CT-RCP RGP DOD Other_____

Electonic Deliverable Yes__x__ No____
Format: Excel_x__ Access___ PDF___ Other_____

GZA Project Manager: David E. Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Avenue
Norwood, MA 02062
(781) 278-3700
PRESUMPTIVE CERTAINTY REQUIRED

Project # 171521.02

Project Name: Former Everett Staging Yard

Contract Pricing _____
Special Pricing WO#: _____

ESS Lab Sample ID	Date	Collection Time	Grab -G Composite-C	Matrix	Sample Identification	Analysis: # of Containers	MCP 14 metals	B/N Phthalates Esters 8270	PAH 8270 SIM	EPH Fractions	PCBs	TOC by Lloyd Kahn						Comment #
1	8/6/13	9:55	G	Sed	GZ-114 T 0-0.5'	2	X	X	X	X	X	X						
2	8/1/13	12:51	G	Sed	GZ-114 2-5'	2	X	X	X	X	X	X						
3	8/1/13	12:51	G	Sed	GZ-114 5-7'	2	X											
4	8/6/13	10:09	G	Sed	GZ-115 T 0-0.5'	2	X					X						
5	8/1/13	13:05	G	Sed	GZ-115 2-5'	2	X											
6	8/1/13	13:05	G	Sed	GZ-115 5-7'	2	X											
7	8/6/13	10:55	G	Sed	GZ-116 T 0-0.5'	2	X	X	X	X	X	X						
8	8/2/13	8:28	G	Sed	GZ-116 0.5-2'	2	X	X	X	X	X	X						
9	8/2/13	8:28	G	Sed	GZ-116 2-4'	2	X	X	X	X	X	X						
10	8/2/13	8:28	G	Sed	GZ-116 4-6'	2	X											
							AG	AG	AG	AG	AG	AG						

Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-_____

Container Type: P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filter

Cooler Present ✓ Yes _____ No
Seals Intact ✓ Yes _____ No NA: BB
Cooler Temperature: 4-13-6-4-8263

Sampled by : Dan Scanlon

Comments: Contract Price - 10%

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Walgin	8/6/13	Bill Bussan 8/7/13 1030	Bill Bussan 8/7/13	1120	8/7/13 11:30

Please E-mail all changes to Chain of Custody in writing.

ESS Laboratory
Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

ESS LAB PROJECT ID: 130810T

Turn Time ___x___ Standard Rush_____ Approved By: _____

State where samples were collected: MA RI CT NH NJ NY ME Other_____

Reporting Limits - see prev. email correspondence

Is this project for any of the following: (please circle)
MA-MCP CT-RCP RGP DOD Other_____

Electonic Deliverable Yes__x__ No____
Format: Excel_x__ Access___ PDF___ Other_____

GZA Project Manager: David E. Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Avenue
Norwood, MA 02062
(781) 278-3700
PRESUMPTIVE CERTAINTY REQUIRED

Project # 171521.02
Project Name: Former Everett Staging Yard
Contract Pricing _____
Special Pricing WO#: _____

ESS Lab Sample ID	Date	Collection Time	Grab -G Composite-C	Matrix	Sample Identification	# of Containers	MCP 14 metals	B/N Phthalates Esters 8270	PAH 8270 SIM	EPH Fractions	PCBs	TOC by Lloyd Kahn					Comment #
						Analysis											
11	8/2/13	8:28	G	Sed	GZ-116 6-8'	2	X	X	X	X	X	X					
12	8/2/13	8:28	G	Sed	GZ-116 8-9'	2	X										
13	8/6/13	8:55	G	Sed	GZ-117 T 0-0.5'	2	X					X					
14	8/1/13	13:19	G	Sed	GZ-117 2-4'	2	X										
15	8/1/13	13:19	G	Sed	GZ-117 4-6'	2	X										
16	8/5/13	11:35	G	Sed	GZ-118A 0-0.5'	2	X					X					
17	8/5/13	11:35	G	Sed	GZ-118A 0.5-1'	2	X										
18	8/1/13	10:39	G	Sed	GZ-119 T 0-0.5'	2	X	X	X	X	X	X					
19	8/1/13	13:33	G	Sed	GZ-119 2-4'	2	X	X	X	X	X	X					
20	8/6/13	9:49	G	Sed	GZ-120 T 0-0.5'	2	X					X					
Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-_____																	
Container Type: P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA							AG	AG	AG	AG	AG	AG					
Matrix: S-Soil SD-Solid D-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filter																	

Cooler Present ✓ Yes _____ No
Loose Dio
Seals Intact ✓ Yes _____ No NA: RP
5 coolers
Cooler Temperature: 4.1 3.6 4.8 2.6 3.2

Sampled by : Dan Scanlon
Comments: Contract Price - 10%

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	8/6/13 20:00	Bill Bergeron 8/7/13 1130	Bill Bergeron 8/7/13	1130	8/7/13 11:30
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)

Please E-mail all changes to Chain of Custody in writing.

CERTIFICATE OF ANALYSIS

David E Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Avenue
Norwood, MA 02062

RE: Everett (01.0171521.02)
ESS Laboratory Work Order Number: 1308106

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard
Laboratory Director

REVIEWED
By ESS Laboratory at 4:36 pm, Aug 19, 2013

Analytical Summary
The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with NELAC Standards, A2LA and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibratins, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.

Subcontracted Analyses

Sterling Analytical Lab - West Springfield, MA	Total Organic Carbon

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308106

SAMPLE RECEIPT

The following samples were received on August 07, 2013 for the analyses specified on the enclosed Chain of Custody Record.

To achieve CAM compliance for MCP data, ESS Laboratory has performed and reviewed all QA/QC Requirements and Performance Standards listed in each method. Holding times and preservation have also been reviewed. All CAM requirements have been achieved unless noted in the project narrative.

Each method has been set-up in the laboratory to reach required MCP standards. The methods for aqueous VOA and Soil Methanol VOA have known limitations for certain analytes. The regulatory standards may not be achieved due to these limitations. In addition, for all methods, matrix interferences, dilutions, and %Solids may elevate method reporting limits above regulatory standards. ESS Laboratory can provide, upon request, a Data Checker (regulatory standard comparison spreadsheet) electronic deliverable which will highlight these exceedances.

For EPH soil samples, the aromatic range results have been corrected for identified cartridge contaminant in accordance with the CAM protocol.

Question I: All samples for SVOA were analyzed for a subset of the required MCP list per the client's request.

Lab Number	SampleName	Matrix	Analysis
1308106-01	GZ-120 2-4ft	Solid	6010B, 6020A, 7471B
1308106-02	GZ-121T 0-0.5ft	Solid	6010B, 6020A, 7471B, TOC-LK
1308106-03	GZ-121 2-4ft	Solid	6010B, 6020A, 7471B
1308106-04	GZ-121 4-6ft	Solid	6010B, 6020A, 7471B
1308106-05	GZ-122T 0-0.5ft	Solid	6010B, 6020A, 7471B, 8082A, 8270D, EPH8270, MADEP-EPH, TOC-LK
1308106-06	GZ-122 0.5-2ft	Solid	6010B, 6020A, 7471B, 8082A, 8270D, EPH8270, MADEP-EPH, TOC-LK
1308106-07	GZ-122 2-4ft	Solid	6010B, 6020A, 7471B, 8082A, 8270D, EPH8270, MADEP-EPH, TOC-LK
1308106-08	GZ-123 0-0.5ft	Solid	6010B, 6020A, 7471B, TOC-LK
1308106-09	GZ-123 2-4ft	Solid	6010B, 6020A, 7471B
1308106-10	GZ-123 4-6ft	Solid	6010B, 6020A, 7471B
1308106-11	GZ-124 0-0.5ft	Solid	6010B, 6020A, 7471B, TOC-LK
1308106-12	GZ-124 2-4ft	Solid	6010B, 6020A, 7471B
1308106-13	GZ-125A 0-0.5ft	Solid	6010B, 6020A, 7471B, TOC-LK
1308106-14	GZ-125A 2-4ft	Solid	6010B, 6020A, 7471B
1308106-15	GZ-125A 4-6ft	Solid	6010B, 6020A, 7471B
1308106-16	GZ-125A 8-9ft	Solid	6010B, 6020A, 7471B
1308106-17	GZ-126T 0-0.5ft	Solid	6010B, 6020A, 7471B, 8082A, 8270D, EPH8270, MADEP-EPH, TOC-LK

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
ESS Laboratory Work Order: 1308106

1308106-18	GZ-126 0.5-2ft	Solid	6010B, 6020A, 7471B, 8082A, 8270D, EPH8270, MADEP-EPH, TOC-LK
1308106-19	GZ-126 2-4ft	Solid	6010B, 6020A, 7471B, 8082A, 8270D, EPH8270, MADEP-EPH, TOC-LK
1308106-20	GZ-127 0-0.5ft	Solid	6010B, 6020A, 7471B, TOC-LK

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308106

PROJECT NARRATIVE

8270D Semi-Volatile Organic Compounds

CWH0106-CCV1 **Calibration required quadratic regression (Q).**
2,4-Dinitrophenol (110% @ 80-120%), 4,6-Dinitro-2-Methylphenol (114% @ 70-130%), Benzoic Acid (103% @ 70-130%), Pentachlorophenol (103% @ 80-120%)

CWH0106-CCV1 **Initial Calibration Verification recovery is outside of control limit (ICV).**
Benzidine , Hexachlorocyclopentadiene

CWH0121-CCV1 **Calibration required quadratic regression (Q).**
2,4-Dinitrophenol (112% @ 80-120%), Benzoic Acid (117% @ 70-130%)

CWH0121-CCV1 **Continuing Calibration recovery is above upper control limit (C+).**
4-Chloroaniline (128% @ 80-120%)

CWH0121-CCV1 **Initial Calibration Verification recovery is outside of control limit (ICV).**
1,1-Biphenyl , 2,4-Dinitrophenol

CWH0121-TUN1 **Benzidine tailing factor >2.**

MADEP-EPH Extractable Petroleum Hydrocarbons

CWH0135-CCV4 **Continuing Calibration recovery is above upper control limit (C+).**
Benzo(a)pyrene (121% @ 80-120%)

CWH0145-CCV2 **Continuing Calibration recovery is below lower control limit (C-).**
Benzo(g,h,i)perylene (54% @ 80-120%), Dibenzo(a,h)Anthracene (77% @ 80-120%), Indeno(1,2,3-cd)Pyrene (69% @ 80-120%)

No other observations noted.

End of Project Narrative.

DATA USABILITY LINKS

Definitions of Quality Control Parameters

Semivolatile Organics Internal Standard Information

Semivolatile Organics Surrogate Information

Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308106

CURRENT SW-846 METHODOLOGY VERSIONS

Analytical Methods

1010A - Flashpoint
6010C - ICP
6020A - ICP MS
7010 - Graphite Furnace
7196A - Hexavalent Chromium
7470A - Aqueous Mercury
7471B - Solid Mercury
8011 - EDB/DBCP/TCP
8015C - GRO/DRO
8081B - Pesticides
8082A - PCB
8100M - TPH
8151A - Herbicides
8260B - VOA
8270D - SVOA
8270D SIM - SVOA Low Level
9014 - Cyanide
9038 - Sulfate
9040C - Aqueous pH
9045D - Solid pH (Corrosivity)
9050A - Specific Conductance
9056A - Anions (IC)
9060A - TOC
9095B - Paint Filter
MADEP 04-1.1 - EPH / VPH

Prep Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5035 - Solid Purge and Trap

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308106

MassDEP Analytical Protocol Certification Form

MADEP RTN: _____

This form provides certification for the following data set: **1308106-01 through 1308106-20**

Matrices: ( ) Ground Water/Surface Water (X) Soil/Sediment ( ) Drinking Water ( ) Air ( ) Other:_____

CAM Protocol (check all that apply below):

( ) 8260 VOC CAM II A	(X) 7470/7471 Hg CAM III B	( ) MassDEP VPH CAM IV A	( ) 8081 Pesticides CAM V B	( ) 7196 Hex Cr CAM VI B	( ) MassDEP APH CAM IX A
(X) 8270 SVOC CAM II B	( ) 7010 Metals CAM III C	(X) MassDEP EPH CAM IV B	( ) 8151 Herbicides CAM V C	( ) 8330 Explosives CAM VIII A	( ) TO-15 VOC CAM IX B
(X) 6010 Metals CAM III A	(X) 6020 Metals CAM III D	(X) 8082 PCB CAM V A	( ) 6860 Perchlorate CAM VIII B	( ) 9014 Total Cyanide/PAC CAM VI A	

Affirmative responses to questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	Yes (X) No ( )
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	Yes (X) No ( )
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	Yes (X) No ( )
D	Does the laboratory report comply with all the reporting requirements specified in the CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	Yes (X) No ( )
E	a. VPH, EPH, APH and TO-15 only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	Yes (X) No ( )
	b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	Yes ( ) No ( )
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	Yes (X) No ( )

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocols(s)?	Yes (X) No ( )*
	***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**	
H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	Yes ( ) No (X)*
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	Yes ( ) No (X)*

All negative responses must be addressed in an attached laboratory narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: _____ Date: August 19, 2013

Printed Name: Laurel Stoddard Position: Laboratory Director

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-120 2-4ft
Date Sampled: 08/02/13 11:06
Percent Solids: 69

ESS Laboratory Work Order: 1308106
ESS Laboratory Sample ID: 1308106-01
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (1.4)		6020A		50	JP	08/09/13 21:51	5.27	100	CH30802
Arsenic	**357** (1.4)		6010B		1	SVD	08/08/13 23:20	5.27	100	CH30802
Barium	**11.8** (1.4)		6010B		1	SVD	08/08/13 23:20	5.27	100	CH30802
Beryllium	**0.26** (0.06)		6010B		1	SVD	08/08/13 23:20	5.27	100	CH30802
Cadmium	**0.73** (0.28)		6010B		1	SVD	08/08/13 23:20	5.27	100	CH30802
Chromium	**13.9** (0.5)		6010B		1	SVD	08/08/13 23:20	5.27	100	CH30802
Lead	**9.5** (2.7)		6010B		1	SVD	08/08/13 23:20	5.27	100	CH30802
Mercury	ND (0.019)		7471B		1	KJK	08/09/13 18:50	1.5	40	CH30804
Nickel	**9.5** (1.4)		6010B		1	SVD	08/08/13 23:20	5.27	100	CH30802
Selenium	ND (1.38)		6020A		50	JP	08/09/13 21:51	5.27	100	CH30802
Silver	ND (0.28)		6010B		1	SVD	08/08/13 23:20	5.27	100	CH30802
Thallium	ND (1.38)		6020A		50	JP	08/09/13 21:51	5.27	100	CH30802
Vanadium	**18.0** (0.5)		6010B		1	SVD	08/08/13 23:20	5.27	100	CH30802
Zinc	**281** (1.4)		6010B		1	SVD	08/08/13 23:20	5.27	100	CH30802

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-121T 0-0.5ft
Date Sampled: 08/06/13 08:46
Percent Solids: 29

ESS Laboratory Work Order: 1308106
ESS Laboratory Sample ID: 1308106-02
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (3.4)		6020A		50	JP	08/09/13 21:57	5.18	100	CH30802
Arsenic	**27.3** (3.3)		6010B		1	SVD	08/08/13 23:25	5.18	100	CH30802
Barium	**71.4** (3.3)		6010B		1	SVD	08/08/13 23:25	5.18	100	CH30802
Beryllium	**0.78** (0.14)		6010B		1	SVD	08/08/13 23:25	5.18	100	CH30802
Cadmium	**2.37** (0.67)		6010B		1	SVD	08/08/13 23:25	5.18	100	CH30802
Chromium	**93.2** (1.3)		6010B		1	SVD	08/08/13 23:25	5.18	100	CH30802
Lead	**240** (6.7)		6010B		1	SVD	08/08/13 23:25	5.18	100	CH30802
Mercury	**1.01** (0.209)		7471B		5	KJK	08/09/13 16:43	1.64	40	CH30804
Nickel	**26.1** (3.3)		6010B		1	SVD	08/08/13 23:25	5.18	100	CH30802
Selenium	ND (3.36)		6020A		50	JP	08/09/13 21:57	5.18	100	CH30802
Silver	**2.33** (0.67)		6010B		1	SVD	08/08/13 23:25	5.18	100	CH30802
Thallium	ND (3.36)		6020A		50	JP	08/09/13 21:57	5.18	100	CH30802
Vanadium	**79.4** (1.3)		6010B		1	SVD	08/08/13 23:25	5.18	100	CH30802
Zinc	**408** (3.3)		6010B		1	SVD	08/08/13 23:25	5.18	100	CH30802

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-121T 0-0.5ft
Date Sampled: 08/06/13 08:46
Percent Solids: 29

ESS Laboratory Work Order: 1308106
ESS Laboratory Sample ID: 1308106-02
Sample Matrix: Solid

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**51100** (500)		TOC-LK		1	SUB	08/14/13 0:00	mg/kg	CH31340

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-121 2-4ft
Date Sampled: 08/01/13 14:14
Percent Solids: 20

ESS Laboratory Work Order: 1308106
ESS Laboratory Sample ID: 1308106-03
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (4.9)		6020A		50	JP	08/09/13 22:03	5.04	100	CH30802
Arsenic	**49.1** (4.9)		6010B		1	SVD	08/08/13 23:31	5.04	100	CH30802
Barium	**82.8** (4.9)		6010B		1	SVD	08/08/13 23:31	5.04	100	CH30802
Beryllium	**0.79** (0.20)		6010B		1	SVD	08/08/13 23:31	5.04	100	CH30802
Cadmium	**3.12** (0.98)		6010B		1	SVD	08/08/13 23:31	5.04	100	CH30802
Chromium	**173** (1.9)		6010B		1	SVD	08/08/13 23:31	5.04	100	CH30802
Lead	**288** (9.7)		6010B		1	SVD	08/08/13 23:31	5.04	100	CH30802
Mercury	**1.62** (0.328)		7471B		5	KJK	08/09/13 16:45	1.48	40	CH30804
Nickel	**22.9** (4.9)		6010B		1	SVD	08/08/13 23:31	5.04	100	CH30802
Selenium	ND (4.89)		6020A		50	JP	08/09/13 22:03	5.04	100	CH30802
Silver	**2.73** (0.98)		6010B		1	SVD	08/08/13 23:31	5.04	100	CH30802
Thallium	ND (4.89)		6020A		50	JP	08/09/13 22:03	5.04	100	CH30802
Vanadium	**194** (1.9)		6010B		1	SVD	08/08/13 23:31	5.04	100	CH30802
Zinc	**344** (4.9)		6010B		1	SVD	08/08/13 23:31	5.04	100	CH30802

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-121 4-6ft
Date Sampled: 08/01/13 14:14
Percent Solids: 33

ESS Laboratory Work Order: 1308106
ESS Laboratory Sample ID: 1308106-04
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (2.9)		6020A		50	JP	08/09/13 22:09	5.27	100	CH30802
Arsenic	**31.3** (2.9)		6010B		1	SVD	08/08/13 23:37	5.27	100	CH30802
Barium	**62.3** (2.9)		6010B		1	SVD	08/08/13 23:37	5.27	100	CH30802
Beryllium	**0.61** (0.12)		6010B		1	SVD	08/08/13 23:37	5.27	100	CH30802
Cadmium	**2.12** (0.58)		6010B		1	SVD	08/08/13 23:37	5.27	100	CH30802
Chromium	**91.4** (1.2)		6010B		1	SVD	08/08/13 23:37	5.27	100	CH30802
Lead	**165** (5.8)		6010B		1	SVD	08/08/13 23:37	5.27	100	CH30802
Mercury	**0.990** (0.216)		7471B		5	KJK	08/09/13 16:48	1.4	40	CH30804
Nickel	**15.8** (2.9)		6010B		1	SVD	08/08/13 23:37	5.27	100	CH30802
Selenium	ND (2.91)		6020A		50	JP	08/09/13 22:09	5.27	100	CH30802
Silver	**1.36** (0.58)		6010B		1	SVD	08/08/13 23:37	5.27	100	CH30802
Thallium	ND (2.91)		6020A		50	JP	08/09/13 22:09	5.27	100	CH30802
Vanadium	**106** (1.2)		6010B		1	SVD	08/08/13 23:37	5.27	100	CH30802
Zinc	**211** (2.9)		6010B		1	SVD	08/08/13 23:37	5.27	100	CH30802

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-122T 0-0.5ft
Date Sampled: 08/06/13 09:35
Percent Solids: 72

ESS Laboratory Work Order: 1308106
ESS Laboratory Sample ID: 1308106-05
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (1.2)		6020A		50	JP	08/09/13 22:15	5.96	100	CH30802
Arsenic	**14.2** (1.2)		6010B		1	SVD	08/08/13 23:42	5.96	100	CH30802
Barium	**23.9** (1.2)		6010B		1	SVD	08/08/13 23:42	5.96	100	CH30802
Beryllium	**0.19** (0.05)		6010B		1	SVD	08/08/13 23:42	5.96	100	CH30802
Cadmium	**0.42** (0.24)		6010B		1	SVD	08/08/13 23:42	5.96	100	CH30802
Chromium	**14.5** (0.5)		6010B		1	SVD	08/08/13 23:42	5.96	100	CH30802
Lead	**126** (2.3)		6010B		1	SVD	08/08/13 23:42	5.96	100	CH30802
Mercury	**0.229** (0.084)		7471B		5	KJK	08/09/13 16:51	1.64	40	CH30804
Nickel	**5.9** (1.2)		6010B		1	SVD	08/08/13 23:42	5.96	100	CH30802
Selenium	ND (1.18)		6020A		50	JP	08/09/13 22:15	5.96	100	CH30802
Silver	**0.65** (0.24)		6010B		1	SVD	08/08/13 23:42	5.96	100	CH30802
Thallium	ND (1.18)		6020A		50	JP	08/09/13 22:15	5.96	100	CH30802
Vanadium	**19.8** (0.5)		6010B		1	SVD	08/08/13 23:42	5.96	100	CH30802
Zinc	**88.7** (1.2)		6010B		1	SVD	08/08/13 23:42	5.96	100	CH30802

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-122T 0-0.5ft
Date Sampled: 08/06/13 09:35
Percent Solids: 72
Initial Volume: 19.3
Final Volume: 5
Extraction Method: 3540

ESS Laboratory Work Order: 1308106
ESS Laboratory Sample ID: 1308106-05
Sample Matrix: Solid
Units: mg/kg dry
Analyst: TJ
Prepared: 8/8/13 17:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0362)		8082A		1	08/11/13 6:06		CH30812
Aroclor 1221	ND (0.0362)		8082A		1	08/11/13 6:06		CH30812
Aroclor 1232	ND (0.0362)		8082A		1	08/11/13 6:06		CH30812
Aroclor 1242	ND (0.0362)		8082A		1	08/11/13 6:06		CH30812
Aroclor 1248	ND (0.0362)		8082A		1	08/11/13 6:06		CH30812
Aroclor 1254	**0.0928** (0.0362)		8082A		1	08/11/13 6:06		CH30812
Aroclor 1260	**0.0596** (0.0362)		8082A		1	08/11/13 6:06		CH30812
Aroclor 1262	ND (0.0362)		8082A		1	08/11/13 6:06		CH30812
Aroclor 1268	ND (0.0362)		8082A		1	08/11/13 6:06		CH30812

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*108 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*86 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*91 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*83 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-122T 0-0.5ft
Date Sampled: 08/06/13 09:35
Percent Solids: 72
Initial Volume: 30.5
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308106
ESS Laboratory Sample ID: 1308106-05
Sample Matrix: Solid
Units: mg/kg dry
Analyst: IBM
Prepared: 8/8/13 16:48

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.229)		8270D		1	08/09/13 13:28	CWH0121	CH30815
1,2-Dichlorobenzene	ND (0.229)		8270D		1	08/09/13 13:28	CWH0121	CH30815
1,3-Dichlorobenzene	ND (0.229)		8270D		1	08/09/13 13:28	CWH0121	CH30815
1,4-Dichlorobenzene	ND (0.229)		8270D		1	08/09/13 13:28	CWH0121	CH30815
2-Methylnaphthalene	ND (0.229)		8270D		1	08/09/13 13:28	CWH0121	CH30815
2-Methylphenol	ND (0.229)		8270D		1	08/09/13 13:28	CWH0121	CH30815
Acenaphthene	ND (0.229)		8270D		1	08/09/13 13:28	CWH0121	CH30815
Acenaphthylene	ND (0.229)		8270D		1	08/09/13 13:28	CWH0121	CH30815
Anthracene	ND (0.229)		8270D		1	08/09/13 13:28	CWH0121	CH30815
Benzo(a)anthracene	ND (0.229)		8270D		1	08/09/13 13:28	CWH0121	CH30815
Benzo(a)pyrene	ND (0.115)		8270D		1	08/09/13 13:28	CWH0121	CH30815
Benzo(b)fluoranthene	ND (0.229)		8270D		1	08/09/13 13:28	CWH0121	CH30815
Benzo(g,h,i)perylene	ND (0.229)		8270D		1	08/09/13 13:28	CWH0121	CH30815
Benzo(k)fluoranthene	ND (0.229)		8270D		1	08/09/13 13:28	CWH0121	CH30815
bis(2-Ethylhexyl)phthalate	ND (0.229)		8270D		1	08/09/13 13:28	CWH0121	CH30815
Butylbenzylphthalate	ND (0.229)		8270D		1	08/09/13 13:28	CWH0121	CH30815
Carbazole	ND (0.229)		8270D		1	08/09/13 13:28	CWH0121	CH30815
Chrysene	ND (0.115)		8270D		1	08/09/13 13:28	CWH0121	CH30815
Dibenzo(a,h)Anthracene	ND (0.115)		8270D		1	08/09/13 13:28	CWH0121	CH30815
Dibenzofuran	ND (0.229)		8270D		1	08/09/13 13:28	CWH0121	CH30815
Diethylphthalate	ND (0.229)		8270D		1	08/09/13 13:28	CWH0121	CH30815
Dimethylphthalate	ND (0.229)		8270D		1	08/09/13 13:28	CWH0121	CH30815
Di-n-butylphthalate	ND (0.229)		8270D		1	08/09/13 13:28	CWH0121	CH30815
Di-n-octylphthalate	ND (0.229)		8270D		1	08/09/13 13:28	CWH0121	CH30815
Fluoranthene	ND (0.229)		8270D		1	08/09/13 13:28	CWH0121	CH30815
Fluorene	ND (0.229)		8270D		1	08/09/13 13:28	CWH0121	CH30815
Hexachlorobenzene	ND (0.229)		8270D		1	08/09/13 13:28	CWH0121	CH30815
Hexachlorocyclopentadiene	ND (1.15)		8270D		1	08/09/13 13:28	CWH0121	CH30815
Indeno(1,2,3-cd)Pyrene	ND (0.229)		8270D		1	08/09/13 13:28	CWH0121	CH30815
Naphthalene	ND (0.229)		8270D		1	08/09/13 13:28	CWH0121	CH30815
Phenanthrene	ND (0.229)		8270D		1	08/09/13 13:28	CWH0121	CH30815

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-122T 0-0.5ft
Date Sampled: 08/06/13 09:35
Percent Solids: 72
Initial Volume: 30.5
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308106
ESS Laboratory Sample ID: 1308106-05
Sample Matrix: Solid
Units: mg/kg dry
Analyst: IBM
Prepared: 8/8/13 16:48

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Phenol	ND (0.229)		8270D		1	08/09/13 13:28	CWH0121	CH30815
Pyrene	ND (0.229)		8270D		1	08/09/13 13:28	CWH0121	CH30815

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*75 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*85 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*78 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*82 %*		*30-130*
Surrogate: 2-Fluorophenol	*68 %*		*30-130*
Surrogate: Nitrobenzene-d5	*81 %*		*30-130*
Surrogate: Phenol-d6	*80 %*		*30-130*
Surrogate: p-Terphenyl-d14	*87 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-122T 0-0.5ft
Date Sampled: 08/06/13 09:35
Percent Solids: 72
Initial Volume: 14.9
Final Volume: 0.5
Extraction Method: 3541

ESS Laboratory Work Order: 1308106
ESS Laboratory Sample ID: 1308106-05
Sample Matrix: Solid
Units: mg/kg dry
Analyst: IBM
Prepared: 8/8/13 17:30

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	ND (0.059)		8270D		5	08/11/13 17:58	CWH0139	CH30811
Acenaphthene	ND (0.059)		8270D		5	08/11/13 17:58	CWH0139	CH30811
Acenaphthylene	**0.070** (0.059)		8270D		5	08/11/13 17:58	CWH0139	CH30811
Anthracene	**0.176** (0.059)		8270D		5	08/11/13 17:58	CWH0139	CH30811
Benzo(a)anthracene	**0.418** (0.059)		8270D		5	08/11/13 17:58	CWH0139	CH30811
Benzo(a)pyrene	**0.415** (0.059)		8270D		5	08/11/13 17:58	CWH0139	CH30811
Benzo(b)fluoranthene	**0.518** (0.059)		8270D		5	08/11/13 17:58	CWH0139	CH30811
Benzo(g,h,i)perylene	**0.279** (0.059)		8270D		5	08/11/13 17:58	CWH0139	CH30811
Benzo(k)fluoranthene	**0.185** (0.059)		8270D		5	08/11/13 17:58	CWH0139	CH30811
Chrysene	**0.422** (0.059)		8270D		5	08/11/13 17:58	CWH0139	CH30811
Dibenzo(a,h)Anthracene	**0.080** (0.059)		8270D		5	08/11/13 17:58	CWH0139	CH30811
Fluoranthene	**0.631** (0.059)		8270D		5	08/11/13 17:58	CWH0139	CH30811
Fluorene	ND (0.059)		8270D		5	08/11/13 17:58	CWH0139	CH30811
Indeno(1,2,3-cd)Pyrene	**0.317** (0.059)		8270D		5	08/11/13 17:58	CWH0139	CH30811
Naphthalene	**0.073** (0.059)		8270D		5	08/11/13 17:58	CWH0139	CH30811
Phenanthrene	**0.296** (0.059)		8270D		5	08/11/13 17:58	CWH0139	CH30811
Pyrene	**0.617** (0.059)		8270D		5	08/11/13 17:58	CWH0139	CH30811

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*46 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*55 %*		*30-130*
Surrogate: Nitrobenzene-d5	*51 %*		*30-130*
Surrogate: p-Terphenyl-d14	*82 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-122T 0-0.5ft
Date Sampled: 08/06/13 09:35
Percent Solids: 72

ESS Laboratory Work Order: 1308106
ESS Laboratory Sample ID: 1308106-05
Sample Matrix: Solid

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**9900** (500)		TOC-LK		1	SUB	08/14/13 0:00	mg/kg	CH31340

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-122T 0-0.5ft
Date Sampled: 08/06/13 09:35
Percent Solids: 72
Initial Volume: 15.1
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1308106
ESS Laboratory Sample ID: 1308106-05
Sample Matrix: Solid
Units: mg/kg dry

Prepared: 8/8/13 11:00

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (34.7)		MADEP-EPH		1	SEP	08/10/13 16:31	CWH0134	CH30813
C19-C36 Aliphatics1	ND (34.7)		MADEP-EPH		1	SEP	08/10/13 16:31	CWH0134	CH30813
C11-C22 Unadjusted Aromatics1	ND (34.7)		EPH8270		1	SEP	08/11/13 8:54	CWH0135	CH30813
C11-C22 Aromatics1,2	ND (34.7)		EPH8270			SEP	08/11/13 8:54		[CALC]

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1-Chlorooctadecane	*63 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*109 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*105 %*		*40-140*
Surrogate: O-Terphenyl	*75 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-122 0.5-2ft
Date Sampled: 08/02/13 11:24
Percent Solids: 65

ESS Laboratory Work Order: 1308106
ESS Laboratory Sample ID: 1308106-06
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	**2.6** (1.4)		6020A		50	JP	08/09/13 22:21	5.65	100	CH30802
Arsenic	**51.5** (1.4)		6010B		1	SVD	08/08/13 23:48	5.65	100	CH30802
Barium	**29.4** (1.4)		6010B		1	SVD	08/08/13 23:48	5.65	100	CH30802
Beryllium	**0.30** (0.06)		6010B		1	SVD	08/08/13 23:48	5.65	100	CH30802
Cadmium	**0.72** (0.27)		6010B		1	SVD	08/08/13 23:48	5.65	100	CH30802
Chromium	**23.7** (0.5)		6010B		1	SVD	08/08/13 23:48	5.65	100	CH30802
Lead	**298** (2.7)		6010B		1	SVD	08/08/13 23:48	5.65	100	CH30802
Mercury	**0.233** (0.105)		7471B		5	KJK	08/09/13 16:54	1.45	40	CH30804
Nickel	**10.6** (1.4)		6010B		1	SVD	08/08/13 23:48	5.65	100	CH30802
Selenium	ND (1.37)		6020A		50	JP	08/09/13 22:21	5.65	100	CH30802
Silver	**0.96** (0.27)		6010B		1	SVD	08/08/13 23:48	5.65	100	CH30802
Thallium	ND (1.37)		6020A		50	JP	08/09/13 22:21	5.65	100	CH30802
Vanadium	**46.6** (0.5)		6010B		1	SVD	08/08/13 23:48	5.65	100	CH30802
Zinc	**140** (1.4)		6010B		1	SVD	08/08/13 23:48	5.65	100	CH30802

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-122 0.5-2ft
Date Sampled: 08/02/13 11:24
Percent Solids: 65
Initial Volume: 19.5
Final Volume: 5
Extraction Method: 3540

ESS Laboratory Work Order: 1308106
ESS Laboratory Sample ID: 1308106-06
Sample Matrix: Solid
Units: mg/kg dry
Analyst: SEP
Prepared: 8/8/13 17:15
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0395)		8082A		1	08/11/13 2:17		CH30839
Aroclor 1221	ND (0.0395)		8082A		1	08/11/13 2:17		CH30839
Aroclor 1232	ND (0.0395)		8082A		1	08/11/13 2:17		CH30839
Aroclor 1242	ND (0.0395)		8082A		1	08/11/13 2:17		CH30839
Aroclor 1248	ND (0.0395)		8082A		1	08/11/13 2:17		CH30839
Aroclor 1254	ND (0.0395)		8082A		1	08/11/13 2:17		CH30839
Aroclor 1260	ND (0.0395)		8082A		1	08/11/13 2:17		CH30839
Aroclor 1262	ND (0.0395)		8082A		1	08/11/13 2:17		CH30839
Aroclor 1268	ND (0.0395)		8082A		1	08/11/13 2:17		CH30839

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*108 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*83 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*87 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*77 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-122 0.5-2ft
Date Sampled: 08/02/13 11:24
Percent Solids: 65
Initial Volume: 30.2
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308106
ESS Laboratory Sample ID: 1308106-06
Sample Matrix: Solid
Units: mg/kg dry
Analyst: IBM
Prepared: 8/8/13 16:48

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.255)		8270D		1	08/09/13 11:14	CWH0121	CH30815
1,2-Dichlorobenzene	ND (0.255)		8270D		1	08/09/13 11:14	CWH0121	CH30815
1,3-Dichlorobenzene	ND (0.255)		8270D		1	08/09/13 11:14	CWH0121	CH30815
1,4-Dichlorobenzene	ND (0.255)		8270D		1	08/09/13 11:14	CWH0121	CH30815
2-Methylnaphthalene	ND (0.255)		8270D		1	08/09/13 11:14	CWH0121	CH30815
2-Methylphenol	ND (0.255)		8270D		1	08/09/13 11:14	CWH0121	CH30815
Acenaphthene	ND (0.255)		8270D		1	08/09/13 11:14	CWH0121	CH30815
Acenaphthylene	ND (0.255)		8270D		1	08/09/13 11:14	CWH0121	CH30815
Anthracene	ND (0.255)		8270D		1	08/09/13 11:14	CWH0121	CH30815
Benzo(a)anthracene	ND (0.255)		8270D		1	08/09/13 11:14	CWH0121	CH30815
Benzo(a)pyrene	ND (0.128)		8270D		1	08/09/13 11:14	CWH0121	CH30815
Benzo(b)fluoranthene	ND (0.255)		8270D		1	08/09/13 11:14	CWH0121	CH30815
Benzo(g,h,i)perylene	ND (0.255)		8270D		1	08/09/13 11:14	CWH0121	CH30815
Benzo(k)fluoranthene	ND (0.255)		8270D		1	08/09/13 11:14	CWH0121	CH30815
bis(2-Ethylhexyl)phthalate	ND (0.255)		8270D		1	08/09/13 11:14	CWH0121	CH30815
Butylbenzylphthalate	ND (0.255)		8270D		1	08/09/13 11:14	CWH0121	CH30815
Carbazole	ND (0.255)		8270D		1	08/09/13 11:14	CWH0121	CH30815
Chrysene	ND (0.128)		8270D		1	08/09/13 11:14	CWH0121	CH30815
Dibenzo(a,h)Anthracene	ND (0.128)		8270D		1	08/09/13 11:14	CWH0121	CH30815
Dibenzofuran	ND (0.255)		8270D		1	08/09/13 11:14	CWH0121	CH30815
Diethylphthalate	ND (0.255)		8270D		1	08/09/13 11:14	CWH0121	CH30815
Dimethylphthalate	ND (0.255)		8270D		1	08/09/13 11:14	CWH0121	CH30815
Di-n-butylphthalate	ND (0.255)		8270D		1	08/09/13 11:14	CWH0121	CH30815
Di-n-octylphthalate	ND (0.255)		8270D		1	08/09/13 11:14	CWH0121	CH30815
Fluoranthene	ND (0.255)		8270D		1	08/09/13 11:14	CWH0121	CH30815
Fluorene	ND (0.255)		8270D		1	08/09/13 11:14	CWH0121	CH30815
Hexachlorobenzene	ND (0.255)		8270D		1	08/09/13 11:14	CWH0121	CH30815
Hexachlorocyclopentadiene	ND (1.28)		8270D		1	08/09/13 11:14	CWH0121	CH30815
Indeno(1,2,3-cd)Pyrene	ND (0.255)		8270D		1	08/09/13 11:14	CWH0121	CH30815
Naphthalene	ND (0.255)		8270D		1	08/09/13 11:14	CWH0121	CH30815
Phenanthrene	ND (0.255)		8270D		1	08/09/13 11:14	CWH0121	CH30815

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-122 0.5-2ft
Date Sampled: 08/02/13 11:24
Percent Solids: 65
Initial Volume: 30.2
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308106
ESS Laboratory Sample ID: 1308106-06
Sample Matrix: Solid
Units: mg/kg dry
Analyst: IBM
Prepared: 8/8/13 16:48

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Phenol	ND (0.255)		8270D		1	08/09/13 11:14	CWH0121	CH30815
Pyrene	ND (0.255)		8270D		1	08/09/13 11:14	CWH0121	CH30815

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*67 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*92 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*72 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*75 %*		*30-130*
Surrogate: 2-Fluorophenol	*64 %*		*30-130*
Surrogate: Nitrobenzene-d5	*75 %*		*30-130*
Surrogate: Phenol-d6	*73 %*		*30-130*
Surrogate: p-Terphenyl-d14	*86 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-122 0.5-2ft
Date Sampled: 08/02/13 11:24
Percent Solids: 65
Initial Volume: 15.3
Final Volume: 0.5
Extraction Method: 3541

ESS Laboratory Work Order: 1308106
ESS Laboratory Sample ID: 1308106-06
Sample Matrix: Solid
Units: mg/kg dry
Analyst: IBM
Prepared: 8/8/13 17:30

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	ND (0.013)		8270D		1	08/13/13 2:03	CWH0159	CH30903
Acenaphthene	ND (0.013)		8270D		1	08/13/13 2:03	CWH0159	CH30903
Acenaphthylene	ND (0.013)		8270D		1	08/13/13 2:03	CWH0159	CH30903
Anthracene	ND (0.013)		8270D		1	08/13/13 2:03	CWH0159	CH30903
Benzo(a)anthracene	**0.024** (0.013)		8270D		1	08/13/13 2:03	CWH0159	CH30903
Benzo(a)pyrene	**0.020** (0.013)		8270D		1	08/13/13 2:03	CWH0159	CH30903
Benzo(b)fluoranthene	**0.022** (0.013)		8270D		1	08/13/13 2:03	CWH0159	CH30903
Benzo(g,h,i)perylene	**0.015** (0.013)		8270D		1	08/13/13 2:03	CWH0159	CH30903
Benzo(k)fluoranthene	ND (0.013)		8270D		1	08/13/13 2:03	CWH0159	CH30903
Chrysene	**0.022** (0.013)		8270D		1	08/13/13 2:03	CWH0159	CH30903
Dibenzo(a,h)Anthracene	ND (0.013)		8270D		1	08/13/13 2:03	CWH0159	CH30903
Fluoranthene	**0.041** (0.013)		8270D		1	08/13/13 2:03	CWH0159	CH30903
Fluorene	ND (0.013)		8270D		1	08/13/13 2:03	CWH0159	CH30903
Indeno(1,2,3-cd)Pyrene	**0.016** (0.013)		8270D		1	08/13/13 2:03	CWH0159	CH30903
Naphthalene	ND (0.013)		8270D		1	08/13/13 2:03	CWH0159	CH30903
Phenanthrene	**0.025** (0.013)		8270D		1	08/13/13 2:03	CWH0159	CH30903
Pyrene	**0.039** (0.013)		8270D		1	08/13/13 2:03	CWH0159	CH30903

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*75 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*81 %*		*30-130*
Surrogate: Nitrobenzene-d5	*88 %*		*30-130*
Surrogate: p-Terphenyl-d14	*104 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-122 0.5-2ft
Date Sampled: 08/02/13 11:24
Percent Solids: 65

ESS Laboratory Work Order: 1308106
ESS Laboratory Sample ID: 1308106-06
Sample Matrix: Solid

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**13900** (500)		TOC-LK		1	SUB	08/14/13 0:00	mg/kg	CH31340

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-122 0.5-2ft
Date Sampled: 08/02/13 11:24
Percent Solids: 65
Initial Volume: 15.1
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1308106
ESS Laboratory Sample ID: 1308106-06
Sample Matrix: Solid
Units: mg/kg dry

Prepared: 8/9/13 15:00

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (38.2)		MADEP-EPH		1	SEP	08/10/13 19:53	CWH0134	CH30919
C19-C36 Aliphatics1	**119** (38.2)		MADEP-EPH		1	SEP	08/10/13 19:53	CWH0134	CH30919
C11-C22 Unadjusted Aromatics1	**59.5** (38.2)		EPH8270		1	SEP	08/11/13 9:41	CWH0135	CH30919
C11-C22 Aromatics1,2	**59.5** (38.2)		EPH8270			SEP	08/11/13 9:41		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*82 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*118 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*114 %*		*40-140*
Surrogate: O-Terphenyl	*91 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-122 2-4ft
Date Sampled: 08/02/13 11:24
Percent Solids: 67

ESS Laboratory Work Order: 1308106
ESS Laboratory Sample ID: 1308106-07
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (1.4)		6020A		50	JP	08/09/13 22:27	5.39	100	CH30802
Arsenic	**6.6** (1.4)		6010B		1	SVD	08/08/13 23:53	5.39	100	CH30802
Barium	**14.5** (1.4)		6010B		1	SVD	08/08/13 23:53	5.39	100	CH30802
Beryllium	**0.23** (0.06)		6010B		1	SVD	08/08/13 23:53	5.39	100	CH30802
Cadmium	**0.30** (0.28)		6010B		1	SVD	08/08/13 23:53	5.39	100	CH30802
Chromium	**11.4** (0.5)		6010B		1	SVD	08/08/13 23:53	5.39	100	CH30802
Lead	**63.5** (2.8)		6010B		1	SVD	08/08/13 23:53	5.39	100	CH30802
Mercury	ND (0.023)		7471B		1	KJK	08/09/13 18:53	1.27	40	CH30804
Nickel	**7.2** (1.4)		6010B		1	SVD	08/08/13 23:53	5.39	100	CH30802
Selenium	ND (1.38)		6020A		50	JP	08/09/13 22:27	5.39	100	CH30802
Silver	ND (0.28)		6010B		1	SVD	08/08/13 23:53	5.39	100	CH30802
Thallium	ND (1.38)		6020A		50	JP	08/09/13 22:27	5.39	100	CH30802
Vanadium	**17.6** (0.5)		6010B		1	SVD	08/08/13 23:53	5.39	100	CH30802
Zinc	**38.2** (1.4)		6010B		1	SVD	08/08/13 23:53	5.39	100	CH30802

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-122 2-4ft
Date Sampled: 08/02/13 11:24
Percent Solids: 67
Initial Volume: 19.6
Final Volume: 5
Extraction Method: 3540

ESS Laboratory Work Order: 1308106
ESS Laboratory Sample ID: 1308106-07
Sample Matrix: Solid
Units: mg/kg dry
Analyst: SEP
Prepared: 8/8/13 17:15
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0378)		8082A		1	08/10/13 23:24		CH30839
Aroclor 1221	ND (0.0378)		8082A		1	08/10/13 23:24		CH30839
Aroclor 1232	ND (0.0378)		8082A		1	08/10/13 23:24		CH30839
Aroclor 1242	ND (0.0378)		8082A		1	08/10/13 23:24		CH30839
Aroclor 1248	ND (0.0378)		8082A		1	08/10/13 23:24		CH30839
Aroclor 1254	ND (0.0378)		8082A		1	08/10/13 23:24		CH30839
Aroclor 1260	ND (0.0378)		8082A		1	08/10/13 23:24		CH30839
Aroclor 1262	ND (0.0378)		8082A		1	08/10/13 23:24		CH30839
Aroclor 1268	ND (0.0378)		8082A		1	08/10/13 23:24		CH30839

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*97 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*75 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*73 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*63 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-122 2-4ft
Date Sampled: 08/02/13 11:24
Percent Solids: 67
Initial Volume: 30.2
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308106
ESS Laboratory Sample ID: 1308106-07
Sample Matrix: Solid
Units: mg/kg dry
Analyst: IBM
Prepared: 8/8/13 16:48

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.245)		8270D		1	08/09/13 11:47	CWH0121	CH30815
1,2-Dichlorobenzene	ND (0.245)		8270D		1	08/09/13 11:47	CWH0121	CH30815
1,3-Dichlorobenzene	ND (0.245)		8270D		1	08/09/13 11:47	CWH0121	CH30815
1,4-Dichlorobenzene	ND (0.245)		8270D		1	08/09/13 11:47	CWH0121	CH30815
2-Methylnaphthalene	ND (0.245)		8270D		1	08/09/13 11:47	CWH0121	CH30815
2-Methylphenol	ND (0.245)		8270D		1	08/09/13 11:47	CWH0121	CH30815
Acenaphthene	ND (0.245)		8270D		1	08/09/13 11:47	CWH0121	CH30815
Acenaphthylene	ND (0.245)		8270D		1	08/09/13 11:47	CWH0121	CH30815
Anthracene	ND (0.245)		8270D		1	08/09/13 11:47	CWH0121	CH30815
Benzo(a)anthracene	ND (0.245)		8270D		1	08/09/13 11:47	CWH0121	CH30815
Benzo(a)pyrene	ND (0.123)		8270D		1	08/09/13 11:47	CWH0121	CH30815
Benzo(b)fluoranthene	ND (0.245)		8270D		1	08/09/13 11:47	CWH0121	CH30815
Benzo(g,h,i)perylene	ND (0.245)		8270D		1	08/09/13 11:47	CWH0121	CH30815
Benzo(k)fluoranthene	ND (0.245)		8270D		1	08/09/13 11:47	CWH0121	CH30815
bis(2-Ethylhexyl)phthalate	ND (0.245)		8270D		1	08/09/13 11:47	CWH0121	CH30815
Butylbenzylphthalate	ND (0.245)		8270D		1	08/09/13 11:47	CWH0121	CH30815
Carbazole	ND (0.245)		8270D		1	08/09/13 11:47	CWH0121	CH30815
Chrysene	ND (0.123)		8270D		1	08/09/13 11:47	CWH0121	CH30815
Dibenzo(a,h)Anthracene	ND (0.123)		8270D		1	08/09/13 11:47	CWH0121	CH30815
Dibenzofuran	ND (0.245)		8270D		1	08/09/13 11:47	CWH0121	CH30815
Diethylphthalate	ND (0.245)		8270D		1	08/09/13 11:47	CWH0121	CH30815
Dimethylphthalate	ND (0.245)		8270D		1	08/09/13 11:47	CWH0121	CH30815
Di-n-butylphthalate	ND (0.245)		8270D		1	08/09/13 11:47	CWH0121	CH30815
Di-n-octylphthalate	ND (0.245)		8270D		1	08/09/13 11:47	CWH0121	CH30815
Fluoranthene	ND (0.245)		8270D		1	08/09/13 11:47	CWH0121	CH30815
Fluorene	ND (0.245)		8270D		1	08/09/13 11:47	CWH0121	CH30815
Hexachlorobenzene	ND (0.245)		8270D		1	08/09/13 11:47	CWH0121	CH30815
Hexachlorocyclopentadiene	ND (1.23)		8270D		1	08/09/13 11:47	CWH0121	CH30815
Indeno(1,2,3-cd)Pyrene	ND (0.245)		8270D		1	08/09/13 11:47	CWH0121	CH30815
Naphthalene	ND (0.245)		8270D		1	08/09/13 11:47	CWH0121	CH30815
Phenanthrene	ND (0.245)		8270D		1	08/09/13 11:47	CWH0121	CH30815

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-122 2-4ft
Date Sampled: 08/02/13 11:24
Percent Solids: 67
Initial Volume: 30.2
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308106
ESS Laboratory Sample ID: 1308106-07
Sample Matrix: Solid
Units: mg/kg dry
Analyst: IBM
Prepared: 8/8/13 16:48

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Phenol	ND (0.245)		8270D		1	08/09/13 11:47	CWH0121	CH30815
Pyrene	ND (0.245)		8270D		1	08/09/13 11:47	CWH0121	CH30815

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*70 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*84 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*74 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*78 %*		*30-130*
Surrogate: 2-Fluorophenol	*67 %*		*30-130*
Surrogate: Nitrobenzene-d5	*74 %*		*30-130*
Surrogate: Phenol-d6	*72 %*		*30-130*
Surrogate: p-Terphenyl-d14	*81 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-122 2-4ft
Date Sampled: 08/02/13 11:24
Percent Solids: 67
Initial Volume: 15
Final Volume: 0.5
Extraction Method: 3541

ESS Laboratory Work Order: 1308106
ESS Laboratory Sample ID: 1308106-07
Sample Matrix: Solid
Units: mg/kg dry
Analyst: IBM
Prepared: 8/8/13 17:30

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	ND (0.012)		8270D		1	08/11/13 4:44	CWH0138	CH30903
Acenaphthene	ND (0.012)		8270D		1	08/11/13 4:44	CWH0138	CH30903
Acenaphthylene	ND (0.012)		8270D		1	08/11/13 4:44	CWH0138	CH30903
Anthracene	ND (0.012)		8270D		1	08/11/13 4:44	CWH0138	CH30903
Benzo(a)anthracene	ND (0.012)		8270D		1	08/11/13 4:44	CWH0138	CH30903
Benzo(a)pyrene	ND (0.012)		8270D		1	08/11/13 4:44	CWH0138	CH30903
Benzo(b)fluoranthene	**0.014** (0.012)		8270D		1	08/11/13 4:44	CWH0138	CH30903
Benzo(g,h,i)perylene	ND (0.012)		8270D		1	08/11/13 4:44	CWH0138	CH30903
Benzo(k)fluoranthene	ND (0.012)		8270D		1	08/11/13 4:44	CWH0138	CH30903
Chrysene	ND (0.012)		8270D		1	08/11/13 4:44	CWH0138	CH30903
Dibenzo(a,h)Anthracene	ND (0.012)		8270D		1	08/11/13 4:44	CWH0138	CH30903
Fluoranthene	**0.014** (0.012)		8270D		1	08/11/13 4:44	CWH0138	CH30903
Fluorene	ND (0.012)		8270D		1	08/11/13 4:44	CWH0138	CH30903
Indeno(1,2,3-cd)Pyrene	ND (0.012)		8270D		1	08/11/13 4:44	CWH0138	CH30903
Naphthalene	ND (0.012)		8270D		1	08/11/13 4:44	CWH0138	CH30903
Phenanthrene	ND (0.012)		8270D		1	08/11/13 4:44	CWH0138	CH30903
Pyrene	**0.016** (0.012)		8270D		1	08/11/13 4:44	CWH0138	CH30903

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*71 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*71 %*		*30-130*
Surrogate: Nitrobenzene-d5	*78 %*		*30-130*
Surrogate: p-Terphenyl-d14	*93 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-122 2-4ft
Date Sampled: 08/02/13 11:24
Percent Solids: 67

ESS Laboratory Work Order: 1308106
ESS Laboratory Sample ID: 1308106-07
Sample Matrix: Solid

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**6700** (500)		TOC-LK		1	SUB	08/14/13 0:00	mg/kg	CH31340

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-122 2-4ft
Date Sampled: 08/02/13 11:24
Percent Solids: 67
Initial Volume: 15.5
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1308106
ESS Laboratory Sample ID: 1308106-07
Sample Matrix: Solid
Units: mg/kg dry

Prepared: 8/9/13 15:00

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (35.9)		MADEP-EPH		1	SEP	08/10/13 20:44	CWH0134	CH30919
C19-C36 Aliphatics1	ND (35.9)		MADEP-EPH		1	SEP	08/10/13 20:44	CWH0134	CH30919
C11-C22 Unadjusted Aromatics1	ND (35.9)		EPH8270		1	SEP	08/11/13 4:12	CWH0135	CH30919
C11-C22 Aromatics1,2	ND (35.9)		EPH8270			SEP	08/11/13 4:12		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*71 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*100 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*99 %*		*40-140*
Surrogate: O-Terphenyl	*76 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-123 0-0.5ft
Date Sampled: 08/01/13 14:30
Percent Solids: 31

ESS Laboratory Work Order: 1308106
ESS Laboratory Sample ID: 1308106-08
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (2.8)		6020A		50	JP	08/09/13 22:45	5.68	100	CH30802
Arsenic	**26.8** (2.8)		6010B		1	SVD	08/09/13 0:07	5.68	100	CH30802
Barium	**67.2** (2.8)		6010B		1	SVD	08/09/13 0:07	5.68	100	CH30802
Beryllium	**0.75** (0.12)		6010B		1	SVD	08/09/13 0:07	5.68	100	CH30802
Cadmium	**2.23** (0.57)		6010B		1	SVD	08/09/13 0:07	5.68	100	CH30802
Chromium	**89.2** (1.1)		6010B		1	SVD	08/09/13 0:07	5.68	100	CH30802
Lead	**232** (5.7)		6010B		1	SVD	08/09/13 0:07	5.68	100	CH30802
Mercury	**1.06** (0.260)		7471B		5	KJK	08/09/13 17:04	1.22	40	CH30804
Nickel	**25.6** (2.8)		6010B		1	SVD	08/09/13 0:07	5.68	100	CH30802
Selenium	ND (2.84)		6020A		50	JP	08/09/13 22:45	5.68	100	CH30802
Silver	**2.25** (0.57)		6010B		1	SVD	08/09/13 0:07	5.68	100	CH30802
Thallium	ND (2.84)		6020A		50	JP	08/09/13 22:45	5.68	100	CH30802
Vanadium	**81.9** (1.1)		6010B		1	SVD	08/09/13 0:07	5.68	100	CH30802
Zinc	**382** (2.8)		6010B		1	SVD	08/09/13 0:07	5.68	100	CH30802

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-123 0-0.5ft
Date Sampled: 08/01/13 14:30
Percent Solids: 31

ESS Laboratory Work Order: 1308106
ESS Laboratory Sample ID: 1308106-08
Sample Matrix: Solid

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**42400** (500)		TOC-LK		1	SUB	08/14/13 0:00	mg/kg	CH31340

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-123 2-4ft
Date Sampled: 08/01/13 14:30
Percent Solids: 22

ESS Laboratory Work Order: 1308106
ESS Laboratory Sample ID: 1308106-09
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (4.1)		6020A		50	JP	08/09/13 22:51	5.47	100	CH30802
Arsenic	**59.0** (4.1)		6010B		1	SVD	08/09/13 0:12	5.47	100	CH30802
Barium	**62.2** (4.1)		6010B		1	SVD	08/09/13 0:12	5.47	100	CH30802
Beryllium	**0.62** (0.17)		6010B		1	SVD	08/09/13 0:12	5.47	100	CH30802
Cadmium	**2.41** (0.82)		6010B		1	SVD	08/09/13 0:12	5.47	100	CH30802
Chromium	**144** (1.6)		6010B		1	SVD	08/09/13 0:12	5.47	100	CH30802
Lead	**218** (8.1)		6010B		1	SVD	08/09/13 0:12	5.47	100	CH30802
Mercury	**1.49** (0.306)		7471B		5	KJK	08/09/13 17:07	1.44	40	CH30804
Nickel	**20.7** (4.1)		6010B		1	SVD	08/09/13 0:12	5.47	100	CH30802
Selenium	ND (4.09)		6020A		50	JP	08/09/13 22:51	5.47	100	CH30802
Silver	**2.25** (0.82)		6010B		1	SVD	08/09/13 0:12	5.47	100	CH30802
Thallium	ND (4.09)		6020A		50	JP	08/09/13 22:51	5.47	100	CH30802
Vanadium	**187** (1.6)		6010B		1	SVD	08/09/13 0:12	5.47	100	CH30802
Zinc	**284** (4.1)		6010B		1	SVD	08/09/13 0:12	5.47	100	CH30802

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-123 4-6ft
Date Sampled: 08/01/13 14:30
Percent Solids: 30

ESS Laboratory Work Order: 1308106
ESS Laboratory Sample ID: 1308106-10
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (3.2)		6020A		50	JP	08/09/13 22:57	5.16	100	CH30802
Arsenic	**39.9** (3.2)		6010B		1	SVD	08/09/13 0:18	5.16	100	CH30802
Barium	**54.2** (3.2)		6010B		1	SVD	08/09/13 0:18	5.16	100	CH30802
Beryllium	**0.46** (0.13)		6010B		1	SVD	08/09/13 0:18	5.16	100	CH30802
Cadmium	**1.89** (0.64)		6010B		1	SVD	08/09/13 0:18	5.16	100	CH30802
Chromium	**104** (1.3)		6010B		1	SVD	08/09/13 0:18	5.16	100	CH30802
Lead	**150** (6.4)		6010B		1	SVD	08/09/13 0:18	5.16	100	CH30802
Mercury	**1.32** (0.273)		7471B		5	KJK	08/09/13 17:10	1.19	40	CH30804
Nickel	**15.3** (3.2)		6010B		1	SVD	08/09/13 0:18	5.16	100	CH30802
Selenium	ND (3.19)		6020A		50	JP	08/09/13 22:57	5.16	100	CH30802
Silver	**1.73** (0.64)		6010B		1	SVD	08/09/13 0:18	5.16	100	CH30802
Thallium	ND (3.19)		6020A		50	JP	08/09/13 22:57	5.16	100	CH30802
Vanadium	**107** (1.3)		6010B		1	SVD	08/09/13 0:18	5.16	100	CH30802
Zinc	**186** (3.2)		6010B		1	SVD	08/09/13 0:18	5.16	100	CH30802

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-124 0-0.5ft
Date Sampled: 08/02/13 11:44
Percent Solids: 67

ESS Laboratory Work Order: 1308106
ESS Laboratory Sample ID: 1308106-11
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (1.3)		6020A		50	JP	08/09/13 23:27	5.95	100	CH30802
Arsenic	**20.2** (1.2)		6010B		1	SVD	08/09/13 0:44	5.95	100	CH30802
Barium	**21.2** (1.2)		6010B		1	SVD	08/09/13 0:44	5.95	100	CH30802
Beryllium	**0.26** (0.05)		6010B		1	SVD	08/09/13 0:44	5.95	100	CH30802
Cadmium	**0.60** (0.25)		6010B		1	SVD	08/09/13 0:44	5.95	100	CH30802
Chromium	**16.0** (0.5)		6010B		1	SVD	08/09/13 0:44	5.95	100	CH30802
Lead	**89.1** (2.5)		6010B		1	SVD	08/09/13 0:44	5.95	100	CH30802
Mercury	**0.250** (0.080)		7471B		5	KJK	08/09/13 17:23	1.84	40	CH30804
Nickel	**8.3** (1.2)		6010B		1	SVD	08/09/13 0:44	5.95	100	CH30802
Selenium	ND (1.26)		6020A		50	JP	08/09/13 23:27	5.95	100	CH30802
Silver	**0.65** (0.25)		6010B		1	SVD	08/09/13 0:44	5.95	100	CH30802
Thallium	ND (1.26)		6020A		50	JP	08/09/13 23:27	5.95	100	CH30802
Vanadium	**26.9** (0.5)		6010B		1	SVD	08/09/13 0:44	5.95	100	CH30802
Zinc	**99.3** (1.2)		6010B		1	SVD	08/09/13 0:44	5.95	100	CH30802

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-124 0-0.5ft
Date Sampled: 08/02/13 11:44
Percent Solids: 67

ESS Laboratory Work Order: 1308106
ESS Laboratory Sample ID: 1308106-11
Sample Matrix: Solid

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**9230** (500)		TOC-LK		1	SUB	08/14/13 0:00	mg/kg	CH31340

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-124 2-4ft
Date Sampled: 08/02/13 11:44
Percent Solids: 70

ESS Laboratory Work Order: 1308106
ESS Laboratory Sample ID: 1308106-12
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (1.4)		6020A		50	JP	08/09/13 23:33	5.04	100	CH30802
Arsenic	**1.8** (1.4)		6010B		1	SVD	08/09/13 0:50	5.04	100	CH30802
Barium	**7.9** (1.4)		6010B		1	SVD	08/09/13 0:50	5.04	100	CH30802
Beryllium	**0.27** (0.06)		6010B		1	SVD	08/09/13 0:50	5.04	100	CH30802
Cadmium	**0.29** (0.29)		6010B		1	SVD	08/09/13 0:50	5.04	100	CH30802
Chromium	**9.4** (0.6)		6010B		1	SVD	08/09/13 0:50	5.04	100	CH30802
Lead	ND (2.9)		6010B		1	SVD	08/09/13 0:50	5.04	100	CH30802
Mercury	ND (0.110)		7471B		5	KJK	08/09/13 17:26	1.3	40	CH30804
Nickel	**5.0** (1.4)		6010B		1	SVD	08/09/13 0:50	5.04	100	CH30802
Selenium	ND (1.43)		6020A		50	JP	08/09/13 23:33	5.04	100	CH30802
Silver	ND (0.29)		6010B		1	SVD	08/09/13 0:50	5.04	100	CH30802
Thallium	ND (1.43)		6020A		50	JP	08/09/13 23:33	5.04	100	CH30802
Vanadium	**13.3** (0.6)		6010B		1	SVD	08/09/13 0:50	5.04	100	CH30802
Zinc	**15.4** (1.4)		6010B		1	SVD	08/09/13 0:50	5.04	100	CH30802

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-125A 0-0.5ft
Date Sampled: 08/05/13 11:10
Percent Solids: 66

ESS Laboratory Work Order: 1308106
ESS Laboratory Sample ID: 1308106-13
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (1.5)		6020A		50	JP	08/09/13 23:39	5.21	100	CH30802
Arsenic	**5.3** (1.4)		6010B		1	SVD	08/09/13 0:55	5.21	100	CH30802
Barium	**14.2** (1.4)		6010B		1	SVD	08/09/13 0:55	5.21	100	CH30802
Beryllium	**0.20** (0.06)		6010B		1	SVD	08/09/13 0:55	5.21	100	CH30802
Cadmium	**0.30** (0.29)		6010B		1	SVD	08/09/13 0:55	5.21	100	CH30802
Chromium	**12.0** (0.6)		6010B		1	SVD	08/09/13 0:55	5.21	100	CH30802
Lead	**44.8** (2.9)		6010B		1	SVD	08/09/13 0:55	5.21	100	CH30802
Mercury	**0.184** (0.080)		7471B		5	KJK	08/09/13 17:28	1.86	40	CH30804
Nickel	**6.1** (1.4)		6010B		1	SVD	08/09/13 0:55	5.21	100	CH30802
Selenium	ND (1.45)		6020A		50	JP	08/09/13 23:39	5.21	100	CH30802
Silver	ND (0.29)		6010B		1	SVD	08/09/13 0:55	5.21	100	CH30802
Thallium	ND (1.45)		6020A		50	JP	08/09/13 23:39	5.21	100	CH30802
Vanadium	**15.4** (0.6)		6010B		1	SVD	08/09/13 0:55	5.21	100	CH30802
Zinc	**52.4** (1.4)		6010B		1	SVD	08/09/13 0:55	5.21	100	CH30802

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-125A 0-0.5ft
Date Sampled: 08/05/13 11:10
Percent Solids: 66

ESS Laboratory Work Order: 1308106
ESS Laboratory Sample ID: 1308106-13
Sample Matrix: Solid

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**10300** (500)		TOC-LK		1	SUB	08/14/13 0:00	mg/kg	CH31340

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-125A 2-4ft
Date Sampled: 08/05/13 11:10
Percent Solids: 73

ESS Laboratory Work Order: 1308106
ESS Laboratory Sample ID: 1308106-14
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (1.2)		6020A		50	JP	08/09/13 23:57	5.56	100	CH30802
Arsenic	**1.6** (1.2)		6010B		1	SVD	08/09/13 1:09	5.56	100	CH30802
Barium	**10.0** (1.2)		6010B		1	SVD	08/09/13 1:09	5.56	100	CH30802
Beryllium	**0.23** (0.05)		6010B		1	SVD	08/09/13 1:09	5.56	100	CH30802
Cadmium	ND (0.25)		6010B		1	SVD	08/09/13 1:09	5.56	100	CH30802
Chromium	**11.3** (0.5)		6010B		1	SVD	08/09/13 1:09	5.56	100	CH30802
Lead	ND (2.5)		6010B		1	SVD	08/09/13 1:09	5.56	100	CH30802
Mercury	ND (0.021)		7471B		1	KJK	08/09/13 18:56	1.27	40	CH30804
Nickel	**6.7** (1.2)		6010B		1	SVD	08/09/13 1:09	5.56	100	CH30802
Selenium	ND (1.25)		6020A		50	JP	08/09/13 23:57	5.56	100	CH30802
Silver	ND (0.25)		6010B		1	SVD	08/09/13 1:09	5.56	100	CH30802
Thallium	ND (1.25)		6020A		50	JP	08/09/13 23:57	5.56	100	CH30802
Vanadium	**15.2** (0.5)		6010B		1	SVD	08/09/13 1:09	5.56	100	CH30802
Zinc	**19.8** (1.2)		6010B		1	SVD	08/09/13 1:09	5.56	100	CH30802

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-125A 4-6ft
Date Sampled: 08/05/13 11:10
Percent Solids: 72

ESS Laboratory Work Order: 1308106
ESS Laboratory Sample ID: 1308106-15
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (1.3)		6020A		50	JP	08/10/13 0:03	5.55	100	CH30802
Arsenic	**2.0** (1.3)		6010B		1	SVD	08/09/13 1:15	5.55	100	CH30802
Barium	**12.4** (1.3)		6010B		1	SVD	08/09/13 1:15	5.55	100	CH30802
Beryllium	**0.27** (0.05)		6010B		1	SVD	08/09/13 1:15	5.55	100	CH30802
Cadmium	**0.28** (0.25)		6010B		1	SVD	08/09/13 1:15	5.55	100	CH30802
Chromium	**13.4** (0.5)		6010B		1	SVD	08/09/13 1:15	5.55	100	CH30802
Lead	ND (2.5)		6010B		1	SVD	08/09/13 1:15	5.55	100	CH30802
Mercury	ND (0.017)		7471B		1	KJK	08/09/13 18:59	1.61	40	CH30804
Nickel	**7.8** (1.3)		6010B		1	SVD	08/09/13 1:15	5.55	100	CH30802
Selenium	ND (1.26)		6020A		50	JP	08/10/13 0:03	5.55	100	CH30802
Silver	ND (0.25)		6010B		1	SVD	08/09/13 1:15	5.55	100	CH30802
Thallium	ND (1.26)		6020A		50	JP	08/10/13 0:03	5.55	100	CH30802
Vanadium	**17.6** (0.5)		6010B		1	SVD	08/09/13 1:15	5.55	100	CH30802
Zinc	**22.2** (1.3)		6010B		1	SVD	08/09/13 1:15	5.55	100	CH30802

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-125A 8-9ft
Date Sampled: 08/05/13 11:10
Percent Solids: 63

ESS Laboratory Work Order: 1308106
ESS Laboratory Sample ID: 1308106-16
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (1.4)		6020A		50	JP	08/10/13 0:09	5.66	100	CH30802
Arsenic	**2.5** (1.4)		6010B		1	SVD	08/09/13 1:21	5.66	100	CH30802
Barium	**18.6** (1.4)		6010B		1	SVD	08/09/13 1:21	5.66	100	CH30802
Beryllium	**0.38** (0.06)		6010B		1	SVD	08/09/13 1:21	5.66	100	CH30802
Cadmium	**0.35** (0.28)		6010B		1	SVD	08/09/13 1:21	5.66	100	CH30802
Chromium	**18.1** (0.6)		6010B		1	SVD	08/09/13 1:21	5.66	100	CH30802
Lead	**3.0** (2.8)		6010B		1	SVD	08/09/13 1:21	5.66	100	CH30802
Mercury	ND (0.025)		7471B		1	KJK	08/09/13 19:01	1.25	40	CH30804
Nickel	**10.2** (1.4)		6010B		1	SVD	08/09/13 1:21	5.66	100	CH30802
Selenium	ND (1.42)		6020A		50	JP	08/10/13 0:09	5.66	100	CH30802
Silver	ND (0.28)		6010B		1	SVD	08/09/13 1:21	5.66	100	CH30802
Thallium	ND (1.42)		6020A		50	JP	08/10/13 0:09	5.66	100	CH30802
Vanadium	**22.8** (0.6)		6010B		1	SVD	08/09/13 1:21	5.66	100	CH30802
Zinc	**29.9** (1.4)		6010B		1	SVD	08/09/13 1:21	5.66	100	CH30802

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-126T 0-0.5ft
Date Sampled: 08/06/13 10:15
Percent Solids: 65

ESS Laboratory Work Order: 1308106
ESS Laboratory Sample ID: 1308106-17
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (1.4)		6020A		50	JP	08/10/13 0:15	5.65	100	CH30802
Arsenic	**24.5** (1.4)		6010B		1	SVD	08/09/13 1:26	5.65	100	CH30802
Barium	**31.8** (1.4)		6010B		1	SVD	08/09/13 1:26	5.65	100	CH30802
Beryllium	**0.26** (0.06)		6010B		1	SVD	08/09/13 1:26	5.65	100	CH30802
Cadmium	**0.58** (0.27)		6010B		1	SVD	08/09/13 1:26	5.65	100	CH30802
Chromium	**19.1** (0.5)		6010B		1	SVD	08/09/13 1:26	5.65	100	CH30802
Lead	**140** (2.7)		6010B		1	SVD	08/09/13 1:26	5.65	100	CH30802
Mercury	**0.506** (0.090)		7471B		5	KJK	08/09/13 17:44	1.69	40	CH30804
Nickel	**7.6** (1.4)		6010B		1	SVD	08/09/13 1:26	5.65	100	CH30802
Selenium	ND (1.37)		6020A		50	JP	08/10/13 0:15	5.65	100	CH30802
Silver	**0.66** (0.27)		6010B		1	SVD	08/09/13 1:26	5.65	100	CH30802
Thallium	ND (1.37)		6020A		50	JP	08/10/13 0:15	5.65	100	CH30802
Vanadium	**22.2** (0.5)		6010B		1	SVD	08/09/13 1:26	5.65	100	CH30802
Zinc	**102** (1.4)		6010B		1	SVD	08/09/13 1:26	5.65	100	CH30802

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-126T 0-0.5ft
Date Sampled: 08/06/13 10:15
Percent Solids: 65
Initial Volume: 19.5
Final Volume: 5
Extraction Method: 3540

ESS Laboratory Work Order: 1308106
ESS Laboratory Sample ID: 1308106-17
Sample Matrix: Solid
Units: mg/kg dry
Analyst: SEP
Prepared: 8/8/13 17:15
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0394)		8082A		1	08/10/13 16:42		CH30839
Aroclor 1221	ND (0.0394)		8082A		1	08/10/13 16:42		CH30839
Aroclor 1232	ND (0.0394)		8082A		1	08/10/13 16:42		CH30839
Aroclor 1242	ND (0.0394)		8082A		1	08/10/13 16:42		CH30839
Aroclor 1248	ND (0.0394)		8082A		1	08/10/13 16:42		CH30839
Aroclor 1254	**0.0710** (0.0394)		8082A		1	08/10/13 16:42		CH30839
Aroclor 1260	ND (0.0394)		8082A		1	08/10/13 16:42		CH30839
Aroclor 1262	ND (0.0394)		8082A		1	08/10/13 16:42		CH30839
Aroclor 1268	ND (0.0394)		8082A		1	08/10/13 16:42		CH30839

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*94 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*68 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*65 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*58 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-126T 0-0.5ft
Date Sampled: 08/06/13 10:15
Percent Solids: 65
Initial Volume: 30.5
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308106
ESS Laboratory Sample ID: 1308106-17
Sample Matrix: Solid
Units: mg/kg dry
Analyst: IBM
Prepared: 8/8/13 16:48

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.252)		8270D		1	08/09/13 14:02	CWH0121	CH30815
1,2-Dichlorobenzene	ND (0.252)		8270D		1	08/09/13 14:02	CWH0121	CH30815
1,3-Dichlorobenzene	ND (0.252)		8270D		1	08/09/13 14:02	CWH0121	CH30815
1,4-Dichlorobenzene	ND (0.252)		8270D		1	08/09/13 14:02	CWH0121	CH30815
2-Methylnaphthalene	ND (0.252)		8270D		1	08/09/13 14:02	CWH0121	CH30815
2-Methylphenol	ND (0.252)		8270D		1	08/09/13 14:02	CWH0121	CH30815
Acenaphthene	ND (0.252)		8270D		1	08/09/13 14:02	CWH0121	CH30815
Acenaphthylene	ND (0.252)		8270D		1	08/09/13 14:02	CWH0121	CH30815
Anthracene	ND (0.252)		8270D		1	08/09/13 14:02	CWH0121	CH30815
Benzo(a)anthracene	**0.368** (0.252)		8270D		1	08/09/13 14:02	CWH0121	CH30815
Benzo(a)pyrene	**0.379** (0.126)		8270D		1	08/09/13 14:02	CWH0121	CH30815
Benzo(b)fluoranthene	**0.486** (0.252)		8270D		1	08/09/13 14:02	CWH0121	CH30815
Benzo(g,h,i)perylene	ND (0.252)		8270D		1	08/09/13 14:02	CWH0121	CH30815
Benzo(k)fluoranthene	ND (0.252)		8270D		1	08/09/13 14:02	CWH0121	CH30815
bis(2-Ethylhexyl)phthalate	**0.420** (0.252)		8270D		1	08/09/13 14:02	CWH0121	CH30815
Butylbenzylphthalate	ND (0.252)		8270D		1	08/09/13 14:02	CWH0121	CH30815
Carbazole	ND (0.252)		8270D		1	08/09/13 14:02	CWH0121	CH30815
Chrysene	**0.426** (0.126)		8270D		1	08/09/13 14:02	CWH0121	CH30815
Dibenzo(a,h)Anthracene	ND (0.126)		8270D		1	08/09/13 14:02	CWH0121	CH30815
Dibenzofuran	ND (0.252)		8270D		1	08/09/13 14:02	CWH0121	CH30815
Diethylphthalate	ND (0.252)		8270D		1	08/09/13 14:02	CWH0121	CH30815
Dimethylphthalate	ND (0.252)		8270D		1	08/09/13 14:02	CWH0121	CH30815
Di-n-butylphthalate	ND (0.252)		8270D		1	08/09/13 14:02	CWH0121	CH30815
Di-n-octylphthalate	ND (0.252)		8270D		1	08/09/13 14:02	CWH0121	CH30815
Fluoranthene	**0.649** (0.252)		8270D		1	08/09/13 14:02	CWH0121	CH30815
Fluorene	ND (0.252)		8270D		1	08/09/13 14:02	CWH0121	CH30815
Hexachlorobenzene	ND (0.252)		8270D		1	08/09/13 14:02	CWH0121	CH30815
Hexachlorocyclopentadiene	ND (1.26)		8270D		1	08/09/13 14:02	CWH0121	CH30815
Indeno(1,2,3-cd)Pyrene	ND (0.252)		8270D		1	08/09/13 14:02	CWH0121	CH30815
Naphthalene	ND (0.252)		8270D		1	08/09/13 14:02	CWH0121	CH30815
Phenanthrene	**0.282** (0.252)		8270D		1	08/09/13 14:02	CWH0121	CH30815

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-126T 0-0.5ft
Date Sampled: 08/06/13 10:15
Percent Solids: 65
Initial Volume: 30.5
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308106
ESS Laboratory Sample ID: 1308106-17
Sample Matrix: Solid
Units: mg/kg dry
Analyst: IBM
Prepared: 8/8/13 16:48

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Phenol	ND (0.252)		8270D		1	08/09/13 14:02	CWH0121	CH30815
Pyrene	**0.597** (0.252)		8270D		1	08/09/13 14:02	CWH0121	CH30815

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*50 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*77 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*53 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*60 %*		*30-130*
Surrogate: 2-Fluorophenol	*42 %*		*30-130*
Surrogate: Nitrobenzene-d5	*55 %*		*30-130*
Surrogate: Phenol-d6	*56 %*		*30-130*
Surrogate: p-Terphenyl-d14	*79 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-126T 0-0.5ft
Date Sampled: 08/06/13 10:15
Percent Solids: 65
Initial Volume: 15.1
Final Volume: 0.5
Extraction Method: 3541

ESS Laboratory Work Order: 1308106
ESS Laboratory Sample ID: 1308106-17
Sample Matrix: Solid
Units: mg/kg dry
Analyst: IBM
Prepared: 8/8/13 17:30

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	ND (0.064)		8270D		5	08/11/13 13:50	CWH0139	CH30903
Acenaphthene	ND (0.064)		8270D		5	08/11/13 13:50	CWH0139	CH30903
Acenaphthylene	**0.084** (0.064)		8270D		5	08/11/13 13:50	CWH0139	CH30903
Anthracene	**0.298** (0.064)		8270D		5	08/11/13 13:50	CWH0139	CH30903
Benzo(a)anthracene	**0.769** (0.064)		8270D		5	08/11/13 13:50	CWH0139	CH30903
Benzo(a)pyrene	**0.738** (0.064)		8270D		5	08/11/13 13:50	CWH0139	CH30903
Benzo(b)fluoranthene	**0.840** (0.064)		8270D		5	08/11/13 13:50	CWH0139	CH30903
Benzo(g,h,i)perylene	**0.443** (0.064)		8270D		5	08/11/13 13:50	CWH0139	CH30903
Benzo(k)fluoranthene	**0.290** (0.064)		8270D		5	08/11/13 13:50	CWH0139	CH30903
Chrysene	**0.670** (0.064)		8270D		5	08/11/13 13:50	CWH0139	CH30903
Dibenzo(a,h)Anthracene	**0.137** (0.064)		8270D		5	08/11/13 13:50	CWH0139	CH30903
Fluoranthene	**0.975** (0.064)		8270D		5	08/11/13 13:50	CWH0139	CH30903
Fluorene	ND (0.064)		8270D		5	08/11/13 13:50	CWH0139	CH30903
Indeno(1,2,3-cd)Pyrene	**0.532** (0.064)		8270D		5	08/11/13 13:50	CWH0139	CH30903
Naphthalene	ND (0.064)		8270D		5	08/11/13 13:50	CWH0139	CH30903
Phenanthrene	**0.341** (0.064)		8270D		5	08/11/13 13:50	CWH0139	CH30903
Pyrene	**1.08** (0.064)		8270D		5	08/11/13 13:50	CWH0139	CH30903

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*39 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*47 %*		*30-130*
Surrogate: Nitrobenzene-d5	*39 %*		*30-130*
Surrogate: p-Terphenyl-d14	*82 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-126T 0-0.5ft
Date Sampled: 08/06/13 10:15
Percent Solids: 65

ESS Laboratory Work Order: 1308106
ESS Laboratory Sample ID: 1308106-17
Sample Matrix: Solid

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**12300** (500)		TOC-LK		1	SUB	08/14/13 0:00	mg/kg	CH31340

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-126T 0-0.5ft
Date Sampled: 08/06/13 10:15
Percent Solids: 65
Initial Volume: 15.2
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1308106
ESS Laboratory Sample ID: 1308106-17
Sample Matrix: Solid
Units: mg/kg dry

Prepared: 8/9/13 15:00

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (37.9)		MADEP-EPH		1	SEP	08/10/13 21:34	CWH0134	CH30919
C19-C36 Aliphatics1	**49.9** (37.9)		MADEP-EPH		1	SEP	08/10/13 21:34	CWH0134	CH30919
C11-C22 Unadjusted Aromatics1	**80.8** (37.9)		EPH8270		1	VSC	08/12/13 14:50	CWH0145	CH30919
C11-C22 Aromatics1,2	**68.0** (37.9)		EPH8270			VSC	08/12/13 14:50		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*84 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*110 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*104 %*		*40-140*
Surrogate: O-Terphenyl	*91 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-126 0.5-2ft
Date Sampled: 08/05/13 10:50
Percent Solids: 81

ESS Laboratory Work Order: 1308106
ESS Laboratory Sample ID: 1308106-18
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (1.2)		6020A		50	JP	08/10/13 0:21	5.32	100	CH30802
Arsenic	**13.6** (1.2)		6010B		1	SVD	08/09/13 1:32	5.32	100	CH30802
Barium	**22.3** (1.2)		6010B		1	SVD	08/09/13 1:32	5.32	100	CH30802
Beryllium	**0.21** (0.05)		6010B		1	SVD	08/09/13 1:32	5.32	100	CH30802
Cadmium	**0.35** (0.23)		6010B		1	SVD	08/09/13 1:32	5.32	100	CH30802
Chromium	**12.3** (0.5)		6010B		1	SVD	08/09/13 1:32	5.32	100	CH30802
Lead	**91.6** (2.3)		6010B		1	SVD	08/09/13 1:32	5.32	100	CH30802
Mercury	**0.253** (0.079)		7471B		5	KJK	08/09/13 17:47	1.55	40	CH30804
Nickel	**5.9** (1.2)		6010B		1	SVD	08/09/13 1:32	5.32	100	CH30802
Selenium	ND (1.17)		6020A		50	JP	08/10/13 0:21	5.32	100	CH30802
Silver	**0.39** (0.23)		6010B		1	SVD	08/09/13 1:32	5.32	100	CH30802
Thallium	ND (1.17)		6020A		50	JP	08/10/13 0:21	5.32	100	CH30802
Vanadium	**15.9** (0.5)		6010B		1	SVD	08/09/13 1:32	5.32	100	CH30802
Zinc	**55.2** (1.2)		6010B		1	SVD	08/09/13 1:32	5.32	100	CH30802

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-126 0.5-2ft
Date Sampled: 08/05/13 10:50
Percent Solids: 81
Initial Volume: 19.9
Final Volume: 5
Extraction Method: 3540

ESS Laboratory Work Order: 1308106
ESS Laboratory Sample ID: 1308106-18
Sample Matrix: Solid
Units: mg/kg dry
Analyst: SEP
Prepared: 8/8/13 17:15
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0310)		8082A		1	08/10/13 23:43		CH30839
Aroclor 1221	ND (0.0310)		8082A		1	08/10/13 23:43		CH30839
Aroclor 1232	ND (0.0310)		8082A		1	08/10/13 23:43		CH30839
Aroclor 1242	ND (0.0310)		8082A		1	08/10/13 23:43		CH30839
Aroclor 1248	ND (0.0310)		8082A		1	08/10/13 23:43		CH30839
Aroclor 1254	ND (0.0310)		8082A		1	08/10/13 23:43		CH30839
Aroclor 1260	ND (0.0310)		8082A		1	08/10/13 23:43		CH30839
Aroclor 1262	ND (0.0310)		8082A		1	08/10/13 23:43		CH30839
Aroclor 1268	ND (0.0310)		8082A		1	08/10/13 23:43		CH30839

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*104 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*81 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*86 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*80 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-126 0.5-2ft
Date Sampled: 08/05/13 10:50
Percent Solids: 81
Initial Volume: 30.4
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308106
ESS Laboratory Sample ID: 1308106-18
Sample Matrix: Solid
Units: mg/kg dry
Analyst: IBM
Prepared: 8/8/13 16:48

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.203)		8270D		1	08/09/13 12:21	CWH0121	CH30815
1,2-Dichlorobenzene	ND (0.203)		8270D		1	08/09/13 12:21	CWH0121	CH30815
1,3-Dichlorobenzene	ND (0.203)		8270D		1	08/09/13 12:21	CWH0121	CH30815
1,4-Dichlorobenzene	ND (0.203)		8270D		1	08/09/13 12:21	CWH0121	CH30815
2-Methylnaphthalene	ND (0.203)		8270D		1	08/09/13 12:21	CWH0121	CH30815
2-Methylphenol	ND (0.203)		8270D		1	08/09/13 12:21	CWH0121	CH30815
Acenaphthene	ND (0.203)		8270D		1	08/09/13 12:21	CWH0121	CH30815
Acenaphthylene	ND (0.203)		8270D		1	08/09/13 12:21	CWH0121	CH30815
Anthracene	ND (0.203)		8270D		1	08/09/13 12:21	CWH0121	CH30815
Benzo(a)anthracene	ND (0.203)		8270D		1	08/09/13 12:21	CWH0121	CH30815
Benzo(a)pyrene	ND (0.102)		8270D		1	08/09/13 12:21	CWH0121	CH30815
Benzo(b)fluoranthene	ND (0.203)		8270D		1	08/09/13 12:21	CWH0121	CH30815
Benzo(g,h,i)perylene	ND (0.203)		8270D		1	08/09/13 12:21	CWH0121	CH30815
Benzo(k)fluoranthene	ND (0.203)		8270D		1	08/09/13 12:21	CWH0121	CH30815
bis(2-Ethylhexyl)phthalate	ND (0.203)		8270D		1	08/09/13 12:21	CWH0121	CH30815
Butylbenzylphthalate	ND (0.203)		8270D		1	08/09/13 12:21	CWH0121	CH30815
Carbazole	ND (0.203)		8270D		1	08/09/13 12:21	CWH0121	CH30815
Chrysene	ND (0.102)		8270D		1	08/09/13 12:21	CWH0121	CH30815
Dibenzo(a,h)Anthracene	ND (0.102)		8270D		1	08/09/13 12:21	CWH0121	CH30815
Dibenzofuran	ND (0.203)		8270D		1	08/09/13 12:21	CWH0121	CH30815
Diethylphthalate	ND (0.203)		8270D		1	08/09/13 12:21	CWH0121	CH30815
Dimethylphthalate	ND (0.203)		8270D		1	08/09/13 12:21	CWH0121	CH30815
Di-n-butylphthalate	ND (0.203)		8270D		1	08/09/13 12:21	CWH0121	CH30815
Di-n-octylphthalate	ND (0.203)		8270D		1	08/09/13 12:21	CWH0121	CH30815
Fluoranthene	ND (0.203)		8270D		1	08/09/13 12:21	CWH0121	CH30815
Fluorene	ND (0.203)		8270D		1	08/09/13 12:21	CWH0121	CH30815
Hexachlorobenzene	ND (0.203)		8270D		1	08/09/13 12:21	CWH0121	CH30815
Hexachlorocyclopentadiene	ND (1.02)		8270D		1	08/09/13 12:21	CWH0121	CH30815
Indeno(1,2,3-cd)Pyrene	ND (0.203)		8270D		1	08/09/13 12:21	CWH0121	CH30815
Naphthalene	ND (0.203)		8270D		1	08/09/13 12:21	CWH0121	CH30815
Phenanthrene	ND (0.203)		8270D		1	08/09/13 12:21	CWH0121	CH30815

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-126 0.5-2ft
Date Sampled: 08/05/13 10:50
Percent Solids: 81
Initial Volume: 30.4
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308106
ESS Laboratory Sample ID: 1308106-18
Sample Matrix: Solid
Units: mg/kg dry
Analyst: IBM
Prepared: 8/8/13 16:48

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Phenol	ND (0.203)		8270D		1	08/09/13 12:21	CWH0121	CH30815
Pyrene	ND (0.203)		8270D		1	08/09/13 12:21	CWH0121	CH30815

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*70 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*81 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*69 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*75 %*		*30-130*
Surrogate: 2-Fluorophenol	*61 %*		*30-130*
Surrogate: Nitrobenzene-d5	*72 %*		*30-130*
Surrogate: Phenol-d6	*73 %*		*30-130*
Surrogate: p-Terphenyl-d14	*84 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-126 0.5-2ft
Date Sampled: 08/05/13 10:50
Percent Solids: 81
Initial Volume: 15
Final Volume: 0.5
Extraction Method: 3541

ESS Laboratory Work Order: 1308106
ESS Laboratory Sample ID: 1308106-18
Sample Matrix: Solid
Units: mg/kg dry
Analyst: IBM
Prepared: 8/8/13 17:30

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	ND (0.010)		8270D		1	08/11/13 13:03	CWH0139	CH30903
Acenaphthene	ND (0.010)		8270D		1	08/11/13 13:03	CWH0139	CH30903
Acenaphthylene	**0.015** (0.010)		8270D		1	08/11/13 13:03	CWH0139	CH30903
Anthracene	**0.115** (0.010)		8270D		1	08/11/13 13:03	CWH0139	CH30903
Benzo(a)anthracene	**0.265** (0.010)		8270D		1	08/11/13 13:03	CWH0139	CH30903
Benzo(a)pyrene	**0.193** (0.010)		8270D		1	08/11/13 13:03	CWH0139	CH30903
Benzo(b)fluoranthene	**0.209** (0.010)		8270D		1	08/11/13 13:03	CWH0139	CH30903
Benzo(g,h,i)perylene	**0.091** (0.010)		8270D		1	08/11/13 13:03	CWH0139	CH30903
Benzo(k)fluoranthene	**0.074** (0.010)		8270D		1	08/11/13 13:03	CWH0139	CH30903
Chrysene	**0.209** (0.010)		8270D		1	08/11/13 13:03	CWH0139	CH30903
Dibenzo(a,h)Anthracene	**0.034** (0.010)		8270D		1	08/11/13 13:03	CWH0139	CH30903
Fluoranthene	**0.271** (0.010)		8270D		1	08/11/13 13:03	CWH0139	CH30903
Fluorene	**0.012** (0.010)		8270D		1	08/11/13 13:03	CWH0139	CH30903
Indeno(1,2,3-cd)Pyrene	**0.105** (0.010)		8270D		1	08/11/13 13:03	CWH0139	CH30903
Naphthalene	**0.014** (0.010)		8270D		1	08/11/13 13:03	CWH0139	CH30903
Phenanthrene	**0.067** (0.010)		8270D		1	08/11/13 13:03	CWH0139	CH30903
Pyrene	**0.341** (0.010)		8270D		1	08/11/13 13:03	CWH0139	CH30903

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1,2-Dichlorobenzene-d4	*62 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*71 %*		*30-130*
Surrogate: Nitrobenzene-d5	*69 %*		*30-130*
Surrogate: p-Terphenyl-d14	*96 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-126 0.5-2ft
Date Sampled: 08/05/13 10:50
Percent Solids: 81

ESS Laboratory Work Order: 1308106
ESS Laboratory Sample ID: 1308106-18
Sample Matrix: Solid

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**5470** (500)		TOC-LK		1	SUB	08/14/13 0:00	mg/kg	CH31340

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-126 0.5-2ft
Date Sampled: 08/05/13 10:50
Percent Solids: 81
Initial Volume: 15.2
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1308106
ESS Laboratory Sample ID: 1308106-18
Sample Matrix: Solid
Units: mg/kg dry

Prepared: 8/9/13 15:00

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (30.5)		MADEP-EPH		1	SEP	08/10/13 22:25	CWH0134	CH30919
C19-C36 Aliphatics1	ND (30.5)		MADEP-EPH		1	SEP	08/10/13 22:25	CWH0134	CH30919
C11-C22 Unadjusted Aromatics1	**49.7** (30.5)		EPH8270		1	SEP	08/11/13 10:28	CWH0135	CH30919
C11-C22 Aromatics1,2	**47.7** (30.5)		EPH8270			SEP	08/11/13 10:28		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*80 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*110 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*106 %*		*40-140*
Surrogate: O-Terphenyl	*87 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-126 2-4ft
Date Sampled: 08/05/13 10:50
Percent Solids: 77

ESS Laboratory Work Order: 1308106
ESS Laboratory Sample ID: 1308106-19
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (1.2)		6020A		50	JP	08/10/13 0:27	5.29	100	CH30802
Arsenic	ND (1.2)		6010B		1	SVD	08/09/13 1:37	5.29	100	CH30802
Barium	**9.7** (1.2)		6010B		1	SVD	08/09/13 1:37	5.29	100	CH30802
Beryllium	**0.22** (0.05)		6010B		1	SVD	08/09/13 1:37	5.29	100	CH30802
Cadmium	ND (0.25)		6010B		1	SVD	08/09/13 1:37	5.29	100	CH30802
Chromium	**10.4** (0.5)		6010B		1	SVD	08/09/13 1:37	5.29	100	CH30802
Lead	ND (2.5)		6010B		1	SVD	08/09/13 1:37	5.29	100	CH30802
Mercury	ND (0.019)		7471B		1	KJK	08/09/13 19:04	1.32	40	CH30804
Nickel	**6.4** (1.2)		6010B		1	SVD	08/09/13 1:37	5.29	100	CH30802
Selenium	ND (1.23)		6020A		50	JP	08/10/13 0:27	5.29	100	CH30802
Silver	ND (0.25)		6010B		1	SVD	08/09/13 1:37	5.29	100	CH30802
Thallium	ND (1.23)		6020A		50	JP	08/10/13 0:27	5.29	100	CH30802
Vanadium	**14.3** (0.5)		6010B		1	SVD	08/09/13 1:37	5.29	100	CH30802
Zinc	**18.4** (1.2)		6010B		1	SVD	08/09/13 1:37	5.29	100	CH30802

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-126 2-4ft
Date Sampled: 08/05/13 10:50
Percent Solids: 77
Initial Volume: 19.1
Final Volume: 5
Extraction Method: 3540

ESS Laboratory Work Order: 1308106
ESS Laboratory Sample ID: 1308106-19
Sample Matrix: Solid
Units: mg/kg dry
Analyst: SEP
Prepared: 8/8/13 17:15
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0340)		8082A		1	08/11/13 0:41		CH30839
Aroclor 1221	ND (0.0340)		8082A		1	08/11/13 0:41		CH30839
Aroclor 1232	ND (0.0340)		8082A		1	08/11/13 0:41		CH30839
Aroclor 1242	ND (0.0340)		8082A		1	08/11/13 0:41		CH30839
Aroclor 1248	ND (0.0340)		8082A		1	08/11/13 0:41		CH30839
Aroclor 1254	ND (0.0340)		8082A		1	08/11/13 0:41		CH30839
Aroclor 1260	ND (0.0340)		8082A		1	08/11/13 0:41		CH30839
Aroclor 1262	ND (0.0340)		8082A		1	08/11/13 0:41		CH30839
Aroclor 1268	ND (0.0340)		8082A		1	08/11/13 0:41		CH30839

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*103 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*76 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*74 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*64 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-126 2-4ft
Date Sampled: 08/05/13 10:50
Percent Solids: 77
Initial Volume: 19.8
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308106
ESS Laboratory Sample ID: 1308106-19
Sample Matrix: Solid
Units: mg/kg dry
Analyst: IBM
Prepared: 8/8/13 16:48

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.327)		8270D		1	08/09/13 12:55	CWH0121	CH30815
1,2-Dichlorobenzene	ND (0.327)		8270D		1	08/09/13 12:55	CWH0121	CH30815
1,3-Dichlorobenzene	ND (0.327)		8270D		1	08/09/13 12:55	CWH0121	CH30815
1,4-Dichlorobenzene	ND (0.327)		8270D		1	08/09/13 12:55	CWH0121	CH30815
2-Methylnaphthalene	ND (0.327)		8270D		1	08/09/13 12:55	CWH0121	CH30815
2-Methylphenol	ND (0.327)		8270D		1	08/09/13 12:55	CWH0121	CH30815
Acenaphthene	ND (0.327)		8270D		1	08/09/13 12:55	CWH0121	CH30815
Acenaphthylene	ND (0.327)		8270D		1	08/09/13 12:55	CWH0121	CH30815
Anthracene	ND (0.327)		8270D		1	08/09/13 12:55	CWH0121	CH30815
Benzo(a)anthracene	ND (0.327)		8270D		1	08/09/13 12:55	CWH0121	CH30815
Benzo(a)pyrene	ND (0.164)		8270D		1	08/09/13 12:55	CWH0121	CH30815
Benzo(b)fluoranthene	ND (0.327)		8270D		1	08/09/13 12:55	CWH0121	CH30815
Benzo(g,h,i)perylene	ND (0.327)		8270D		1	08/09/13 12:55	CWH0121	CH30815
Benzo(k)fluoranthene	ND (0.327)		8270D		1	08/09/13 12:55	CWH0121	CH30815
bis(2-Ethylhexyl)phthalate	ND (0.327)		8270D		1	08/09/13 12:55	CWH0121	CH30815
Butylbenzylphthalate	ND (0.327)		8270D		1	08/09/13 12:55	CWH0121	CH30815
Carbazole	ND (0.327)		8270D		1	08/09/13 12:55	CWH0121	CH30815
Chrysene	ND (0.164)		8270D		1	08/09/13 12:55	CWH0121	CH30815
Dibenzo(a,h)Anthracene	ND (0.164)		8270D		1	08/09/13 12:55	CWH0121	CH30815
Dibenzofuran	ND (0.327)		8270D		1	08/09/13 12:55	CWH0121	CH30815
Diethylphthalate	ND (0.327)		8270D		1	08/09/13 12:55	CWH0121	CH30815
Dimethylphthalate	ND (0.327)		8270D		1	08/09/13 12:55	CWH0121	CH30815
Di-n-butylphthalate	ND (0.327)		8270D		1	08/09/13 12:55	CWH0121	CH30815
Di-n-octylphthalate	ND (0.327)		8270D		1	08/09/13 12:55	CWH0121	CH30815
Fluoranthene	ND (0.327)		8270D		1	08/09/13 12:55	CWH0121	CH30815
Fluorene	ND (0.327)		8270D		1	08/09/13 12:55	CWH0121	CH30815
Hexachlorobenzene	ND (0.327)		8270D		1	08/09/13 12:55	CWH0121	CH30815
Hexachlorocyclopentadiene	ND (1.64)		8270D		1	08/09/13 12:55	CWH0121	CH30815
Indeno(1,2,3-cd)Pyrene	ND (0.327)		8270D		1	08/09/13 12:55	CWH0121	CH30815
Naphthalene	ND (0.327)		8270D		1	08/09/13 12:55	CWH0121	CH30815
Phenanthrene	ND (0.327)		8270D		1	08/09/13 12:55	CWH0121	CH30815

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-126 2-4ft
Date Sampled: 08/05/13 10:50
Percent Solids: 77
Initial Volume: 19.8
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308106
ESS Laboratory Sample ID: 1308106-19
Sample Matrix: Solid
Units: mg/kg dry
Analyst: IBM
Prepared: 8/8/13 16:48

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Phenol	ND (0.327)		8270D		1	08/09/13 12:55	CWH0121	CH30815
Pyrene	ND (0.327)		8270D		1	08/09/13 12:55	CWH0121	CH30815

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*79 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*88 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*79 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*82 %*		*30-130*
Surrogate: 2-Fluorophenol	*68 %*		*30-130*
Surrogate: Nitrobenzene-d5	*80 %*		*30-130*
Surrogate: Phenol-d6	*81 %*		*30-130*
Surrogate: p-Terphenyl-d14	*87 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-126 2-4ft
Date Sampled: 08/05/13 10:50
Percent Solids: 77
Initial Volume: 15.1
Final Volume: 0.5
Extraction Method: 3541

ESS Laboratory Work Order: 1308106
ESS Laboratory Sample ID: 1308106-19
Sample Matrix: Solid
Units: mg/kg dry
Analyst: IBM
Prepared: 8/8/13 17:30

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	ND (0.011)		8270D		1	08/11/13 5:34	CWH0138	CH30903
Acenaphthene	ND (0.011)		8270D		1	08/11/13 5:34	CWH0138	CH30903
Acenaphthylene	ND (0.011)		8270D		1	08/11/13 5:34	CWH0138	CH30903
Anthracene	ND (0.011)		8270D		1	08/11/13 5:34	CWH0138	CH30903
Benzo(a)anthracene	ND (0.011)		8270D		1	08/11/13 5:34	CWH0138	CH30903
Benzo(a)pyrene	ND (0.011)		8270D		1	08/11/13 5:34	CWH0138	CH30903
Benzo(b)fluoranthene	ND (0.011)		8270D		1	08/11/13 5:34	CWH0138	CH30903
Benzo(g,h,i)perylene	ND (0.011)		8270D		1	08/11/13 5:34	CWH0138	CH30903
Benzo(k)fluoranthene	ND (0.011)		8270D		1	08/11/13 5:34	CWH0138	CH30903
Chrysene	ND (0.011)		8270D		1	08/11/13 5:34	CWH0138	CH30903
Dibenzo(a,h)Anthracene	ND (0.011)		8270D		1	08/11/13 5:34	CWH0138	CH30903
Fluoranthene	ND (0.011)		8270D		1	08/11/13 5:34	CWH0138	CH30903
Fluorene	ND (0.011)		8270D		1	08/11/13 5:34	CWH0138	CH30903
Indeno(1,2,3-cd)Pyrene	ND (0.011)		8270D		1	08/11/13 5:34	CWH0138	CH30903
Naphthalene	ND (0.011)		8270D		1	08/11/13 5:34	CWH0138	CH30903
Phenanthrene	ND (0.011)		8270D		1	08/11/13 5:34	CWH0138	CH30903
Pyrene	ND (0.011)		8270D		1	08/11/13 5:34	CWH0138	CH30903

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*66 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*65 %*		*30-130*
Surrogate: Nitrobenzene-d5	*73 %*		*30-130*
Surrogate: p-Terphenyl-d14	*91 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-126 2-4ft
Date Sampled: 08/05/13 10:50
Percent Solids: 77

ESS Laboratory Work Order: 1308106
ESS Laboratory Sample ID: 1308106-19
Sample Matrix: Solid

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**6580** (500)		TOC-LK		1	SUB	08/14/13 0:00	mg/kg	CH31340

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-126 2-4ft
Date Sampled: 08/05/13 10:50
Percent Solids: 77
Initial Volume: 15.1
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1308106
ESS Laboratory Sample ID: 1308106-19
Sample Matrix: Solid
Units: mg/kg dry

Prepared: 8/9/13 15:00

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (32.2)		MADEP-EPH		1	SEP	08/10/13 23:15	CWH0134	CH30919
C19-C36 Aliphatics1	ND (32.2)		MADEP-EPH		1	SEP	08/10/13 23:15	CWH0134	CH30919
C11-C22 Unadjusted Aromatics1	ND (32.2)		EPH8270		1	SEP	08/11/13 4:59	CWH0135	CH30919
C11-C22 Aromatics1,2	ND (32.2)		EPH8270			SEP	08/11/13 4:59		[CALC]

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1-Chlorooctadecane	*80 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*106 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*102 %*		*40-140*
Surrogate: O-Terphenyl	*84 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-127 0-0.5ft
Date Sampled: 08/05/13 10:35
Percent Solids: 63

ESS Laboratory Work Order: 1308106
ESS Laboratory Sample ID: 1308106-20
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	**2.3** (1.6)		6020A		50	JP	08/10/13 0:33	5.06	100	CH30802
Arsenic	**94.7** (1.6)		6010B		1	SVD	08/09/13 1:43	5.06	100	CH30802
Barium	**89.4** (1.6)		6010B		1	SVD	08/09/13 1:43	5.06	100	CH30802
Beryllium	**0.34** (0.07)		6010B		1	SVD	08/09/13 1:43	5.06	100	CH30802
Cadmium	**1.20** (0.32)		6010B		1	SVD	08/09/13 1:43	5.06	100	CH30802
Chromium	**32.0** (0.6)		6010B		1	SVD	08/09/13 1:43	5.06	100	CH30802
Lead	**369** (3.1)		6010B		1	SVD	08/09/13 1:43	5.06	100	CH30802
Mercury	**0.876** (0.101)		7471B		5	KJK	08/09/13 17:53	1.55	40	CH30804
Nickel	**9.5** (1.6)		6010B		1	SVD	08/09/13 1:43	5.06	100	CH30802
Selenium	**1.91** (1.58)		6020A		50	JP	08/10/13 0:33	5.06	100	CH30802
Silver	**1.94** (0.32)		6010B		1	SVD	08/09/13 1:43	5.06	100	CH30802
Thallium	ND (1.58)		6020A		50	JP	08/10/13 0:33	5.06	100	CH30802
Vanadium	**56.6** (0.6)		6010B		1	SVD	08/09/13 1:43	5.06	100	CH30802
Zinc	**217** (1.6)		6010B		1	SVD	08/09/13 1:43	5.06	100	CH30802

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-127 0-0.5ft
Date Sampled: 08/05/13 10:35
Percent Solids: 63

ESS Laboratory Work Order: 1308106
ESS Laboratory Sample ID: 1308106-20
Sample Matrix: Solid

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**19000** (500)		TOC-LK		1	SUB	08/14/13 0:00	mg/kg	CH31340

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308106

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Total Metals Solid										
Batch CH30802 - 3050B										
Blank										
Antimony	ND	2.5	mg/kg wet							
Arsenic	ND	2.5	mg/kg wet							
Barium	ND	2.5	mg/kg wet							
Beryllium	ND	0.10	mg/kg wet							
Cadmium	ND	0.50	mg/kg wet							
Chromium	ND	1.0	mg/kg wet							
Lead	ND	5.0	mg/kg wet							
Nickel	ND	2.5	mg/kg wet							
Selenium	ND	2.51	mg/kg wet							
Silver	ND	0.50	mg/kg wet							
Thallium	ND	2.51	mg/kg wet							
Vanadium	ND	1.0	mg/kg wet							
Zinc	ND	2.5	mg/kg wet							
LCS										
Antimony	102	8.4	mg/kg wet	106.0		96	80-120			
Arsenic	154	8.3	mg/kg wet	182.0		85	80-120			
Barium	125	8.3	mg/kg wet	143.0		87	80-120			
Beryllium	90.0	0.35	mg/kg wet	98.30		92	80-120			
Cadmium	53.8	1.68	mg/kg wet	60.40		89	80-120			
Chromium	112	3.3	mg/kg wet	125.0		90	80-120			
Lead	117	16.7	mg/kg wet	136.0		86	80-120			
Nickel	116	8.3	mg/kg wet	128.0		91	80-120			
Selenium	87.5	8.38	mg/kg wet	85.90		102	80-120			
Silver	58.9	1.68	mg/kg wet	61.30		96	80-120			
Thallium	149	8.38	mg/kg wet	144.0		103	80-120			
Vanadium	97.0	3.3	mg/kg wet	104.0		93	80-120			
Zinc	178	8.3	mg/kg wet	204.0		87	80-120			
LCS Dup										
Antimony	98.6	8.4	mg/kg wet	106.0		93	80-120	3	20	
Arsenic	157	8.3	mg/kg wet	182.0		86	80-120	2	20	
Barium	127	8.3	mg/kg wet	143.0		89	80-120	1	20	
Beryllium	91.5	0.35	mg/kg wet	98.30		93	80-120	2	20	
Cadmium	55.6	1.68	mg/kg wet	60.40		92	80-120	3	20	
Chromium	116	3.3	mg/kg wet	125.0		93	80-120	3	20	
Lead	122	16.7	mg/kg wet	136.0		89	80-120	4	20	
Nickel	121	8.3	mg/kg wet	128.0		95	80-120	4	20	
Selenium	86.1	8.38	mg/kg wet	85.90		100	80-120	2	20	
Silver	59.6	1.68	mg/kg wet	61.30		97	80-120	1	20	
Thallium	144	8.38	mg/kg wet	144.0		100	80-120	3	20	
Vanadium	97.7	3.3	mg/kg wet	104.0		94	80-120	0.7	20	
Zinc	180	8.3	mg/kg wet	204.0		88	80-120	1	20	
Batch CH30804 - 7471A										
Blank										

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308106

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Total Metals Solid										
Batch CH30804 - 7471A										
Mercury	ND	0.033	mg/kg wet							
LCS										
Mercury	10.1	0.825	mg/kg wet	9.250		109	80-120			
LCS Dup										
Mercury	9.49	0.825	mg/kg wet	9.250		103	80-120	6	20	
8082A Polychlorinated Biphenyls (PCB)										
Batch CH30812 - 3540										
Blank										
Aroclor 1016	ND	0.0250	mg/kg wet							
Aroclor 1016 (1)	ND	0.0250	mg/kg wet							
Aroclor 1016 (1) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1016 (2)	ND	0.0250	mg/kg wet							
Aroclor 1016 (2) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1016 (3)	ND	0.0250	mg/kg wet							
Aroclor 1016 (3) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1016 (4)	ND	0.0250	mg/kg wet							
Aroclor 1016 (4) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1016 (5)	ND	0.0250	mg/kg wet							
Aroclor 1016 (5) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1221	ND	0.0250	mg/kg wet							
Aroclor 1221 (1)	ND	0.0250	mg/kg wet							
Aroclor 1221 (1) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1221 (2)	ND	0.0250	mg/kg wet							
Aroclor 1221 (2) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1221 (3)	ND	0.0250	mg/kg wet							
Aroclor 1221 (3) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1221 (4)	ND	0.0250	mg/kg wet							
Aroclor 1221 (4) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1221 (5)	ND	0.0250	mg/kg wet							
Aroclor 1221 (5) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1232	ND	0.0250	mg/kg wet							
Aroclor 1232 (1)	ND	0.0250	mg/kg wet							
Aroclor 1232 (1) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1232 (2)	ND	0.0250	mg/kg wet							
Aroclor 1232 (2) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1232 (3)	ND	0.0250	mg/kg wet							
Aroclor 1232 (3) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1232 (4)	ND	0.0250	mg/kg wet							
Aroclor 1232 (4) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1232 (5)	ND	0.0250	mg/kg wet							
Aroclor 1232 (5) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1242	ND	0.0250	mg/kg wet							
Aroclor 1242 (1)	ND	0.0250	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308106

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CH30812 - 3540										
Aroclor 1242 (1) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1242 (2)	ND	0.0250	mg/kg wet							
Aroclor 1242 (2) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1242 (3)	ND	0.0250	mg/kg wet							
Aroclor 1242 (3) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1242 (4)	ND	0.0250	mg/kg wet							
Aroclor 1242 (4) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1242 (5)	ND	0.0250	mg/kg wet							
Aroclor 1242 (5) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1248	ND	0.0250	mg/kg wet							
Aroclor 1248 (1)	ND	0.0250	mg/kg wet							
Aroclor 1248 (1) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1248 (2)	ND	0.0250	mg/kg wet							
Aroclor 1248 (2) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1248 (3)	ND	0.0250	mg/kg wet							
Aroclor 1248 (3) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1248 (4)	ND	0.0250	mg/kg wet							
Aroclor 1248 (4) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1248 (5)	ND	0.0250	mg/kg wet							
Aroclor 1248 (5) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1254	ND	0.0250	mg/kg wet							
Aroclor 1254 (1)	ND	0.0250	mg/kg wet							
Aroclor 1254 (1) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1254 (2)	ND	0.0250	mg/kg wet							
Aroclor 1254 (2) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1254 (3)	ND	0.0250	mg/kg wet							
Aroclor 1254 (3) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1254 (4)	ND	0.0250	mg/kg wet							
Aroclor 1254 (4) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1254 (5)	ND	0.0250	mg/kg wet							
Aroclor 1254 (5) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1260	ND	0.0250	mg/kg wet							
Aroclor 1260 (1)	ND	0.0250	mg/kg wet							
Aroclor 1260 (1) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1260 (2)	ND	0.0250	mg/kg wet							
Aroclor 1260 (2) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1260 (3)	ND	0.0250	mg/kg wet							
Aroclor 1260 (3) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1260 (4)	ND	0.0250	mg/kg wet							
Aroclor 1260 (4) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1260 (5)	ND	0.0250	mg/kg wet							
Aroclor 1260 (5) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1262	ND	0.0250	mg/kg wet							
Aroclor 1262 (1)	ND	0.0250	mg/kg wet							
Aroclor 1262 (1) [2C]	ND	0.0250	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308106

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CH30812 - 3540										
Aroclor 1262 (2)	ND	0.0250	mg/kg wet							
Aroclor 1262 (2) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1262 (3)	ND	0.0250	mg/kg wet							
Aroclor 1262 (3) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1262 (4)	ND	0.0250	mg/kg wet							
Aroclor 1262 (4) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1262 (5)	ND	0.0250	mg/kg wet							
Aroclor 1262 (5) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1268	ND	0.0250	mg/kg wet							
Aroclor 1268 (1)	ND	0.0250	mg/kg wet							
Aroclor 1268 (1) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1268 (2)	ND	0.0250	mg/kg wet							
Aroclor 1268 (2) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1268 (3)	ND	0.0250	mg/kg wet							
Aroclor 1268 (3) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1268 (4)	ND	0.0250	mg/kg wet							
Aroclor 1268 (4) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1268 (5)	ND	0.0250	mg/kg wet							
Aroclor 1268 (5) [2C]	ND	0.0250	mg/kg wet							
Surrogate: Decachlorobiphenyl	*0.0130*		mg/kg wet	*0.01250*		*104*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.00992*		mg/kg wet	*0.01250*		*79*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0104*		mg/kg wet	*0.01250*		*83*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.00936*		mg/kg wet	*0.01250*		*75*	*30-150*			
LCS										
Aroclor 1016	0.260	0.0250	mg/kg wet	0.2500		104	40-140			
Aroclor 1260	0.263	0.0250	mg/kg wet	0.2500		105	40-140			
Surrogate: Decachlorobiphenyl	*0.0135*		mg/kg wet	*0.01250*		*108*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0104*		mg/kg wet	*0.01250*		*83*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0112*		mg/kg wet	*0.01250*		*90*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.00989*		mg/kg wet	*0.01250*		*79*	*30-150*			
LCS Dup										
Aroclor 1016	0.261	0.0250	mg/kg wet	0.2500		104	40-140	0.5	30	
Aroclor 1260	0.268	0.0250	mg/kg wet	0.2500		107	40-140	2	30	
Surrogate: Decachlorobiphenyl	*0.0139*		mg/kg wet	*0.01250*		*111*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0106*		mg/kg wet	*0.01250*		*85*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0115*		mg/kg wet	*0.01250*		*92*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.00996*		mg/kg wet	*0.01250*		*80*	*30-150*			
Batch CH30839 - 3540										
Blank										
Aroclor 1016	ND	0.0250	mg/kg wet							
Aroclor 1016 (1)	ND	0.0250	mg/kg wet							
Aroclor 1016 (1) [2C]	ND	0.0250	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308106

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CH30839 - 3540										
Aroclor 1016 (2)	ND	0.0250	mg/kg wet							
Aroclor 1016 (2) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1016 (3)	ND	0.0250	mg/kg wet							
Aroclor 1016 (3) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1016 (4)	ND	0.0250	mg/kg wet							
Aroclor 1016 (4) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1016 (5)	ND	0.0250	mg/kg wet							
Aroclor 1016 (5) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1221	ND	0.0250	mg/kg wet							
Aroclor 1221 (1)	ND	0.0250	mg/kg wet							
Aroclor 1221 (1) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1221 (2)	ND	0.0250	mg/kg wet							
Aroclor 1221 (2) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1221 (3)	ND	0.0250	mg/kg wet							
Aroclor 1221 (3) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1221 (4)	ND	0.0250	mg/kg wet							
Aroclor 1221 (4) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1221 (5)	ND	0.0250	mg/kg wet							
Aroclor 1221 (5) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1232	ND	0.0250	mg/kg wet							
Aroclor 1232 (1)	ND	0.0250	mg/kg wet							
Aroclor 1232 (1) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1232 (2)	ND	0.0250	mg/kg wet							
Aroclor 1232 (2) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1232 (3)	ND	0.0250	mg/kg wet							
Aroclor 1232 (3) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1232 (4)	ND	0.0250	mg/kg wet							
Aroclor 1232 (4) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1232 (5)	ND	0.0250	mg/kg wet							
Aroclor 1232 (5) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1242	ND	0.0250	mg/kg wet							
Aroclor 1242 (1)	ND	0.0250	mg/kg wet							
Aroclor 1242 (1) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1242 (2)	ND	0.0250	mg/kg wet							
Aroclor 1242 (2) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1242 (3)	ND	0.0250	mg/kg wet							
Aroclor 1242 (3) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1242 (4)	ND	0.0250	mg/kg wet							
Aroclor 1242 (4) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1242 (5)	ND	0.0250	mg/kg wet							
Aroclor 1242 (5) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1248	ND	0.0250	mg/kg wet							
Aroclor 1248 (1)	ND	0.0250	mg/kg wet							
Aroclor 1248 (1) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1248 (2)	ND	0.0250	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308106

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CH30839 - 3540										
Aroclor 1248 (2) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1248 (3)	ND	0.0250	mg/kg wet							
Aroclor 1248 (3) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1248 (4)	ND	0.0250	mg/kg wet							
Aroclor 1248 (4) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1248 (5)	ND	0.0250	mg/kg wet							
Aroclor 1248 (5) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1254	ND	0.0250	mg/kg wet							
Aroclor 1254 (1)	ND	0.0250	mg/kg wet							
Aroclor 1254 (1) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1254 (2)	ND	0.0250	mg/kg wet							
Aroclor 1254 (2) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1254 (3)	ND	0.0250	mg/kg wet							
Aroclor 1254 (3) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1254 (4)	ND	0.0250	mg/kg wet							
Aroclor 1254 (4) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1254 (5)	ND	0.0250	mg/kg wet							
Aroclor 1254 (5) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1260	ND	0.0250	mg/kg wet							
Aroclor 1260 (1)	ND	0.0250	mg/kg wet							
Aroclor 1260 (1) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1260 (2)	ND	0.0250	mg/kg wet							
Aroclor 1260 (2) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1260 (3)	ND	0.0250	mg/kg wet							
Aroclor 1260 (3) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1260 (4)	ND	0.0250	mg/kg wet							
Aroclor 1260 (4) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1260 (5)	ND	0.0250	mg/kg wet							
Aroclor 1260 (5) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1262	ND	0.0250	mg/kg wet							
Aroclor 1262 (1)	ND	0.0250	mg/kg wet							
Aroclor 1262 (1) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1262 (2)	ND	0.0250	mg/kg wet							
Aroclor 1262 (2) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1262 (3)	ND	0.0250	mg/kg wet							
Aroclor 1262 (3) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1262 (4)	ND	0.0250	mg/kg wet							
Aroclor 1262 (4) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1262 (5)	ND	0.0250	mg/kg wet							
Aroclor 1262 (5) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1268	ND	0.0250	mg/kg wet							
Aroclor 1268 (1)	ND	0.0250	mg/kg wet							
Aroclor 1268 (1) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1268 (2)	ND	0.0250	mg/kg wet							
Aroclor 1268 (2) [2C]	ND	0.0250	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308106

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CH30839 - 3540										
Aroclor 1268 (3)	ND	0.0250	mg/kg wet							
Aroclor 1268 (3) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1268 (4)	ND	0.0250	mg/kg wet							
Aroclor 1268 (4) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1268 (5)	ND	0.0250	mg/kg wet							
Aroclor 1268 (5) [2C]	ND	0.0250	mg/kg wet							
Surrogate: Decachlorobiphenyl	*0.0132*		mg/kg wet	*0.01250*		*106*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0101*		mg/kg wet	*0.01250*		*81*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0106*		mg/kg wet	*0.01250*		*85*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.00948*		mg/kg wet	*0.01250*		*76*	*30-150*			
LCS										
Aroclor 1016	0.228	0.0250	mg/kg wet	0.2500		91	40-140			
Aroclor 1260	0.248	0.0250	mg/kg wet	0.2500		99	40-140			
Surrogate: Decachlorobiphenyl	*0.0129*		mg/kg wet	*0.01250*		*103*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.00990*		mg/kg wet	*0.01250*		*79*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.00997*		mg/kg wet	*0.01250*		*80*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.00859*		mg/kg wet	*0.01250*		*69*	*30-150*			
LCS Dup										
Aroclor 1016	0.255	0.0250	mg/kg wet	0.2500		102	40-140	11	30	
Aroclor 1260	0.253	0.0250	mg/kg wet	0.2500		101	40-140	2	30	
Surrogate: Decachlorobiphenyl	*0.0131*		mg/kg wet	*0.01250*		*105*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0101*		mg/kg wet	*0.01250*		*81*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0108*		mg/kg wet	*0.01250*		*86*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.00949*		mg/kg wet	*0.01250*		*76*	*30-150*			
8270D Semi-Volatile Organic Compounds										
Batch CH30815 - 3546										
Blank										
1,2,4-Trichlorobenzene	ND	0.333	mg/kg wet							
1,2-Dichlorobenzene	ND	0.333	mg/kg wet							
1,3-Dichlorobenzene	ND	0.333	mg/kg wet							
1,4-Dichlorobenzene	ND	0.333	mg/kg wet							
2-Methylnaphthalene	ND	0.333	mg/kg wet							
2-Methylphenol	ND	0.333	mg/kg wet							
Acenaphthene	ND	0.333	mg/kg wet							
Acenaphthylene	ND	0.333	mg/kg wet							
Anthracene	ND	0.333	mg/kg wet							
Benzo(a)anthracene	ND	0.333	mg/kg wet							
Benzo(a)pyrene	ND	0.167	mg/kg wet							
Benzo(b)fluoranthene	ND	0.333	mg/kg wet							
Benzo(g,h,i)perylene	ND	0.333	mg/kg wet							
Benzo(k)fluoranthene	ND	0.333	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308106

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D Semi-Volatile Organic Compounds										
Batch CH30815 - 3546										
bis(2-Ethylhexyl)phthalate	ND	0.333	mg/kg wet							
Butylbenzylphthalate	ND	0.333	mg/kg wet							
Carbazole	ND	0.333	mg/kg wet							
Chrysene	ND	0.167	mg/kg wet							
Dibenzo(a,h)Anthracene	ND	0.167	mg/kg wet							
Dibenzofuran	ND	0.333	mg/kg wet							
Diethylphthalate	ND	0.333	mg/kg wet							
Dimethylphthalate	ND	0.333	mg/kg wet							
Di-n-butylphthalate	ND	0.333	mg/kg wet							
Di-n-octylphthalate	ND	0.333	mg/kg wet							
Fluoranthene	ND	0.333	mg/kg wet							
Fluorene	ND	0.333	mg/kg wet							
Hexachlorobenzene	ND	0.333	mg/kg wet							
Hexachlorocyclopentadiene	ND	1.67	mg/kg wet							
Indeno(1,2,3-cd)Pyrene	ND	0.333	mg/kg wet							
Naphthalene	ND	0.333	mg/kg wet							
Phenanthrene	ND	0.333	mg/kg wet							
Phenol	ND	0.333	mg/kg wet							
Pyrene	ND	0.333	mg/kg wet							
Surrogate: 1,2-Dichlorobenzene-d4	*2.36*		mg/kg wet	*3.333*		*71*	*30-130*			
Surrogate: 2,4,6-Tribromophenol	*3.81*		mg/kg wet	*5.000*		*76*	*30-130*			
Surrogate: 2-Chlorophenol-d4	*3.78*		mg/kg wet	*5.000*		*76*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*2.38*		mg/kg wet	*3.333*		*72*	*30-130*			
Surrogate: 2-Fluorophenol	*3.53*		mg/kg wet	*5.000*		*71*	*30-130*			
Surrogate: Nitrobenzene-d5	*2.35*		mg/kg wet	*3.333*		*71*	*30-130*			
Surrogate: Phenol-d6	*3.76*		mg/kg wet	*5.000*		*75*	*30-130*			
Surrogate: p-Terphenyl-d14	*3.51*		mg/kg wet	*3.333*		*105*	*30-130*			
LCS										
1,2,4-Trichlorobenzene	2.16	0.333	mg/kg wet	3.333		65	40-140			
1,2-Dichlorobenzene	2.07	0.333	mg/kg wet	3.333		62	40-140			
1,3-Dichlorobenzene	2.06	0.333	mg/kg wet	3.333		62	40-140			
1,4-Dichlorobenzene	2.08	0.333	mg/kg wet	3.333		62	40-140			
2-Methylnaphthalene	2.32	0.333	mg/kg wet	3.333		70	40-140			
2-Methylphenol	2.14	0.333	mg/kg wet	3.333		64	30-130			
Acenaphthene	2.58	0.333	mg/kg wet	3.333		77	40-140			
Acenaphthylene	2.45	0.333	mg/kg wet	3.333		74	40-140			
Anthracene	3.03	0.333	mg/kg wet	3.333		91	40-140			
Benzo(a)anthracene	2.81	0.333	mg/kg wet	3.333		84	40-140			
Benzo(a)pyrene	2.69	0.167	mg/kg wet	3.333		81	40-140			
Benzo(b)fluoranthene	3.15	0.333	mg/kg wet	3.333		95	40-140			
Benzo(g,h,i)perylene	3.08	0.333	mg/kg wet	3.333		92	40-140			
Benzo(k)fluoranthene	3.04	0.333	mg/kg wet	3.333		91	40-140			
bis(2-Ethylhexyl)phthalate	3.18	0.333	mg/kg wet	3.333		95	40-140			
Butylbenzylphthalate	3.15	0.333	mg/kg wet	3.333		95	40-140			
Carbazole	3.07	0.333	mg/kg wet	3.333		92	40-140			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308106

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D Semi-Volatile Organic Compounds										
Batch CH30815 - 3546										
Chrysene	2.94	0.167	mg/kg wet	3.333		88	40-140			
Dibenzo(a,h)Anthracene	3.54	0.167	mg/kg wet	3.333		106	40-140			
Dibenzofuran	2.62	0.333	mg/kg wet	3.333		78	40-140			
Diethylphthalate	2.88	0.333	mg/kg wet	3.333		86	40-140			
Dimethylphthalate	2.75	0.333	mg/kg wet	3.333		82	40-140			
Di-n-butylphthalate	3.22	0.333	mg/kg wet	3.333		97	40-140			
Di-n-octylphthalate	2.92	0.333	mg/kg wet	3.333		88	40-140			
Fluoranthene	3.10	0.333	mg/kg wet	3.333		93	40-140			
Fluorene	2.78	0.333	mg/kg wet	3.333		83	40-140			
Hexachlorobenzene	2.80	0.333	mg/kg wet	3.333		84	40-140			
Hexachlorocyclopentadiene	1.58	1.67	mg/kg wet	3.333		47	40-140			
Indeno(1,2,3-cd)Pyrene	2.98	0.333	mg/kg wet	3.333		89	40-140			
Naphthalene	2.28	0.333	mg/kg wet	3.333		68	40-140			
Phenanthrene	3.04	0.333	mg/kg wet	3.333		91	40-140			
Phenol	2.11	0.333	mg/kg wet	3.333		63	30-130			
Pyrene	3.05	0.333	mg/kg wet	3.333		92	40-140			
Surrogate: 1,2-Dichlorobenzene-d4	*2.14*		mg/kg wet	*3.333*		*64*	*30-130*			
Surrogate: 2,4,6-Tribromophenol	*4.28*		mg/kg wet	*5.000*		*86*	*30-130*			
Surrogate: 2-Chlorophenol-d4	*3.34*		mg/kg wet	*5.000*		*67*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*2.48*		mg/kg wet	*3.333*		*74*	*30-130*			
Surrogate: 2-Fluorophenol	*3.21*		mg/kg wet	*5.000*		*64*	*30-130*			
Surrogate: Nitrobenzene-d5	*2.28*		mg/kg wet	*3.333*		*69*	*30-130*			
Surrogate: Phenol-d6	*3.31*		mg/kg wet	*5.000*		*66*	*30-130*			
Surrogate: p-Terphenyl-d14	*2.84*		mg/kg wet	*3.333*		*85*	*30-130*			
LCS Dup										
1,2,4-Trichlorobenzene	2.17	0.333	mg/kg wet	3.333		65	40-140	0.7	30	
1,2-Dichlorobenzene	2.16	0.333	mg/kg wet	3.333		65	40-140	4	30	
1,3-Dichlorobenzene	2.13	0.333	mg/kg wet	3.333		64	40-140	3	30	
1,4-Dichlorobenzene	2.18	0.333	mg/kg wet	3.333		65	40-140	5	30	
2-Methylnaphthalene	2.37	0.333	mg/kg wet	3.333		71	40-140	2	30	
2-Methylphenol	2.22	0.333	mg/kg wet	3.333		67	30-130	4	30	
Acenaphthene	2.71	0.333	mg/kg wet	3.333		81	40-140	5	30	
Acenaphthylene	2.57	0.333	mg/kg wet	3.333		77	40-140	5	30	
Anthracene	3.14	0.333	mg/kg wet	3.333		94	40-140	4	30	
Benzo(a)anthracene	3.10	0.333	mg/kg wet	3.333		93	40-140	10	30	
Benzo(a)pyrene	2.73	0.167	mg/kg wet	3.333		82	40-140	2	30	
Benzo(b)fluoranthene	3.25	0.333	mg/kg wet	3.333		97	40-140	3	30	
Benzo(g,h,i)perylene	3.21	0.333	mg/kg wet	3.333		96	40-140	4	30	
Benzo(k)fluoranthene	3.20	0.333	mg/kg wet	3.333		96	40-140	5	30	
bis(2-Ethylhexyl)phthalate	3.26	0.333	mg/kg wet	3.333		98	40-140	2	30	
Butylbenzylphthalate	3.26	0.333	mg/kg wet	3.333		98	40-140	3	30	
Carbazole	3.18	0.333	mg/kg wet	3.333		95	40-140	3	30	
Chrysene	3.04	0.167	mg/kg wet	3.333		91	40-140	3	30	
Dibenzo(a,h)Anthracene	3.68	0.167	mg/kg wet	3.333		110	40-140	4	30	
Dibenzofuran	2.73	0.333	mg/kg wet	3.333		82	40-140	4	30	

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308106

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D Semi-Volatile Organic Compounds										
Batch CH30815 - 3546										
Diethylphthalate	2.96	0.333	mg/kg wet	3.333		89	40-140	3	30	
Dimethylphthalate	2.86	0.333	mg/kg wet	3.333		86	40-140	4	30	
Di-n-butylphthalate	3.30	0.333	mg/kg wet	3.333		99	40-140	2	30	
Di-n-octylphthalate	3.01	0.333	mg/kg wet	3.333		90	40-140	3	30	
Fluoranthene	3.21	0.333	mg/kg wet	3.333		96	40-140	4	30	
Fluorene	2.90	0.333	mg/kg wet	3.333		87	40-140	4	30	
Hexachlorobenzene	2.95	0.333	mg/kg wet	3.333		88	40-140	5	30	
Hexachlorocyclopentadiene	1.70	1.67	mg/kg wet	3.333		51	40-140	7	30	
Indeno(1,2,3-cd)Pyrene	3.14	0.333	mg/kg wet	3.333		94	40-140	5	30	
Naphthalene	2.30	0.333	mg/kg wet	3.333		69	40-140	0.7	30	
Phenanthrene	3.14	0.333	mg/kg wet	3.333		94	40-140	3	30	
Phenol	2.18	0.333	mg/kg wet	3.333		65	30-130	3	30	
Pyrene	3.16	0.333	mg/kg wet	3.333		95	40-140	3	30	
Surrogate: 1,2-Dichlorobenzene-d4	*2.17*		mg/kg wet	*3.333*		*65*	*30-130*			
Surrogate: 2,4,6-Tribromophenol	*4.40*		mg/kg wet	*5.000*		*88*	*30-130*			
Surrogate: 2-Chlorophenol-d4	*3.37*		mg/kg wet	*5.000*		*67*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*2.59*		mg/kg wet	*3.333*		*78*	*30-130*			
Surrogate: 2-Fluorophenol	*3.23*		mg/kg wet	*5.000*		*65*	*30-130*			
Surrogate: Nitrobenzene-d5	*2.27*		mg/kg wet	*3.333*		*68*	*30-130*			
Surrogate: Phenol-d6	*3.34*		mg/kg wet	*5.000*		*67*	*30-130*			
Surrogate: p-Terphenyl-d14	*2.76*		mg/kg wet	*3.333*		*83*	*30-130*			
8270D(SIM) Polynuclear Aromatic Hydrocarbons										
Batch CH30811 - 3541										
Blank										
2-Methylnaphthalene	ND	0.017	mg/kg wet							
Acenaphthene	ND	0.017	mg/kg wet							
Acenaphthylene	ND	0.017	mg/kg wet							
Anthracene	ND	0.017	mg/kg wet							
Benzo(a)anthracene	ND	0.017	mg/kg wet							
Benzo(a)pyrene	ND	0.017	mg/kg wet							
Benzo(b)fluoranthene	ND	0.017	mg/kg wet							
Benzo(g,h,i)perylene	ND	0.017	mg/kg wet							
Benzo(k)fluoranthene	ND	0.017	mg/kg wet							
Chrysene	ND	0.017	mg/kg wet							
Dibenzo(a,h)Anthracene	ND	0.017	mg/kg wet							
Fluoranthene	ND	0.017	mg/kg wet							
Fluorene	ND	0.017	mg/kg wet							
Indeno(1,2,3-cd)Pyrene	ND	0.017	mg/kg wet							
Naphthalene	ND	0.017	mg/kg wet							
Phenanthrene	ND	0.017	mg/kg wet							
Pyrene	ND	0.017	mg/kg wet							
Surrogate: 1,2-Dichlorobenzene-d4	*0.119*		mg/kg wet	*0.3333*		*36*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*0.125*		mg/kg wet	*0.3333*		*38*	*30-130*			
Surrogate: Nitrobenzene-d5	*0.128*		mg/kg wet	*0.3333*		*38*	*30-130*			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308106

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D(SIM) Polynuclear Aromatic Hydrocarbons										
Batch CH30811 - 3541										
Surrogate: p-Terphenyl-d14	*0.183*		mg/kg wet	*0.3333*		*55*	*30-130*			
LCS										
2-Methylnaphthalene	0.252	0.017	mg/kg wet	0.2667		95	40-140			
Acenaphthene	0.233	0.017	mg/kg wet	0.2667		87	40-140			
Acenaphthylene	0.211	0.017	mg/kg wet	0.2667		79	40-140			
Anthracene	0.254	0.017	mg/kg wet	0.2667		95	40-140			
Benzo(a)anthracene	0.263	0.017	mg/kg wet	0.2667		98	40-140			
Benzo(a)pyrene	0.242	0.017	mg/kg wet	0.2667		91	40-140			
Benzo(b)fluoranthene	0.243	0.017	mg/kg wet	0.2667		91	40-140			
Benzo(g,h,i)perylene	0.281	0.017	mg/kg wet	0.2667		105	40-140			
Benzo(k)fluoranthene	0.243	0.017	mg/kg wet	0.2667		91	40-140			
Chrysene	0.259	0.017	mg/kg wet	0.2667		97	40-140			
Dibenzo(a,h)Anthracene	0.310	0.017	mg/kg wet	0.2667		116	40-140			
Fluoranthene	0.234	0.017	mg/kg wet	0.2667		88	40-140			
Fluorene	0.243	0.017	mg/kg wet	0.2667		91	40-140			
Indeno(1,2,3-cd)Pyrene	0.290	0.017	mg/kg wet	0.2667		109	40-140			
Naphthalene	0.236	0.017	mg/kg wet	0.2667		88	40-140			
Phenanthrene	0.251	0.017	mg/kg wet	0.2667		94	40-140			
Pyrene	0.260	0.017	mg/kg wet	0.2667		97	40-140			
Surrogate: 1,2-Dichlorobenzene-d4	*0.240*		mg/kg wet	*0.3333*		*72*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*0.233*		mg/kg wet	*0.3333*		*70*	*30-130*			
Surrogate: Nitrobenzene-d5	*0.246*		mg/kg wet	*0.3333*		*74*	*30-130*			
Surrogate: p-Terphenyl-d14	*0.322*		mg/kg wet	*0.3333*		*97*	*30-130*			
LCS Dup										
2-Methylnaphthalene	0.206	0.017	mg/kg wet	0.2667		77	40-140	20	30	
Acenaphthene	0.199	0.017	mg/kg wet	0.2667		74	40-140	16	30	
Acenaphthylene	0.177	0.017	mg/kg wet	0.2667		66	40-140	17	30	
Anthracene	0.217	0.017	mg/kg wet	0.2667		81	40-140	16	30	
Benzo(a)anthracene	0.244	0.017	mg/kg wet	0.2667		91	40-140	7	30	
Benzo(a)pyrene	0.226	0.017	mg/kg wet	0.2667		85	40-140	7	30	
Benzo(b)fluoranthene	0.238	0.017	mg/kg wet	0.2667		89	40-140	2	30	
Benzo(g,h,i)perylene	0.260	0.017	mg/kg wet	0.2667		97	40-140	8	30	
Benzo(k)fluoranthene	0.229	0.017	mg/kg wet	0.2667		86	40-140	6	30	
Chrysene	0.238	0.017	mg/kg wet	0.2667		89	40-140	8	30	
Dibenzo(a,h)Anthracene	0.286	0.017	mg/kg wet	0.2667		107	40-140	8	30	
Fluoranthene	0.211	0.017	mg/kg wet	0.2667		79	40-140	10	30	
Fluorene	0.207	0.017	mg/kg wet	0.2667		78	40-140	16	30	
Indeno(1,2,3-cd)Pyrene	0.272	0.017	mg/kg wet	0.2667		102	40-140	7	30	
Naphthalene	0.190	0.017	mg/kg wet	0.2667		71	40-140	21	30	
Phenanthrene	0.212	0.017	mg/kg wet	0.2667		79	40-140	17	30	
Pyrene	0.235	0.017	mg/kg wet	0.2667		88	40-140	10	30	
Surrogate: 1,2-Dichlorobenzene-d4	*0.181*		mg/kg wet	*0.3333*		*54*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*0.186*		mg/kg wet	*0.3333*		*56*	*30-130*			
Surrogate: Nitrobenzene-d5	*0.189*		mg/kg wet	*0.3333*		*57*	*30-130*			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308106

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D(SIM) Polynuclear Aromatic Hydrocarbons										
Batch CH30811 - 3541										
Surrogate: p-Terphenyl-d14	*0.283*		mg/kg wet	*0.3333*		*85*	*30-130*			
Batch CH30903 - 3541										
Blank										
2-Methylnaphthalene	ND	0.012	mg/kg wet							
Acenaphthene	ND	0.012	mg/kg wet							
Acenaphthylene	ND	0.012	mg/kg wet							
Anthracene	ND	0.012	mg/kg wet							
Benzo(a)anthracene	ND	0.012	mg/kg wet							
Benzo(a)pyrene	ND	0.012	mg/kg wet							
Benzo(b)fluoranthene	ND	0.012	mg/kg wet							
Benzo(g,h,i)perylene	ND	0.012	mg/kg wet							
Benzo(k)fluoranthene	ND	0.012	mg/kg wet							
Chrysene	ND	0.012	mg/kg wet							
Dibenzo(a,h)Anthracene	ND	0.012	mg/kg wet							
Fluoranthene	ND	0.012	mg/kg wet							
Fluorene	ND	0.012	mg/kg wet							
Indeno(1,2,3-cd)Pyrene	ND	0.012	mg/kg wet							
Naphthalene	ND	0.012	mg/kg wet							
Phenanthrene	ND	0.012	mg/kg wet							
Pyrene	ND	0.012	mg/kg wet							
Surrogate: 1,2-Dichlorobenzene-d4	*0.150*		mg/kg wet	*0.2500*		*60*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*0.148*		mg/kg wet	*0.2500*		*59*	*30-130*			
Surrogate: Nitrobenzene-d5	*0.163*		mg/kg wet	*0.2500*		*65*	*30-130*			
Surrogate: p-Terphenyl-d14	*0.214*		mg/kg wet	*0.2500*		*86*	*30-130*			
LCS										
2-Methylnaphthalene	0.154	0.012	mg/kg wet	0.2000		77	40-140			
Acenaphthene	0.146	0.012	mg/kg wet	0.2000		73	40-140			
Acenaphthylene	0.132	0.012	mg/kg wet	0.2000		66	40-140			
Anthracene	0.160	0.012	mg/kg wet	0.2000		80	40-140			
Benzo(a)anthracene	0.162	0.012	mg/kg wet	0.2000		81	40-140			
Benzo(a)pyrene	0.147	0.012	mg/kg wet	0.2000		74	40-140			
Benzo(b)fluoranthene	0.152	0.012	mg/kg wet	0.2000		76	40-140			
Benzo(g,h,i)perylene	0.136	0.012	mg/kg wet	0.2000		68	40-140			
Benzo(k)fluoranthene	0.160	0.012	mg/kg wet	0.2000		80	40-140			
Chrysene	0.154	0.012	mg/kg wet	0.2000		77	40-140			
Dibenzo(a,h)Anthracene	0.170	0.012	mg/kg wet	0.2000		85	40-140			
Fluoranthene	0.149	0.012	mg/kg wet	0.2000		74	40-140			
Fluorene	0.149	0.012	mg/kg wet	0.2000		74	40-140			
Indeno(1,2,3-cd)Pyrene	0.150	0.012	mg/kg wet	0.2000		75	40-140			
Naphthalene	0.132	0.012	mg/kg wet	0.2000		66	40-140			
Phenanthrene	0.158	0.012	mg/kg wet	0.2000		79	40-140			
Pyrene	0.158	0.012	mg/kg wet	0.2000		79	40-140			
Surrogate: 1,2-Dichlorobenzene-d4	*0.154*		mg/kg wet	*0.2500*		*62*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*0.168*		mg/kg wet	*0.2500*		*67*	*30-130*			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308106

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D(SIM) Polynuclear Aromatic Hydrocarbons										
Batch CH30903 - 3541										
Surrogate: Nitrobenzene-d5	*0.168*		mg/kg wet	*0.2500*		*67*	*30-130*			
Surrogate: p-Terphenyl-d14	*0.240*		mg/kg wet	*0.2500*		*96*	*30-130*			
LCS Dup										
2-Methylnaphthalene	0.180	0.012	mg/kg wet	0.2000		90	40-140	16	30	
Acenaphthene	0.164	0.012	mg/kg wet	0.2000		82	40-140	12	30	
Acenaphthylene	0.158	0.012	mg/kg wet	0.2000		79	40-140	18	30	
Anthracene	0.171	0.012	mg/kg wet	0.2000		86	40-140	7	30	
Benzo(a)anthracene	0.169	0.012	mg/kg wet	0.2000		84	40-140	4	30	
Benzo(a)pyrene	0.157	0.012	mg/kg wet	0.2000		78	40-140	6	30	
Benzo(b)fluoranthene	0.160	0.012	mg/kg wet	0.2000		80	40-140	5	30	
Benzo(g,h,i)perylene	0.143	0.012	mg/kg wet	0.2000		71	40-140	5	30	
Benzo(k)fluoranthene	0.169	0.012	mg/kg wet	0.2000		84	40-140	5	30	
Chrysene	0.167	0.012	mg/kg wet	0.2000		84	40-140	8	30	
Dibenzo(a,h)Anthracene	0.178	0.012	mg/kg wet	0.2000		89	40-140	4	30	
Fluoranthene	0.156	0.012	mg/kg wet	0.2000		78	40-140	4	30	
Fluorene	0.168	0.012	mg/kg wet	0.2000		84	40-140	12	30	
Indeno(1,2,3-cd)Pyrene	0.157	0.012	mg/kg wet	0.2000		78	40-140	5	30	
Naphthalene	0.162	0.012	mg/kg wet	0.2000		81	40-140	21	30	
Phenanthrene	0.169	0.012	mg/kg wet	0.2000		84	40-140	7	30	
Pyrene	0.166	0.012	mg/kg wet	0.2000		83	40-140	5	30	
Surrogate: 1,2-Dichlorobenzene-d4	*0.190*		mg/kg wet	*0.2500*		*76*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*0.186*		mg/kg wet	*0.2500*		*74*	*30-130*			
Surrogate: Nitrobenzene-d5	*0.206*		mg/kg wet	*0.2500*		*83*	*30-130*			
Surrogate: p-Terphenyl-d14	*0.248*		mg/kg wet	*0.2500*		*99*	*30-130*			
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CH30813 - 3546										
Blank										
C19-C36 Aliphatics1	ND	15.0	mg/kg wet							
C9-C18 Aliphatics1	ND	15.0	mg/kg wet							
Decane (C10)	ND	0.5	mg/kg wet							
Docosane (C22)	ND	0.5	mg/kg wet							
Dodecane (C12)	ND	0.5	mg/kg wet							
Eicosane (C20)	ND	0.5	mg/kg wet							
Hexacosane (C26)	ND	0.5	mg/kg wet							
Hexadecane (C16)	ND	0.5	mg/kg wet							
Hexatriacontane (C36)	ND	0.5	mg/kg wet							
Nonadecane (C19)	ND	0.5	mg/kg wet							
Nonane (C9)	ND	0.5	mg/kg wet							
Octacosane (C28)	ND	0.5	mg/kg wet							
Octadecane (C18)	ND	0.5	mg/kg wet							
Tetracosane (C24)	ND	0.5	mg/kg wet							
Tetradecane (C14)	ND	0.5	mg/kg wet							
Triacontane (C30)	ND	0.5	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308106

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CH30813 - 3546										
Surrogate: 1-Chlorooctadecane	*1.52*		mg/kg wet	*2.000*		*76*	*40-140*			
Blank										
2-Methylnaphthalene	ND	0.20	mg/kg wet							
Acenaphthene	ND	0.40	mg/kg wet							
Acenaphthylene	ND	0.20	mg/kg wet							
Anthracene	ND	0.40	mg/kg wet							
Benzo(a)anthracene	ND	0.40	mg/kg wet							
Benzo(a)pyrene	ND	0.40	mg/kg wet							
Benzo(b)fluoranthene	ND	0.40	mg/kg wet							
Benzo(g,h,i)perylene	ND	0.40	mg/kg wet							
Benzo(k)fluoranthene	ND	0.40	mg/kg wet							
C11-C22 Unadjusted Aromatics1	ND	15.0	mg/kg wet							
Chrysene	ND	0.40	mg/kg wet							
Dibenzo(a,h)Anthracene	ND	0.20	mg/kg wet							
Fluoranthene	ND	0.40	mg/kg wet							
Fluorene	ND	0.40	mg/kg wet							
Indeno(1,2,3-cd)Pyrene	ND	0.40	mg/kg wet							
Naphthalene	ND	0.40	mg/kg wet							
Phenanthrene	ND	0.40	mg/kg wet							
Pyrene	ND	0.40	mg/kg wet							
Surrogate: 2-Bromonaphthalene	*2.15*		mg/kg wet	*2.000*		*107*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*2.07*		mg/kg wet	*2.000*		*104*	*40-140*			
Surrogate: O-Terphenyl	*1.75*		mg/kg wet	*2.000*		*88*	*40-140*			
LCS										
C19-C36 Aliphatics1	15.0	15.0	mg/kg wet	16.00		94	40-140			
C9-C18 Aliphatics1	9.2	15.0	mg/kg wet	12.00		76	40-140			
Decane (C10)	1.1	0.5	mg/kg wet	2.000		54	40-140			
Docosane (C22)	1.6	0.5	mg/kg wet	2.000		81	40-140			
Dodecane (C12)	1.2	0.5	mg/kg wet	2.000		59	40-140			
Eicosane (C20)	1.6	0.5	mg/kg wet	2.000		78	40-140			
Hexacosane (C26)	1.6	0.5	mg/kg wet	2.000		80	40-140			
Hexadecane (C16)	1.5	0.5	mg/kg wet	2.000		73	40-140			
Hexatriacontane (C36)	1.6	0.5	mg/kg wet	2.000		82	40-140			
Nonadecane (C19)	1.6	0.5	mg/kg wet	2.000		78	40-140			
Nonane (C9)	0.8	0.5	mg/kg wet	2.000		40	30-140			
Octacosane (C28)	1.6	0.5	mg/kg wet	2.000		80	40-140			
Octadecane (C18)	1.5	0.5	mg/kg wet	2.000		77	40-140			
Tetracosane (C24)	1.6	0.5	mg/kg wet	2.000		79	40-140			
Tetradecane (C14)	1.3	0.5	mg/kg wet	2.000		67	40-140			
Triacontane (C30)	1.6	0.5	mg/kg wet	2.000		81	40-140			
Surrogate: 1-Chlorooctadecane	*1.63*		mg/kg wet	*2.000*		*81*	*40-140*			
LCS										
2-Methylnaphthalene	1.30	0.20	mg/kg wet	2.000		65	40-140			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308106

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CH30813 - 3546										
Acenaphthene	1.33	0.40	mg/kg wet	2.000		66	40-140			
Acenaphthylene	1.33	0.20	mg/kg wet	2.000		67	40-140			
Anthracene	1.35	0.40	mg/kg wet	2.000		68	40-140			
Benzo(a)anthracene	1.37	0.40	mg/kg wet	2.000		68	40-140			
Benzo(a)pyrene	1.68	0.40	mg/kg wet	2.000		84	40-140			
Benzo(b)fluoranthene	1.40	0.40	mg/kg wet	2.000		70	40-140			
Benzo(g,h,i)perylene	1.45	0.40	mg/kg wet	2.000		73	40-140			
Benzo(k)fluoranthene	1.59	0.40	mg/kg wet	2.000		79	40-140			
C11-C22 Unadjusted Aromatics1	27.6	15.0	mg/kg wet	34.00		81	40-140			
Chrysene	1.46	0.40	mg/kg wet	2.000		73	40-140			
Dibenzo(a,h)Anthracene	1.58	0.20	mg/kg wet	2.000		79	40-140			
Fluoranthene	1.43	0.40	mg/kg wet	2.000		71	40-140			
Fluorene	1.39	0.40	mg/kg wet	2.000		69	40-140			
Indeno(1,2,3-cd)Pyrene	1.43	0.40	mg/kg wet	2.000		71	40-140			
Naphthalene	1.19	0.40	mg/kg wet	2.000		59	40-140			
Phenanthrene	1.40	0.40	mg/kg wet	2.000		70	40-140			
Pyrene	1.44	0.40	mg/kg wet	2.000		72	40-140			
Surrogate: 2-Bromonaphthalene	*1.94*		mg/kg wet	*2.000*		*97*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*2.09*		mg/kg wet	*2.000*		*105*	*40-140*			
Surrogate: O-Terphenyl	*1.72*		mg/kg wet	*2.000*		*86*	*40-140*			
LCS										
2-Methylnaphthalene Breakthrough	0.0		%				0-5			
Naphthalene Breakthrough	0.0		%				0-5			
LCS Dup										
C19-C36 Aliphatics1	14.9	15.0	mg/kg wet	16.00		93	40-140	0.6	25	
C9-C18 Aliphatics1	8.6	15.0	mg/kg wet	12.00		72	40-140	6	25	
Decane (C10)	1.0	0.5	mg/kg wet	2.000		51	40-140	6	25	
Docosane (C22)	1.6	0.5	mg/kg wet	2.000		80	40-140	0.7	25	
Dodecane (C12)	1.1	0.5	mg/kg wet	2.000		57	40-140	4	25	
Eicosane (C20)	1.5	0.5	mg/kg wet	2.000		76	40-140	2	25	
Hexacosane (C26)	1.6	0.5	mg/kg wet	2.000		80	40-140	0.2	25	
Hexadecane (C16)	1.4	0.5	mg/kg wet	2.000		68	40-140	7	25	
Hexatriacontane (C36)	1.6	0.5	mg/kg wet	2.000		81	40-140	0.6	25	
Nonadecane (C19)	1.5	0.5	mg/kg wet	2.000		75	40-140	4	25	
Nonane (C9)	0.8	0.5	mg/kg wet	2.000		40	30-140	2	25	
Octacosane (C28)	1.6	0.5	mg/kg wet	2.000		81	40-140	0.2	25	
Octadecane (C18)	1.4	0.5	mg/kg wet	2.000		72	40-140	6	25	
Tetracosane (C24)	1.6	0.5	mg/kg wet	2.000		80	40-140	0.2	25	
Tetradecane (C14)	1.3	0.5	mg/kg wet	2.000		63	40-140	6	25	
Triacontane (C30)	1.6	0.5	mg/kg wet	2.000		80	40-140	0.3	25	
Surrogate: 1-Chlorooctadecane	*1.58*		mg/kg wet	*2.000*		*79*	*40-140*			
LCS Dup										
2-Methylnaphthalene	1.25	0.20	mg/kg wet	2.000		62	40-140	4	20	

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308106

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CH30813 - 3546										
Acenaphthene	1.26	0.40	mg/kg wet	2.000		63	40-140	6	20	
Acenaphthylene	1.30	0.20	mg/kg wet	2.000		65	40-140	3	20	
Anthracene	1.36	0.40	mg/kg wet	2.000		68	40-140	0.4	20	
Benzo(a)anthracene	1.43	0.40	mg/kg wet	2.000		71	40-140	4	20	
Benzo(a)pyrene	1.73	0.40	mg/kg wet	2.000		86	40-140	3	20	
Benzo(b)fluoranthene	1.49	0.40	mg/kg wet	2.000		74	40-140	6	20	
Benzo(g,h,i)perylene	1.50	0.40	mg/kg wet	2.000		75	40-140	3	20	
Benzo(k)fluoranthene	1.63	0.40	mg/kg wet	2.000		82	40-140	3	20	
C11-C22 Unadjusted Aromatics1	27.4	15.0	mg/kg wet	34.00		81	40-140	0.7	25	
Chrysene	1.51	0.40	mg/kg wet	2.000		76	40-140	4	20	
Dibenzo(a,h)Anthracene	1.61	0.20	mg/kg wet	2.000		80	40-140	2	20	
Fluoranthene	1.46	0.40	mg/kg wet	2.000		73	40-140	2	20	
Fluorene	1.38	0.40	mg/kg wet	2.000		69	40-140	0.7	20	
Indeno(1,2,3-cd)Pyrene	1.48	0.40	mg/kg wet	2.000		74	40-140	3	20	
Naphthalene	1.18	0.40	mg/kg wet	2.000		59	40-140	0.7	20	
Phenanthrene	1.35	0.40	mg/kg wet	2.000		67	40-140	4	20	
Pyrene	1.45	0.40	mg/kg wet	2.000		72	40-140	0.7	20	
Surrogate: 2-Bromonaphthalene	*1.86*		mg/kg wet	*2.000*		*93*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*2.00*		mg/kg wet	*2.000*		*100*	*40-140*			
Surrogate: O-Terphenyl	*1.69*		mg/kg wet	*2.000*		*85*	*40-140*			
LCS Dup										
2-Methylnaphthalene Breakthrough	0.0		%				0-5		200	
Naphthalene Breakthrough	0.0		%				0-5		200	
Batch CH30919 - 3546										
Blank										
C19-C36 Aliphatics1	ND	15.0	mg/kg wet							
C9-C18 Aliphatics1	ND	15.0	mg/kg wet							
Decane (C10)	ND	0.5	mg/kg wet							
Docosane (C22)	ND	0.5	mg/kg wet							
Dodecane (C12)	ND	0.5	mg/kg wet							
Eicosane (C20)	ND	0.5	mg/kg wet							
Hexacosane (C26)	ND	0.5	mg/kg wet							
Hexadecane (C16)	ND	0.5	mg/kg wet							
Hexatriacontane (C36)	ND	0.5	mg/kg wet							
Nonadecane (C19)	ND	0.5	mg/kg wet							
Nonane (C9)	ND	0.5	mg/kg wet							
Octacosane (C28)	ND	0.5	mg/kg wet							
Octadecane (C18)	ND	0.5	mg/kg wet							
Tetracosane (C24)	ND	0.5	mg/kg wet							
Tetradecane (C14)	ND	0.5	mg/kg wet							
Triacontane (C30)	ND	0.5	mg/kg wet							
Surrogate: 1-Chlorooctadecane	*1.83*		mg/kg wet	*2.000*		*92*	*40-140*			
Blank										

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308106

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CH30919 - 3546										
2-Methylnaphthalene	ND	0.20	mg/kg wet							
Acenaphthene	ND	0.40	mg/kg wet							
Acenaphthylene	ND	0.20	mg/kg wet							
Anthracene	ND	0.40	mg/kg wet							
Benzo(a)anthracene	ND	0.40	mg/kg wet							
Benzo(a)pyrene	ND	0.40	mg/kg wet							
Benzo(b)fluoranthene	ND	0.40	mg/kg wet							
Benzo(g,h,i)perylene	ND	0.40	mg/kg wet							
Benzo(k)fluoranthene	ND	0.40	mg/kg wet							
C11-C22 Unadjusted Aromatics1	ND	15.0	mg/kg wet							
Chrysene	ND	0.40	mg/kg wet							
Dibenzo(a,h)Anthracene	ND	0.20	mg/kg wet							
Fluoranthene	ND	0.40	mg/kg wet							
Fluorene	ND	0.40	mg/kg wet							
Indeno(1,2,3-cd)Pyrene	ND	0.40	mg/kg wet							
Naphthalene	ND	0.40	mg/kg wet							
Phenanthrene	ND	0.40	mg/kg wet							
Pyrene	ND	0.40	mg/kg wet							
Surrogate: 2-Bromonaphthalene	*2.08*		mg/kg wet	*2.000*		*104*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*2.11*		mg/kg wet	*2.000*		*106*	*40-140*			
Surrogate: O-Terphenyl	*1.71*		mg/kg wet	*2.000*		*86*	*40-140*			
LCS										
C19-C36 Aliphatics1	16.4	15.0	mg/kg wet	16.00		103	40-140			
C9-C18 Aliphatics1	10.1	15.0	mg/kg wet	12.00		84	40-140			
Decane (C10)	1.1	0.5	mg/kg wet	2.000		54	40-140			
Docosane (C22)	1.7	0.5	mg/kg wet	2.000		87	40-140			
Dodecane (C12)	1.2	0.5	mg/kg wet	2.000		60	40-140			
Eicosane (C20)	1.7	0.5	mg/kg wet	2.000		85	40-140			
Hexacosane (C26)	1.7	0.5	mg/kg wet	2.000		85	40-140			
Hexadecane (C16)	1.6	0.5	mg/kg wet	2.000		79	40-140			
Hexatriacontane (C36)	1.6	0.5	mg/kg wet	2.000		82	40-140			
Nonadecane (C19)	1.7	0.5	mg/kg wet	2.000		83	40-140			
Nonane (C9)	0.8	0.5	mg/kg wet	2.000		40	30-140			
Octacosane (C28)	1.7	0.5	mg/kg wet	2.000		85	40-140			
Octadecane (C18)	1.7	0.5	mg/kg wet	2.000		83	40-140			
Tetracosane (C24)	1.7	0.5	mg/kg wet	2.000		85	40-140			
Tetradecane (C14)	1.4	0.5	mg/kg wet	2.000		70	40-140			
Triacontane (C30)	1.7	0.5	mg/kg wet	2.000		84	40-140			
Surrogate: 1-Chlorooctadecane	*1.78*		mg/kg wet	*2.000*		*89*	*40-140*			
LCS										
2-Methylnaphthalene	1.43	0.20	mg/kg wet	2.000		71	40-140			
Acenaphthene	1.41	0.40	mg/kg wet	2.000		70	40-140			
Acenaphthylene	1.44	0.20	mg/kg wet	2.000		72	40-140			
Anthracene	1.50	0.40	mg/kg wet	2.000		75	40-140			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308106

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CH30919 - 3546										
Benzo(a)anthracene	1.49	0.40	mg/kg wet	2.000		75	40-140			
Benzo(a)pyrene	1.79	0.40	mg/kg wet	2.000		90	40-140			
Benzo(b)fluoranthene	1.51	0.40	mg/kg wet	2.000		75	40-140			
Benzo(g,h,i)perylene	1.51	0.40	mg/kg wet	2.000		75	40-140			
Benzo(k)fluoranthene	1.69	0.40	mg/kg wet	2.000		85	40-140			
C11-C22 Unadjusted Aromatics1	29.2	15.0	mg/kg wet	34.00		86	40-140			
Chrysene	1.59	0.40	mg/kg wet	2.000		79	40-140			
Dibenzo(a,h)Anthracene	1.58	0.20	mg/kg wet	2.000		79	40-140			
Fluoranthene	1.58	0.40	mg/kg wet	2.000		79	40-140			
Fluorene	1.53	0.40	mg/kg wet	2.000		76	40-140			
Indeno(1,2,3-cd)Pyrene	1.46	0.40	mg/kg wet	2.000		73	40-140			
Naphthalene	1.28	0.40	mg/kg wet	2.000		64	40-140			
Phenanthrene	1.51	0.40	mg/kg wet	2.000		76	40-140			
Pyrene	1.54	0.40	mg/kg wet	2.000		77	40-140			
Surrogate: 2-Bromonaphthalene	*1.96*		mg/kg wet	*2.000*		*98*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*2.14*		mg/kg wet	*2.000*		*107*	*40-140*			
Surrogate: O-Terphenyl	*1.86*		mg/kg wet	*2.000*		*93*	*40-140*			
LCS										
2-Methylnaphthalene Breakthrough	0.0		%				0-5			
Naphthalene Breakthrough	0.0		%				0-5			
LCS Dup										
C19-C36 Aliphatics1	18.9	15.0	mg/kg wet	16.00		118	40-140	14	25	
C9-C18 Aliphatics1	11.7	15.0	mg/kg wet	12.00		98	40-140	15	25	
Decane (C10)	1.2	0.5	mg/kg wet	2.000		62	40-140	13	25	
Docosane (C22)	1.9	0.5	mg/kg wet	2.000		96	40-140	10	25	
Dodecane (C12)	1.4	0.5	mg/kg wet	2.000		69	40-140	13	25	
Eicosane (C20)	1.9	0.5	mg/kg wet	2.000		94	40-140	10	25	
Hexacosane (C26)	1.9	0.5	mg/kg wet	2.000		94	40-140	10	25	
Hexadecane (C16)	1.7	0.5	mg/kg wet	2.000		87	40-140	10	25	
Hexatriacontane (C36)	1.8	0.5	mg/kg wet	2.000		91	40-140	11	25	
Nonadecane (C19)	1.8	0.5	mg/kg wet	2.000		92	40-140	10	25	
Nonane (C9)	0.9	0.5	mg/kg wet	2.000		46	30-140	14	25	
Octacosane (C28)	1.9	0.5	mg/kg wet	2.000		94	40-140	10	25	
Octadecane (C18)	1.8	0.5	mg/kg wet	2.000		91	40-140	10	25	
Tetracosane (C24)	1.9	0.5	mg/kg wet	2.000		94	40-140	10	25	
Tetradecane (C14)	1.6	0.5	mg/kg wet	2.000		79	40-140	12	25	
Triacontane (C30)	1.9	0.5	mg/kg wet	2.000		93	40-140	10	25	
Surrogate: 1-Chlorooctadecane	*1.82*		mg/kg wet	*2.000*		*91*	*40-140*			
LCS Dup										
2-Methylnaphthalene	1.43	0.20	mg/kg wet	2.000		71	40-140	0.3	20	
Acenaphthene	1.45	0.40	mg/kg wet	2.000		72	40-140	3	20	
Acenaphthylene	1.44	0.20	mg/kg wet	2.000		72	40-140	0.4	20	
Anthracene	1.54	0.40	mg/kg wet	2.000		77	40-140	3	20	

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308106

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CH30919 - 3546										
Benzo(a)anthracene	1.56	0.40	mg/kg wet	2.000		78	40-140	4	20	
Benzo(a)pyrene	1.84	0.40	mg/kg wet	2.000		92	40-140	3	20	
Benzo(b)fluoranthene	1.62	0.40	mg/kg wet	2.000		81	40-140	7	20	
Benzo(g,h,i)perylene	1.56	0.40	mg/kg wet	2.000		78	40-140	4	20	
Benzo(k)fluoranthene	1.77	0.40	mg/kg wet	2.000		88	40-140	4	20	
C11-C22 Unadjusted Aromatics1	31.3	15.0	mg/kg wet	34.00		92	40-140	7	25	
Chrysene	1.66	0.40	mg/kg wet	2.000		83	40-140	4	20	
Dibenzo(a,h)Anthracene	1.64	0.20	mg/kg wet	2.000		82	40-140	4	20	
Fluoranthene	1.62	0.40	mg/kg wet	2.000		81	40-140	3	20	
Fluorene	1.57	0.40	mg/kg wet	2.000		79	40-140	3	20	
Indeno(1,2,3-cd)Pyrene	1.50	0.40	mg/kg wet	2.000		75	40-140	3	20	
Naphthalene	1.33	0.40	mg/kg wet	2.000		67	40-140	4	20	
Phenanthrene	1.56	0.40	mg/kg wet	2.000		78	40-140	3	20	
Pyrene	1.63	0.40	mg/kg wet	2.000		82	40-140	6	20	
Surrogate: 2-Bromonaphthalene	*1.95*		mg/kg wet	*2.000*		*97*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*2.12*		mg/kg wet	*2.000*		*106*	*40-140*			
Surrogate: O-Terphenyl	*1.84*		mg/kg wet	*2.000*		*92*	*40-140*			
LCS Dup										
2-Methylnaphthalene Breakthrough	0.0		%				0-5		200	
Naphthalene Breakthrough	0.0		%				0-5		200	

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308106

Notes and Definitions

U	Analyte included in the analysis, but not detected
Q	Calibration required quadratic regression (Q).
ICV	Initial Calibration Verification recovery is outside of control limit (ICV).
D	Diluted.
C+	Continuing Calibration recovery is above upper control limit (C+).
C-	Continuing Calibration recovery is below lower control limit (C-).
BT	Benzidine tailing factor >2.
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	Detection Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308106

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Department of Defense (DoD) Environmental Laboratory Accreditation Program (ELAP)
A2LA Accredited: Testing Cert# 2864.01
http://www.a2la.org/scopepdf/2864-01.pdf

Rhode Island Potable and Non Potable Water: LAI00179
http://www.health.ri.gov/labs/waterlabs-instate.php

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750
http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI0002
http://www.maine.gov/dep/blwq/topic/vessel/lab_list.pdf

Massachusetts Potable and Non Potable Water: M-RI002
http://public.dep.state.ma.us/labcert/labcert.aspx

New Hampshire (NELAP accredited) Potable and Non PotableWater, Solid and Hazardous Waste: 2424
http://www4.egov.nh.gov/des/nhelap/namesearch.asp

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313
http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006
http://datamine2.state.nj.us/dep/DEP_OPRA/

United States Department of Agriculture Soil Permit: S-54210

Maryland Potable Water: 301
http://www.mde.state.md.us/assets/document/WSP_labs-2009apr20.pdf

CHEMISTRY

A2LA Accredited: Testing Cert # 2864.01
Lead in Paint, Phthalates, Lead in Children's Metals Products (Including Jewelry)
http://www.A2LA.org/dirsearchnew/newsearch.cfm

CPSC ID# 1141
Lead Paint, Lead in Children's Metals Jewelry
http://www.cpsc.gov/cgi-bin/labapplist.aspx

Sterling Analytical, Inc.
15 Agawam Avenue
West Springfield, MA 01089
Phone (413) 214-6541 Fax (413) 214-6842
email-madhu@sterlinganalytical.com

Visit our website: www.sterlinganalytical.com

Mass Certification - MA-00071
Conn Certification - PH-0520

Report Date August 15, 2013

Customer	Contact	Laboratory Supervisor	eMail
ESS Laboratory	C. Taylor	Madhu Shah	madhu@sterlinganalytical.com

Sample Description
Analysis of Soil Samples

Samples Analyzed

Enclosed are Report No(s): 39733 to 39743

Thank you for your business

Madhu Shah

Madhu Shah, Laboratory Supervisor

8/15/13

Date

ALL the information contained in this report has been reviewed for accuracy and checked against all quality control requirements outlined in each applicable method.
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Sample	Description	Source	Taken/Time	Received
39733	1308106-2	ESS Laboratory	8/2/13	8/9/13

Parameter	Results		MDL	Method	Analyzed/Time	Tech
Total Organic Carbon Lloyd Kah	51,110	mg/kg	500.00	Lloyd Kahn	08/14/13	sjr

Sample	Description	Source	Taken/Time	Received
39734	1308106-5	ESS Laboratory	8/6/13	8/9/13

Parameter	Results		MDL	Method	Analyzed/Time	Tech
Total Organic Carbon Lloyd Kah	9,900	mg/kg	500.00	Lloyd Kahn	08/14/13	sjr

Sample	Description	Source	Taken/Time	Received
39735	1308106-6	ESS Laboratory	8/6/13	8/9/13

Parameter	Results		MDL	Method	Analyzed/Time	Tech
Total Organic Carbon Lloyd Kah	13,860	mg/kg	500.00	Lloyd Kahn	08/14/13	sjr

Sample	Description	Source	Taken/Time	Received
39736	1308106-7	ESS Laboratory	8/2/13	8/9/13

Parameter	Results		MDL	Method	Analyzed/Time	Tech
Total Organic Carbon Lloyd Kah	6,700	mg/kg	500.00	Lloyd Kahn	08/14/13	sjr

Sample	Description	Source	Taken/Time	Received
39737	1308106-8	ESS Laboratory	8/2/13	8/9/13

Parameter	Results		MDL	Method	Analyzed/Time	Tech
Total Organic Carbon Lloyd Kah	42,420	mg/kg	500.00	Lloyd Kahn	08/14/13	sjr

Sample	Description	Source	Taken/Time	Received
39738	1308106-11	ESS Laboratory	8/1/13	8/9/13

Parameter	Results		MDL	Method	Analyzed/Time	Tech
Total Organic Carbon Lloyd Kah	9,230	mg/kg	500.00	Lloyd Kahn	08/15/13	sjr

Sample	Description	Source	Taken/Time	Received
39739	1308106-13	ESS Laboratory	8/2/13	8/9/13

Parameter	Results		MDL	Method	Analyzed/Time	Tech
Total Organic Carbon Lloyd Kah	10,280	mg/kg	500.00	Lloyd Kahn	08/15/13	sjr

Sample	Description	Source	Taken/Time	Received
39740	1308106-17	ESS Laboratory	8/6/13	8/9/13

Parameter	Results		MDL	Method	Analyzed/Time	Tech
Total Organic Carbon Lloyd Kah	12,320	mg/kg	500.00	Lloyd Kahn	08/15/13	sjr

Sample	Description	Source	Taken/Time	Received
39741	1308106-18	ESS Laboratory	8/5/13	8/9/13

Parameter	Results		MDL	Method	Analyzed/Time	Tech
Total Organic Carbon Lloyd Kah	5,470	mg/kg	500.00	Lloyd Kahn	08/15/13	sjr

Sample	Description	Source	Taken/Time	Received
39742	1308106-19	ESS Laboratory	8/5/13	8/9/13

Parameter	Results		MDL	Method	Analyzed/Time	Tech
Total Organic Carbon Lloyd Kah	6,580	mg/kg	500.00	Lloyd Kahn	08/15/13	sjr

Sample	Description	Source	Taken/Time	Received
39743	1308106-20	ESS Laboratory	8/2/13	8/9/13

Parameter	Results		MDL	Method	Analyzed/Time	Tech
Total Organic Carbon Lloyd Kah	18970	mg/kg	500.00	Lloyd Kahn	08/15/13	sjr

Sterling Analytical, Inc.
P.O. Box 2010
West Springfield, MA 01090-2010
Phone (413) 787-9064 Fax (413) 787-905
email-madhu@sterlinganalytical.com

Sample Number 39743

QA/QC Results

8/15/2013

Parameter	Blank	LCS	CCV	Sample Results	Spiked With		Theoretical	Spiked Results	Percent Recovery
Total Organic Carbon Lloyd Kah	13	514	51,103		50,000	Spiked	50000.000	62160.00	124.32%
						Duplicate	50000.000	62270.00	124.54%

ICV--True value 50,000 mg/Kg, found---- 51,127 mg/Kg

ICV: Initial Control Verification CCV:Continuous Control Verification LCS: Fortified

Signature Madhu Shah

Madhu Shah

ESS Laboratory

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

Page_____ of_____

Turn Time ___ Standard Other 4 hour
If faster than 5 days, prior approval by laboratory is required # _____

State where samples were collected from:
MA RI CT NH NJ NY ME Other _____

Is this project for any of the following:
MA-MCP Navy USACE Other _____

Reporting Limits

ESS LAB PROJECT ID

Electronic Deliverable Yes ✓ No ___

Format: Excel __ Access __ PDF ✓ Other _____

Co. Name	Project #	Project Name (20 Char. or less)
ESS	1508106	
Contact Person	**Address**	
[illegible] Taylor		
City	**State**	**Zip**
Telephone #	**Fax #**	**Email Address**
		[illegible]

PO# 1508106

ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	Write Required Analysis: TPH 1664
	8/2			✓	SD	1508106-2	1	1	6	X
	8/6			↓	↓	-5	↓	↓	↓	↓
	8/6					-6				
	8/2					-7				
	8/2					-8				
	8/1					-11				
	8/2					-13				
	8/6					-17				
	8/5					-18				
	8/5			↓	↓	-19	↓	↓	↓	↓

Container Type: P-Poly G-Glass S-Sterile V-VOA | Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present ___ Yes ___ No Internal Use Only

Seals Intact ___ Yes ___ No NA: ___ [ ] Pickup

Cooler Temp: _____ [ ] Technicians _____

Preservation Code 1- NP, 2- HCl, 3- H_2SO_4, 4- HNO_3, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9- _____

Sampled by:

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
[signature]	8/13 1700	[signature]					
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt

10/26/04 A

ESS Laboratory

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

Page_____ of_____

Turn Time ___ Standard Other _____
If faster than 5 days, prior approval by laboratory is required # _____

State where samples were collected from:
MA RI CT NH NJ NY ME Other _____

Is this project for any of the following:
MA-MCP Navy USACE Other _____

Reporting Limits

ESS LAB PROJECT ID

Electronic Deliverable Yes ___ No ___
Format: Excel __ Access __ PDF __ Other _____

Co. Name	Project #	Project Name (20 Char. or less)
Contact Person	Address	
City State Zip	PO#	
Telephone #	Fax #	Email Address

ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	Write Required Analysis
	1/			/	GW	1308106-20	1	1	6	X
	1/									
	/12									
	12									
	12									

Container Type: P-Poly G-Glass S-Sterile V-VOA | Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present ___Yes ___No Internal Use Only

Seals Intact ___Yes ___No NA:___ [ ] Pickup

Cooler Temp:_____ [ ] Technicians_____

Preservation Code 1- NP, 2- HCl, 3- H_2SO_4, 4- HNO_3, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9-_____

Sampled by:

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt

10/26/04 A

Sample and Cooler Receipt Checklist

Client: GZA GeoEnvironmental, Inc.
Client Project ID: _____
Shipped/Delivered Via: ESS Courier

ESS Project ID: 13080106
Date Project Due: 8/14/13
Days For Project: 5 Day

Items to be checked upon receipt:

1. Air Bill Manifest Present?	* No	10. Are the samples properly preserved?	Yes
Air No.:		11. Proper sample containers used?	Yes
2. Were Custody Seals Present?	No	12. Any air bubbles in the VOA vials?	N/A
3. Were Custody Seals Intact?	N/A	13. Holding times exceeded?	No
4. Is Radiation count < 100 CPM?	Yes	14. Sufficient sample volumes?	Yes
5. Is a cooler present?	Yes	15. Any Subcontracting needed?	~~No~~ Yes CCR 8/7/13
Cooler Temp: **4.1**		16. Are ESS labels on correct containers?	Yes|No
Iced With: **Ice**		17. Were samples received intact?	Yes|No
6. Was COC included with samples?	Yes	ESS Sample IDs: 13080106-02,05,06,07,08,11,13,17,18,19,20	
7. Was COC signed and dated by client?	Yes	Sub Lab: Sterling	
8. Does the COC match the sample	Yes	Analysis: TOC	
9. Is COC complete and correct?	Yes	TAT: 4day	

18. Was there need to call project manager to discuss status? If yes, please explain.

_____

_____

_____

Who was called?:_____ By whom? _____

Sample Number	Properly Preserved	Container Type	# of Containers	Preservative
1	Yes	4 oz Soil Jar	1	NP
1	Yes	8 oz Soil Jar	1	NP
2	Yes	2 oz Soil Jar	1	NP
2	Yes	4 oz Soil Jar	1	NP
2	Yes	8 oz Soil Jar	1	NP
3	Yes	4 oz Soil Jar	1	NP
3	Yes	8 oz Soil Jar	1	NP
4	Yes	4 oz Soil Jar	1	NP
4	Yes	8 oz Soil Jar	1	NP
5	Yes	2 oz Soil Jar	1	NP
5	Yes	4 oz Soil Jar	1	NP
5	Yes	8 oz Soil Jar	1	NP
6	Yes	2 oz Soil Jar	1	NP
6	Yes	4 oz Soil Jar	1	NP
6	Yes	8 oz Soil Jar	1	NP
7	Yes	2 oz Soil Jar	1	NP
7	Yes	4 oz Soil Jar	1	NP
7	Yes	8 oz Soil Jar	1	NP
8	Yes	2 oz Soil Jar	1	NP
8	Yes	4 oz Soil Jar	1	NP
8	Yes	8 oz Soil Jar	1	NP
9	Yes	4 oz Soil Jar	1	NP
9	Yes	8 oz Soil Jar	1	NP
10	Yes	4 oz Soil Jar	1	NP
10	Yes	8 oz Soil Jar	1	NP

Sample and Cooler Receipt Checklist

Client: GZA GeoEnvironmental, Inc. ESS Project ID: 13080106

11	Yes	2 oz Soil Jar	1	NP
11	Yes	4 oz Soil Jar	1	NP
11	Yes	8 oz Soil Jar	1	NP
12	Yes	4 oz Soil Jar	1	NP
12	Yes	8 oz Soil Jar	1	NP
13	Yes	2 oz Soil Jar	1	NP
13	Yes	4 oz Soil Jar	1	NP
13	Yes	8 oz Soil Jar	1	NP
14	Yes	4 oz Soil Jar	1	NP
14	Yes	8 oz Soil Jar	1	NP
15	Yes	4 oz Soil Jar	1	NP
15	Yes	8 oz Soil Jar	1	NP
16	Yes	4 oz Soil Jar	1	NP
16	Yes	8 oz Soil Jar	1	NP
17	Yes	2 oz Soil Jar	1	NP
17	Yes	4 oz Soil Jar	1	NP
17	Yes	8 oz Soil Jar	1	NP
18	Yes	2 oz Soil Jar	1	NP
18	Yes	4 oz Soil Jar	1	NP
18	Yes	8 oz Soil Jar	1	NP
19	Yes	2 oz Soil Jar	1	NP
19	Yes	4 oz Soil Jar	1	NP
19	Yes	8 oz Soil Jar	1	NP
20	Yes	2 oz Soil Jar	1	NP
20	Yes	4 oz Soil Jar	1	NP
20	Yes	8 oz Soil Jar	1	NP

Completed By: _____ Date/Time: 8/7/13 1700

Reviewed By: _____ Date/Time: 8/7/13 1810

ESS Laboratory

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

ESS LAB PROJECT ID: 1308106

Turn Time ___x___ Standard Rush_____ Approved By: _____

Reporting Limits - see prev. email correspondence

State where samples were collected: MA RI CT NH NJ NY ME Other_____

Is this project for any of the following: (please circle)
MA-MCP CT-RCP RGP DOD Other_____

Electonic Deliverable Yes__x__ No____
Format: Excel_x__ Access___ PDF___ Other_____

GZA Project Manager: David E. Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Avenue
Norwood, MA 02062
(781) 278-3700
PRESUMPTIVE CERTAINTY REQUIRED

Project # 171521.02

Project Name: Former Everett Staging Yard

Contract Pricing _____
Special Pricing WO#: _____

ESS Lab Sample ID	Date	Collection Time	Grab -G Composite-C	Matrix	Sample Identification	# of Containers	Analysis: MCP 14 metals	B/N Phthalates Esters 8270	PAH 8270 SIM	EPH Fractions	PCBs	TOC by Lloyd Kahn					Comment #
1	8/2/13	11:06	G	Sed	GZ-120 2-4'	2	X										
2	8/6/13	8:46	G	Sed	GZ-121 T 0-0.5'	2	X					X					
3	8/1/13	14:14	G	Sed	GZ-121 2-4'	2	X										
4	8/1/13	14:14	G	Sed	GZ-121 4-6'	2	X										
5	8/6/13	9:35	G	Sed	GZ-122 T 0-0.5'	2	X	X	X	X	X	X					
6	8/2/13	11:24	G	Sed	GZ-122 0.5-2'	2	X	X	X	X	X	X					
7	8/2/13	11:24	G	Sed	GZ-122 2-4'	2	X	X	X	X	X	X					
8	8/1/13	14:30	G	Sed	GZ-123 0-0.5'	2	X					X					
9	8/1/13	14:30	G	Sed	GZ-123 2-4'	2	X										
10	8/1/13	14:30	G	Sed	GZ-123 4-6'	2	X										
							AG	AG	AG	AG	AG	AG					

Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-_____

Container Type: P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filter

Cooler Present ___Yes ___No
Seals Intact ___Yes ___No NA: BB
Cooler Temperature: 4.1 3.6 4.8 2.6 3.2

Sampled by : Dan Scanlon

Comments: Contract Price - 10%

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	8/6/13 0945	8/7/13 1030	8/7/13	1120	8/7/13 1619
	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)

Please E-mail all changes to Chain of Custody in writing.

ESS Laboratory

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

ESS LAB PROJECT ID: 130806

Turn Time ___x___ Standard Rush_____ Approved By: _____

State where samples were collected: MA RI CT NH NJ NY ME Other_____

Reporting Limits - see prev. email correspondence

Is this project for any of the following: (please circle)
MA-MCP CT-RCP RGP DOD Other_____

Electonic Deliverable Yes__x__ No____
Format: Excel_x__ Access___ PDF___ Other_____

GZA Project Manager: David E. Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Avenue
Norwood, MA 02062
(781) 278-3700
PRESUMPTIVE CERTAINTY REQUIRED

Project # 171521.02

Project Name: Former Everett Staging Yard

Contract Pricing _____
Special Pricing WO#: _____

ESS Lab Sample ID	Date	Collection Time	Grab -G Composite-C	Matrix	Sample Identification	# of Containers	Analysis: MCP 14 metals	B/N Phthalates Esters 8270	PAH 8270 SIM	EPH Fractions	PCBs	TOC by Lloyd Kahn					Comment #
11	8/2/13	11:44	G	Sed	GZ-124 0-0.5'	2	X					X					
12	8/2/13	11:44	G	Sed	GZ-124 2-4'	2	X										
13	8/5/13	11:10	G	Sed	GZ-125A 0-0.5'	2	X					X					
14	8/5/13	11:10	G	Sed	GZ-125A 2-4'	2	X										
15	8/5/13	11:10	G	Sed	GZ-125A 4-6'	2	X										
16	8/5/13	11:10	G	Sed	GZ-125A 8-9'	2	X										
17	8/6/13	10:15	G	Sed	GZ-126 T 0-0.5'	2	X	X	X	X	X	X					
18	8/5/13	10:50	G	Sed	GZ-126 0.5-2'	2	X	X	X	X	X	X					
19	8/5/13	10:50	G	Sed	GZ-126 2-4'	2	X	X	X	X	X	X					
20	8/5/13	10:35	G	Sed	GZ-127 0-0.5'	2	X					X					
Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-_____																	
Container Type: P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA							AG	AG	AG	AG	AG	AG					

Matrix: S-Soil SD-Solid D-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filter

Cooler Present ✓ Yes ____ No
Seals Intact ____ Yes ____ No NA: BB
5 coolers
Cooler Temperature: 4.1 3.6 4.8 2.6 3.2

Sampled by : Dan Scanlon

Comments: Contract Price - 10%

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Wallace	8/6/13 22:0	Rick Bascom 8/7/13 1030	Bill Bascom 8/7/13	H2O	8/7/13 1641
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)

Please E-mail all changes to Chain of Custody in writing.

Page 8 of 16

CERTIFICATE OF ANALYSIS

David E Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Avenue
Norwood, MA 02062

RE: Everett (01.0171521.02)
ESS Laboratory Work Order Number: 1308107

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.



Laurel Stoddard
Laboratory Director

REVIEWED
By ESS Laboratory at 11:23 am, Aug 20, 2013

Analytical Summary
The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with NELAC Standards, A2LA and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibratins, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.

Subcontracted Analyses

TestAmerica Laboratories, Inc. - Burlington, VT	Total Organic Carbon

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308107

SAMPLE RECEIPT

The following samples were received on August 07, 2013 for the analyses specified on the enclosed Chain of Custody Record.

To achieve CAM compliance for MCP data, ESS Laboratory has performed and reviewed all QA/QC Requirements and Performance Standards listed in each method. Holding times and preservation have also been reviewed. All CAM requirements have been achieved unless noted in the project narrative.

Each method has been set-up in the laboratory to reach required MCP standards. The methods for aqueous VOA and Soil Methanol VOA have known limitations for certain analytes. The regulatory standards may not be achieved due to these limitations. In addition, for all methods, matrix interferences, dilutions, and %Solids may elevate method reporting limits above regulatory standards. ESS Laboratory can provide, upon request, a Data Checker (regulatory standard comparison spreadsheet) electronic deliverable which will highlight these exceedances.

For EPH soil samples, the aromatic range results have been corrected for identified cartridge contaminant in accordance with the CAM protocol.

Lab Number	SampleName	Matrix	Analysis
1308107-01	GZ-127 0.5-2ft	Solid	6010B, 6020A, 7471B
1308107-02	GZ-127 2-4ft	Solid	6010B, 6020A, 7471B
1308107-03	GZ-127 4-5ft	Solid	6010B, 6020A, 7471B
1308107-04	GZ-128T 0-0.5ft	Solid	6010B, 6020A, 7471B, TOC-LK
1308107-05	GZ-128 2-4ft	Solid	6010B, 6020A, 7471B
1308107-06	GZ-128 4-6ft	Solid	6010B, 6020A, 7471B
1308107-07	GZ-129T 0-0.5ft	Solid	6010B, 6020A, 7471B, TOC-LK
1308107-08	GZ-129 2-4ft	Solid	6010B, 6020A, 7471B
1308107-09	GZ-130 0-0.5ft	Solid	6010B, 6020A, 7471B, TOC-LK
1308107-10	GZ-130 2-4ft	Solid	6010B, 6020A, 7471B, TOC-LK
1308107-11	GZ-130 4-6ft	Solid	6010B, 6020A, 7471B
1308107-12	GZ-131 0-0.5ft	Solid	6010B, 6020A, 7471B, TOC-LK
1308107-13	GZ-131 0.5-2ft	Solid	6010B, 6020A, 7471B, TOC-LK
1308107-14	GZ-131 2-4ft	Solid	6010B, 6020A, 7471B
1308107-15	GZ-131 4-5ft	Solid	6010B, 6020A, 7471B
1308107-16	GZ-132 0-0.5ft	Solid	6010B, 6020A, 7471B, TOC-LK
1308107-17	GZ-132 0.5-2ft	Solid	6010B, 6020A, 7471B
1308107-18	GZ-133 0-0.5ft	Solid	6010B, 6020A, 7471B, TOC-LK
1308107-19	GZ-133 0.5-2ft	Solid	6010B, 6020A, 7471B
1308107-20	GZ-133 2-4.4ft	Solid	6010B, 6020A, 7471B

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308107

PROJECT NARRATIVE

No unusual observations noted.

End of Project Narrative.

DATA USABILITY LINKS

Definitions of Quality Control Parameters

Semivolatile Organics Internal Standard Information

Semivolatile Organics Surrogate Information

Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308107

CURRENT SW-846 METHODOLOGY VERSIONS

Analytical Methods

1010A - Flashpoint
6010C - ICP
6020A - ICP MS
7010 - Graphite Furnace
7196A - Hexavalent Chromium
7470A - Aqueous Mercury
7471B - Solid Mercury
8011 - EDB/DBCP/TCP
8015C - GRO/DRO
8081B - Pesticides
8082A - PCB
8100M - TPH
8151A - Herbicides
8260B - VOA
8270D - SVOA
8270D SIM - SVOA Low Level
9014 - Cyanide
9038 - Sulfate
9040C - Aqueous pH
9045D - Solid pH (Corrosivity)
9050A - Specific Conductance
9056A - Anions (IC)
9060A - TOC
9095B - Paint Filter
MADEP 04-1.1 - EPH / VPH

Prep Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5035 - Solid Purge and Trap

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308107

MassDEP Analytical Protocol Certification Form

MADEP RTN: _____

This form provides certification for the following data set: **1308107-01 through 1308107-20**

Matrices: ( ) Ground Water/Surface Water (X) Soil/Sediment ( ) Drinking Water ( ) Air ( ) Other:_____

CAM Protocol (check all that apply below):

( ) 8260 VOC CAM II A	(X) 7470/7471 Hg CAM III B	( ) MassDEP VPH CAM IV A	( ) 8081 Pesticides CAM V B	( ) 7196 Hex Cr CAM VI B	( ) MassDEP APH CAM IX A
( ) 8270 SVOC CAM II B	( ) 7010 Metals CAM III C	( ) MassDEP EPH CAM IV B	( ) 8151 Herbicides CAM V C	( ) 8330 Explosives CAM VIII A	( ) TO-15 VOC CAM IX B
(X) 6010 Metals CAM III A	(X) 6020 Metals CAM III D	( ) 8082 PCB CAM V A	( ) 6860 Perchlorate CAM VIII B	( ) 9014 Total Cyanide/PAC CAM VI A	

Affirmative responses to questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	Yes (X) No ( )
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	Yes (X) No ( )
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	Yes (X) No ( )
D	Does the laboratory report comply with all the reporting requirements specified in the CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	Yes (X) No ( )
E	a. VPH, EPH, APH and TO-15 only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	Yes ( ) No ( )
	b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	Yes ( ) No ( )
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	Yes (X) No ( )

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocols(s)?	Yes (X) No ( )*
	***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**	
H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	Yes (X) No ( )*
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	Yes (X) No ( )*

All negative responses must be addressed in an attached laboratory narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: _____ Date: August 20, 2013

Printed Name: Laurel Stoddard Position: Laboratory Director

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-127 0.5-2ft
Date Sampled: 08/05/13 10:35
Percent Solids: 67

ESS Laboratory Work Order: 1308107
ESS Laboratory Sample ID: 1308107-01
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (1.5)		6020A		50	SVD	08/12/13 23:04	5.08	100	CH31007
Arsenic	**24.7** (1.5)		6010B		1	ICP	08/11/13 22:41	5.08	100	CH31007
Barium	**27.2** (1.5)		6010B		1	ICP	08/11/13 22:41	5.08	100	CH31007
Beryllium	**0.26** (0.06)		6010B		1	ICP	08/11/13 22:41	5.08	100	CH31007
Cadmium	ND (0.29)		6010B		1	ICP	08/11/13 22:41	5.08	100	CH31007
Chromium	**17.2** (0.6)		6010B		1	ICP	08/11/13 22:41	5.08	100	CH31007
Lead	**97.4** (2.9)		6010B		1	ICP	08/11/13 22:41	5.08	100	CH31007
Mercury	**1.69** (0.423)		7471B		20	KJK	08/10/13 19:52	1.39	40	CH30807
Nickel	**8.6** (1.5)		6010B		1	ICP	08/11/13 22:41	5.08	100	CH31007
Selenium	ND (1.47)		6020A		50	SVD	08/12/13 23:04	5.08	100	CH31007
Silver	**0.63** (0.29)		6010B		1	ICP	08/11/13 22:41	5.08	100	CH31007
Thallium	ND (1.47)		6020A		50	SVD	08/12/13 23:04	5.08	100	CH31007
Vanadium	**24.1** (0.6)		6010B		1	ICP	08/11/13 22:41	5.08	100	CH31007
Zinc	**80.0** (1.5)		6010B		1	ICP	08/11/13 22:41	5.08	100	CH31007

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-127 2-4ft
Date Sampled: 08/05/13 10:35
Percent Solids: 83

ESS Laboratory Work Order: 1308107
ESS Laboratory Sample ID: 1308107-02
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (1.1)		6020A		50	SVD	08/12/13 23:10	5.31	100	CH31007
Arsenic	**8.0** (1.1)		6010B		1	ICP	08/11/13 22:46	5.31	100	CH31007
Barium	**24.3** (1.1)		6010B		1	ICP	08/11/13 22:46	5.31	100	CH31007
Beryllium	**0.39** (0.05)		6010B		1	ICP	08/11/13 22:46	5.31	100	CH31007
Cadmium	ND (0.23)		6010B		1	ICP	08/11/13 22:46	5.31	100	CH31007
Chromium	**14.4** (0.5)		6010B		1	ICP	08/11/13 22:46	5.31	100	CH31007
Lead	**12.4** (2.3)		6010B		1	ICP	08/11/13 22:46	5.31	100	CH31007
Mercury	ND (0.020)		7471B		1	KJK	08/10/13 16:11	1.21	40	CH30807
Nickel	**9.4** (1.1)		6010B		1	ICP	08/11/13 22:46	5.31	100	CH31007
Selenium	ND (1.14)		6020A		50	SVD	08/12/13 23:10	5.31	100	CH31007
Silver	**0.30** (0.23)		6010B		1	ICP	08/11/13 22:46	5.31	100	CH31007
Thallium	ND (1.14)		6020A		50	SVD	08/12/13 23:10	5.31	100	CH31007
Vanadium	**22.3** (0.5)		6010B		1	ICP	08/11/13 22:46	5.31	100	CH31007
Zinc	**40.3** (1.1)		6010B		1	ICP	08/11/13 22:46	5.31	100	CH31007

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-127 4-5ft
Date Sampled: 08/05/13 10:35
Percent Solids: 79

ESS Laboratory Work Order: 1308107
ESS Laboratory Sample ID: 1308107-03
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (1.2)		6020A		50	SVD	08/12/13 23:16	5.15	100	CH31007
Arsenic	**5.9** (1.2)		6010B		1	ICP	08/11/13 22:52	5.15	100	CH31007
Barium	**41.9** (1.2)		6010B		1	ICP	08/11/13 22:52	5.15	100	CH31007
Beryllium	**0.60** (0.05)		6010B		1	ICP	08/11/13 22:52	5.15	100	CH31007
Cadmium	ND (0.25)		6010B		1	ICP	08/11/13 22:52	5.15	100	CH31007
Chromium	**24.8** (0.5)		6010B		1	ICP	08/11/13 22:52	5.15	100	CH31007
Lead	**8.9** (2.5)		6010B		1	ICP	08/11/13 22:52	5.15	100	CH31007
Mercury	ND (0.023)		7471B		1	KJK	08/10/13 16:14	1.08	40	CH30807
Nickel	**12.1** (1.2)		6010B		1	ICP	08/11/13 22:52	5.15	100	CH31007
Selenium	ND (1.24)		6020A		50	SVD	08/12/13 23:16	5.15	100	CH31007
Silver	**0.28** (0.25)		6010B		1	ICP	08/11/13 22:52	5.15	100	CH31007
Thallium	ND (1.24)		6020A		50	SVD	08/12/13 23:16	5.15	100	CH31007
Vanadium	**34.1** (0.5)		6010B		1	ICP	08/11/13 22:52	5.15	100	CH31007
Zinc	**46.6** (1.2)		6010B		1	ICP	08/11/13 22:52	5.15	100	CH31007

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-128T 0-0.5ft
Date Sampled: 08/06/13 08:37
Percent Solids: 32

ESS Laboratory Work Order: 1308107
ESS Laboratory Sample ID: 1308107-04
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (3.1)		6020A		50	SVD	08/12/13 23:23	5	100	CH31007
Arsenic	**33.2** (3.1)		6010B		1	ICP	08/11/13 22:57	5	100	CH31007
Barium	**58.5** (3.1)		6010B		1	ICP	08/11/13 22:57	5	100	CH31007
Beryllium	**0.58** (0.13)		6010B		1	ICP	08/11/13 22:57	5	100	CH31007
Cadmium	**1.31** (0.62)		6010B		1	ICP	08/11/13 22:57	5	100	CH31007
Chromium	**78.2** (1.2)		6010B		1	ICP	08/11/13 22:57	5	100	CH31007
Lead	**191** (6.2)		6010B		1	ICP	08/11/13 22:57	5	100	CH31007
Mercury	**0.840** (0.263)		7471B		5	KJK	08/10/13 12:29	1.17	40	CH30807
Nickel	**23.2** (3.1)		6010B		1	ICP	08/11/13 22:57	5	100	CH31007
Selenium	ND (3.12)		6020A		50	SVD	08/12/13 23:23	5	100	CH31007
Silver	**2.14** (0.62)		6010B		1	ICP	08/11/13 22:57	5	100	CH31007
Thallium	ND (3.12)		6020A		50	SVD	08/12/13 23:23	5	100	CH31007
Vanadium	**71.1** (1.2)		6010B		1	ICP	08/11/13 22:57	5	100	CH31007
Zinc	**303** (3.1)		6010B		1	ICP	08/11/13 22:57	5	100	CH31007

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-128T 0-0.5ft
Date Sampled: 08/06/13 08:37
Percent Solids: 32

ESS Laboratory Work Order: 1308107
ESS Laboratory Sample ID: 1308107-04
Sample Matrix: Solid

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**55600** (2940)		TOC-LK		1	SUB	08/14/13 13:12	mg/kg	CH32011

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-128 2-4ft
Date Sampled: 08/01/13 14:43
Percent Solids: 32

ESS Laboratory Work Order: 1308107
ESS Laboratory Sample ID: 1308107-05
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (3.0)		6020A		50	SVD	08/12/13 23:29	5.19	100	CH31007
Arsenic	**54.4** (3.0)		6010B		1	ICP	08/11/13 23:03	5.19	100	CH31007
Barium	**63.1** (3.0)		6010B		1	ICP	08/11/13 23:03	5.19	100	CH31007
Beryllium	**0.49** (0.13)		6010B		1	ICP	08/11/13 23:03	5.19	100	CH31007
Cadmium	**2.15** (0.61)		6010B		1	ICP	08/11/13 23:03	5.19	100	CH31007
Chromium	**84.5** (1.2)		6010B		1	ICP	08/11/13 23:03	5.19	100	CH31007
Lead	**208** (6.0)		6010B		1	ICP	08/11/13 23:03	5.19	100	CH31007
Mercury	**1.46** (0.231)		7471B		5	KJK	08/10/13 12:32	1.34	40	CH30807
Nickel	**15.9** (3.0)		6010B		1	ICP	08/11/13 23:03	5.19	100	CH31007
Selenium	ND (3.03)		6020A		50	SVD	08/12/13 23:29	5.19	100	CH31007
Silver	**1.93** (0.61)		6010B		1	ICP	08/11/13 23:03	5.19	100	CH31007
Thallium	ND (3.03)		6020A		50	SVD	08/12/13 23:29	5.19	100	CH31007
Vanadium	**97.5** (1.2)		6010B		1	ICP	08/11/13 23:03	5.19	100	CH31007
Zinc	**254** (3.0)		6010B		1	ICP	08/11/13 23:03	5.19	100	CH31007

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-128 4-6ft
Date Sampled: 08/01/13 14:43
Percent Solids: 49

ESS Laboratory Work Order: 1308107
ESS Laboratory Sample ID: 1308107-06
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (1.9)		6020A		50	SVD	08/12/13 23:47	5.28	100	CH31007
Arsenic	**30.4** (1.9)		6010B		1	ICP	08/11/13 23:09	5.28	100	CH31007
Barium	**60.2** (1.9)		6010B		1	ICP	08/11/13 23:09	5.28	100	CH31007
Beryllium	**0.64** (0.08)		6010B		1	ICP	08/11/13 23:09	5.28	100	CH31007
Cadmium	**1.71** (0.38)		6010B		1	ICP	08/11/13 23:09	5.28	100	CH31007
Chromium	**63.8** (0.8)		6010B		1	ICP	08/11/13 23:09	5.28	100	CH31007
Lead	**135** (3.8)		6010B		1	ICP	08/11/13 23:09	5.28	100	CH31007
Mercury	**0.949** (0.143)		7471B		5	KJK	08/10/13 12:35	1.4	40	CH30807
Nickel	**20.2** (1.9)		6010B		1	ICP	08/11/13 23:09	5.28	100	CH31007
Selenium	ND (1.92)		6020A		50	SVD	08/12/13 23:47	5.28	100	CH31007
Silver	**1.25** (0.38)		6010B		1	ICP	08/11/13 23:09	5.28	100	CH31007
Thallium	ND (1.92)		6020A		50	SVD	08/12/13 23:47	5.28	100	CH31007
Vanadium	**52.4** (0.8)		6010B		1	ICP	08/11/13 23:09	5.28	100	CH31007
Zinc	**237** (1.9)		6010B		1	ICP	08/11/13 23:09	5.28	100	CH31007

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-129T 0-0.5ft
Date Sampled: 08/06/13 09:42
Percent Solids: 61

ESS Laboratory Work Order: 1308107
ESS Laboratory Sample ID: 1308107-07
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (1.6)		6020A		50	SVD	08/12/13 23:53	5.13	100	CH31007
Arsenic	**11.6** (1.6)		6010B		1	ICP	08/11/13 23:23	5.13	100	CH31007
Barium	**15.0** (1.6)		6010B		1	ICP	08/11/13 23:23	5.13	100	CH31007
Beryllium	**0.18** (0.07)		6010B		1	ICP	08/11/13 23:23	5.13	100	CH31007
Cadmium	ND (0.32)		6010B		1	ICP	08/11/13 23:23	5.13	100	CH31007
Chromium	**16.6** (0.6)		6010B		1	ICP	08/11/13 23:23	5.13	100	CH31007
Lead	**44.4** (3.2)		6010B		1	ICP	08/11/13 23:23	5.13	100	CH31007
Mercury	ND (0.026)		7471B		1	KJK	08/10/13 16:16	1.27	40	CH30807
Nickel	**6.8** (1.6)		6010B		1	ICP	08/11/13 23:23	5.13	100	CH31007
Selenium	ND (1.60)		6020A		50	SVD	08/12/13 23:53	5.13	100	CH31007
Silver	**0.42** (0.32)		6010B		1	ICP	08/11/13 23:23	5.13	100	CH31007
Thallium	ND (1.60)		6020A		50	SVD	08/12/13 23:53	5.13	100	CH31007
Vanadium	**19.5** (0.6)		6010B		1	ICP	08/11/13 23:23	5.13	100	CH31007
Zinc	**67.0** (1.6)		6010B		1	ICP	08/11/13 23:23	5.13	100	CH31007

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-129T 0-0.5ft
Date Sampled: 08/06/13 09:42
Percent Solids: 61

ESS Laboratory Work Order: 1308107
ESS Laboratory Sample ID: 1308107-07
Sample Matrix: Solid

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**14500** (1690)		TOC-LK		1	SUB	08/14/13 13:18	mg/kg	CH32011

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-129 2-4ft
Date Sampled: 08/02/13 13:36
Percent Solids: 75

ESS Laboratory Work Order: 1308107
ESS Laboratory Sample ID: 1308107-08
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (1.3)		6020A		50	SVD	08/12/13 23:59	5.24	100	CH31007
Arsenic	**3.7** (1.3)		6010B		1	ICP	08/11/13 23:29	5.24	100	CH31007
Barium	**8.1** (1.3)		6010B		1	ICP	08/11/13 23:29	5.24	100	CH31007
Beryllium	**0.16** (0.05)		6010B		1	ICP	08/11/13 23:29	5.24	100	CH31007
Cadmium	ND (0.26)		6010B		1	ICP	08/11/13 23:29	5.24	100	CH31007
Chromium	**9.5** (0.5)		6010B		1	ICP	08/11/13 23:29	5.24	100	CH31007
Lead	ND (2.6)		6010B		1	ICP	08/11/13 23:29	5.24	100	CH31007
Mercury	ND (0.020)		7471B		1	KJK	08/10/13 16:19	1.33	40	CH30807
Nickel	**5.5** (1.3)		6010B		1	ICP	08/11/13 23:29	5.24	100	CH31007
Selenium	ND (1.28)		6020A		50	SVD	08/12/13 23:59	5.24	100	CH31007
Silver	ND (0.26)		6010B		1	ICP	08/11/13 23:29	5.24	100	CH31007
Thallium	ND (1.28)		6020A		50	SVD	08/12/13 23:59	5.24	100	CH31007
Vanadium	**11.9** (0.5)		6010B		1	ICP	08/11/13 23:29	5.24	100	CH31007
Zinc	**16.1** (1.3)		6010B		1	ICP	08/11/13 23:29	5.24	100	CH31007

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-130 0-0.5ft
Date Sampled: 08/02/13 12:32
Percent Solids: 62

ESS Laboratory Work Order: 1308107
ESS Laboratory Sample ID: 1308107-09
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (1.6)		6020A		50	SVD	08/13/13 0:05	5.03	100	CH31007
Arsenic	**4.2** (1.6)		6010B		1	KJK	08/12/13 17:32	5.03	100	CH31007
Barium	**14.6** (1.6)		6010B		1	KJK	08/12/13 17:32	5.03	100	CH31007
Beryllium	**0.28** (0.07)		6010B		1	KJK	08/12/13 17:32	5.03	100	CH31007
Cadmium	ND (0.32)		6010B		1	KJK	08/12/13 17:32	5.03	100	CH31007
Chromium	**15.2** (0.6)		6010B		1	KJK	08/12/13 17:32	5.03	100	CH31007
Lead	**9.2** (3.2)		6010B		1	KJK	08/12/13 17:32	5.03	100	CH31007
Mercury	ND (0.030)		7471B		1	KJK	08/10/13 16:22	1.08	40	CH30807
Nickel	**8.9** (1.6)		6010B		1	KJK	08/12/13 17:32	5.03	100	CH31007
Selenium	ND (1.62)		6020A		50	SVD	08/13/13 0:05	5.03	100	CH31007
Silver	ND (0.32)		6010B		1	KJK	08/12/13 17:32	5.03	100	CH31007
Thallium	ND (1.62)		6020A		50	SVD	08/13/13 0:05	5.03	100	CH31007
Vanadium	**19.2** (0.6)		6010B		1	KJK	08/12/13 17:32	5.03	100	CH31007
Zinc	**29.8** (1.6)		6010B		1	KJK	08/12/13 17:32	5.03	100	CH31007

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-130 0-0.5ft
Date Sampled: 08/02/13 12:32
Percent Solids: 62

ESS Laboratory Work Order: 1308107
ESS Laboratory Sample ID: 1308107-09
Sample Matrix: Solid

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**16800** (1540)		TOC-LK		1	SUB	08/14/13 13:25	mg/kg	CH32011

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-130 2-4ft
Date Sampled: 08/02/13 12:32
Percent Solids: 77

ESS Laboratory Work Order: 1308107
ESS Laboratory Sample ID: 1308107-10
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (1.3)		6020A		50	SVD	08/13/13 0:11	5.15	100	CH31007
Arsenic	**3.1** (1.3)		6010B		1	ICP	08/11/13 23:39	5.15	100	CH31007
Barium	**6.6** (1.3)		6010B		1	ICP	08/11/13 23:39	5.15	100	CH31007
Beryllium	**0.15** (0.05)		6010B		1	ICP	08/11/13 23:39	5.15	100	CH31007
Cadmium	ND (0.25)		6010B		1	ICP	08/11/13 23:39	5.15	100	CH31007
Chromium	**7.7** (0.5)		6010B		1	ICP	08/11/13 23:39	5.15	100	CH31007
Lead	ND (2.5)		6010B		1	ICP	08/11/13 23:39	5.15	100	CH31007
Mercury	ND (0.020)		7471B		1	KJK	08/10/13 16:24	1.31	40	CH30807
Nickel	**4.8** (1.3)		6010B		1	ICP	08/11/13 23:39	5.15	100	CH31007
Selenium	ND (1.27)		6020A		50	SVD	08/13/13 0:11	5.15	100	CH31007
Silver	ND (0.25)		6010B		1	ICP	08/11/13 23:39	5.15	100	CH31007
Thallium	ND (1.27)		6020A		50	SVD	08/13/13 0:11	5.15	100	CH31007
Vanadium	**10.0** (0.5)		6010B		1	ICP	08/11/13 23:39	5.15	100	CH31007
Zinc	**13.6** (1.3)		6010B		1	ICP	08/11/13 23:39	5.15	100	CH31007

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-130 2-4ft
Date Sampled: 08/02/13 12:32
Percent Solids: 77

ESS Laboratory Work Order: 1308107
ESS Laboratory Sample ID: 1308107-10
Sample Matrix: Solid

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**6840** (1280)		TOC-LK		1	SUB	08/14/13 13:31	mg/kg	CH32011

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-130 4-6ft
Date Sampled: 08/02/13 12:32
Percent Solids: 70

ESS Laboratory Work Order: 1308107
ESS Laboratory Sample ID: 1308107-11
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (1.4)		6020A		50	SVD	08/13/13 0:41	5.1	100	CH31007
Arsenic	**2.4** (1.4)		6010B		1	KJK	08/12/13 17:37	5.1	100	CH31007
Barium	**8.8** (1.4)		6010B		1	KJK	08/12/13 17:37	5.1	100	CH31007
Beryllium	**0.18** (0.06)		6010B		1	KJK	08/12/13 17:37	5.1	100	CH31007
Cadmium	ND (0.28)		6010B		1	KJK	08/12/13 17:37	5.1	100	CH31007
Chromium	**10.1** (0.6)		6010B		1	KJK	08/12/13 17:37	5.1	100	CH31007
Lead	ND (2.8)		6010B		1	KJK	08/12/13 17:37	5.1	100	CH31007
Mercury	ND (0.024)		7471B		1	KJK	08/10/13 16:43	1.16	40	CH30807
Nickel	**6.2** (1.4)		6010B		1	KJK	08/12/13 17:37	5.1	100	CH31007
Selenium	ND (1.41)		6020A		50	SVD	08/13/13 0:41	5.1	100	CH31007
Silver	ND (0.28)		6010B		1	KJK	08/12/13 17:37	5.1	100	CH31007
Thallium	ND (1.41)		6020A		50	SVD	08/13/13 0:41	5.1	100	CH31007
Vanadium	**12.6** (0.6)		6010B		1	KJK	08/12/13 17:37	5.1	100	CH31007
Zinc	**17.2** (1.4)		6010B		1	KJK	08/12/13 17:37	5.1	100	CH31007

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-131 0-0.5ft
Date Sampled: 08/02/13 12:50
Percent Solids: 70

ESS Laboratory Work Order: 1308107
ESS Laboratory Sample ID: 1308107-12
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (1.4)		6020A		50	SVD	08/13/13 0:59	5.16	100	CH31007
Arsenic	**13.8** (1.4)		6010B		1	ICP	08/12/13 0:09	5.16	100	CH31007
Barium	**19.0** (1.4)		6010B		1	ICP	08/12/13 0:09	5.16	100	CH31007
Beryllium	**0.15** (0.06)		6010B		1	ICP	08/12/13 0:09	5.16	100	CH31007
Cadmium	ND (0.28)		6010B		1	ICP	08/12/13 0:09	5.16	100	CH31007
Chromium	**14.7** (0.6)		6010B		1	ICP	08/12/13 0:09	5.16	100	CH31007
Lead	**65.2** (2.8)		6010B		1	ICP	08/12/13 0:09	5.16	100	CH31007
Mercury	**0.269** (0.097)		7471B		5	KJK	08/10/13 13:07	1.45	40	CH30807
Nickel	**5.5** (1.4)		6010B		1	ICP	08/12/13 0:09	5.16	100	CH31007
Selenium	ND (1.39)		6020A		50	SVD	08/13/13 0:59	5.16	100	CH31007
Silver	**0.65** (0.28)		6010B		1	ICP	08/12/13 0:09	5.16	100	CH31007
Thallium	ND (1.39)		6020A		50	SVD	08/13/13 0:59	5.16	100	CH31007
Vanadium	**16.8** (0.6)		6010B		1	ICP	08/12/13 0:09	5.16	100	CH31007
Zinc	**72.7** (1.4)		6010B		1	ICP	08/12/13 0:09	5.16	100	CH31007

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-131 0-0.5ft
Date Sampled: 08/02/13 12:50
Percent Solids: 70

ESS Laboratory Work Order: 1308107
ESS Laboratory Sample ID: 1308107-12
Sample Matrix: Solid

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**12600** (1360)		TOC-LK		1	SUB	08/14/13 13:37	mg/kg	CH32011

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-131 0.5-2ft
Date Sampled: 08/02/13 12:50
Percent Solids: 74

ESS Laboratory Work Order: 1308107
ESS Laboratory Sample ID: 1308107-13
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (1.4)		6020A		50	SVD	08/13/13 1:05	5.03	100	CH31007
Arsenic	**23.4** (1.3)		6010B		1	ICP	08/12/13 0:24	5.03	100	CH31007
Barium	**18.6** (1.3)		6010B		1	ICP	08/12/13 0:24	5.03	100	CH31007
Beryllium	**0.22** (0.06)		6010B		1	ICP	08/12/13 0:24	5.03	100	CH31007
Cadmium	ND (0.27)		6010B		1	ICP	08/12/13 0:24	5.03	100	CH31007
Chromium	**16.2** (0.5)		6010B		1	ICP	08/12/13 0:24	5.03	100	CH31007
Lead	**112** (2.7)		6010B		1	ICP	08/12/13 0:24	5.03	100	CH31007
Mercury	**0.225** (0.091)		7471B		5	KJK	08/10/13 13:10	1.47	40	CH30807
Nickel	**6.3** (1.3)		6010B		1	ICP	08/12/13 0:24	5.03	100	CH31007
Selenium	**4.43** (1.35)		6020A		50	SVD	08/13/13 1:05	5.03	100	CH31007
Silver	**0.71** (0.27)		6010B		1	ICP	08/12/13 0:24	5.03	100	CH31007
Thallium	ND (1.35)		6020A		50	SVD	08/13/13 1:05	5.03	100	CH31007
Vanadium	**18.5** (0.5)		6010B		1	ICP	08/12/13 0:24	5.03	100	CH31007
Zinc	**132** (1.3)		6010B		1	KJK	08/12/13 17:43	5.03	100	CH31007

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-131 0.5-2ft
Date Sampled: 08/02/13 12:50
Percent Solids: 74

ESS Laboratory Work Order: 1308107
ESS Laboratory Sample ID: 1308107-13
Sample Matrix: Solid

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**27300** (1330)		TOC-LK		1	SUB	08/14/13 13:44	mg/kg	CH32011

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-131 2-4ft
Date Sampled: 08/02/13 12:50
Percent Solids: 79

ESS Laboratory Work Order: 1308107
ESS Laboratory Sample ID: 1308107-14
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (1.3)		6020A		50	SVD	08/13/13 1:11	5.1	100	CH31007
Arsenic	**3.5** (1.2)		6010B		1	ICP	08/12/13 0:29	5.1	100	CH31007
Barium	**6.3** (1.2)		6010B		1	ICP	08/12/13 0:29	5.1	100	CH31007
Beryllium	**0.14** (0.05)		6010B		1	ICP	08/12/13 0:29	5.1	100	CH31007
Cadmium	ND (0.25)		6010B		1	ICP	08/12/13 0:29	5.1	100	CH31007
Chromium	**7.4** (0.5)		6010B		1	ICP	08/12/13 0:29	5.1	100	CH31007
Lead	**3.4** (2.5)		6010B		1	ICP	08/12/13 0:29	5.1	100	CH31007
Mercury	**0.056** (0.017)		7471B		1	KJK	08/10/13 16:46	1.48	40	CH30807
Nickel	**4.6** (1.2)		6010B		1	ICP	08/12/13 0:29	5.1	100	CH31007
Selenium	ND (1.25)		6020A		50	SVD	08/13/13 1:11	5.1	100	CH31007
Silver	ND (0.25)		6010B		1	ICP	08/12/13 0:29	5.1	100	CH31007
Thallium	ND (1.25)		6020A		50	SVD	08/13/13 1:11	5.1	100	CH31007
Vanadium	**10.0** (0.5)		6010B		1	ICP	08/12/13 0:29	5.1	100	CH31007
Zinc	**14.6** (1.2)		6010B		1	KJK	08/12/13 18:01	5.1	100	CH31007

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-131 4-5ft
Date Sampled: 08/02/13 12:50
Percent Solids: 84

ESS Laboratory Work Order: 1308107
ESS Laboratory Sample ID: 1308107-15
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (1.1)		6020A		50	SVD	08/13/13 1:17	5.27	100	CH31007
Arsenic	**4.5** (1.1)		6010B		1	ICP	08/12/13 0:35	5.27	100	CH31007
Barium	**7.8** (1.1)		6010B		1	ICP	08/12/13 0:35	5.27	100	CH31007
Beryllium	**0.20** (0.05)		6010B		1	ICP	08/12/13 0:35	5.27	100	CH31007
Cadmium	ND (0.23)		6010B		1	ICP	08/12/13 0:35	5.27	100	CH31007
Chromium	**10.2** (0.4)		6010B		1	ICP	08/12/13 0:35	5.27	100	CH31007
Lead	**4.2** (2.3)		6010B		1	ICP	08/12/13 0:35	5.27	100	CH31007
Mercury	ND (0.023)		7471B		1	KJK	08/10/13 16:48	1.04	40	CH30807
Nickel	**7.1** (1.1)		6010B		1	ICP	08/12/13 0:35	5.27	100	CH31007
Selenium	ND (1.13)		6020A		50	SVD	08/13/13 1:17	5.27	100	CH31007
Silver	**0.25** (0.23)		6010B		1	ICP	08/12/13 0:35	5.27	100	CH31007
Thallium	ND (1.13)		6020A		50	SVD	08/13/13 1:17	5.27	100	CH31007
Vanadium	**19.3** (0.4)		6010B		1	ICP	08/12/13 0:35	5.27	100	CH31007
Zinc	**20.9** (1.1)		6010B		1	KJK	08/12/13 18:07	5.27	100	CH31007

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-132 0-0.5ft
Date Sampled: 08/05/13 13:50
Percent Solids: 70

ESS Laboratory Work Order: 1308107
ESS Laboratory Sample ID: 1308107-16
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (1.4)		6020A		50	SVD	08/13/13 1:23	5.06	100	CH31007
Arsenic	**21.5** (1.4)		6010B		1	ICP	08/12/13 0:40	5.06	100	CH31007
Barium	**27.3** (1.4)		6010B		1	ICP	08/12/13 0:40	5.06	100	CH31007
Beryllium	**0.19** (0.06)		6010B		1	ICP	08/12/13 0:40	5.06	100	CH31007
Cadmium	ND (0.28)		6010B		1	ICP	08/12/13 0:40	5.06	100	CH31007
Chromium	**18.1** (0.6)		6010B		1	ICP	08/12/13 0:40	5.06	100	CH31007
Lead	**100** (2.8)		6010B		1	ICP	08/12/13 0:40	5.06	100	CH31007
Mercury	**0.296** (0.119)		7471B		5	KJK	08/10/13 13:23	1.19	40	CH30807
Nickel	**6.7** (1.4)		6010B		1	ICP	08/12/13 0:40	5.06	100	CH31007
Selenium	ND (1.42)		6020A		50	SVD	08/13/13 1:23	5.06	100	CH31007
Silver	**0.85** (0.28)		6010B		1	ICP	08/12/13 0:40	5.06	100	CH31007
Thallium	ND (1.42)		6020A		50	SVD	08/13/13 1:23	5.06	100	CH31007
Vanadium	**24.1** (0.6)		6010B		1	ICP	08/12/13 0:40	5.06	100	CH31007
Zinc	**101** (1.4)		6010B		1	KJK	08/12/13 18:12	5.06	100	CH31007

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-132 0-0.5ft
Date Sampled: 08/05/13 13:50
Percent Solids: 70

ESS Laboratory Work Order: 1308107
ESS Laboratory Sample ID: 1308107-16
Sample Matrix: Solid

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**20700** (1340)		TOC-LK		1	SUB	08/14/13 13:50	mg/kg	CH32011

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-132 0.5-2ft
Date Sampled: 08/05/13 13:50
Percent Solids: 76

ESS Laboratory Work Order: 1308107
ESS Laboratory Sample ID: 1308107-17
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (1.3)		6020A		50	SVD	08/13/13 1:29	5.13	100	CH31007
Arsenic	**68.3** (6.4)		6010B		5	ICP	08/12/13 0:46	5.13	100	CH31007
Barium	**47.9** (6.4)		6010B		5	ICP	08/12/13 0:46	5.13	100	CH31007
Beryllium	**0.34** (0.27)		6010B		5	ICP	08/12/13 0:46	5.13	100	CH31007
Cadmium	**2.40** (1.29)		6010B		5	ICP	08/12/13 0:46	5.13	100	CH31007
Chromium	**20.8** (2.6)		6010B		5	ICP	08/12/13 0:46	5.13	100	CH31007
Lead	**238** (12.8)		6010B		5	ICP	08/12/13 0:46	5.13	100	CH31007
Mercury	**0.410** (0.097)		7471B		5	KJK	08/10/13 13:26	1.34	40	CH30807
Nickel	**16.6** (6.4)		6010B		5	ICP	08/12/13 0:46	5.13	100	CH31007
Selenium	**2.25** (1.29)		6020A		50	SVD	08/13/13 1:29	5.13	100	CH31007
Silver	ND (1.29)		6010B		5	ICP	08/12/13 0:46	5.13	100	CH31007
Thallium	ND (1.29)		6020A		50	SVD	08/13/13 1:29	5.13	100	CH31007
Vanadium	**21.3** (2.6)		6010B		5	ICP	08/12/13 0:46	5.13	100	CH31007
Zinc	**1310** (6.4)		6010B		5	KJK	08/12/13 18:18	5.13	100	CH31007

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-133 0-0.5ft
Date Sampled: 08/05/13 09:31
Percent Solids: 71

ESS Laboratory Work Order: 1308107
ESS Laboratory Sample ID: 1308107-18
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (1.4)		6020A		50	SVD	08/13/13 1:35	5.12	100	CH31007
Arsenic	**30.3** (1.4)		6010B		1	ICP	08/12/13 0:50	5.12	100	CH31007
Barium	**38.4** (1.4)		6010B		1	ICP	08/12/13 0:50	5.12	100	CH31007
Beryllium	**0.18** (0.06)		6010B		1	ICP	08/12/13 0:50	5.12	100	CH31007
Cadmium	ND (0.28)		6010B		1	ICP	08/12/13 0:50	5.12	100	CH31007
Chromium	**18.1** (0.5)		6010B		1	ICP	08/12/13 0:50	5.12	100	CH31007
Lead	**149** (2.7)		6010B		1	ICP	08/12/13 0:50	5.12	100	CH31007
Mercury	**0.497** (0.093)		7471B		5	KJK	08/10/13 13:29	1.5	40	CH30807
Nickel	**6.0** (1.4)		6010B		1	ICP	08/12/13 0:50	5.12	100	CH31007
Selenium	ND (1.38)		6020A		50	SVD	08/13/13 1:35	5.12	100	CH31007
Silver	**0.90** (0.28)		6010B		1	ICP	08/12/13 0:50	5.12	100	CH31007
Thallium	ND (1.38)		6020A		50	SVD	08/13/13 1:35	5.12	100	CH31007
Vanadium	**24.6** (0.5)		6010B		1	ICP	08/12/13 0:50	5.12	100	CH31007
Zinc	**123** (1.4)		6010B		1	KJK	08/12/13 18:22	5.12	100	CH31007

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-133 0-0.5ft
Date Sampled: 08/05/13 09:31
Percent Solids: 71

ESS Laboratory Work Order: 1308107
ESS Laboratory Sample ID: 1308107-18
Sample Matrix: Solid

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**22500** (1390)		TOC-LK		1	SUB	08/14/13 13:56	mg/kg	CH32011

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-133 0.5-2ft
Date Sampled: 08/05/13 09:31
Percent Solids: 57

ESS Laboratory Work Order: 1308107
ESS Laboratory Sample ID: 1308107-19
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	**1.8** (1.7)		6020A		50	SVD	08/13/13 1:41	5.22	100	CH31007
Arsenic	**52.8** (1.7)		6010B		1	ICP	08/12/13 0:56	5.22	100	CH31007
Barium	**51.3** (1.7)		6010B		1	ICP	08/12/13 0:56	5.22	100	CH31007
Beryllium	**0.27** (0.07)		6010B		1	ICP	08/12/13 0:56	5.22	100	CH31007
Cadmium	**0.34** (0.34)		6010B		1	ICP	08/12/13 0:56	5.22	100	CH31007
Chromium	**29.6** (0.7)		6010B		1	ICP	08/12/13 0:56	5.22	100	CH31007
Lead	**218** (3.4)		6010B		1	ICP	08/12/13 0:56	5.22	100	CH31007
Mercury	**1.05** (0.136)		7471B		5	KJK	08/10/13 13:31	1.28	40	CH30807
Nickel	**10.0** (1.7)		6010B		1	ICP	08/12/13 0:56	5.22	100	CH31007
Selenium	ND (1.69)		6020A		50	SVD	08/13/13 1:41	5.22	100	CH31007
Silver	**1.60** (0.34)		6010B		1	ICP	08/12/13 0:56	5.22	100	CH31007
Thallium	ND (1.69)		6020A		50	SVD	08/13/13 1:41	5.22	100	CH31007
Vanadium	**46.4** (0.7)		6010B		1	ICP	08/12/13 0:56	5.22	100	CH31007
Zinc	**165** (1.7)		6010B		1	KJK	08/12/13 18:27	5.22	100	CH31007

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-133 2-4.4ft
Date Sampled: 08/05/13 09:31
Percent Solids: 67

ESS Laboratory Work Order: 1308107
ESS Laboratory Sample ID: 1308107-20
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (1.5)		6020A		50	SVD	08/13/13 1:47	5.17	100	CH31007
Arsenic	**25.6** (1.4)		6010B		1	ICP	08/12/13 1:01	5.17	100	CH31007
Barium	**36.2** (1.4)		6010B		1	ICP	08/12/13 1:01	5.17	100	CH31007
Beryllium	**0.28** (0.06)		6010B		1	ICP	08/12/13 1:01	5.17	100	CH31007
Cadmium	ND (0.29)		6010B		1	ICP	08/12/13 1:01	5.17	100	CH31007
Chromium	**19.4** (0.6)		6010B		1	ICP	08/12/13 1:01	5.17	100	CH31007
Lead	**107** (2.9)		6010B		1	ICP	08/12/13 1:01	5.17	100	CH31007
Mercury	**0.816** (0.109)		7471B		5	KJK	08/10/13 16:51	1.36	40	CH30807
Nickel	**9.5** (1.4)		6010B		1	ICP	08/12/13 1:01	5.17	100	CH31007
Selenium	**1.78** (1.46)		6020A		50	SVD	08/13/13 1:47	5.17	100	CH31007
Silver	**0.96** (0.29)		6010B		1	ICP	08/12/13 1:01	5.17	100	CH31007
Thallium	ND (1.46)		6020A		50	SVD	08/13/13 1:47	5.17	100	CH31007
Vanadium	**23.7** (0.6)		6010B		1	ICP	08/12/13 1:01	5.17	100	CH31007
Zinc	**140** (1.4)		6010B		1	KJK	08/12/13 18:41	5.17	100	CH31007

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308107

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Total Metals Solid										
Batch CH30807 - 7471A										
Blank										
Mercury	ND	0.033	mg/kg wet							
LCS										
Mercury	8.40	0.739	mg/kg wet	9.250		91	80-120			
LCS Dup										
Mercury	9.26	0.773	mg/kg wet	9.250		100	80-120	10	20	
Batch CH31007 - 3050B										
Blank										
Antimony	ND	2.5	mg/kg wet							
Arsenic	ND	2.5	mg/kg wet							
Barium	ND	2.5	mg/kg wet							
Beryllium	ND	0.10	mg/kg wet							
Cadmium	ND	0.50	mg/kg wet							
Chromium	ND	1.0	mg/kg wet							
Lead	ND	5.0	mg/kg wet							
Nickel	ND	2.5	mg/kg wet							
Selenium	ND	2.51	mg/kg wet							
Silver	ND	0.50	mg/kg wet							
Thallium	ND	2.51	mg/kg wet							
Vanadium	ND	1.0	mg/kg wet							
Zinc	ND	2.5	mg/kg wet							
LCS										
Antimony	127	9.1	mg/kg wet	106.0		120	80-120			
Arsenic	164	9.1	mg/kg wet	182.0		90	80-120			
Barium	127	9.1	mg/kg wet	143.0		89	80-120			
Beryllium	87.9	0.38	mg/kg wet	98.30		89	80-120			
Cadmium	52.9	1.83	mg/kg wet	60.40		88	80-120			
Chromium	116	3.6	mg/kg wet	125.0		93	80-120			
Lead	123	18.2	mg/kg wet	136.0		91	80-120			
Nickel	119	9.1	mg/kg wet	128.0		93	80-120			
Selenium	84.8	9.14	mg/kg wet	85.90		99	80-120			
Silver	57.8	1.83	mg/kg wet	61.30		94	80-120			
Thallium	130	9.14	mg/kg wet	144.0		90	80-120			
Vanadium	98.9	3.6	mg/kg wet	104.0		95	80-120			
Zinc	178	9.1	mg/kg wet	204.0		87	80-120			
LCS Dup										
Antimony	114	9.3	mg/kg wet	108.7		104	80-120	11	20	
Arsenic	163	9.2	mg/kg wet	186.7		87	80-120	0.6	20	
Barium	126	9.2	mg/kg wet	146.7		86	80-120	3	20	
Beryllium	88.3	0.39	mg/kg wet	100.8		88	80-120	2	20	
Cadmium	53.9	1.86	mg/kg wet	61.97		87	80-120	0.7	20	
Chromium	108	3.7	mg/kg wet	128.2		84	80-120	10	20	
Lead	121	18.5	mg/kg wet	139.5		87	80-120	2	20	
Nickel	112	9.2	mg/kg wet	131.3		85	80-120	9	20	

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308107

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Total Metals Solid										
Batch CH31007 - 3050B										
Selenium	85.7	9.31	mg/kg wet	88.13		97	80-120	1	20	
Silver	55.1	1.86	mg/kg wet	62.89		88	80-120	5	20	
Thallium	130	9.31	mg/kg wet	147.7		88	80-120	3	20	
Vanadium	94.0	3.7	mg/kg wet	106.7		88	80-120	8	20	
Zinc	168	9.2	mg/kg wet	209.3		80	80-120	9	20	

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308107

Notes and Definitions

U	Analyte included in the analysis, but not detected
D	Diluted.
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	Detection Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308107

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Department of Defense (DoD) Environmental Laboratory Accreditation Program (ELAP)
A2LA Accredited: Testing Cert# 2864.01
http://www.a2la.org/scopepdf/2864-01.pdf

Rhode Island Potable and Non Potable Water: LAI00179
http://www.health.ri.gov/labs/waterlabs-instate.php

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750
http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI0002
http://www.maine.gov/dep/blwq/topic/vessel/lab_list.pdf

Massachusetts Potable and Non Potable Water: M-RI002
http://public.dep.state.ma.us/labcert/labcert.aspx

New Hampshire (NELAP accredited) Potable and Non PotableWater, Solid and Hazardous Waste: 2424
http://www4.egov.nh.gov/des/nhelap/namesearch.asp

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313
http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006
http://datamine2.state.nj.us/dep/DEP_OPRA/

United States Department of Agriculture Soil Permit: S-54210

Maryland Potable Water: 301
http://www.mde.state.md.us/assets/document/WSP_labs-2009apr20.pdf

CHEMISTRY

A2LA Accredited: Testing Cert # 2864.01
Lead in Paint, Phthalates, Lead in Children's Metals Products (Including Jewelry)
http://www.A2LA.org/dirsearchnew/newsearch.cfm

CPSC ID# 1141
Lead Paint, Lead in Children's Metals Jewelry
http://www.cpsc.gov/cgi-bin/labapplist.aspx

TestAmerica
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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Burlington
30 Community Drive
Suite 11
South Burlington, VT 05403
Tel: (802)660-1990

TestAmerica Job ID: 200-17862-1
TestAmerica Sample Delivery Group: 200-17862-1
Client Project/Site: Soil Analysis

For:
ESS Laboratory
185 Frances Ave.
Cranston, Rhode Island 02910

Attn: Ms. Christine Taylor

Authorized for release by:
8/19/2013 4:38:19 PM

Kathryn Kelly, Project Manager I
kathryn.kelly@testamericainc.com

LINKS
Review your project results through TotalAccess
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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Definitions/Glossary 3
Case Narrative 4
Detection Summary 5
Client Sample Results 6
QC Sample Results 8
QC Association Summary 9
Lab Chronicle 10
Certification Summary 12
Method Summary 13
Sample Summary 14
Chain of Custody 15
Receipt Checklists 20

Definitions/Glossary

Client: ESS Laboratory
Project/Site: Soil Analysis

TestAmerica Job ID: 200-17862-1
SDG: 200-17862-1

Qualifiers

General Chemistry

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 200-17862-1

Laboratory: TestAmerica Burlington

Narrative

CASE NARRATIVE

Client: ESS Laboratory

Project: Soil Analysis

Report Number: 200-17862-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 08/09/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 1.4 C.

TOTAL ORGANIC CARBON

Samples 1308107-4, 1308107-7, 1308107-9, 1308107-10, 1308107-12, 1308107-13, 1308107-16 and 1308107-18 were analyzed for total organic carbon in accordance with Lloyd Kahn Method. The samples were analyzed on 08/14/2013.

No difficulties were encountered during the TOC analysis.

All quality control parameters were within the acceptance limits.

Detection Summary

Client: ESS Laboratory
Project/Site: Soil Analysis

TestAmerica Job ID: 200-17862-1
SDG: 200-17862-1

Client Sample ID: 1308107-4 — Lab Sample ID: 200-17862-1

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	55600		2940	2940	mg/Kg	1	☼	Lloyd Kahn	Total/NA

Client Sample ID: 1308107-7 — Lab Sample ID: 200-17862-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	14500		1690	1690	mg/Kg	1	☼	Lloyd Kahn	Total/NA

Client Sample ID: 1308107-9 — Lab Sample ID: 200-17862-3

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	16800		1540	1540	mg/Kg	1	☼	Lloyd Kahn	Total/NA

Client Sample ID: 1308107-10 — Lab Sample ID: 200-17862-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	6840		1280	1280	mg/Kg	1	☼	Lloyd Kahn	Total/NA

Client Sample ID: 1308107-12 — Lab Sample ID: 200-17862-5

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	12600		1360	1360	mg/Kg	1	☼	Lloyd Kahn	Total/NA

Client Sample ID: 1308107-13 — Lab Sample ID: 200-17862-6

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	27300		1330	1330	mg/Kg	1	☼	Lloyd Kahn	Total/NA

Client Sample ID: 1308107-16 — Lab Sample ID: 200-17862-7

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	20700		1340	1340	mg/Kg	1	☼	Lloyd Kahn	Total/NA

Client Sample ID: 1308107-18 — Lab Sample ID: 200-17862-8

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	22500		1390	1390	mg/Kg	1	☼	Lloyd Kahn	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 1308107-4 — **Lab Sample ID: 200-17862-1**
Date Collected: 08/06/13 00:00 — Matrix: Sediment
Date Received: 08/09/13 10:00 — Percent Solids: 34.0

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	55600		2940	2940	mg/Kg	☼		08/14/13 13:12	1
Percent Solids	34.0		0.25	0.25	%			08/12/13 15:49	1

Client Sample ID: 1308107-7 — **Lab Sample ID: 200-17862-2**
Date Collected: 08/01/13 00:00 — Matrix: Sediment
Date Received: 08/09/13 10:00 — Percent Solids: 59.1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	14500		1690	1690	mg/Kg	☼		08/14/13 13:18	1
Percent Solids	59.1		0.25	0.25	%			08/12/13 15:49	1

Client Sample ID: 1308107-9 — **Lab Sample ID: 200-17862-3**
Date Collected: 08/02/13 00:00 — Matrix: Sediment
Date Received: 08/09/13 10:00 — Percent Solids: 64.8

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	16800		1540	1540	mg/Kg	☼		08/14/13 13:25	1
Percent Solids	64.8		0.25	0.25	%			08/12/13 15:49	1

Client Sample ID: 1308107-10 — **Lab Sample ID: 200-17862-4**
Date Collected: 08/02/13 00:00 — Matrix: Sediment
Date Received: 08/09/13 10:00 — Percent Solids: 78.3

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	6840		1280	1280	mg/Kg	☼		08/14/13 13:31	1
Percent Solids	78.3		0.25	0.25	%			08/12/13 15:49	1

Client Sample ID: 1308107-12 — **Lab Sample ID: 200-17862-5**
Date Collected: 08/05/13 00:00 — Matrix: Sediment
Date Received: 08/09/13 10:00 — Percent Solids: 73.8

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	12600		1360	1360	mg/Kg	☼		08/14/13 13:37	1
Percent Solids	73.8		0.25	0.25	%			08/12/13 15:49	1

Client Sample ID: 1308107-13 — **Lab Sample ID: 200-17862-6**
Date Collected: 08/05/13 00:00 — Matrix: Sediment
Date Received: 08/09/13 10:00 — Percent Solids: 75.2

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	27300		1330	1330	mg/Kg	☼		08/14/13 13:44	1
Percent Solids	75.2		0.25	0.25	%			08/12/13 15:49	1

Client: ESS Laboratory
Project/Site: Soil Analysis

TestAmerica Job ID: 200-17862-1
SDG: 200-17862-1

Client Sample ID: 1308107-16 — **Lab Sample ID: 200-17862-7**
Date Collected: 08/05/13 00:00 — **Matrix: Sediment**
Date Received: 08/09/13 10:00 — **Percent Solids: 74.7**

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	20700		1340	1340	mg/Kg	☼		08/14/13 13:50	1
Percent Solids	74.7		0.25	0.25	%			08/12/13 15:49	1

Client Sample ID: 1308107-18 — **Lab Sample ID: 200-17862-8**
Date Collected: 08/05/13 00:00 — **Matrix: Sediment**
Date Received: 08/09/13 10:00 — **Percent Solids: 71.8**

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	22500		1390	1390	mg/Kg	☼		08/14/13 13:56	1
Percent Solids	71.8		0.25	0.25	%			08/12/13 15:49	1

Method: Lloyd Kahn - Organic Carbon, Total (TOC)

Lab Sample ID: MB 200-59843/5
Matrix: Sediment
Analysis Batch: 59843

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	1000	U	1000	1000	mg/Kg			08/14/13 12:45	1

Lab Sample ID: LCS 200-59843/6
Matrix: Sediment
Analysis Batch: 59843

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon			20100	20500		mg/Kg		102	75 - 125		

Method: Moisture - Percent Moisture

Lab Sample ID: 200-17862-1 DU
Matrix: Sediment
Analysis Batch: 59672

Client Sample ID: 1308107-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Solids	34.0			33.8		%				0.6	20

QC Association Summary

Client: ESS Laboratory
Project/Site: Soil Analysis

TestAmerica Job ID: 200-17862-1
SDG: 200-17862-1

General Chemistry

Analysis Batch: 59672

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-17862-1	1308107-4	Total/NA	Sediment	Moisture	
200-17862-1 DU	1308107-4	Total/NA	Sediment	Moisture	
200-17862-2	1308107-7	Total/NA	Sediment	Moisture	
200-17862-3	1308107-9	Total/NA	Sediment	Moisture	
200-17862-4	1308107-10	Total/NA	Sediment	Moisture	
200-17862-5	1308107-12	Total/NA	Sediment	Moisture	
200-17862-6	1308107-13	Total/NA	Sediment	Moisture	
200-17862-7	1308107-16	Total/NA	Sediment	Moisture	
200-17862-8	1308107-18	Total/NA	Sediment	Moisture	

Analysis Batch: 59843

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-17862-1	1308107-4	Total/NA	Sediment	Lloyd Kahn	
200-17862-2	1308107-7	Total/NA	Sediment	Lloyd Kahn	
200-17862-3	1308107-9	Total/NA	Sediment	Lloyd Kahn	
200-17862-4	1308107-10	Total/NA	Sediment	Lloyd Kahn	
200-17862-5	1308107-12	Total/NA	Sediment	Lloyd Kahn	
200-17862-6	1308107-13	Total/NA	Sediment	Lloyd Kahn	
200-17862-7	1308107-16	Total/NA	Sediment	Lloyd Kahn	
200-17862-8	1308107-18	Total/NA	Sediment	Lloyd Kahn	
LCS 200-59843/6	Lab Control Sample	Total/NA	Sediment	Lloyd Kahn	
MB 200-59843/5	Method Blank	Total/NA	Sediment	Lloyd Kahn	

Lab Chronicle

Client: ESS Laboratory
Project/Site: Soil Analysis

TestAmerica Job ID: 200-17862-1
SDG: 200-17862-1

Client Sample ID: 1308107-4
Lab Sample ID: 200-17862-1
Date Collected: 08/06/13 00:00
Matrix: Sediment
Date Received: 08/09/13 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	59672	08/12/13 15:49	VTP	TAL BUR
Total/NA	Analysis	Lloyd Kahn		1	59843	08/14/13 13:12	VTP	TAL BUR

Client Sample ID: 1308107-7
Lab Sample ID: 200-17862-2
Date Collected: 08/01/13 00:00
Matrix: Sediment
Date Received: 08/09/13 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	59672	08/12/13 15:49	VTP	TAL BUR
Total/NA	Analysis	Lloyd Kahn		1	59843	08/14/13 13:18	VTP	TAL BUR

Client Sample ID: 1308107-9
Lab Sample ID: 200-17862-3
Date Collected: 08/02/13 00:00
Matrix: Sediment
Date Received: 08/09/13 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	59672	08/12/13 15:49	VTP	TAL BUR
Total/NA	Analysis	Lloyd Kahn		1	59843	08/14/13 13:25	VTP	TAL BUR

Client Sample ID: 1308107-10
Lab Sample ID: 200-17862-4
Date Collected: 08/02/13 00:00
Matrix: Sediment
Date Received: 08/09/13 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	59672	08/12/13 15:49	VTP	TAL BUR
Total/NA	Analysis	Lloyd Kahn		1	59843	08/14/13 13:31	VTP	TAL BUR

Client Sample ID: 1308107-12
Lab Sample ID: 200-17862-5
Date Collected: 08/05/13 00:00
Matrix: Sediment
Date Received: 08/09/13 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	59672	08/12/13 15:49	VTP	TAL BUR
Total/NA	Analysis	Lloyd Kahn		1	59843	08/14/13 13:37	VTP	TAL BUR

Client Sample ID: 1308107-13
Lab Sample ID: 200-17862-6
Date Collected: 08/05/13 00:00
Matrix: Sediment
Date Received: 08/09/13 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	59672	08/12/13 15:49	VTP	TAL BUR

Lab Chronicle

Client: ESS Laboratory
Project/Site: Soil Analysis

TestAmerica Job ID: 200-17862-1
SDG: 200-17862-1

Client Sample ID: 1308107-13

Date Collected: 08/05/13 00:00
Date Received: 08/09/13 10:00

Lab Sample ID: 200-17862-6

Matrix: Sediment
Percent Solids: 75.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	59843	08/14/13 13:44	VTP	TAL BUR

Client Sample ID: 1308107-16

Date Collected: 08/05/13 00:00
Date Received: 08/09/13 10:00

Lab Sample ID: 200-17862-7

Matrix: Sediment

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	59672	08/12/13 15:49	VTP	TAL BUR
Total/NA	Analysis	Lloyd Kahn		1	59843	08/14/13 13:50	VTP	TAL BUR

Client Sample ID: 1308107-18

Date Collected: 08/05/13 00:00
Date Received: 08/09/13 10:00

Lab Sample ID: 200-17862-8

Matrix: Sediment

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	59672	08/12/13 15:49	VTP	TAL BUR
Total/NA	Analysis	Lloyd Kahn		1	59843	08/14/13 13:56	VTP	TAL BUR

Laboratory References:

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Certification Summary

Client: ESS Laboratory
Project/Site: Soil Analysis

TestAmerica Job ID: 200-17862-1
SDG: 200-17862-1

Laboratory: TestAmerica Burlington

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Connecticut	State Program	1	PH-0751	09-30-13
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	NA	02-13-15
Florida	NELAP	4	E87467	06-30-14
L-A-B	DoD ELAP		L2336	10-26-13
Louisiana	NELAP	6	176292	06-30-14
Maine	State Program	1	VT00008	04-17-15
Minnesota	NELAP	5	050-999-436	12-31-13
New Hampshire	NELAP	1	2006	12-18-13
New Jersey	NELAP	2	VT972	06-30-14
New York	NELAP	2	10391	04-01-14
Pennsylvania	NELAP	3	68-00489	04-30-14
Rhode Island	State Program	1	LAO00298	12-30-13
US Fish & Wildlife	Federal		LE-058448-0	02-28-14
USDA	Federal		P330-11-00093	02-17-14
Vermont	State Program	1	VT-4000	12-31-13
Virginia	NELAP	3	460209	12-14-13

Method Summary

Client: ESS Laboratory
Project/Site: Soil Analysis

TestAmerica Job ID: 200-17862-1
SDG: 200-17862-1

Method	Method Description	Protocol	Laboratory
Lloyd Kahn	Organic Carbon, Total (TOC)	EPA	TAL BUR
Moisture	Percent Moisture	EPA	TAL BUR

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Sample Summary

Client: ESS Laboratory
Project/Site: Soil Analysis

TestAmerica Job ID: 200-17862-1
SDG: 200-17862-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
200-17862-1	1308107-4	Sediment	08/06/13 00:00	08/09/13 10:00
200-17862-2	1308107-7	Sediment	08/01/13 00:00	08/09/13 10:00
200-17862-3	1308107-9	Sediment	08/02/13 00:00	08/09/13 10:00
200-17862-4	1308107-10	Sediment	08/02/13 00:00	08/09/13 10:00
200-17862-5	1308107-12	Sediment	08/05/13 00:00	08/09/13 10:00
200-17862-6	1308107-13	Sediment	08/05/13 00:00	08/09/13 10:00
200-17862-7	1308107-16	Sediment	08/05/13 00:00	08/09/13 10:00
200-17862-8	1308107-18	Sediment	08/05/13 00:00	08/09/13 10:00

ESS Laboratory

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

Page _____ of _____

Turn Time ___ Standard Other 4 day
If faster than 5 days, prior approval by laboratory is required # _____

State where samples were collected from:
(MA) RI CT NH NJ NY ME Other _____

Is this project for any of the following:
(MA-MCP) Navy USACE Other _____

Reporting Limits | ESS LAB PROJECT ID

Electronic Deliverable Yes ✓ No ___
Format: Excel __ Access __ PDF __ Other ✓

Co. Name	Project #	Project Name (20 Char. or less)
ESS	1308108	

Contact Person	Address
Christine Taylor	

City	State	Zip	PO#
			1308108

Telephone #	Fax #	Email Address
		ctaylor@thielsch.com

ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	Write Required Analysis: TCL Glycol/Meth
	8/6			✓	Sed	1308108-1	1	1	6	X
	8/2					-2				
	8/2					-4				
	8/6					-5				
	8/5					-9				
	8/5					-12				
	8/6					-13				
	8/5					-16				
	8/2					-18				
	8/2									

200-17862 COC

Container Type: P-Poly G-Glass S-Sterile V-VOA | Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present ___ Yes ___ No | Internal Use Only
Seals Intact ___ Yes ___ No NA: ___ [ ] Pickup
Cooler Temp: _____ [ ] Technicians _____

Preservation Code 1- NP, 2- HCl, 3- H_2SO_4, 4- HNO_3, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9- _____

Sampled by:

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	8/9/13 1800						
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
			8/9/13 1000				

*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt

10/26/04 A

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CHAIN OF CUSTODY

Page_____ of_____

Turn Time ___ Standard Other 4 day
If faster than 5 days, prior approval by laboratory is required #

State where samples were collected from:
(MA) RI CT NH NJ NY ME Other _____

Is this project for any of the following:
(MA-MCP) Navy USACE Other _____

Reporting Limits

ESS LAB PROJECT ID

Electronic Deliverable Yes ✓ No ___
Format: Excel __ Access __ PDF ✓ Other _____

Co. Name	ESS	Project #	1308109	Project Name (20 Char. or less)	
Contact Person	C. Taylor	Address			
City	State	Zip	PO#	1308109	
Telephone #	Fax #	Email Address	ctaylor@thielsch.com		

ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	HC Lloyd Klein	
	8/5			✓	Sed	1308109-1	1	1	6	X	
	8/5					-3					
	8/5					-6					
	8/6					-7					
	8/6					-9					
	8/6					-11					
	8/5					-12					
	8/5					-14					
	8/5					-17					
	8/5			↓	↓	-20	↓	↓	↓	↓	

Container Type: P-Poly G-Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present ___ Yes ___ No Internal Use Only

Seals Intact ___ Yes ___ No NA: ___ [ ] Pickup

Cooler Temp: _____ [ ] Technicians _____

Preservation Code 1- NP, 2- HCl, 3- H_2SO_4, 4- HNO_3, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9-_____

Sampled by:

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	3/8/13 1800	Fed ex					
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
			8/9/13 1000				

*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt

10/26/04 A

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Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

Turn Time: Standard (5-7 days) Other 4 day
If faster than 5 days, prior approval by laboratory is required #

State where samples were collected from: MA RI CT NH NJ NY ME Other ____

Is this project for any of the following: MA-MCP Navy USACE Other ____

Reporting Limits

ESS LAB PROJECT ID

Electronic Deliverable Yes ✓ No ___

Format: Excel ___ Access ___ PDF ✓ Other ____

Co. Name	Project #	Project Name (20 Char. or less)
ESS	1308110	

Contact Person	Address
C Taylor	

City	State	Zip	PO#

Telephone #	Fax #	Email Address
		ctaylor@thielsch.com

ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	Write Required Analysis: BC (Cyc/Kan)
	8/5			✓	Sed	1308110-2	1	1	6	X
	8/5					-5				
	8/5					-6				
	8/5					-9				
	8/5			↓	↓	-12	↓	↓	↓	↓

Container Type: P-Poly G-Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present ___ Yes ___ No Internal Use Only

Seals Intact ___ Yes ___ No NA: ___ [ ] Pickup

Cooler Temp: ____ [ ] Technicians ____

Preservation Code 1- NP, 2- HCl, 3- H_2SO_4, 4- HNO_3, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9- ____

Sampled by:

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	8/8/13 1800	Fed ex					
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
			8/9/13 1000				

*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A

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CHAIN OF CUSTODY

Page_____ of_____

Turn Time ___ Standard Other 4 day
If faster than 5 days, prior approval by laboratory is required # _____

State where samples were collected from:
(MA) RI CT NH NJ NY ME Other _____

Is this project for any of the following:
(MA-MCP) Navy USACE Other _____

Reporting Limits

ESS LAB PROJECT ID

Electronic Deliverable Yes ✓ No ___
Format: Excel ___ Access ___ PDF ✓ Other _____

Co. Name	Project #	Project Name (20 Char. or less)
ESS	1308107	

Contact Person	Address
Christine Taylor	

City	State	Zip	PO#

Telephone #	Fax #	Email Address
		ctaylor@thielsch.com

Write Required Analysis: TOC (Lloyd Kahn)

ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers
	8/6	0837		✓	Sed	1308107-4	1	1	6
	8/1	1443				-6			
	8/2	1232				-9			
	8/2	1232				-10			
	8/5	1250				-12			
		1250				-13			
		1250				-16			
		1350				-18			

Container Type: P-Poly G-Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present ___ Yes ___ No

Seals Intact ___ Yes ___ No NA: ___

Cooler Temp: _____

Internal Use Only
[ ] Pickup
[ ] Technicians _____

Preservation Code 1- NP, 2- HCl, 3- H_2SO_4, 4- HNO_3, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9- _____

Sampled by:

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	8/8/13 1800	Fed Ex	8/8/13				
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
			8/9/13 1000				

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1 (White) Lab Copy 2 (Yellow) Client Receipt

10/26/04 A

From: (401) 467-6454
Sample Receiving
ESS Lab
185 Frances Ave

Cranston, RI 02910

Origin ID: PVDA

FedEx Express

J13201306260326

Ship Date: 08AUG13
ActWgt: 47.0 LB
CAD: 105103550/INET3430

Delivery Address Bar Code

SHIP TO: (802) 660-1990 BILL SENDER

Sample Receiving
Test America
30 Community Dr
Ste 11
S BURLINGTON, VT 05403

Ref #
Invoice #
PO #
Dept #

FRI - 09 AUG 10:30A
PRIORITY OVERNIGHT

TRK# 0201 7964 2397 6923

EK BTVA

05403
VT-US
BTV

51AG1/09B9/1A9E

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Login Sample Receipt Checklist

Client: ESS Laboratory

Job Number: 200-17862-1
SDG Number: 200-17862-1

Login Number: 17862
List Number: 1
Creator: Marion, Greg T

List Source: TestAmerica Burlington

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.4ºC IR GUN ID 181/CF=-0.2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	Refer to Job Narrative for details.
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Received extra samples not listed on COC.
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	False	Refer to Job Narrative for details.
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

Sample and Cooler Receipt Checklist

Client: GZA GeoEnvironmental, Inc.
Client Project ID: _____
Shipped/Delivered Via: ESS Courier

ESS Project ID: 13080107
Date Project Due: 8/14/13
Days For Project: 5 Day

Items to be checked upon receipt:

1. Air Bill Manifest Present? *** No**
   Air No.:
2. Were Custody Seals Present? **No**
3. Were Custody Seals Intact? **N/A**
4. Is Radiation count < 100 CPM? **Yes**
5. Is a cooler present? **Yes**
   Cooler Temp: **4.8**
   Iced With: **Ice**
6. Was COC included with samples? **Yes**
7. Was COC signed and dated by client? **Yes**
8. Does the COC match the sample **Yes**
9. Is COC complete and correct? **Yes**
10. Are the samples properly preserved? **Yes**
11. Proper sample containers used? **Yes**
12. Any air bubbles in the VOA vials? **N/A**
13. Holding times exceeded? **No**
14. Sufficient sample volumes? **Yes**
15. Any Subcontracting needed? **No** Yes CW 8/7/13
16. Are ESS labels on correct containers? **Yes|No**
17. Were samples received intact? **Yes|No**
ESS Sample IDs: 1308107 4, 6, 9, 10, 12, 13, 16, & 18
Sub Lab: TA
Analysis: TOC
TAT: 4day

18. Was there need to call project manager to discuss status? If yes, please explain.

_____

_____

_____

Who was called?:_____ By whom? _____

Sample Number	Properly Preserved	Container Type	# of Containers	Preservative
1	Yes	4 oz Soil Jar	1	NP
1	Yes	8 oz Soil Jar	1	NP
2	Yes	4 oz Soil Jar	1	NP
2	Yes	8 oz Soil Jar	1	NP
3	Yes	4 oz Soil Jar	1	NP
3	Yes	8 oz Soil Jar	1	NP
4	Yes	2 oz Soil Jar	1	NP
4	Yes	4 oz Soil Jar	1	NP
4	Yes	8 oz Soil Jar	1	NP
5	Yes	4 oz Soil Jar	1	NP
5	Yes	8 oz Soil Jar	1	NP
6	Yes	4 oz Soil Jar	1	NP
6	Yes	8 oz Soil Jar	1	NP
7	Yes	2 oz Soil Jar	1	NP
7	Yes	4 oz Soil Jar	1	NP
7	Yes	8 oz Soil Jar	1	NP
8	Yes	4 oz Soil Jar	1	NP
8	Yes	8 oz Soil Jar	1	NP
9	Yes	2 oz Soil Jar	1	NP
9	Yes	4 oz Soil Jar	1	NP
9	Yes	8 oz Soil Jar	1	NP
10	Yes	2 oz Soil Jar	1	NP
10	Yes	4 oz Soil Jar	1	NP
10	Yes	8 oz Soil Jar	1	NP
11	Yes	4 oz Soil Jar	1	NP

Sample and Cooler Receipt Checklist

Client: GZA GeoEnvironmental, Inc. ESS Project ID: 13080107

11	Yes	8 oz Soil Jar	1	NP
12	Yes	2 oz Soil Jar	1	NP
12	Yes	4 oz Soil Jar	1	NP
12	Yes	8 oz Soil Jar	1	NP
13	Yes	2 oz Soil Jar	1	NP
13	Yes	4 oz Soil Jar	1	NP
13	Yes	8 oz Soil Jar	1	NP
14	Yes	4 oz Soil Jar	1	NP
14	Yes	8 oz Soil Jar	1	NP
15	Yes	4 oz Soil Jar	1	NP
15	Yes	8 oz Soil Jar	1	NP
16	Yes	2 oz Soil Jar	1	NP
16	Yes	4 oz Soil Jar	1	NP
16	Yes	8 oz Soil Jar	1	NP
17	Yes	4 oz Soil Jar	1	NP
17	Yes	8 oz Soil Jar	1	NP
18	Yes	2 oz Soil Jar	1	NP
18	Yes	4 oz Soil Jar	1	NP
18	Yes	8 oz Soil Jar	1	NP
19	Yes	4 oz Soil Jar	1	NP
19	Yes	8 oz Soil Jar	1	NP
20	Yes	4 oz Soil Jar	1	NP
20	Yes	8 oz Soil Jar	1	NP

Completed By: _____ Date/Time: 8/7/13 1700

Reviewed By: _____ Date/Time: 8/7/13 1810

ESS Laboratory

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

ESS LAB PROJECT ID: 1307107

Turn Time ___x___ Standard Rush _____ Approved By: _____

Reporting Limits - see prev. email correspondence

State where samples were collected: **MA RI CT NH NJ NY ME** Other_____

Is this project for any of the following: (please circle)
MA-MCP CT-RCP RGP DOD Other_____

Electonic Deliverable Yes__x__ No____
Format: Excel_x__ Access___ PDF___ Other_____

GZA Project Manager: David E. Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Avenue
Norwood, MA 02062
(781) 278-3700
PRESUMPTIVE CERTAINTY REQUIRED

Project # 171521.02
Project Name: Former Everett Staging Yard
Contract Pricing ____
Special Pricing WO#: _____

ESS Lab Sample ID	Date	Collection Time	Grab -G Composite-C	Matrix	Sample Identification	Analysis: # of Containers	MCP 14 metals	B/N Phthalates Esters 8270	PAH 8270 SIM	EPH Fractions	PCBs	TOC by Lloyd Kahn					Comment #
1	8/5/13	10:35	G	Sed	GZ-127 0.5-2'	2	X										
2	8/5/13	10:35	G	Sed	GZ-127 2-4'	2	X										
3	8/5/13	10:35	G	Sed	GZ-127 4-5'	2	X										
4	8/6/13	8:37	G	Sed	GZ-128 T 0-0.5'	2	X					X					
5	8/1/13	14:43	G	Sed	GZ-128 2-4'	2	X										
6	8/1/13	14:43	G	Sed	GZ-128 4-6'	2	X										
7	8/6/13	9:42	G	Sed	GZ-129 T 0-0.5'	2	X					X					
8	8/2/13	13:36	G	Sed	GZ-129 2-4'	2	X										
9	8/2/13	12:32	G	Sed	GZ-130 0-0.5'	2	X					X					
10	8/2/13	12:32	G	Sed	GZ-130 2-4'	2	X					X					
							AG	AG	AG	AG	AG	AG					

Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-_____

Container Type: P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filter

Cooler Present ✓ Yes ____ No
Seals Intact ✓ Yes ____ No NA: ____
Cooler Temperature: 413-6 482-6 3.2

Sampled by : Dan Scanlon

Comments: Contract Price - 10%

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Wallen	8/6/13 07:45	Brian Burson 8/7/13 1030	Brian Burson 8/7/13	1120	8/7/13 1631
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)

Please E-mail all changes to Chain of Custody in writing.

Page 9 of 10

ESS Laboratory

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Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

ESS LAB PROJECT ID: 1308107

Turn Time ___x___ Standard Rush_____ Approved By: _____

Reporting Limits - see prev. email correspondence

State where samples were collected: MA RI CT NH NJ NY ME Other_____

Is this project for any of the following: (please circle)
MA-MCP CT-RCP RGP DOD Other_____

Electonic Deliverable Yes__x__ No____
Format: Excel_x__ Access___ PDF___ Other_____

GZA Project Manager: David E. Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Avenue
Norwood, MA 02062
(781) 278-3700
PRESUMPTIVE CERTAINTY REQUIRED

Project # 171521.02

Project Name: Former Everett Staging Yard

Contract Pricing _____
Special Pricing WO#: _____

ESS Lab Sample ID	Date	Collection Time	Grab -G Composite-C	Matrix	Sample Identification	Analysis: # of Containers	MCP 14 metals	B/N Phthalates Esters 8270	PAH 8270 SIM	EPH Fractions	PCBs	TOC by Lloyd Kahn					Comment #
11	8/2/13	12:32	G	Sed	GZ-130 4-6'	2	X										
12	8/2/13	12:50	G	Sed	GZ-131 0-0.5'	2	X					X					
13	8/2/13	12:50	G	Sed	GZ-131 0.5-2'	2	X					X					
14	8/2/13	12:50	G	Sed	GZ-131 2-4'	2	X										
15	8/2/13	12:50	G	Sed	GZ-131 4-5'	2	X										
16	8/5/13	13:50	G	Sed	GZ-132 0-0.5'	2	X					X					
17	8/5/13	13:50	G	Sed	GZ-132 0.5-2'	2	X										
18	8/5/13	9:31	G	Sed	GZ-133 0-0.5'	2	X					X					
19	8/5/13	9:31	G	Sed	GZ-133 0.5-2'	2	X										
20	8/5/13	9:31	G	Sed	GZ-133 2-4'4"	2	X										
Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-_____																	
Container Type: P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA							AG	AG	AG	AG	AG	AG					

Matrix: S-Soil SD-Solid D-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filter

Cooler Present ___✓___Yes _____No
Seals Intact ___✓___ Yes _____No NA
5 coolers
Cooler Temperature: 4-1.3.6 4-8 2.C 3.2

Sampled by : Dan Scanlon

Comments: Contract Price - 10%

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	8/6/13 20:00	Bill Reagan 8/7/13 1030	Bill Reagan 8/7/13	1120	8/7/13 1632

Please E-mail all changes to Chain of Custody in writing.

CERTIFICATE OF ANALYSIS

David E Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Avenue
Norwood, MA 02062

RE: Everett (01.0171521.02)
ESS Laboratory Work Order Number: 1308108

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard
Laboratory Director

REVIEWED
By ESS Laboratory at 12:27 pm, Aug 20, 2013

Analytical Summary
The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with NELAC Standards, A2LA and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibratins, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.

Subcontracted Analyses

TestAmerica Laboratories, Inc. - Burlington, VT	Total Organic Carbon

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308108

SAMPLE RECEIPT

The following samples were received on August 07, 2013 for the analyses specified on the enclosed Chain of Custody Record.

To achieve CAM compliance for MCP data, ESS Laboratory has performed and reviewed all QA/QC Requirements and Performance Standards listed in each method. Holding times and preservation have also been reviewed. All CAM requirements have been achieved unless noted in the project narrative.

Each method has been set-up in the laboratory to reach required MCP standards. The methods for aqueous VOA and Soil Methanol VOA have known limitations for certain analytes. The regulatory standards may not be achieved due to these limitations. In addition, for all methods, matrix interferences, dilutions, and %Solids may elevate method reporting limits above regulatory standards. ESS Laboratory can provide, upon request, a Data Checker (regulatory standard comparison spreadsheet) electronic deliverable which will highlight these exceedances.

For EPH soil samples, the aromatic range results have been corrected for identified cartridge contaminant in accordance with the CAM protocol.

Question I: All samples for SVOA were analyzed for a subset of the required MCP list per the client's request.

Lab Number	SampleName	Matrix	Analysis
1308108-01	GZ-134T 0-0.5ft	Solid	6010B, 6020A, 7471B, 8082A, 8270D, EPH8270, MADEP-EPH, TOC-LK
1308108-02	GZ-134 2-3ft	Solid	6010B, 6020A, 7471B, 8082A, 8270D, EPH8270, MADEP-EPH, TOC-LK
1308108-03	GZ-134 4-6ft	Solid	6010B, 6020A, 7471B
1308108-04	GZ-134 6-8ft	Solid	6010B, 6020A, 7471B, 8082A, 8270D, EPH8270, MADEP-EPH, TOC-LK
1308108-05	GZ-135T 0-0.5ft	Solid	6010B, 6020A, 7471B, TOC-LK
1308108-06	GZ-135 2-4ft	Solid	6010B, 6020A, 7471B
1308108-07	GZ-135 4-6ft	Solid	6010B, 6020A, 7471B
1308108-08	GZ-136 0-0.5ft	Solid	6010B, 6020A, 7471B
1308108-09	GZ-136 0.5-2ft	Solid	6010B, 6020A, 7471B, 8082A, 8270D, EPH8270, MADEP-EPH, TOC-LK
1308108-10	GZ-136 2-4ft	Solid	6010B, 6020A, 7471B
1308108-11	GZ-136 4-6ft	Solid	6010B, 6020A, 7471B
1308108-12	GZ-136 8-10ft	Solid	6010B, 6020A, 7471B, TOC-LK
1308108-13	GZ-137T 0-0.5ft	Solid	6010B, 6020A, 7471B, 8082A, 8270D, EPH8270, MADEP-EPH, TOC-LK
1308108-14	GZ-137 2-4ft	Solid	6010B, 6020A, 7471B, 8082A, 8270D, EPH8270, MADEP-EPH, TOC-LK
1308108-15	GZ-137 4-5.5ft	Solid	6010B, 6020A, 7471B

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett ESS Laboratory Work Order: 1308108

1308108-16	GZ-138 0-0.5ft	Solid	6010B, 6020A, 7471B, TOC-LK
1308108-17	GZ-138 0.5-2ft	Solid	6010B, 6020A, 7471B
1308108-18	GZ-138 2-4ft	Solid	6010B, 6020A, 7471B, TOC-LK
1308108-19	GZ-138 4-6ft	Solid	6010B, 6020A, 7471B
1308108-20	GZ-138 6-8ft	Solid	6010B, 6020A, 7471B

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308108

PROJECT NARRATIVE

8082A Polychlorinated Biphenyls (PCB)

1308108-02 **Surrogate recovery(ies) diluted below the MRL (SD).**
Decachlorobiphenyl (% @ 30-150%), Decachlorobiphenyl [2C] (% @ 30-150%), Tetrachloro-m-xylene (% @ 30-150%), Tetrachloro-m-xylene [2C] (% @ 30-150%)

1308108-13 **Surrogate recovery(ies) below lower control limit (S-).**
Tetrachloro-m-xylene (20% @ 30-150%), Tetrachloro-m-xylene [2C] (15% @ 30-150%)

8270D Semi-Volatile Organic Compounds

CWH0106-CCV1 **Calibration required quadratic regression (Q).**
2,4-Dinitrophenol (110% @ 80-120%), 4,6-Dinitro-2-Methylphenol (114% @ 70-130%), Benzoic Acid (103% @ 70-130%), Pentachlorophenol (103% @ 80-120%)

CWH0106-CCV1 **Initial Calibration Verification recovery is outside of control limit (ICV).**
Benzidine , Hexachlorocyclopentadiene

CWH0118-CCV1 **Calibration required quadratic regression (Q).**
2,4-Dinitrophenol (85% @ 80-120%), 4,6-Dinitro-2-Methylphenol (100% @ 70-130%), Benzoic Acid (45% @ 70-130%), Pentachlorophenol (76% @ 80-120%)

CWH0118-CCV1 **Continuing Calibration recovery is below lower control limit (C-).**
Benzoic Acid (45% @ 70-130%), Pentachlorophenol (76% @ 80-120%)

CWH0118-CCV1 **Initial Calibration Verification recovery is outside of control limit (ICV).**
Benzidine , Hexachlorocyclopentadiene

CWH0124-CCV1 **Calibration required quadratic regression (Q).**
2,4-Dinitrophenol (109% @ 80-120%), Benzoic Acid (106% @ 70-130%)

CWH0124-CCV1 **Continuing Calibration recovery is above upper control limit (C+).**
3+4-Methylphenol (121% @ 80-120%), 4-Chloroaniline (126% @ 80-120%)

CWH0124-CCV1 **Continuing Calibration recovery is below lower control limit (C-).**
Acenaphthene (77% @ 80-120%)

CWH0124-CCV1 **Initial Calibration Verification recovery is below lower control limit (ICV-).**
2,4-Dinitrophenol

CWH0124-CCV1 **Initial Calibration Verification recovery is outside of control limit (ICV).**
1,1-Biphenyl

CWH0140-CCV1 **Calibration required quadratic regression (Q).**
2,4-Dinitrophenol (110% @ 80-120%), 4,6-Dinitro-2-Methylphenol (108% @ 70-130%), Benzoic Acid (66% @ 70-130%), Pentachlorophenol (73% @ 80-120%)

CWH0140-CCV1 **Continuing Calibration recovery is below lower control limit (C-).**
Benzoic Acid (66% @ 70-130%), N-Nitrosodimethylamine (71% @ 80-120%), Pentachlorophenol (73% @ 80-120%)

CWH0140-CCV1 **Initial Calibration Verification recovery is outside of control limit (ICV).**
Benzidine , Hexachlorocyclopentadiene

CWH0140-TUN1 **Pentachlorophenol tailing factor > 2.**

8270D(SIM) Polynuclear Aromatic Hydrocarbons

1308108-02 **Internal Standard(s) outside of criteria due to matrix (UCM/coelution is present) (IM).**

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
ESS Laboratory Work Order: 1308108

Perylene-d12 (30% @ 50-200%)

MADEP-EPH Extractable Petroleum Hydrocarbons

1308108-04 **Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).**
2-Bromonaphthalene (141% @ 40-140%)

CWH0135-CCV4 **Continuing Calibration recovery is above upper control limit (C+).**
Benzo(a)pyrene (121% @ 80-120%)

CWH0145-CCV2 **Continuing Calibration recovery is below lower control limit (C-).**
Benzo(g,h,i)perylene (54% @ 80-120%), Dibenzo(a,h)Anthracene (77% @ 80-120%), Indeno(1,2,3-cd)Pyrene (69% @ 80-120%)

No other observations noted.

End of Project Narrative.

DATA USABILITY LINKS

Definitions of Quality Control Parameters

Semivolatile Organics Internal Standard Information

Semivolatile Organics Surrogate Information

Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308108

CURRENT SW-846 METHODOLOGY VERSIONS

Analytical Methods

1010A - Flashpoint
6010C - ICP
6020A - ICP MS
7010 - Graphite Furnace
7196A - Hexavalent Chromium
7470A - Aqueous Mercury
7471B - Solid Mercury
8011 - EDB/DBCP/TCP
8015C - GRO/DRO
8081B - Pesticides
8082A - PCB
8100M - TPH
8151A - Herbicides
8260B - VOA
8270D - SVOA
8270D SIM - SVOA Low Level
9014 - Cyanide
9038 - Sulfate
9040C - Aqueous pH
9045D - Solid pH (Corrosivity)
9050A - Specific Conductance
9056A - Anions (IC)
9060A - TOC
9095B - Paint Filter
MADEP 04-1.1 - EPH / VPH

Prep Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5035 - Solid Purge and Trap

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308108

MassDEP Analytical Protocol Certification Form

MADEP RTN: _____

This form provides certification for the following data set: **1308108-01 through 1308108-20**

Matrices: ( ) Ground Water/Surface Water (X) Soil/Sediment ( ) Drinking Water ( ) Air ( ) Other:_____

CAM Protocol (check all that apply below):

( ) 8260 VOC CAM II A	(X) 7470/7471 Hg CAM III B	( ) MassDEP VPH CAM IV A	( ) 8081 Pesticides CAM V B	( ) 7196 Hex Cr CAM VI B	( ) MassDEP APH CAM IX A
(X) 8270 SVOC CAM II B	( ) 7010 Metals CAM III C	(X) MassDEP EPH CAM IV B	( ) 8151 Herbicides CAM V C	( ) 8330 Explosives CAM VIII A	( ) TO-15 VOC CAM IX B
(X) 6010 Metals CAM III A	(X) 6020 Metals CAM III D	(X) 8082 PCB CAM V A	( ) 6860 Perchlorate CAM VIII B	( ) 9014 Total Cyanide/PAC CAM VI A	

Affirmative responses to questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	Yes (X) No ( )
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	Yes (X) No ( )
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	Yes (X) No ( )
D	Does the laboratory report comply with all the reporting requirements specified in the CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	Yes (X) No ( )
E	a. VPH, EPH, APH and TO-15 only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	Yes (X) No ( )
	b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	Yes ( ) No ( )
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	Yes (X) No ( )

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocols(s)?	Yes (X) No ( )*
	***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**	
H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	Yes ( ) No (X)*
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	Yes ( ) No (X)*

All negative responses must be addressed in an attached laboratory narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: Laurel Stoddard

Date: August 20, 2013

Printed Name: Laurel Stoddard

Position: Laboratory Director

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-134T 0-0.5ft
Date Sampled: 08/06/13 10:45
Percent Solids: 32

ESS Laboratory Work Order: 1308108
ESS Laboratory Sample ID: 1308108-01
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (3.0)		6020A		50	SVD	08/13/13 2:48	5.14	100	CH31008
Arsenic	**30.7** (3.0)		6010B		1	SVD	08/12/13 1:48	5.14	100	CH31008
Barium	**59.0** (3.0)		6010B		1	SVD	08/12/13 1:48	5.14	100	CH31008
Beryllium	**0.61** (0.13)		6010B		1	SVD	08/12/13 1:48	5.14	100	CH31008
Cadmium	**1.36** (0.61)		6010B		1	SVD	08/12/13 1:48	5.14	100	CH31008
Chromium	**79.0** (1.2)		6010B		1	SVD	08/12/13 1:48	5.14	100	CH31008
Lead	**191** (6.1)		6010B		1	SVD	08/12/13 1:48	5.14	100	CH31008
Mercury	**1.06** (0.273)		7471B		5	KJK	08/10/13 14:01	1.13	40	CH30808
Nickel	**23.4** (3.0)		6010B		1	SVD	08/12/13 1:48	5.14	100	CH31008
Selenium	ND (3.05)		6020A		50	SVD	08/13/13 2:48	5.14	100	CH31008
Silver	**2.19** (0.61)		6010B		1	SVD	08/12/13 1:48	5.14	100	CH31008
Thallium	ND (3.05)		6020A		50	SVD	08/13/13 2:48	5.14	100	CH31008
Vanadium	**71.7** (1.2)		6010B		1	SVD	08/12/13 1:48	5.14	100	CH31008
Zinc	**332** (3.0)		6010B		1	KJK	08/12/13 21:01	5.14	100	CH31008

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-134T 0-0.5ft
Date Sampled: 08/06/13 10:45
Percent Solids: 32
Initial Volume: 19.3
Final Volume: 5
Extraction Method: 3540

ESS Laboratory Work Order: 1308108
ESS Laboratory Sample ID: 1308108-01
Sample Matrix: Solid
Units: mg/kg dry
Analyst: ML
Prepared: 8/8/13 17:15
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0808)		8082A		1	08/12/13 13:39		CH30839
Aroclor 1221	ND (0.0808)		8082A		1	08/12/13 13:39		CH30839
Aroclor 1232	ND (0.0808)		8082A		1	08/12/13 13:39		CH30839
Aroclor 1242	ND (0.0808)		8082A		1	08/12/13 13:39		CH30839
Aroclor 1248	**0.991** (0.0808)		8082A		1	08/12/13 13:39		CH30839
Aroclor 1254	**1.46** (0.0808)		8082A		1	08/12/13 13:39		CH30839
Aroclor 1260	**0.939** (0.0808)		8082A		1	08/12/13 13:39		CH30839
Aroclor 1262	ND (0.0808)		8082A		1	08/12/13 13:39		CH30839
Aroclor 1268	ND (0.0808)		8082A		1	08/12/13 13:39		CH30839

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*126 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*142 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*108 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*107 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-134T 0-0.5ft
Date Sampled: 08/06/13 10:45
Percent Solids: 32
Initial Volume: 30.5
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308108
ESS Laboratory Sample ID: 1308108-01
Sample Matrix: Solid
Units: mg/kg dry
Analyst: IBM
Prepared: 8/8/13 16:48

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.511)		8270D		1	08/09/13 12:05	CWH0118	CH30815
1,2-Dichlorobenzene	ND (0.511)		8270D		1	08/09/13 12:05	CWH0118	CH30815
1,3-Dichlorobenzene	ND (0.511)		8270D		1	08/09/13 12:05	CWH0118	CH30815
1,4-Dichlorobenzene	ND (0.511)		8270D		1	08/09/13 12:05	CWH0118	CH30815
2-Methylnaphthalene	ND (0.511)		8270D		1	08/09/13 12:05	CWH0118	CH30815
2-Methylphenol	ND (0.511)		8270D		1	08/09/13 12:05	CWH0118	CH30815
Acenaphthene	ND (0.511)		8270D		1	08/09/13 12:05	CWH0118	CH30815
Acenaphthylene	ND (0.511)		8270D		1	08/09/13 12:05	CWH0118	CH30815
Anthracene	ND (0.511)		8270D		1	08/09/13 12:05	CWH0118	CH30815
Benzo(a)anthracene	**0.620** (0.511)		8270D		1	08/09/13 12:05	CWH0118	CH30815
Benzo(a)pyrene	**0.775** (0.256)		8270D		1	08/09/13 12:05	CWH0118	CH30815
Benzo(b)fluoranthene	**1.10** (0.511)		8270D		1	08/09/13 12:05	CWH0118	CH30815
Benzo(g,h,i)perylene	**0.554** (0.511)		8270D		1	08/09/13 12:05	CWH0118	CH30815
Benzo(k)fluoranthene	ND (0.511)		8270D		1	08/09/13 12:05	CWH0118	CH30815
bis(2-Ethylhexyl)phthalate	**4.51** (0.511)		8270D		1	08/09/13 12:05	CWH0118	CH30815
Butylbenzylphthalate	ND (0.511)		8270D		1	08/09/13 12:05	CWH0118	CH30815
Carbazole	ND (0.511)		8270D		1	08/09/13 12:05	CWH0118	CH30815
Chrysene	**0.866** (0.256)		8270D		1	08/09/13 12:05	CWH0118	CH30815
Dibenzo(a,h)Anthracene	ND (0.256)		8270D		1	08/09/13 12:05	CWH0118	CH30815
Dibenzofuran	ND (0.511)		8270D		1	08/09/13 12:05	CWH0118	CH30815
Diethylphthalate	ND (0.511)		8270D		1	08/09/13 12:05	CWH0118	CH30815
Dimethylphthalate	ND (0.511)		8270D		1	08/09/13 12:05	CWH0118	CH30815
Di-n-butylphthalate	ND (0.511)		8270D		1	08/09/13 12:05	CWH0118	CH30815
Di-n-octylphthalate	ND (0.511)		8270D		1	08/09/13 12:05	CWH0118	CH30815
Fluoranthene	**1.31** (0.511)		8270D		1	08/09/13 12:05	CWH0118	CH30815
Fluorene	ND (0.511)		8270D		1	08/09/13 12:05	CWH0118	CH30815
Hexachlorobenzene	ND (0.511)		8270D		1	08/09/13 12:05	CWH0118	CH30815
Hexachlorocyclopentadiene	ND (2.56)		8270D		1	08/09/13 12:05	CWH0118	CH30815
Indeno(1,2,3-cd)Pyrene	ND (0.511)		8270D		1	08/09/13 12:05	CWH0118	CH30815
Naphthalene	ND (0.511)		8270D		1	08/09/13 12:05	CWH0118	CH30815
Phenanthrene	ND (0.511)		8270D		1	08/09/13 12:05	CWH0118	CH30815

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-134T 0-0.5ft
Date Sampled: 08/06/13 10:45
Percent Solids: 32
Initial Volume: 30.5
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308108
ESS Laboratory Sample ID: 1308108-01
Sample Matrix: Solid
Units: mg/kg dry
Analyst: IBM
Prepared: 8/8/13 16:48

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Phenol	ND (0.511)		8270D		1	08/09/13 12:05	CWH0118	CH30815
Pyrene	**1.36** (0.511)		8270D		1	08/09/13 12:05	CWH0118	CH30815

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*64 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*52 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*68 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*73 %*		*30-130*
Surrogate: 2-Fluorophenol	*62 %*		*30-130*
Surrogate: Nitrobenzene-d5	*69 %*		*30-130*
Surrogate: Phenol-d6	*69 %*		*30-130*
Surrogate: p-Terphenyl-d14	*86 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-134T 0-0.5ft
Date Sampled: 08/06/13 10:45
Percent Solids: 32
Initial Volume: 15.1
Final Volume: 0.5
Extraction Method: 3541

ESS Laboratory Work Order: 1308108
ESS Laboratory Sample ID: 1308108-01
Sample Matrix: Solid
Units: mg/kg dry
Analyst: IBM
Prepared: 8/8/13 17:30

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	**0.155** (0.129)		8270D		5	08/11/13 18:48	CWH0139	CH30903
Acenaphthene	ND (0.129)		8270D		5	08/11/13 18:48	CWH0139	CH30903
Acenaphthylene	**0.646** (0.129)		8270D		5	08/11/13 18:48	CWH0139	CH30903
Anthracene	**0.677** (0.129)		8270D		5	08/11/13 18:48	CWH0139	CH30903
Benzo(a)anthracene	**1.28** (0.129)		8270D		5	08/11/13 18:48	CWH0139	CH30903
Benzo(a)pyrene	**2.04** (0.129)		8270D		5	08/11/13 18:48	CWH0139	CH30903
Benzo(b)fluoranthene	**3.20** (0.129)		8270D		5	08/11/13 18:48	CWH0139	CH30903
Benzo(g,h,i)perylene	**1.69** (0.129)		8270D		5	08/11/13 18:48	CWH0139	CH30903
Benzo(k)fluoranthene	**0.873** (0.129)		8270D		5	08/11/13 18:48	CWH0139	CH30903
Chrysene	**1.76** (0.129)		8270D		5	08/11/13 18:48	CWH0139	CH30903
Dibenzo(a,h)Anthracene	**0.460** (0.129)		8270D		5	08/11/13 18:48	CWH0139	CH30903
Fluoranthene	**2.07** (0.129)		8270D		5	08/11/13 18:48	CWH0139	CH30903
Fluorene	**0.176** (0.129)		8270D		5	08/11/13 18:48	CWH0139	CH30903
Indeno(1,2,3-cd)Pyrene	**1.89** (0.129)		8270D		5	08/11/13 18:48	CWH0139	CH30903
Naphthalene	**0.692** (0.129)		8270D		5	08/11/13 18:48	CWH0139	CH30903
Phenanthrene	**1.11** (0.129)		8270D		5	08/11/13 18:48	CWH0139	CH30903
Pyrene	**2.91** (0.129)		8270D		5	08/11/13 18:48	CWH0139	CH30903

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*36 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*46 %*		*30-130*
Surrogate: Nitrobenzene-d5	*45 %*		*30-130*
Surrogate: p-Terphenyl-d14	*93 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-134T 0-0.5ft
Date Sampled: 08/06/13 10:45
Percent Solids: 32

ESS Laboratory Work Order: 1308108
ESS Laboratory Sample ID: 1308108-01
Sample Matrix: Solid

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**55200** (3010)		TOC-LK		1	SUB	08/14/13 14:03	mg/kg	CH32011

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-134T 0-0.5ft
Date Sampled: 08/06/13 10:45
Percent Solids: 32
Initial Volume: 15.5
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1308108
ESS Laboratory Sample ID: 1308108-01
Sample Matrix: Solid
Units: mg/kg dry

Prepared: 8/9/13 15:00

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	**92.5** (75.5)		MADEP-EPH		1	SEP	08/11/13 0:06	CWH0134	CH30919
C19-C36 Aliphatics1	**783** (75.5)		MADEP-EPH		1	SEP	08/11/13 0:06	CWH0134	CH30919
C11-C22 Unadjusted Aromatics1	**363** (75.5)		EPH8270		1	VSC	08/12/13 15:37	CWH0145	CH30919
C11-C22 Aromatics1,2	**355** (75.5)		EPH8270			VSC	08/12/13 15:37		[CALC]

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1-Chlorooctadecane	*74 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*112 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*104 %*		*40-140*
Surrogate: O-Terphenyl	*89 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-134 2-3ft
Date Sampled: 08/02/13 13:53
Percent Solids: 28

ESS Laboratory Work Order: 1308108
ESS Laboratory Sample ID: 1308108-02
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (3.6)		6020A		50	SVD	08/13/13 2:54	5.08	100	CH31008
Arsenic	**35.5** (3.5)		6010B		1	SVD	08/12/13 1:54	5.08	100	CH31008
Barium	**31.7** (3.5)		6010B		1	SVD	08/12/13 1:54	5.08	100	CH31008
Beryllium	**0.44** (0.15)		6010B		1	SVD	08/12/13 1:54	5.08	100	CH31008
Cadmium	**1.37** (0.71)		6010B		1	SVD	08/12/13 1:54	5.08	100	CH31008
Chromium	**54.5** (1.4)		6010B		1	SVD	08/12/13 1:54	5.08	100	CH31008
Lead	**132** (7.1)		6010B		1	SVD	08/12/13 1:54	5.08	100	CH31008
Mercury	**0.524** (0.293)		7471B		5	KJK	08/10/13 14:04	1.22	40	CH30808
Nickel	**15.4** (3.5)		6010B		1	SVD	08/12/13 1:54	5.08	100	CH31008
Selenium	ND (3.57)		6020A		50	SVD	08/13/13 2:54	5.08	100	CH31008
Silver	**1.11** (0.71)		6010B		1	SVD	08/12/13 1:54	5.08	100	CH31008
Thallium	ND (3.57)		6020A		50	SVD	08/13/13 2:54	5.08	100	CH31008
Vanadium	**83.0** (1.4)		6010B		1	SVD	08/12/13 1:54	5.08	100	CH31008
Zinc	**210** (3.5)		6010B		1	KJK	08/12/13 21:06	5.08	100	CH31008

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-134 2-3ft
Date Sampled: 08/02/13 13:53
Percent Solids: 28
Initial Volume: 19.3
Final Volume: 5
Extraction Method: 3540

ESS Laboratory Work Order: 1308108
ESS Laboratory Sample ID: 1308108-02
Sample Matrix: Solid
Units: mg/kg dry
Analyst: TAJ
Prepared: 8/8/13 17:15
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (9.35)		8082A		100	08/14/13 16:28		CH30839
Aroclor 1221	ND (9.35)		8082A		100	08/14/13 16:28		CH30839
Aroclor 1232	ND (9.35)		8082A		100	08/14/13 16:28		CH30839
Aroclor 1242	ND (9.35)		8082A		100	08/14/13 16:28		CH30839
Aroclor 1248	**113** (9.35)		8082A		100	08/14/13 16:28		CH30839
Aroclor 1254	ND (9.35)		8082A		100	08/14/13 16:28		CH30839
Aroclor 1260	ND (9.35)		8082A		100	08/14/13 16:28		CH30839
Aroclor 1262	ND (9.35)		8082A		100	08/14/13 16:28		CH30839
Aroclor 1268	ND (9.35)		8082A		100	08/14/13 16:28		CH30839

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	%	SD	30-150
Surrogate: Decachlorobiphenyl [2C]	%	SD	30-150
Surrogate: Tetrachloro-m-xylene	%	SD	30-150
Surrogate: Tetrachloro-m-xylene [2C]	%	SD	30-150

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-134 2-3ft
Date Sampled: 08/02/13 13:53
Percent Solids: 28
Initial Volume: 30.4
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308108
ESS Laboratory Sample ID: 1308108-02
Sample Matrix: Solid
Units: mg/kg dry
Analyst: IBM
Prepared: 8/8/13 16:48

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.593)		8270D		1	08/09/13 12:39	CWH0118	CH30815
1,2-Dichlorobenzene	ND (0.593)		8270D		1	08/09/13 12:39	CWH0118	CH30815
1,3-Dichlorobenzene	ND (0.593)		8270D		1	08/09/13 12:39	CWH0118	CH30815
1,4-Dichlorobenzene	ND (0.593)		8270D		1	08/09/13 12:39	CWH0118	CH30815
2-Methylnaphthalene	ND (0.593)		8270D		1	08/09/13 12:39	CWH0118	CH30815
2-Methylphenol	ND (0.593)		8270D		1	08/09/13 12:39	CWH0118	CH30815
Acenaphthene	ND (0.593)		8270D		1	08/09/13 12:39	CWH0118	CH30815
Acenaphthylene	ND (0.593)		8270D		1	08/09/13 12:39	CWH0118	CH30815
Anthracene	ND (0.593)		8270D		1	08/09/13 12:39	CWH0118	CH30815
Benzo(a)anthracene	ND (0.593)		8270D		1	08/09/13 12:39	CWH0118	CH30815
Benzo(a)pyrene	**0.325** (0.297)		8270D		1	08/09/13 12:39	CWH0118	CH30815
Benzo(b)fluoranthene	**0.799** (0.593)		8270D		1	08/09/13 12:39	CWH0118	CH30815
Benzo(g,h,i)perylene	ND (0.593)		8270D		1	08/09/13 12:39	CWH0118	CH30815
Benzo(k)fluoranthene	ND (0.593)		8270D		1	08/09/13 12:39	CWH0118	CH30815
bis(2-Ethylhexyl)phthalate	**1870** (593)		8270D		1000	08/12/13 12:42	CWH0118	CH30815
Butylbenzylphthalate	**0.844** (0.593)		8270D		1	08/09/13 12:39	CWH0118	CH30815
Carbazole	ND (0.593)		8270D		1	08/09/13 12:39	CWH0118	CH30815
Chrysene	**0.463** (0.297)		8270D		1	08/09/13 12:39	CWH0118	CH30815
Dibenzo(a,h)Anthracene	ND (0.297)		8270D		1	08/09/13 12:39	CWH0118	CH30815
Dibenzofuran	ND (0.593)		8270D		1	08/09/13 12:39	CWH0118	CH30815
Diethylphthalate	ND (0.593)		8270D		1	08/09/13 12:39	CWH0118	CH30815
Dimethylphthalate	ND (0.593)		8270D		1	08/09/13 12:39	CWH0118	CH30815
Di-n-butylphthalate	ND (0.593)		8270D		1	08/09/13 12:39	CWH0118	CH30815
Di-n-octylphthalate	**40.5** (5.93)		8270D		10	08/10/13 0:47	CWH0118	CH30815
Fluoranthene	**1.13** (0.593)		8270D		1	08/09/13 12:39	CWH0118	CH30815
Fluorene	ND (0.593)		8270D		1	08/09/13 12:39	CWH0118	CH30815
Hexachlorobenzene	ND (0.593)		8270D		1	08/09/13 12:39	CWH0118	CH30815
Hexachlorocyclopentadiene	ND (2.97)		8270D		1	08/09/13 12:39	CWH0118	CH30815
Indeno(1,2,3-cd)Pyrene	ND (0.593)		8270D		1	08/09/13 12:39	CWH0118	CH30815
Naphthalene	**4.34** (0.593)		8270D		1	08/09/13 12:39	CWH0118	CH30815
Phenanthrene	**1.56** (0.593)		8270D		1	08/09/13 12:39	CWH0118	CH30815

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-134 2-3ft
Date Sampled: 08/02/13 13:53
Percent Solids: 28
Initial Volume: 30.4
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308108
ESS Laboratory Sample ID: 1308108-02
Sample Matrix: Solid
Units: mg/kg dry
Analyst: IBM
Prepared: 8/8/13 16:48

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Phenol	ND (0.593)		8270D		1	08/09/13 12:39	CWH0118	CH30815
Pyrene	**0.870** (0.593)		8270D		1	08/09/13 12:39	CWH0118	CH30815

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*71 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*72 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*76 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*76 %*		*30-130*
Surrogate: 2-Fluorophenol	*70 %*		*30-130*
Surrogate: Nitrobenzene-d5	*80 %*		*30-130*
Surrogate: Phenol-d6	*76 %*		*30-130*
Surrogate: p-Terphenyl-d14	*68 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-134 2-3ft
Date Sampled: 08/02/13 13:53
Percent Solids: 28
Initial Volume: 15
Final Volume: 0.5
Extraction Method: 3541

ESS Laboratory Work Order: 1308108
ESS Laboratory Sample ID: 1308108-02
Sample Matrix: Solid
Units: mg/kg dry
Analyst: IBM
Prepared: 8/8/13 17:30

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	**0.571** (0.150)		8270D		5	08/14/13 5:53	CWH0174	CH30903
Acenaphthene	**0.505** (0.150)		8270D		5	08/14/13 5:53	CWH0174	CH30903
Acenaphthylene	**0.319** (0.150)		8270D		5	08/14/13 5:53	CWH0174	CH30903
Anthracene	**1.09** (0.150)		8270D		5	08/14/13 5:53	CWH0174	CH30903
Benzo(a)anthracene	**0.770** (0.150)		8270D		5	08/14/13 5:53	CWH0174	CH30903
Benzo(a)pyrene	**0.806** (0.150)		8270D		5	08/14/13 5:53	CWH0174	CH30903
Benzo(b)fluoranthene	**1.76** (0.150)		8270D		5	08/14/13 5:53	CWH0174	CH30903
Benzo(g,h,i)perylene	**1.12** (0.150)		8270D		5	08/14/13 5:53	CWH0174	CH30903
Benzo(k)fluoranthene	**1.07** (0.150)		8270D		5	08/14/13 5:53	CWH0174	CH30903
Chrysene	**1.26** (0.150)		8270D		5	08/14/13 5:53	CWH0174	CH30903
Dibenzo(a,h)Anthracene	**0.325** (0.150)		8270D		5	08/14/13 5:53	CWH0174	CH30903
Fluoranthene	**1.90** (0.150)		8270D		5	08/14/13 5:53	CWH0174	CH30903
Fluorene	**0.896** (0.150)		8270D		5	08/14/13 5:53	CWH0174	CH30903
Indeno(1,2,3-cd)Pyrene	**1.19** (0.150)		8270D		5	08/14/13 5:53	CWH0174	CH30903
Naphthalene	**7.91** (0.150)		8270D		5	08/14/13 5:53	CWH0174	CH30903
Phenanthrene	**3.63** (0.150)		8270D		5	08/14/13 5:53	CWH0174	CH30903
Pyrene	**2.48** (0.150)		8270D		5	08/14/13 5:53	CWH0174	CH30903

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*58 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*58 %*		*30-130*
Surrogate: Nitrobenzene-d5	*84 %*		*30-130*
Surrogate: p-Terphenyl-d14	*92 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-134 2-3ft
Date Sampled: 08/02/13 13:53
Percent Solids: 28

ESS Laboratory Work Order: 1308108
ESS Laboratory Sample ID: 1308108-02
Sample Matrix: Solid

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**138000** (3540)		TOC-LK		1	SUB	08/14/13 14:34	mg/kg	CH32011

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-134 2-3ft
Date Sampled: 08/02/13 13:53
Percent Solids: 28
Initial Volume: 15.4
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1308108
ESS Laboratory Sample ID: 1308108-02
Sample Matrix: Solid
Units: mg/kg dry

Prepared: 8/9/13 15:00

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	**524** (87.9)		MADEP-EPH		1	SEP	08/11/13 0:56	CWH0134	CH30919
C19-C36 Aliphatics1	**495** (87.9)		MADEP-EPH		1	SEP	08/11/13 0:56	CWH0134	CH30919
C11-C22 Unadjusted Aromatics1	**2800** (87.9)		EPH8270		1	SEP	08/11/13 11:15	CWH0135	CH30919
C11-C22 Aromatics1,2	**2790** (87.9)		EPH8270			SEP	08/11/13 11:15		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*80 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*103 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*103 %*		*40-140*
Surrogate: O-Terphenyl	*102 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-134 4-6ft
Date Sampled: 08/02/13 13:53
Percent Solids: 31

ESS Laboratory Work Order: 1308108
ESS Laboratory Sample ID: 1308108-03
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (3.2)		6020A		50	SVD	08/13/13 3:00	5.09	100	CH31008
Arsenic	**53.4** (3.2)		6010B		1	SVD	08/12/13 1:59	5.09	100	CH31008
Barium	**64.7** (3.2)		6010B		1	SVD	08/12/13 1:59	5.09	100	CH31008
Beryllium	**0.40** (0.14)		6010B		1	SVD	08/12/13 1:59	5.09	100	CH31008
Cadmium	**1.83** (0.65)		6010B		1	SVD	08/12/13 1:59	5.09	100	CH31008
Chromium	**74.2** (1.3)		6010B		1	SVD	08/12/13 1:59	5.09	100	CH31008
Lead	**187** (6.4)		6010B		1	SVD	08/12/13 1:59	5.09	100	CH31008
Mercury	**1.10** (0.270)		7471B		5	KJK	08/10/13 14:06	1.2	40	CH30808
Nickel	**11.4** (3.2)		6010B		1	SVD	08/12/13 1:59	5.09	100	CH31008
Selenium	ND (3.23)		6020A		50	SVD	08/13/13 3:00	5.09	100	CH31008
Silver	**1.81** (0.65)		6010B		1	SVD	08/12/13 1:59	5.09	100	CH31008
Thallium	ND (3.23)		6020A		50	SVD	08/13/13 3:00	5.09	100	CH31008
Vanadium	**72.6** (1.3)		6010B		1	SVD	08/12/13 1:59	5.09	100	CH31008
Zinc	**257** (3.2)		6010B		1	KJK	08/12/13 21:20	5.09	100	CH31008

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-134 6-8ft
Date Sampled: 08/02/13 13:53
Percent Solids: 52

ESS Laboratory Work Order: 1308108
ESS Laboratory Sample ID: 1308108-04
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (1.9)		6020A		50	SVD	08/13/13 3:06	5.06	100	CH31008
Arsenic	**31.2** (1.9)		6010B		1	SVD	08/12/13 2:05	5.06	100	CH31008
Barium	**69.0** (1.9)		6010B		1	SVD	08/12/13 2:05	5.06	100	CH31008
Beryllium	**0.72** (0.08)		6010B		1	SVD	08/12/13 2:05	5.06	100	CH31008
Cadmium	**1.76** (0.38)		6010B		1	SVD	08/12/13 2:05	5.06	100	CH31008
Chromium	**66.6** (0.8)		6010B		1	SVD	08/12/13 2:05	5.06	100	CH31008
Lead	**136** (3.8)		6010B		1	SVD	08/12/13 2:05	5.06	100	CH31008
Mercury	**1.09** (0.127)		7471B		5	KJK	08/10/13 14:09	1.5	40	CH30808
Nickel	**23.6** (1.9)		6010B		1	SVD	08/12/13 2:05	5.06	100	CH31008
Selenium	ND (1.92)		6020A		50	SVD	08/13/13 3:06	5.06	100	CH31008
Silver	**1.36** (0.38)		6010B		1	SVD	08/12/13 2:05	5.06	100	CH31008
Thallium	ND (1.92)		6020A		50	SVD	08/13/13 3:06	5.06	100	CH31008
Vanadium	**52.3** (0.8)		6010B		1	SVD	08/12/13 2:05	5.06	100	CH31008
Zinc	**276** (1.9)		6010B		1	KJK	08/12/13 21:25	5.06	100	CH31008

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-134 6-8ft
Date Sampled: 08/02/13 13:53
Percent Solids: 52
Initial Volume: 19.8
Final Volume: 5
Extraction Method: 3540

ESS Laboratory Work Order: 1308108
ESS Laboratory Sample ID: 1308108-04
Sample Matrix: Solid
Units: mg/kg dry
Analyst: TAJ
Prepared: 8/8/13 17:15
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0487)		8082A		1	08/13/13 19:01		CH30839
Aroclor 1221	ND (0.0487)		8082A		1	08/13/13 19:01		CH30839
Aroclor 1232	ND (0.0487)		8082A		1	08/13/13 19:01		CH30839
Aroclor 1242	ND (0.0487)		8082A		1	08/13/13 19:01		CH30839
Aroclor 1248	**0.290** (0.0487)		8082A		1	08/13/13 19:01		CH30839
Aroclor 1254	**0.499** (0.0487)		8082A		1	08/13/13 19:01		CH30839
Aroclor 1260	ND (0.0487)		8082A		1	08/13/13 19:01		CH30839
Aroclor 1262	**0.187** (0.0487)		8082A		1	08/13/13 19:01		CH30839
Aroclor 1268	ND (0.0487)		8082A		1	08/13/13 19:01		CH30839

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*137 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*127 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*98 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*94 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-134 6-8ft
Date Sampled: 08/02/13 13:53
Percent Solids: 52
Initial Volume: 30.5
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308108
ESS Laboratory Sample ID: 1308108-04
Sample Matrix: Solid
Units: mg/kg dry
Analyst: IBM
Prepared: 8/8/13 16:48

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.316)		8270D		1	08/09/13 13:12	CWH0118	CH30815
1,2-Dichlorobenzene	ND (0.316)		8270D		1	08/09/13 13:12	CWH0118	CH30815
1,3-Dichlorobenzene	ND (0.316)		8270D		1	08/09/13 13:12	CWH0118	CH30815
1,4-Dichlorobenzene	ND (0.316)		8270D		1	08/09/13 13:12	CWH0118	CH30815
2-Methylnaphthalene	**5.37** (0.316)		8270D		1	08/09/13 13:12	CWH0118	CH30815
2-Methylphenol	ND (0.316)		8270D		1	08/09/13 13:12	CWH0118	CH30815
Acenaphthene	**1.88** (0.316)		8270D		1	08/09/13 13:12	CWH0118	CH30815
Acenaphthylene	**0.677** (0.316)		8270D		1	08/09/13 13:12	CWH0118	CH30815
Anthracene	**2.38** (0.316)		8270D		1	08/09/13 13:12	CWH0118	CH30815
Benzo(a)anthracene	**1.90** (0.316)		8270D		1	08/09/13 13:12	CWH0118	CH30815
Benzo(a)pyrene	**1.22** (0.158)		8270D		1	08/09/13 13:12	CWH0118	CH30815
Benzo(b)fluoranthene	**1.49** (0.316)		8270D		1	08/09/13 13:12	CWH0118	CH30815
Benzo(g,h,i)perylene	ND (0.316)		8270D		1	08/09/13 13:12	CWH0118	CH30815
Benzo(k)fluoranthene	**0.872** (0.316)		8270D		1	08/09/13 13:12	CWH0118	CH30815
bis(2-Ethylhexyl)phthalate	**789** (31.6)		8270D		100	08/10/13 2:28	CWH0118	CH30815
Butylbenzylphthalate	**0.680** (0.316)		8270D		1	08/09/13 13:12	CWH0118	CH30815
Carbazole	ND (0.316)		8270D		1	08/09/13 13:12	CWH0118	CH30815
Chrysene	**1.85** (0.158)		8270D		1	08/09/13 13:12	CWH0118	CH30815
Dibenzo(a,h)Anthracene	ND (0.158)		8270D		1	08/09/13 13:12	CWH0118	CH30815
Dibenzofuran	**0.624** (0.316)		8270D		1	08/09/13 13:12	CWH0118	CH30815
Diethylphthalate	ND (0.316)		8270D		1	08/09/13 13:12	CWH0118	CH30815
Dimethylphthalate	ND (0.316)		8270D		1	08/09/13 13:12	CWH0118	CH30815
Di-n-butylphthalate	ND (0.316)		8270D		1	08/09/13 13:12	CWH0118	CH30815
Di-n-octylphthalate	**4.14** (3.16)		8270D		10	08/10/13 1:54	CWH0118	CH30815
Fluoranthene	**4.34** (0.316)		8270D		1	08/09/13 13:12	CWH0118	CH30815
Fluorene	**2.92** (0.316)		8270D		1	08/09/13 13:12	CWH0118	CH30815
Hexachlorobenzene	ND (0.316)		8270D		1	08/09/13 13:12	CWH0118	CH30815
Hexachlorocyclopentadiene	ND (1.58)		8270D		1	08/09/13 13:12	CWH0118	CH30815
Indeno(1,2,3-cd)Pyrene	ND (0.316)		8270D		1	08/09/13 13:12	CWH0118	CH30815
Naphthalene	ND (0.316)		8270D		1	08/09/13 13:12	CWH0118	CH30815
Phenanthrene	**6.55** (0.316)		8270D		1	08/09/13 13:12	CWH0118	CH30815

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-134 6-8ft
Date Sampled: 08/02/13 13:53
Percent Solids: 52
Initial Volume: 30.5
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308108
ESS Laboratory Sample ID: 1308108-04
Sample Matrix: Solid
Units: mg/kg dry
Analyst: IBM
Prepared: 8/8/13 16:48

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Phenol	ND (0.316)		8270D		1	08/09/13 13:12	CWH0118	CH30815
Pyrene	**3.79** (0.316)		8270D		1	08/09/13 13:12	CWH0118	CH30815

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*65 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*65 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*71 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*60 %*		*30-130*
Surrogate: 2-Fluorophenol	*65 %*		*30-130*
Surrogate: Nitrobenzene-d5	*75 %*		*30-130*
Surrogate: Phenol-d6	*71 %*		*30-130*
Surrogate: p-Terphenyl-d14	*65 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-134 6-8ft
Date Sampled: 08/02/13 13:53
Percent Solids: 52
Initial Volume: 15
Final Volume: 0.5
Extraction Method: 3541

ESS Laboratory Work Order: 1308108
ESS Laboratory Sample ID: 1308108-04
Sample Matrix: Solid
Units: mg/kg dry
Analyst: IBM
Prepared: 8/8/13 17:30

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	**6.35** (0.080)		8270D		5	08/14/13 6:42	CWH0174	CH30903
Acenaphthene	**3.34** (0.080)		8270D		5	08/14/13 6:42	CWH0174	CH30903
Acenaphthylene	**1.89** (0.080)		8270D		5	08/14/13 6:42	CWH0174	CH30903
Anthracene	**3.83** (0.080)		8270D		5	08/14/13 6:42	CWH0174	CH30903
Benzo(a)anthracene	**3.25** (0.080)		8270D		5	08/14/13 6:42	CWH0174	CH30903
Benzo(a)pyrene	**2.25** (0.080)		8270D		5	08/14/13 6:42	CWH0174	CH30903
Benzo(b)fluoranthene	**3.33** (0.080)		8270D		5	08/14/13 6:42	CWH0174	CH30903
Benzo(g,h,i)perylene	**1.62** (0.080)		8270D		5	08/14/13 6:42	CWH0174	CH30903
Benzo(k)fluoranthene	**1.40** (0.080)		8270D		5	08/14/13 6:42	CWH0174	CH30903
Chrysene	**3.09** (0.080)		8270D		5	08/14/13 6:42	CWH0174	CH30903
Dibenzo(a,h)Anthracene	**0.601** (0.080)		8270D		5	08/14/13 6:42	CWH0174	CH30903
Fluoranthene	**4.93** (0.080)		8270D		5	08/14/13 6:42	CWH0174	CH30903
Fluorene	**3.36** (0.080)		8270D		5	08/14/13 6:42	CWH0174	CH30903
Indeno(1,2,3-cd)Pyrene	**1.79** (0.080)		8270D		5	08/14/13 6:42	CWH0174	CH30903
Naphthalene	**15.2** (0.080)		8270D		5	08/14/13 6:42	CWH0174	CH30903
Phenanthrene	**9.55** (0.080)		8270D		5	08/14/13 6:42	CWH0174	CH30903
Pyrene	**6.84** (0.080)		8270D		5	08/14/13 6:42	CWH0174	CH30903

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*51 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*62 %*		*30-130*
Surrogate: Nitrobenzene-d5	*51 %*		*30-130*
Surrogate: p-Terphenyl-d14	*97 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-134 6-8ft
Date Sampled: 08/02/13 13:53
Percent Solids: 52

ESS Laboratory Work Order: 1308108
ESS Laboratory Sample ID: 1308108-04
Sample Matrix: Solid

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**31000** (1910)		TOC-LK		1	SUB	08/14/13 14:40	mg/kg	CH32011

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-134 6-8ft
Date Sampled: 08/02/13 13:53
Percent Solids: 52
Initial Volume: 15.4
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1308108
ESS Laboratory Sample ID: 1308108-04
Sample Matrix: Solid
Units: mg/kg dry

Prepared: 8/9/13 15:00

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	**612** (47.0)		MADEP-EPH		1	SEP	08/11/13 3:27	CWH0134	CH30919
C19-C36 Aliphatics1	**898** (47.0)		MADEP-EPH		1	SEP	08/11/13 3:27	CWH0134	CH30919
C11-C22 Unadjusted Aromatics1	**2590** (235)		EPH8270		5	VSC	08/12/13 23:26	CWH0145	CH30919
C11-C22 Aromatics1,2	**2530** (235)		EPH8270			VSC	08/12/13 23:26		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*86 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*141 %*	*SM*	*40-140*
Surrogate: 2-Fluorobiphenyl	*129 %*		*40-140*
Surrogate: O-Terphenyl	*102 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-135T 0-0.5ft
Date Sampled: 08/06/13 08:23
Percent Solids: 64

ESS Laboratory Work Order: 1308108
ESS Laboratory Sample ID: 1308108-05
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (1.5)		6020A		50	SVD	08/13/13 3:24	5.16	100	CH31008
Arsenic	**7.4** (1.5)		6010B		1	SVD	08/12/13 2:10	5.16	100	CH31008
Barium	**13.3** (1.5)		6010B		1	SVD	08/12/13 2:10	5.16	100	CH31008
Beryllium	**0.18** (0.06)		6010B		1	SVD	08/12/13 2:10	5.16	100	CH31008
Cadmium	ND (0.30)		6010B		1	SVD	08/12/13 2:10	5.16	100	CH31008
Chromium	**15.5** (0.6)		6010B		1	SVD	08/12/13 2:10	5.16	100	CH31008
Lead	**29.3** (3.0)		6010B		1	SVD	08/12/13 2:10	5.16	100	CH31008
Mercury	**0.099** (0.020)		7471B		1	KJK	08/10/13 17:13	1.5	40	CH30808
Nickel	**6.8** (1.5)		6010B		1	SVD	08/12/13 2:10	5.16	100	CH31008
Selenium	ND (1.51)		6020A		50	SVD	08/13/13 3:24	5.16	100	CH31008
Silver	**0.39** (0.30)		6010B		1	SVD	08/12/13 2:10	5.16	100	CH31008
Thallium	ND (1.51)		6020A		50	SVD	08/13/13 3:24	5.16	100	CH31008
Vanadium	**16.9** (0.6)		6010B		1	SVD	08/12/13 2:10	5.16	100	CH31008
Zinc	**57.5** (1.5)		6010B		1	KJK	08/12/13 21:31	5.16	100	CH31008

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-135T 0-0.5ft
Date Sampled: 08/06/13 08:23
Percent Solids: 64

ESS Laboratory Work Order: 1308108
ESS Laboratory Sample ID: 1308108-05
Sample Matrix: Solid

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**14100** (1460)		TOC-LK		1	SUB	08/14/13 14:47	mg/kg	CH32011

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-135 2-4ft
Date Sampled: 08/02/13 14:15
Percent Solids: 77

ESS Laboratory Work Order: 1308108
ESS Laboratory Sample ID: 1308108-06
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (1.3)		6020A		50	SVD	08/13/13 3:30	5.17	100	CH31008
Arsenic	**3.5** (1.3)		6010B		1	SVD	08/12/13 2:25	5.17	100	CH31008
Barium	**6.8** (1.3)		6010B		1	SVD	08/12/13 2:25	5.17	100	CH31008
Beryllium	**0.14** (0.05)		6010B		1	SVD	08/12/13 2:25	5.17	100	CH31008
Cadmium	ND (0.25)		6010B		1	SVD	08/12/13 2:25	5.17	100	CH31008
Chromium	**7.8** (0.5)		6010B		1	SVD	08/12/13 2:25	5.17	100	CH31008
Lead	ND (2.5)		6010B		1	SVD	08/12/13 2:25	5.17	100	CH31008
Mercury	ND (0.021)		7471B		1	KJK	08/10/13 17:15	1.24	40	CH30808
Nickel	**4.7** (1.3)		6010B		1	SVD	08/12/13 2:25	5.17	100	CH31008
Selenium	ND (1.26)		6020A		50	SVD	08/13/13 3:30	5.17	100	CH31008
Silver	ND (0.25)		6010B		1	SVD	08/12/13 2:25	5.17	100	CH31008
Thallium	ND (1.26)		6020A		50	SVD	08/13/13 3:30	5.17	100	CH31008
Vanadium	**10.1** (0.5)		6010B		1	SVD	08/12/13 2:25	5.17	100	CH31008
Zinc	**14.7** (1.3)		6010B		1	KJK	08/12/13 21:37	5.17	100	CH31008

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-135 4-6ft
Date Sampled: 08/02/13 14:15
Percent Solids: 70

ESS Laboratory Work Order: 1308108
ESS Laboratory Sample ID: 1308108-07
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (1.4)		6020A		50	SVD	08/13/13 3:36	5.01	100	CH31008
Arsenic	**5.5** (1.4)		6010B		1	SVD	08/12/13 2:30	5.01	100	CH31008
Barium	**12.2** (1.4)		6010B		1	SVD	08/12/13 2:30	5.01	100	CH31008
Beryllium	**0.24** (0.06)		6010B		1	SVD	08/12/13 2:30	5.01	100	CH31008
Cadmium	ND (0.29)		6010B		1	SVD	08/12/13 2:30	5.01	100	CH31008
Chromium	**12.9** (0.6)		6010B		1	SVD	08/12/13 2:30	5.01	100	CH31008
Lead	**3.0** (2.9)		6010B		1	SVD	08/12/13 2:30	5.01	100	CH31008
Mercury	ND (0.027)		7471B		1	KJK	08/10/13 17:18	1.06	40	CH30808
Nickel	**7.3** (1.4)		6010B		1	SVD	08/12/13 2:30	5.01	100	CH31008
Selenium	ND (1.44)		6020A		50	SVD	08/13/13 3:36	5.01	100	CH31008
Silver	ND (0.29)		6010B		1	SVD	08/12/13 2:30	5.01	100	CH31008
Thallium	ND (1.44)		6020A		50	SVD	08/13/13 3:36	5.01	100	CH31008
Vanadium	**16.2** (0.6)		6010B		1	SVD	08/12/13 2:30	5.01	100	CH31008
Zinc	**21.7** (1.4)		6010B		1	KJK	08/12/13 21:42	5.01	100	CH31008

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-136 0-0.5ft
Date Sampled: 08/05/13 08:50
Percent Solids: 73

ESS Laboratory Work Order: 1308108
ESS Laboratory Sample ID: 1308108-08
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	**1.4** (1.4)		6020A		50	SVD	08/13/13 3:42	5.12	100	CH31008
Arsenic	**34.6** (6.7)		6010B		5	SVD	08/12/13 2:36	5.12	100	CH31008
Barium	**55.0** (6.7)		6010B		5	SVD	08/12/13 2:36	5.12	100	CH31008
Beryllium	**0.33** (0.28)		6010B		5	SVD	08/12/13 2:36	5.12	100	CH31008
Cadmium	ND (1.35)		6010B		5	SVD	08/12/13 2:36	5.12	100	CH31008
Chromium	**28.4** (2.7)		6010B		5	SVD	08/12/13 2:36	5.12	100	CH31008
Lead	**180** (13.4)		6010B		5	SVD	08/12/13 2:36	5.12	100	CH31008
Mercury	**0.730** (0.131)		7471B		5	KJK	08/10/13 14:25	1.04	40	CH30808
Nickel	**11.0** (6.7)		6010B		5	SVD	08/12/13 2:36	5.12	100	CH31008
Selenium	**1.72** (1.35)		6020A		50	SVD	08/13/13 3:42	5.12	100	CH31008
Silver	**1.76** (1.35)		6010B		5	SVD	08/12/13 2:36	5.12	100	CH31008
Thallium	ND (1.35)		6020A		50	SVD	08/13/13 3:42	5.12	100	CH31008
Vanadium	**29.5** (2.7)		6010B		5	SVD	08/12/13 2:36	5.12	100	CH31008
Zinc	**248** (6.7)		6010B		5	KJK	08/12/13 21:48	5.12	100	CH31008

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-136 0.5-2ft
Date Sampled: 08/05/13 08:50
Percent Solids: 69

ESS Laboratory Work Order: 1308108
ESS Laboratory Sample ID: 1308108-09
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (1.4)		6020A		50	SVD	08/13/13 3:48	5.15	100	CH31008
Arsenic	**27.9** (1.4)		6010B		1	SVD	08/12/13 2:41	5.15	100	CH31008
Barium	**36.6** (1.4)		6010B		1	SVD	08/12/13 2:41	5.15	100	CH31008
Beryllium	**0.25** (0.06)		6010B		1	SVD	08/12/13 2:41	5.15	100	CH31008
Cadmium	**0.89** (0.28)		6010B		1	SVD	08/12/13 2:41	5.15	100	CH31008
Chromium	**28.9** (0.6)		6010B		1	SVD	08/12/13 2:41	5.15	100	CH31008
Lead	**127** (2.8)		6010B		1	SVD	08/12/13 2:41	5.15	100	CH31008
Mercury	**0.915** (0.119)		7471B		5	KJK	08/10/13 14:28	1.21	40	CH30808
Nickel	**9.8** (1.4)		6010B		1	SVD	08/12/13 2:41	5.15	100	CH31008
Selenium	ND (1.42)		6020A		50	SVD	08/13/13 3:48	5.15	100	CH31008
Silver	**1.43** (0.28)		6010B		1	SVD	08/12/13 2:41	5.15	100	CH31008
Thallium	ND (1.42)		6020A		50	SVD	08/13/13 3:48	5.15	100	CH31008
Vanadium	**35.0** (0.6)		6010B		1	SVD	08/12/13 2:41	5.15	100	CH31008
Zinc	**198** (1.4)		6010B		1	KJK	08/12/13 21:53	5.15	100	CH31008

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-136 0.5-2ft
Date Sampled: 08/05/13 08:50
Percent Solids: 69
Initial Volume: 19.3
Final Volume: 5
Extraction Method: 3540

ESS Laboratory Work Order: 1308108
ESS Laboratory Sample ID: 1308108-09
Sample Matrix: Solid
Units: mg/kg dry
Analyst: ML
Prepared: 8/8/13 17:15
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0377)		8082A		1	08/12/13 21:34		CH30839
Aroclor 1221	ND (0.0377)		8082A		1	08/12/13 21:34		CH30839
Aroclor 1232	ND (0.0377)		8082A		1	08/12/13 21:34		CH30839
Aroclor 1242	ND (0.0377)		8082A		1	08/12/13 21:34		CH30839
Aroclor 1248	ND (0.0377)		8082A		1	08/12/13 21:34		CH30839
Aroclor 1254	**1.44** (0.188)		8082A		5	08/13/13 19:20		CH30839
Aroclor 1260	ND (0.0377)		8082A		1	08/12/13 21:34		CH30839
Aroclor 1262	ND (0.0377)		8082A		1	08/12/13 21:34		CH30839
Aroclor 1268	ND (0.0377)		8082A		1	08/12/13 21:34		CH30839

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*104 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*107 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*74 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*72 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-136 0.5-2ft
Date Sampled: 08/05/13 08:50
Percent Solids: 69
Initial Volume: 30.1
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308108
ESS Laboratory Sample ID: 1308108-09
Sample Matrix: Solid
Units: mg/kg dry
Analyst: IBM
Prepared: 8/8/13 16:48

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.241)		8270D		1	08/09/13 13:46	CWH0118	CH30815
1,2-Dichlorobenzene	ND (0.241)		8270D		1	08/09/13 13:46	CWH0118	CH30815
1,3-Dichlorobenzene	ND (0.241)		8270D		1	08/09/13 13:46	CWH0118	CH30815
1,4-Dichlorobenzene	ND (0.241)		8270D		1	08/09/13 13:46	CWH0118	CH30815
2-Methylnaphthalene	ND (0.241)		8270D		1	08/09/13 13:46	CWH0118	CH30815
2-Methylphenol	ND (0.241)		8270D		1	08/09/13 13:46	CWH0118	CH30815
Acenaphthene	**0.300** (0.241)		8270D		1	08/09/13 13:46	CWH0118	CH30815
Acenaphthylene	ND (0.241)		8270D		1	08/09/13 13:46	CWH0118	CH30815
Anthracene	**1.46** (0.241)		8270D		1	08/09/13 13:46	CWH0118	CH30815
Benzo(a)anthracene	**0.828** (0.241)		8270D		1	08/09/13 13:46	CWH0118	CH30815
Benzo(a)pyrene	**0.754** (0.121)		8270D		1	08/09/13 13:46	CWH0118	CH30815
Benzo(b)fluoranthene	**1.15** (0.241)		8270D		1	08/09/13 13:46	CWH0118	CH30815
Benzo(g,h,i)perylene	ND (0.241)		8270D		1	08/09/13 13:46	CWH0118	CH30815
Benzo(k)fluoranthene	**0.321** (0.241)		8270D		1	08/09/13 13:46	CWH0118	CH30815
bis(2-Ethylhexyl)phthalate	**5.87** (0.241)		8270D		1	08/09/13 13:46	CWH0118	CH30815
Butylbenzylphthalate	ND (0.241)		8270D		1	08/09/13 13:46	CWH0118	CH30815
Carbazole	**0.400** (0.241)		8270D		1	08/09/13 13:46	CWH0118	CH30815
Chrysene	**0.853** (0.121)		8270D		1	08/09/13 13:46	CWH0118	CH30815
Dibenzo(a,h)Anthracene	ND (0.121)		8270D		1	08/09/13 13:46	CWH0118	CH30815
Dibenzofuran	**0.727** (0.241)		8270D		1	08/09/13 13:46	CWH0118	CH30815
Diethylphthalate	ND (0.241)		8270D		1	08/09/13 13:46	CWH0118	CH30815
Dimethylphthalate	ND (0.241)		8270D		1	08/09/13 13:46	CWH0118	CH30815
Di-n-butylphthalate	ND (0.241)		8270D		1	08/09/13 13:46	CWH0118	CH30815
Di-n-octylphthalate	ND (0.241)		8270D		1	08/09/13 13:46	CWH0118	CH30815
Fluoranthene	**3.55** (0.241)		8270D		1	08/09/13 13:46	CWH0118	CH30815
Fluorene	**0.528** (0.241)		8270D		1	08/09/13 13:46	CWH0118	CH30815
Hexachlorobenzene	ND (0.241)		8270D		1	08/09/13 13:46	CWH0118	CH30815
Hexachlorocyclopentadiene	ND (1.21)		8270D		1	08/09/13 13:46	CWH0118	CH30815
Indeno(1,2,3-cd)Pyrene	ND (0.241)		8270D		1	08/09/13 13:46	CWH0118	CH30815
Naphthalene	ND (0.241)		8270D		1	08/09/13 13:46	CWH0118	CH30815
Phenanthrene	**5.97** (0.241)		8270D		1	08/09/13 13:46	CWH0118	CH30815

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-136 0.5-2ft
Date Sampled: 08/05/13 08:50
Percent Solids: 69
Initial Volume: 30.1
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308108
ESS Laboratory Sample ID: 1308108-09
Sample Matrix: Solid
Units: mg/kg dry
Analyst: IBM
Prepared: 8/8/13 16:48

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Phenol	ND (0.241)		8270D		1	08/09/13 13:46	CWH0118	CH30815
Pyrene	**2.34** (0.241)		8270D		1	08/09/13 13:46	CWH0118	CH30815

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*56 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*60 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*61 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*63 %*		*30-130*
Surrogate: 2-Fluorophenol	*55 %*		*30-130*
Surrogate: Nitrobenzene-d5	*59 %*		*30-130*
Surrogate: Phenol-d6	*62 %*		*30-130*
Surrogate: p-Terphenyl-d14	*80 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-136 0.5-2ft
Date Sampled: 08/05/13 08:50
Percent Solids: 69
Initial Volume: 15
Final Volume: 0.5
Extraction Method: 3541

ESS Laboratory Work Order: 1308108
ESS Laboratory Sample ID: 1308108-09
Sample Matrix: Solid
Units: mg/kg dry
Analyst: IBM
Prepared: 8/8/13 17:30

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	**0.121** (0.061)		8270D		5	08/14/13 7:31	CWH0174	CH30903
Acenaphthene	**0.165** (0.061)		8270D		5	08/14/13 7:31	CWH0174	CH30903
Acenaphthylene	**0.317** (0.061)		8270D		5	08/14/13 7:31	CWH0174	CH30903
Anthracene	**0.613** (0.061)		8270D		5	08/14/13 7:31	CWH0174	CH30903
Benzo(a)anthracene	**0.640** (0.061)		8270D		5	08/14/13 7:31	CWH0174	CH30903
Benzo(a)pyrene	**0.870** (0.061)		8270D		5	08/14/13 7:31	CWH0174	CH30903
Benzo(b)fluoranthene	**1.30** (0.061)		8270D		5	08/14/13 7:31	CWH0174	CH30903
Benzo(g,h,i)perylene	**0.543** (0.061)		8270D		5	08/14/13 7:31	CWH0174	CH30903
Benzo(k)fluoranthene	**0.412** (0.061)		8270D		5	08/14/13 7:31	CWH0174	CH30903
Chrysene	**1.12** (0.061)		8270D		5	08/14/13 7:31	CWH0174	CH30903
Dibenzo(a,h)Anthracene	**0.170** (0.061)		8270D		5	08/14/13 7:31	CWH0174	CH30903
Fluoranthene	**1.25** (0.061)		8270D		5	08/14/13 7:31	CWH0174	CH30903
Fluorene	**0.218** (0.061)		8270D		5	08/14/13 7:31	CWH0174	CH30903
Indeno(1,2,3-cd)Pyrene	**0.628** (0.061)		8270D		5	08/14/13 7:31	CWH0174	CH30903
Naphthalene	**0.514** (0.061)		8270D		5	08/14/13 7:31	CWH0174	CH30903
Phenanthrene	**1.11** (0.061)		8270D		5	08/14/13 7:31	CWH0174	CH30903
Pyrene	**1.96** (0.061)		8270D		5	08/14/13 7:31	CWH0174	CH30903

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*58 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*60 %*		*30-130*
Surrogate: Nitrobenzene-d5	*58 %*		*30-130*
Surrogate: p-Terphenyl-d14	*101 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-136 0.5-2ft
Date Sampled: 08/05/13 08:50
Percent Solids: 69

ESS Laboratory Work Order: 1308108
ESS Laboratory Sample ID: 1308108-09
Sample Matrix: Solid

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**40700** (1510)		TOC-LK		1	SUB	08/14/13 14:53	mg/kg	CH32011

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-136 0.5-2ft
Date Sampled: 08/05/13 08:50
Percent Solids: 69
Initial Volume: 15.5
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1308108
ESS Laboratory Sample ID: 1308108-09
Sample Matrix: Solid
Units: mg/kg dry

Prepared: 8/9/13 15:00

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	**71.9** (35.2)		MADEP-EPH		1	SEP	08/11/13 4:18	CWH0134	CH30919
C19-C36 Aliphatics1	**270** (35.2)		MADEP-EPH		1	SEP	08/11/13 4:18	CWH0134	CH30919
C11-C22 Unadjusted Aromatics1	**269** (35.2)		EPH8270		1	VSC	08/12/13 17:10	CWH0145	CH30919
C11-C22 Aromatics1,2	**262** (35.2)		EPH8270			VSC	08/12/13 17:10		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*81 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*118 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*110 %*		*40-140*
Surrogate: O-Terphenyl	*91 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-136 2-4ft
Date Sampled: 08/05/13 08:50
Percent Solids: 75

ESS Laboratory Work Order: 1308108
ESS Laboratory Sample ID: 1308108-10
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (1.3)		6020A		50	SVD	08/13/13 3:54	5.01	100	CH31008
Arsenic	**5.1** (1.3)		6010B		1	SVD	08/12/13 2:47	5.01	100	CH31008
Barium	**9.8** (1.3)		6010B		1	SVD	08/12/13 2:47	5.01	100	CH31008
Beryllium	**0.18** (0.06)		6010B		1	SVD	08/12/13 2:47	5.01	100	CH31008
Cadmium	ND (0.27)		6010B		1	SVD	08/12/13 2:47	5.01	100	CH31008
Chromium	**10.6** (0.5)		6010B		1	SVD	08/12/13 2:47	5.01	100	CH31008
Lead	**3.5** (2.7)		6010B		1	SVD	08/12/13 2:47	5.01	100	CH31008
Mercury	ND (0.024)		7471B		1	KJK	08/10/13 17:21	1.12	40	CH30808
Nickel	**6.2** (1.3)		6010B		1	SVD	08/12/13 2:47	5.01	100	CH31008
Selenium	ND (1.34)		6020A		50	SVD	08/13/13 3:54	5.01	100	CH31008
Silver	ND (0.27)		6010B		1	SVD	08/12/13 2:47	5.01	100	CH31008
Thallium	ND (1.34)		6020A		50	SVD	08/13/13 3:54	5.01	100	CH31008
Vanadium	**13.9** (0.5)		6010B		1	SVD	08/12/13 2:47	5.01	100	CH31008
Zinc	**21.0** (1.3)		6010B		1	KJK	08/12/13 21:59	5.01	100	CH31008

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-136 4-6ft
Date Sampled: 08/05/13 08:50
Percent Solids: 73

ESS Laboratory Work Order: 1308108
ESS Laboratory Sample ID: 1308108-11
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (1.3)		6020A		50	SVD	08/13/13 4:36	5.47	100	CH31008
Arsenic	**3.9** (1.3)		6010B		1	SVD	08/12/13 3:12	5.47	100	CH31008
Barium	**8.2** (1.3)		6010B		1	SVD	08/12/13 3:12	5.47	100	CH31008
Beryllium	**0.15** (0.05)		6010B		1	SVD	08/12/13 3:12	5.47	100	CH31008
Cadmium	ND (0.25)		6010B		1	SVD	08/12/13 3:12	5.47	100	CH31008
Chromium	**9.0** (0.5)		6010B		1	SVD	08/12/13 3:12	5.47	100	CH31008
Lead	ND (2.5)		6010B		1	SVD	08/12/13 3:12	5.47	100	CH31008
Mercury	ND (0.025)		7471B		1	KJK	08/10/13 17:39	1.11	40	CH30808
Nickel	**5.4** (1.3)		6010B		1	SVD	08/12/13 3:12	5.47	100	CH31008
Selenium	ND (1.26)		6020A		50	SVD	08/13/13 4:36	5.47	100	CH31008
Silver	ND (0.25)		6010B		1	SVD	08/12/13 3:12	5.47	100	CH31008
Thallium	ND (1.26)		6020A		50	SVD	08/13/13 4:36	5.47	100	CH31008
Vanadium	**11.1** (0.5)		6010B		1	SVD	08/12/13 3:12	5.47	100	CH31008
Zinc	**17.2** (1.3)		6010B		1	KJK	08/12/13 22:33	5.47	100	CH31008

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-136 8-10ft
Date Sampled: 08/05/13 08:50
Percent Solids: 75

ESS Laboratory Work Order: 1308108
ESS Laboratory Sample ID: 1308108-12
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (1.3)		6020A		50	SVD	08/13/13 4:42	5.24	100	CH31008
Arsenic	**4.2** (1.3)		6010B		1	SVD	08/12/13 3:26	5.24	100	CH31008
Barium	**10.4** (1.3)		6010B		1	SVD	08/12/13 3:26	5.24	100	CH31008
Beryllium	**0.19** (0.05)		6010B		1	SVD	08/12/13 3:26	5.24	100	CH31008
Cadmium	ND (0.26)		6010B		1	SVD	08/12/13 3:26	5.24	100	CH31008
Chromium	**10.3** (0.5)		6010B		1	SVD	08/12/13 3:26	5.24	100	CH31008
Lead	ND (2.5)		6010B		1	SVD	08/12/13 3:26	5.24	100	CH31008
Mercury	ND (0.026)		7471B		1	KJK	08/10/13 17:42	1	40	CH30808
Nickel	**6.0** (1.3)		6010B		1	SVD	08/12/13 3:26	5.24	100	CH31008
Selenium	ND (1.28)		6020A		50	SVD	08/13/13 4:42	5.24	100	CH31008
Silver	ND (0.26)		6010B		1	SVD	08/12/13 3:26	5.24	100	CH31008
Thallium	ND (1.28)		6020A		50	SVD	08/13/13 4:42	5.24	100	CH31008
Vanadium	**13.3** (0.5)		6010B		1	SVD	08/12/13 3:26	5.24	100	CH31008
Zinc	**18.4** (1.3)		6010B		1	KJK	08/12/13 22:39	5.24	100	CH31008

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-136 8-10ft
Date Sampled: 08/05/13 08:50
Percent Solids: 75

ESS Laboratory Work Order: 1308108
ESS Laboratory Sample ID: 1308108-12
Sample Matrix: Solid

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**19100** (1340)		TOC-LK		1	SUB	08/14/13 15:00	mg/kg	CH32011

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-137T 0-0.5ft
Date Sampled: 08/06/13 08:30
Percent Solids: 50

ESS Laboratory Work Order: 1308108
ESS Laboratory Sample ID: 1308108-13
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (1.8)		6020A		50	SVD	08/13/13 4:48	5.5	100	CH31008
Arsenic	**17.9** (1.8)		6010B		1	KJK	08/12/13 22:44	5.5	100	CH31008
Barium	**37.3** (1.8)		6010B		1	KJK	08/12/13 22:44	5.5	100	CH31008
Beryllium	**0.39** (0.08)		6010B		1	KJK	08/12/13 22:44	5.5	100	CH31008
Cadmium	**0.85** (0.37)		6010B		1	KJK	08/12/13 22:44	5.5	100	CH31008
Chromium	**48.7** (0.7)		6010B		1	KJK	08/12/13 22:44	5.5	100	CH31008
Lead	**133** (3.6)		6010B		1	KJK	08/12/13 22:44	5.5	100	CH31008
Mercury	**0.777** (0.169)		7471B		5	KJK	08/10/13 14:55	1.17	40	CH30808
Nickel	**15.9** (1.8)		6010B		1	KJK	08/12/13 22:44	5.5	100	CH31008
Selenium	ND (1.83)		6020A		50	SVD	08/13/13 4:48	5.5	100	CH31008
Silver	**1.22** (0.37)		6010B		1	KJK	08/12/13 22:44	5.5	100	CH31008
Thallium	ND (1.83)		6020A		50	SVD	08/13/13 4:48	5.5	100	CH31008
Vanadium	**50.5** (0.7)		6010B		1	KJK	08/12/13 22:44	5.5	100	CH31008
Zinc	**216** (1.8)		6010B		1	KJK	08/12/13 22:44	5.5	100	CH31008

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-137T 0-0.5ft
Date Sampled: 08/06/13 08:30
Percent Solids: 50
Initial Volume: 19.3
Final Volume: 5
Extraction Method: 3540

ESS Laboratory Work Order: 1308108
ESS Laboratory Sample ID: 1308108-13
Sample Matrix: Solid
Units: mg/kg dry
Analyst: ML
Prepared: 8/8/13 17:15
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.259)		8082A		5	08/12/13 13:58		CH30839
Aroclor 1221	ND (0.0518)		8082A		1	08/12/13 13:58		CH30839
Aroclor 1232	ND (0.0518)		8082A		1	08/12/13 13:58		CH30839
Aroclor 1242	ND (0.0518)		8082A		1	08/12/13 13:58		CH30839
Aroclor 1248	**0.411** (0.0518)		8082A		1	08/12/13 13:58		CH30839
Aroclor 1254	**0.713** (0.0518)		8082A		1	08/12/13 13:58		CH30839
Aroclor 1260	**0.367** (0.0518)		8082A		1	08/12/13 13:58		CH30839
Aroclor 1262	ND (0.0518)		8082A		1	08/12/13 13:58		CH30839
Aroclor 1268	ND (0.0518)		8082A		1	08/12/13 13:58		CH30839

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*81 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*80 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*20 %*	*S-*	*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*15 %*	*S-*	*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-137T 0-0.5ft
Date Sampled: 08/06/13 08:30
Percent Solids: 50
Initial Volume: 30.3
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308108
ESS Laboratory Sample ID: 1308108-13
Sample Matrix: Solid
Units: mg/kg dry
Analyst: IBM
Prepared: 8/8/13 16:48

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.329)		8270D		1	08/09/13 14:19	CWH0118	CH30815
1,2-Dichlorobenzene	ND (0.329)		8270D		1	08/09/13 14:19	CWH0118	CH30815
1,3-Dichlorobenzene	ND (0.329)		8270D		1	08/09/13 14:19	CWH0118	CH30815
1,4-Dichlorobenzene	ND (0.329)		8270D		1	08/09/13 14:19	CWH0118	CH30815
2-Methylnaphthalene	ND (0.329)		8270D		1	08/09/13 14:19	CWH0118	CH30815
2-Methylphenol	ND (0.329)		8270D		1	08/09/13 14:19	CWH0118	CH30815
Acenaphthene	ND (0.329)		8270D		1	08/09/13 14:19	CWH0118	CH30815
Acenaphthylene	ND (0.329)		8270D		1	08/09/13 14:19	CWH0118	CH30815
Anthracene	ND (0.329)		8270D		1	08/09/13 14:19	CWH0118	CH30815
Benzo(a)anthracene	**0.819** (0.329)		8270D		1	08/09/13 14:19	CWH0118	CH30815
Benzo(a)pyrene	**1.04** (0.165)		8270D		1	08/09/13 14:19	CWH0118	CH30815
Benzo(b)fluoranthene	**1.48** (0.329)		8270D		1	08/09/13 14:19	CWH0118	CH30815
Benzo(g,h,i)perylene	ND (0.329)		8270D		1	08/09/13 14:19	CWH0118	CH30815
Benzo(k)fluoranthene	**0.632** (0.329)		8270D		1	08/09/13 14:19	CWH0118	CH30815
bis(2-Ethylhexyl)phthalate	**6.37** (0.329)		8270D		1	08/09/13 14:19	CWH0118	CH30815
Butylbenzylphthalate	ND (0.329)		8270D		1	08/09/13 14:19	CWH0118	CH30815
Carbazole	ND (0.329)		8270D		1	08/09/13 14:19	CWH0118	CH30815
Chrysene	**1.09** (0.165)		8270D		1	08/09/13 14:19	CWH0118	CH30815
Dibenzo(a,h)Anthracene	**0.173** (0.165)		8270D		1	08/09/13 14:19	CWH0118	CH30815
Dibenzofuran	ND (0.329)		8270D		1	08/09/13 14:19	CWH0118	CH30815
Diethylphthalate	ND (0.329)		8270D		1	08/09/13 14:19	CWH0118	CH30815
Dimethylphthalate	ND (0.329)		8270D		1	08/09/13 14:19	CWH0118	CH30815
Di-n-butylphthalate	ND (0.329)		8270D		1	08/09/13 14:19	CWH0118	CH30815
Di-n-octylphthalate	ND (0.329)		8270D		1	08/09/13 14:19	CWH0118	CH30815
Fluoranthene	**1.77** (0.329)		8270D		1	08/09/13 14:19	CWH0118	CH30815
Fluorene	ND (0.329)		8270D		1	08/09/13 14:19	CWH0118	CH30815
Hexachlorobenzene	ND (0.329)		8270D		1	08/09/13 14:19	CWH0118	CH30815
Hexachlorocyclopentadiene	ND (1.65)		8270D		1	08/09/13 14:19	CWH0118	CH30815
Indeno(1,2,3-cd)Pyrene	ND (0.329)		8270D		1	08/09/13 14:19	CWH0118	CH30815
Naphthalene	ND (0.329)		8270D		1	08/09/13 14:19	CWH0118	CH30815
Phenanthrene	**0.680** (0.329)		8270D		1	08/09/13 14:19	CWH0118	CH30815

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-137T 0-0.5ft
Date Sampled: 08/06/13 08:30
Percent Solids: 50
Initial Volume: 30.3
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308108
ESS Laboratory Sample ID: 1308108-13
Sample Matrix: Solid
Units: mg/kg dry
Analyst: IBM
Prepared: 8/8/13 16:48

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Phenol	ND (0.329)		8270D		1	08/09/13 14:19	CWH0118	CH30815
Pyrene	**1.55** (0.329)		8270D		1	08/09/13 14:19	CWH0118	CH30815

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*51 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*59 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*55 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*58 %*		*30-130*
Surrogate: 2-Fluorophenol	*50 %*		*30-130*
Surrogate: Nitrobenzene-d5	*55 %*		*30-130*
Surrogate: Phenol-d6	*55 %*		*30-130*
Surrogate: p-Terphenyl-d14	*66 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-137T 0-0.5ft
Date Sampled: 08/06/13 08:30
Percent Solids: 50
Initial Volume: 15.2
Final Volume: 0.5
Extraction Method: 3541

ESS Laboratory Work Order: 1308108
ESS Laboratory Sample ID: 1308108-13
Sample Matrix: Solid
Units: mg/kg dry
Analyst: IBM
Prepared: 8/8/13 17:30

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	**0.171** (0.082)		8270D		5	08/11/13 19:38	CWH0139	CH30903
Acenaphthene	**0.131** (0.082)		8270D		5	08/11/13 19:38	CWH0139	CH30903
Acenaphthylene	**0.496** (0.082)		8270D		5	08/11/13 19:38	CWH0139	CH30903
Anthracene	**0.625** (0.082)		8270D		5	08/11/13 19:38	CWH0139	CH30903
Benzo(a)anthracene	**1.15** (0.082)		8270D		5	08/11/13 19:38	CWH0139	CH30903
Benzo(a)pyrene	**1.50** (0.082)		8270D		5	08/11/13 19:38	CWH0139	CH30903
Benzo(b)fluoranthene	**2.16** (0.082)		8270D		5	08/11/13 19:38	CWH0139	CH30903
Benzo(g,h,i)perylene	**1.03** (0.082)		8270D		5	08/11/13 19:38	CWH0139	CH30903
Benzo(k)fluoranthene	**0.858** (0.082)		8270D		5	08/11/13 19:38	CWH0139	CH30903
Chrysene	**1.47** (0.082)		8270D		5	08/11/13 19:38	CWH0139	CH30903
Dibenzo(a,h)Anthracene	**0.299** (0.082)		8270D		5	08/11/13 19:38	CWH0139	CH30903
Fluoranthene	**1.88** (0.082)		8270D		5	08/11/13 19:38	CWH0139	CH30903
Fluorene	**0.197** (0.082)		8270D		5	08/11/13 19:38	CWH0139	CH30903
Indeno(1,2,3-cd)Pyrene	**1.16** (0.082)		8270D		5	08/11/13 19:38	CWH0139	CH30903
Naphthalene	**0.825** (0.082)		8270D		5	08/11/13 19:38	CWH0139	CH30903
Phenanthrene	**1.21** (0.082)		8270D		5	08/11/13 19:38	CWH0139	CH30903
Pyrene	**2.36** (0.082)		8270D		5	08/11/13 19:38	CWH0139	CH30903

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*46 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*58 %*		*30-130*
Surrogate: Nitrobenzene-d5	*62 %*		*30-130*
Surrogate: p-Terphenyl-d14	*85 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-137T 0-0.5ft
Date Sampled: 08/06/13 08:30
Percent Solids: 50

ESS Laboratory Work Order: 1308108
ESS Laboratory Sample ID: 1308108-13
Sample Matrix: Solid

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**35700** (1950)		TOC-LK		1	SUB	08/14/13 15:07	mg/kg	CH32011

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-137T 0-0.5ft
Date Sampled: 08/06/13 08:30
Percent Solids: 50
Initial Volume: 15.9
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1308108
ESS Laboratory Sample ID: 1308108-13
Sample Matrix: Solid
Units: mg/kg dry

Prepared: 8/9/13 15:00

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	**54.1** (47.1)		MADEP-EPH		1	SEP	08/11/13 5:08	CWH0134	CH30919
C19-C36 Aliphatics1	**398** (47.1)		MADEP-EPH		1	SEP	08/11/13 5:08	CWH0134	CH30919
C11-C22 Unadjusted Aromatics1	**234** (47.1)		EPH8270		1	VSC	08/12/13 17:58	CWH0145	CH30919
C11-C22 Aromatics1,2	**226** (47.1)		EPH8270			VSC	08/12/13 17:58		[CALC]

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1-Chlorooctadecane	*76 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*112 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*109 %*		*40-140*
Surrogate: O-Terphenyl	*86 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-137 2-4ft
Date Sampled: 08/05/13 09:16
Percent Solids: 78

ESS Laboratory Work Order: 1308108
ESS Laboratory Sample ID: 1308108-14
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	**1.5** (1.3)		6020A		50	SVD	08/13/13 4:54	5.05	100	CH31008
Arsenic	**15.4** (1.3)		6010B		1	SVD	08/12/13 3:36	5.05	100	CH31008
Barium	**30.5** (1.3)		6010B		1	SVD	08/12/13 3:36	5.05	100	CH31008
Beryllium	**0.17** (0.05)		6010B		1	SVD	08/12/13 3:36	5.05	100	CH31008
Cadmium	**0.36** (0.25)		6010B		1	SVD	08/12/13 3:36	5.05	100	CH31008
Chromium	**13.8** (0.5)		6010B		1	SVD	08/12/13 3:36	5.05	100	CH31008
Lead	**131** (2.5)		6010B		1	SVD	08/12/13 3:36	5.05	100	CH31008
Mercury	ND (0.018)		7471B		1	KJK	08/10/13 17:45	1.38	40	CH30808
Nickel	**6.7** (1.3)		6010B		1	SVD	08/12/13 3:36	5.05	100	CH31008
Selenium	ND (1.27)		6020A		50	SVD	08/13/13 4:54	5.05	100	CH31008
Silver	**0.96** (0.25)		6010B		1	SVD	08/12/13 3:36	5.05	100	CH31008
Thallium	ND (1.27)		6020A		50	SVD	08/13/13 4:54	5.05	100	CH31008
Vanadium	**16.0** (0.5)		6010B		1	SVD	08/12/13 3:36	5.05	100	CH31008
Zinc	**132** (1.3)		6010B		1	KJK	08/12/13 22:50	5.05	100	CH31008

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-137 2-4ft
Date Sampled: 08/05/13 09:16
Percent Solids: 78
Initial Volume: 19.8
Final Volume: 5
Extraction Method: 3540

ESS Laboratory Work Order: 1308108
ESS Laboratory Sample ID: 1308108-14
Sample Matrix: Solid
Units: mg/kg dry
Analyst: TAJ
Prepared: 8/8/13 17:15
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0323)		8082A		1	08/13/13 19:38		CH30839
Aroclor 1221	ND (0.0323)		8082A		1	08/13/13 19:38		CH30839
Aroclor 1232	ND (0.0323)		8082A		1	08/13/13 19:38		CH30839
Aroclor 1242	ND (0.0323)		8082A		1	08/13/13 19:38		CH30839
Aroclor 1248	**0.0796** (0.0323)		8082A		1	08/13/13 19:38		CH30839
Aroclor 1254	**0.0826** (0.0323)		8082A		1	08/13/13 19:38		CH30839
Aroclor 1260	ND (0.0323)		8082A		1	08/13/13 19:38		CH30839
Aroclor 1262	**0.0565** (0.0323)		8082A		1	08/13/13 19:38		CH30839
Aroclor 1268	ND (0.0323)		8082A		1	08/13/13 19:38		CH30839

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*141 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*125 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*98 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*96 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-137 2-4ft
Date Sampled: 08/05/13 09:16
Percent Solids: 78
Initial Volume: 15.4
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308108
ESS Laboratory Sample ID: 1308108-14
Sample Matrix: Solid
Units: mg/kg dry
Analyst: SEP
Prepared: 8/9/13 19:05

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.415)		8270D		1	08/11/13 13:35	CWH0140	CH30921
1,2-Dichlorobenzene	ND (0.415)		8270D		1	08/11/13 13:35	CWH0140	CH30921
1,3-Dichlorobenzene	ND (0.415)		8270D		1	08/11/13 13:35	CWH0140	CH30921
1,4-Dichlorobenzene	ND (0.415)		8270D		1	08/11/13 13:35	CWH0140	CH30921
2-Methylnaphthalene	ND (0.415)		8270D		1	08/11/13 13:35	CWH0140	CH30921
2-Methylphenol	ND (0.415)		8270D		1	08/11/13 13:35	CWH0140	CH30921
Acenaphthene	ND (0.415)		8270D		1	08/11/13 13:35	CWH0140	CH30921
Acenaphthylene	ND (0.415)		8270D		1	08/11/13 13:35	CWH0140	CH30921
Anthracene	ND (0.415)		8270D		1	08/11/13 13:35	CWH0140	CH30921
Benzo(a)anthracene	**0.451** (0.415)		8270D		1	08/11/13 13:35	CWH0140	CH30921
Benzo(a)pyrene	**0.399** (0.208)		8270D		1	08/11/13 13:35	CWH0140	CH30921
Benzo(b)fluoranthene	**0.425** (0.415)		8270D		1	08/11/13 13:35	CWH0140	CH30921
Benzo(g,h,i)perylene	ND (0.415)		8270D		1	08/11/13 13:35	CWH0140	CH30921
Benzo(k)fluoranthene	ND (0.415)		8270D		1	08/11/13 13:35	CWH0140	CH30921
bis(2-Ethylhexyl)phthalate	**30.1** (4.15)		8270D		10	08/12/13 13:16	CWH0140	CH30921
Butylbenzylphthalate	ND (0.415)		8270D		1	08/11/13 13:35	CWH0140	CH30921
Carbazole	ND (0.415)		8270D		1	08/11/13 13:35	CWH0140	CH30921
Chrysene	**0.421** (0.208)		8270D		1	08/11/13 13:35	CWH0140	CH30921
Dibenzo(a,h)Anthracene	ND (0.208)		8270D		1	08/11/13 13:35	CWH0140	CH30921
Dibenzofuran	ND (0.415)		8270D		1	08/11/13 13:35	CWH0140	CH30921
Diethylphthalate	ND (0.415)		8270D		1	08/11/13 13:35	CWH0140	CH30921
Dimethylphthalate	ND (0.415)		8270D		1	08/11/13 13:35	CWH0140	CH30921
Di-n-butylphthalate	ND (0.415)		8270D		1	08/11/13 13:35	CWH0140	CH30921
Di-n-octylphthalate	ND (0.415)		8270D		1	08/11/13 13:35	CWH0140	CH30921
Fluoranthene	**0.725** (0.415)		8270D		1	08/11/13 13:35	CWH0140	CH30921
Fluorene	ND (0.415)		8270D		1	08/11/13 13:35	CWH0140	CH30921
Hexachlorobenzene	ND (0.415)		8270D		1	08/11/13 13:35	CWH0140	CH30921
Hexachlorocyclopentadiene	ND (2.08)		8270D		1	08/11/13 13:35	CWH0140	CH30921
Indeno(1,2,3-cd)Pyrene	ND (0.415)		8270D		1	08/11/13 13:35	CWH0140	CH30921
Naphthalene	ND (0.415)		8270D		1	08/11/13 13:35	CWH0140	CH30921
Phenanthrene	ND (0.415)		8270D		1	08/11/13 13:35	CWH0140	CH30921

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-137 2-4ft
Date Sampled: 08/05/13 09:16
Percent Solids: 78
Initial Volume: 15.4
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308108
ESS Laboratory Sample ID: 1308108-14
Sample Matrix: Solid
Units: mg/kg dry
Analyst: SEP
Prepared: 8/9/13 19:05

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Phenol	ND (0.415)		8270D		1	08/11/13 13:35	CWH0140	CH30921
Pyrene	**1.10** (0.415)		8270D		1	08/11/13 13:35	CWH0140	CH30921

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*59 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*58 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*62 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*64 %*		*30-130*
Surrogate: 2-Fluorophenol	*58 %*		*30-130*
Surrogate: Nitrobenzene-d5	*62 %*		*30-130*
Surrogate: Phenol-d6	*63 %*		*30-130*
Surrogate: p-Terphenyl-d14	*88 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-137 2-4ft
Date Sampled: 08/05/13 09:16
Percent Solids: 78
Initial Volume: 15
Final Volume: 0.5
Extraction Method: 3541

ESS Laboratory Work Order: 1308108
ESS Laboratory Sample ID: 1308108-14
Sample Matrix: Solid
Units: mg/kg dry
Analyst: IBM
Prepared: 8/8/13 17:30

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	**0.107** (0.053)		8270D		5	08/14/13 8:22	CWH0174	CH30903
Acenaphthene	**0.190** (0.053)		8270D		5	08/14/13 8:22	CWH0174	CH30903
Acenaphthylene	**0.258** (0.053)		8270D		5	08/14/13 8:22	CWH0174	CH30903
Anthracene	**0.703** (0.053)		8270D		5	08/14/13 8:22	CWH0174	CH30903
Benzo(a)anthracene	**0.906** (0.053)		8270D		5	08/14/13 8:22	CWH0174	CH30903
Benzo(a)pyrene	**0.982** (0.053)		8270D		5	08/14/13 8:22	CWH0174	CH30903
Benzo(b)fluoranthene	**1.18** (0.053)		8270D		5	08/14/13 8:22	CWH0174	CH30903
Benzo(g,h,i)perylene	**0.552** (0.053)		8270D		5	08/14/13 8:22	CWH0174	CH30903
Benzo(k)fluoranthene	**0.437** (0.053)		8270D		5	08/14/13 8:22	CWH0174	CH30903
Chrysene	**0.946** (0.053)		8270D		5	08/14/13 8:22	CWH0174	CH30903
Dibenzo(a,h)Anthracene	**0.181** (0.053)		8270D		5	08/14/13 8:22	CWH0174	CH30903
Fluoranthene	**1.52** (0.053)		8270D		5	08/14/13 8:22	CWH0174	CH30903
Fluorene	**0.187** (0.053)		8270D		5	08/14/13 8:22	CWH0174	CH30903
Indeno(1,2,3-cd)Pyrene	**0.641** (0.053)		8270D		5	08/14/13 8:22	CWH0174	CH30903
Naphthalene	**0.394** (0.053)		8270D		5	08/14/13 8:22	CWH0174	CH30903
Phenanthrene	**1.19** (0.053)		8270D		5	08/14/13 8:22	CWH0174	CH30903
Pyrene	**2.02** (0.053)		8270D		5	08/14/13 8:22	CWH0174	CH30903

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*60 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*54 %*		*30-130*
Surrogate: Nitrobenzene-d5	*50 %*		*30-130*
Surrogate: p-Terphenyl-d14	*89 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-137 2-4ft
Date Sampled: 08/05/13 09:16
Percent Solids: 78

ESS Laboratory Work Order: 1308108
ESS Laboratory Sample ID: 1308108-14
Sample Matrix: Solid

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**6760** (1270)		TOC-LK		1	SUB	08/14/13 15:14	mg/kg	CH32011

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-137 2-4ft
Date Sampled: 08/05/13 09:16
Percent Solids: 78
Initial Volume: 15.3
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1308108
ESS Laboratory Sample ID: 1308108-14
Sample Matrix: Solid
Units: mg/kg dry

Prepared: 8/9/13 15:00

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (31.3)		MADEP-EPH		1	SEP	08/11/13 5:59	CWH0134	CH30919
C19-C36 Aliphatics1	**61.2** (31.3)		MADEP-EPH		1	SEP	08/11/13 5:59	CWH0134	CH30919
C11-C22 Unadjusted Aromatics1	**66.9** (31.3)		EPH8270		1	SEP	08/11/13 5:46	CWH0135	CH30919
C11-C22 Aromatics1,2	**66.9** (31.3)		EPH8270			SEP	08/11/13 5:46		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*83 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*107 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*99 %*		*40-140*
Surrogate: O-Terphenyl	*87 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-137 4-5.5ft
Date Sampled: 08/05/13 09:16
Percent Solids: 82

ESS Laboratory Work Order: 1308108
ESS Laboratory Sample ID: 1308108-15
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (1.2)		6020A		50	SVD	08/13/13 5:00	5.31	100	CH31008
Arsenic	**7.2** (1.1)		6010B		1	SVD	08/12/13 3:42	5.31	100	CH31008
Barium	**7.8** (1.1)		6010B		1	SVD	08/12/13 3:42	5.31	100	CH31008
Beryllium	**0.25** (0.05)		6010B		1	SVD	08/12/13 3:42	5.31	100	CH31008
Cadmium	ND (0.23)		6010B		1	SVD	08/12/13 3:42	5.31	100	CH31008
Chromium	**9.8** (0.5)		6010B		1	SVD	08/12/13 3:42	5.31	100	CH31008
Lead	**7.0** (2.3)		6010B		1	SVD	08/12/13 3:42	5.31	100	CH31008
Mercury	ND (0.022)		7471B		1	KJK	08/10/13 17:47	1.1	40	CH30808
Nickel	**6.0** (1.1)		6010B		1	SVD	08/12/13 3:42	5.31	100	CH31008
Selenium	ND (1.16)		6020A		50	SVD	08/13/13 5:00	5.31	100	CH31008
Silver	ND (0.23)		6010B		1	SVD	08/12/13 3:42	5.31	100	CH31008
Thallium	ND (1.16)		6020A		50	SVD	08/13/13 5:00	5.31	100	CH31008
Vanadium	**14.1** (0.5)		6010B		1	SVD	08/12/13 3:42	5.31	100	CH31008
Zinc	**21.2** (1.1)		6010B		1	KJK	08/12/13 22:55	5.31	100	CH31008

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-138 0-0.5ft
Date Sampled: 08/02/13 14:25
Percent Solids: 36

ESS Laboratory Work Order: 1308108
ESS Laboratory Sample ID: 1308108-16
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (2.7)		6020A		50	SVD	08/13/13 5:07	5.21	100	CH31008
Arsenic	**30.3** (2.7)		6010B		1	SVD	08/12/13 3:47	5.21	100	CH31008
Barium	**58.2** (2.7)		6010B		1	SVD	08/12/13 3:47	5.21	100	CH31008
Beryllium	**0.59** (0.11)		6010B		1	SVD	08/12/13 3:47	5.21	100	CH31008
Cadmium	**1.47** (0.54)		6010B		1	SVD	08/12/13 3:47	5.21	100	CH31008
Chromium	**82.4** (1.1)		6010B		1	SVD	08/12/13 3:47	5.21	100	CH31008
Lead	**183** (5.4)		6010B		1	SVD	08/12/13 3:47	5.21	100	CH31008
Mercury	**0.949** (0.224)		7471B		5	KJK	08/10/13 15:03	1.23	40	CH30808
Nickel	**25.3** (2.7)		6010B		1	SVD	08/12/13 3:47	5.21	100	CH31008
Selenium	ND (2.69)		6020A		50	SVD	08/13/13 5:07	5.21	100	CH31008
Silver	**2.29** (0.54)		6010B		1	SVD	08/12/13 3:47	5.21	100	CH31008
Thallium	ND (2.69)		6020A		50	SVD	08/13/13 5:07	5.21	100	CH31008
Vanadium	**77.3** (1.1)		6010B		1	SVD	08/12/13 3:47	5.21	100	CH31008
Zinc	**322** (2.7)		6010B		1	KJK	08/12/13 23:01	5.21	100	CH31008

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-138 0-0.5ft
Date Sampled: 08/02/13 14:25
Percent Solids: 36

ESS Laboratory Work Order: 1308108
ESS Laboratory Sample ID: 1308108-16
Sample Matrix: Solid

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**61300** (2670)		TOC-LK		1	SUB	08/14/13 15:21	mg/kg	CH32011

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-138 0.5-2ft
Date Sampled: 08/02/13 14:25
Percent Solids: 34

ESS Laboratory Work Order: 1308108
ESS Laboratory Sample ID: 1308108-17
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (2.9)		6020A		50	SVD	08/13/13 5:13	5.02	100	CH31008
Arsenic	**28.6** (2.9)		6010B		1	SVD	08/12/13 3:53	5.02	100	CH31008
Barium	**48.4** (2.9)		6010B		1	SVD	08/12/13 3:53	5.02	100	CH31008
Beryllium	**0.59** (0.12)		6010B		1	SVD	08/12/13 3:53	5.02	100	CH31008
Cadmium	**1.51** (0.59)		6010B		1	SVD	08/12/13 3:53	5.02	100	CH31008
Chromium	**68.2** (1.2)		6010B		1	SVD	08/12/13 3:53	5.02	100	CH31008
Lead	**140** (5.8)		6010B		1	SVD	08/12/13 3:53	5.02	100	CH31008
Mercury	**0.779** (0.212)		7471B		5	KJK	08/10/13 15:06	1.37	40	CH30808
Nickel	**19.4** (2.9)		6010B		1	SVD	08/12/13 3:53	5.02	100	CH31008
Selenium	ND (2.93)		6020A		50	SVD	08/13/13 5:13	5.02	100	CH31008
Silver	**1.28** (0.59)		6010B		1	SVD	08/12/13 3:53	5.02	100	CH31008
Thallium	ND (2.93)		6020A		50	SVD	08/13/13 5:13	5.02	100	CH31008
Vanadium	**78.0** (1.2)		6010B		1	SVD	08/12/13 3:53	5.02	100	CH31008
Zinc	**250** (2.9)		6010B		1	KJK	08/12/13 23:07	5.02	100	CH31008

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-138 2-4ft
Date Sampled: 08/02/13 14:25
Percent Solids: 48

ESS Laboratory Work Order: 1308108
ESS Laboratory Sample ID: 1308108-18
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (2.0)		6020A		50	SVD	08/13/13 5:19	5.1	100	CH31008
Arsenic	**31.0** (2.0)		6010B		1	SVD	08/12/13 3:58	5.1	100	CH31008
Barium	**59.0** (2.0)		6010B		1	SVD	08/12/13 3:58	5.1	100	CH31008
Beryllium	**0.60** (0.09)		6010B		1	SVD	08/12/13 3:58	5.1	100	CH31008
Cadmium	**1.75** (0.41)		6010B		1	SVD	08/12/13 3:58	5.1	100	CH31008
Chromium	**61.6** (0.8)		6010B		1	SVD	08/12/13 3:58	5.1	100	CH31008
Lead	**146** (4.1)		6010B		1	SVD	08/12/13 3:58	5.1	100	CH31008
Mercury	**1.38** (0.166)		7471B		5	KJK	08/10/13 15:08	1.24	40	CH30808
Nickel	**19.2** (2.0)		6010B		1	SVD	08/12/13 3:58	5.1	100	CH31008
Selenium	ND (2.05)		6020A		50	SVD	08/13/13 5:19	5.1	100	CH31008
Silver	**1.38** (0.41)		6010B		1	SVD	08/12/13 3:58	5.1	100	CH31008
Thallium	ND (2.05)		6020A		50	SVD	08/13/13 5:19	5.1	100	CH31008
Vanadium	**51.3** (0.8)		6010B		1	SVD	08/12/13 3:58	5.1	100	CH31008
Zinc	**276** (2.0)		6010B		1	KJK	08/12/13 23:12	5.1	100	CH31008

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-138 2-4ft
Date Sampled: 08/02/13 14:25
Percent Solids: 48

ESS Laboratory Work Order: 1308108
ESS Laboratory Sample ID: 1308108-18
Sample Matrix: Solid

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**32100** (2290)		TOC-LK		1	SUB	08/14/13 15:28	mg/kg	CH32011

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-138 4-6ft
Date Sampled: 08/02/13 14:25
Percent Solids: 47

ESS Laboratory Work Order: 1308108
ESS Laboratory Sample ID: 1308108-19
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (2.0)		6020A		50	SVD	08/13/13 5:25	5.42	100	CH31008
Arsenic	**33.8** (2.0)		6010B		1	SVD	08/12/13 4:04	5.42	100	CH31008
Barium	**72.6** (2.0)		6010B		1	SVD	08/12/13 4:04	5.42	100	CH31008
Beryllium	**0.63** (0.08)		6010B		1	SVD	08/12/13 4:04	5.42	100	CH31008
Cadmium	**2.36** (0.39)		6010B		1	SVD	08/12/13 4:04	5.42	100	CH31008
Chromium	**75.7** (0.8)		6010B		1	SVD	08/12/13 4:04	5.42	100	CH31008
Lead	**177** (3.9)		6010B		1	SVD	08/12/13 4:04	5.42	100	CH31008
Mercury	**1.73** (0.140)		7471B		5	KJK	08/10/13 15:11	1.5	40	CH30808
Nickel	**20.0** (2.0)		6010B		1	SVD	08/12/13 4:04	5.42	100	CH31008
Selenium	ND (1.97)		6020A		50	SVD	08/13/13 5:25	5.42	100	CH31008
Silver	**1.53** (0.39)		6010B		1	SVD	08/12/13 4:04	5.42	100	CH31008
Thallium	ND (1.97)		6020A		50	SVD	08/13/13 5:25	5.42	100	CH31008
Vanadium	**57.3** (0.8)		6010B		1	SVD	08/12/13 4:04	5.42	100	CH31008
Zinc	**310** (2.0)		6010B		1	KJK	08/12/13 23:26	5.42	100	CH31008

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-138 6-8ft
Date Sampled: 08/02/13 14:25
Percent Solids: 41

ESS Laboratory Work Order: 1308108
ESS Laboratory Sample ID: 1308108-20
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (2.3)		6020A		50	SVD	08/13/13 5:31	5.39	100	CH31008
Arsenic	**42.5** (2.3)		6010B		1	SVD	08/12/13 4:10	5.39	100	CH31008
Barium	**90.1** (2.3)		6010B		1	SVD	08/12/13 4:10	5.39	100	CH31008
Beryllium	**0.44** (0.10)		6010B		1	SVD	08/12/13 4:10	5.39	100	CH31008
Cadmium	**3.74** (0.46)		6010B		1	SVD	08/12/13 4:10	5.39	100	CH31008
Chromium	**104** (0.9)		6010B		1	SVD	08/12/13 4:10	5.39	100	CH31008
Lead	**307** (4.5)		6010B		1	SVD	08/12/13 4:10	5.39	100	CH31008
Mercury	**2.44** (0.191)		7471B		5	KJK	08/10/13 15:13	1.27	40	CH30808
Nickel	**15.4** (2.3)		6010B		1	SVD	08/12/13 4:10	5.39	100	CH31008
Selenium	**3.12** (2.28)		6020A		50	SVD	08/13/13 5:31	5.39	100	CH31008
Silver	**2.08** (0.46)		6010B		1	SVD	08/12/13 4:10	5.39	100	CH31008
Thallium	ND (2.28)		6020A		50	SVD	08/13/13 5:31	5.39	100	CH31008
Vanadium	**97.5** (0.9)		6010B		1	SVD	08/12/13 4:10	5.39	100	CH31008
Zinc	**485** (2.3)		6010B		1	KJK	08/12/13 23:32	5.39	100	CH31008

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308108

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Total Metals Solid										
Batch CH30808 - 7471A										
Blank										
Mercury	ND	0.033	mg/kg wet							
LCS										
Mercury	7.30	0.750	mg/kg wet	9.250		79	80-120			
LCS Dup										
Mercury	7.82	0.786	mg/kg wet	9.250		85	80-120	7	20	
Batch CH31008 - 3050B										
Blank										
Antimony	ND	2.5	mg/kg wet							
Arsenic	ND	2.5	mg/kg wet							
Barium	ND	2.5	mg/kg wet							
Beryllium	ND	0.10	mg/kg wet							
Cadmium	ND	0.50	mg/kg wet							
Chromium	ND	1.0	mg/kg wet							
Lead	ND	5.0	mg/kg wet							
Nickel	ND	2.5	mg/kg wet							
Selenium	ND	2.51	mg/kg wet							
Silver	ND	0.50	mg/kg wet							
Thallium	ND	2.51	mg/kg wet							
Vanadium	ND	1.0	mg/kg wet							
Zinc	ND	2.5	mg/kg wet							
LCS										
Antimony	117	9.5	mg/kg wet	106.0		111	80-120			
Arsenic	153	9.4	mg/kg wet	182.0		84	80-120			
Barium	119	9.4	mg/kg wet	143.0		83	80-120			
Beryllium	85.2	0.40	mg/kg wet	98.30		87	80-120			
Cadmium	50.9	1.90	mg/kg wet	60.40		84	80-120			
Chromium	104	3.8	mg/kg wet	125.0		84	80-120			
Lead	113	18.9	mg/kg wet	136.0		83	80-120			
Nickel	106	9.4	mg/kg wet	128.0		83	80-120			
Selenium	83.3	9.48	mg/kg wet	85.90		97	80-120			
Silver	52.7	1.90	mg/kg wet	61.30		86	80-120			
Thallium	121	9.48	mg/kg wet	144.0		84	80-120			
Vanadium	91.3	3.8	mg/kg wet	104.0		88	80-120			
Zinc	185	9.4	mg/kg wet	204.0		91	80-120			
LCS Dup										
Antimony	106	9.0	mg/kg wet	106.0		100	80-120	10	20	
Arsenic	154	8.9	mg/kg wet	182.0		85	80-120	0.9	20	
Barium	122	8.9	mg/kg wet	143.0		86	80-120	3	20	
Beryllium	86.1	0.38	mg/kg wet	98.30		88	80-120	1	20	
Cadmium	51.4	1.79	mg/kg wet	60.40		85	80-120	0.8	20	
Chromium	107	3.6	mg/kg wet	125.0		86	80-120	2	20	
Lead	115	17.9	mg/kg wet	136.0		85	80-120	1	20	
Nickel	110	8.9	mg/kg wet	128.0		86	80-120	4	20	

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308108

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Total Metals Solid										
Batch CH31008 - 3050B										
Selenium	87.0	8.97	mg/kg wet	85.90		101	80-120	4	20	
Silver	53.9	1.79	mg/kg wet	61.30		88	80-120	2	20	
Thallium	130	8.97	mg/kg wet	144.0		90	80-120	7	20	
Vanadium	93.0	3.6	mg/kg wet	104.0		89	80-120	2	20	
Zinc	182	8.9	mg/kg wet	204.0		89	80-120	2	20	
8082A Polychlorinated Biphenyls (PCB)										
Batch CH30839 - 3540										
Blank										
Aroclor 1016	ND	0.0250	mg/kg wet							
Aroclor 1016 (1)	ND	0.0250	mg/kg wet							
Aroclor 1016 (1) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1016 (2)	ND	0.0250	mg/kg wet							
Aroclor 1016 (2) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1016 (3)	ND	0.0250	mg/kg wet							
Aroclor 1016 (3) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1016 (4)	ND	0.0250	mg/kg wet							
Aroclor 1016 (4) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1016 (5)	ND	0.0250	mg/kg wet							
Aroclor 1016 (5) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1221	ND	0.0250	mg/kg wet							
Aroclor 1221 (1)	ND	0.0250	mg/kg wet							
Aroclor 1221 (1) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1221 (2)	ND	0.0250	mg/kg wet							
Aroclor 1221 (2) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1221 (3)	ND	0.0250	mg/kg wet							
Aroclor 1221 (3) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1221 (4)	ND	0.0250	mg/kg wet							
Aroclor 1221 (4) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1221 (5)	ND	0.0250	mg/kg wet							
Aroclor 1221 (5) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1232	ND	0.0250	mg/kg wet							
Aroclor 1232 (1)	ND	0.0250	mg/kg wet							
Aroclor 1232 (1) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1232 (2)	ND	0.0250	mg/kg wet							
Aroclor 1232 (2) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1232 (3)	ND	0.0250	mg/kg wet							
Aroclor 1232 (3) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1232 (4)	ND	0.0250	mg/kg wet							
Aroclor 1232 (4) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1232 (5)	ND	0.0250	mg/kg wet							
Aroclor 1232 (5) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1242	ND	0.0250	mg/kg wet							
Aroclor 1242 (1)	ND	0.0250	mg/kg wet							
Aroclor 1242 (1) [2C]	ND	0.0250	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308108

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CH30839 - 3540										
Aroclor 1242 (2)	ND	0.0250	mg/kg wet							
Aroclor 1242 (2) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1242 (3)	ND	0.0250	mg/kg wet							
Aroclor 1242 (3) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1242 (4)	ND	0.0250	mg/kg wet							
Aroclor 1242 (4) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1242 (5)	ND	0.0250	mg/kg wet							
Aroclor 1242 (5) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1248	ND	0.0250	mg/kg wet							
Aroclor 1248 (1)	ND	0.0250	mg/kg wet							
Aroclor 1248 (1) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1248 (2)	ND	0.0250	mg/kg wet							
Aroclor 1248 (2) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1248 (3)	ND	0.0250	mg/kg wet							
Aroclor 1248 (3) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1248 (4)	ND	0.0250	mg/kg wet							
Aroclor 1248 (4) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1248 (5)	ND	0.0250	mg/kg wet							
Aroclor 1248 (5) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1254	ND	0.0250	mg/kg wet							
Aroclor 1254 (1)	ND	0.0250	mg/kg wet							
Aroclor 1254 (1) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1254 (2)	ND	0.0250	mg/kg wet							
Aroclor 1254 (2) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1254 (3)	ND	0.0250	mg/kg wet							
Aroclor 1254 (3) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1254 (4)	ND	0.0250	mg/kg wet							
Aroclor 1254 (4) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1254 (5)	ND	0.0250	mg/kg wet							
Aroclor 1254 (5) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1260	ND	0.0250	mg/kg wet							
Aroclor 1260 (1)	ND	0.0250	mg/kg wet							
Aroclor 1260 (1) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1260 (2)	ND	0.0250	mg/kg wet							
Aroclor 1260 (2) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1260 (3)	ND	0.0250	mg/kg wet							
Aroclor 1260 (3) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1260 (4)	ND	0.0250	mg/kg wet							
Aroclor 1260 (4) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1260 (5)	ND	0.0250	mg/kg wet							
Aroclor 1260 (5) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1262	ND	0.0250	mg/kg wet							
Aroclor 1262 (1)	ND	0.0250	mg/kg wet							
Aroclor 1262 (1) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1262 (2)	ND	0.0250	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308108

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CH30839 - 3540										
Aroclor 1262 (2) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1262 (3)	ND	0.0250	mg/kg wet							
Aroclor 1262 (3) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1262 (4)	ND	0.0250	mg/kg wet							
Aroclor 1262 (4) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1262 (5)	ND	0.0250	mg/kg wet							
Aroclor 1262 (5) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1268	ND	0.0250	mg/kg wet							
Aroclor 1268 (1)	ND	0.0250	mg/kg wet							
Aroclor 1268 (1) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1268 (2)	ND	0.0250	mg/kg wet							
Aroclor 1268 (2) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1268 (3)	ND	0.0250	mg/kg wet							
Aroclor 1268 (3) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1268 (4)	ND	0.0250	mg/kg wet							
Aroclor 1268 (4) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1268 (5)	ND	0.0250	mg/kg wet							
Aroclor 1268 (5) [2C]	ND	0.0250	mg/kg wet							
Surrogate: Decachlorobiphenyl	*0.0132*		mg/kg wet	*0.01250*		*106*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0101*		mg/kg wet	*0.01250*		*81*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0106*		mg/kg wet	*0.01250*		*85*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.00948*		mg/kg wet	*0.01250*		*76*	*30-150*			
LCS										
Aroclor 1016	0.228	0.0250	mg/kg wet	0.2500		91	40-140			
Aroclor 1260	0.248	0.0250	mg/kg wet	0.2500		99	40-140			
Surrogate: Decachlorobiphenyl	*0.0129*		mg/kg wet	*0.01250*		*103*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.00990*		mg/kg wet	*0.01250*		*79*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.00997*		mg/kg wet	*0.01250*		*80*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.00859*		mg/kg wet	*0.01250*		*69*	*30-150*			
LCS Dup										
Aroclor 1016	0.255	0.0250	mg/kg wet	0.2500		102	40-140	11	30	
Aroclor 1260	0.253	0.0250	mg/kg wet	0.2500		101	40-140	2	30	
Surrogate: Decachlorobiphenyl	*0.0131*		mg/kg wet	*0.01250*		*105*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0101*		mg/kg wet	*0.01250*		*81*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0108*		mg/kg wet	*0.01250*		*86*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.00949*		mg/kg wet	*0.01250*		*76*	*30-150*			
8270D Semi-Volatile Organic Compounds										
Batch CH30815 - 3546										
Blank										
1,2,4-Trichlorobenzene	ND	0.333	mg/kg wet							
1,2-Dichlorobenzene	ND	0.333	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308108

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D Semi-Volatile Organic Compounds										
Batch CH30815 - 3546										
1,3-Dichlorobenzene	ND	0.333	mg/kg wet							
1,4-Dichlorobenzene	ND	0.333	mg/kg wet							
2-Methylnaphthalene	ND	0.333	mg/kg wet							
2-Methylphenol	ND	0.333	mg/kg wet							
Acenaphthene	ND	0.333	mg/kg wet							
Acenaphthylene	ND	0.333	mg/kg wet							
Anthracene	ND	0.333	mg/kg wet							
Benzo(a)anthracene	ND	0.333	mg/kg wet							
Benzo(a)pyrene	ND	0.167	mg/kg wet							
Benzo(b)fluoranthene	ND	0.333	mg/kg wet							
Benzo(g,h,i)perylene	ND	0.333	mg/kg wet							
Benzo(k)fluoranthene	ND	0.333	mg/kg wet							
bis(2-Ethylhexyl)phthalate	ND	0.333	mg/kg wet							
Butylbenzylphthalate	ND	0.333	mg/kg wet							
Carbazole	ND	0.333	mg/kg wet							
Chrysene	ND	0.167	mg/kg wet							
Dibenzo(a,h)Anthracene	ND	0.167	mg/kg wet							
Dibenzofuran	ND	0.333	mg/kg wet							
Diethylphthalate	ND	0.333	mg/kg wet							
Dimethylphthalate	ND	0.333	mg/kg wet							
Di-n-butylphthalate	ND	0.333	mg/kg wet							
Di-n-octylphthalate	ND	0.333	mg/kg wet							
Fluoranthene	ND	0.333	mg/kg wet							
Fluorene	ND	0.333	mg/kg wet							
Hexachlorobenzene	ND	0.333	mg/kg wet							
Hexachlorocyclopentadiene	ND	1.67	mg/kg wet							
Indeno(1,2,3-cd)Pyrene	ND	0.333	mg/kg wet							
Naphthalene	ND	0.333	mg/kg wet							
Phenanthrene	ND	0.333	mg/kg wet							
Phenol	ND	0.333	mg/kg wet							
Pyrene	ND	0.333	mg/kg wet							
Surrogate: 1,2-Dichlorobenzene-d4	*2.36*		mg/kg wet	*3.333*		*71*	*30-130*			
Surrogate: 2,4,6-Tribromophenol	*3.81*		mg/kg wet	*5.000*		*76*	*30-130*			
Surrogate: 2-Chlorophenol-d4	*3.78*		mg/kg wet	*5.000*		*76*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*2.38*		mg/kg wet	*3.333*		*72*	*30-130*			
Surrogate: 2-Fluorophenol	*3.53*		mg/kg wet	*5.000*		*71*	*30-130*			
Surrogate: Nitrobenzene-d5	*2.35*		mg/kg wet	*3.333*		*71*	*30-130*			
Surrogate: Phenol-d6	*3.76*		mg/kg wet	*5.000*		*75*	*30-130*			
Surrogate: p-Terphenyl-d14	*3.51*		mg/kg wet	*3.333*		*105*	*30-130*			
LCS										
1,2,4-Trichlorobenzene	2.16	0.333	mg/kg wet	3.333		65	40-140			
1,2-Dichlorobenzene	2.07	0.333	mg/kg wet	3.333		62	40-140			
1,3-Dichlorobenzene	2.06	0.333	mg/kg wet	3.333		62	40-140			
1,4-Dichlorobenzene	2.08	0.333	mg/kg wet	3.333		62	40-140			
2-Methylnaphthalene	2.32	0.333	mg/kg wet	3.333		70	40-140			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308108

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D Semi-Volatile Organic Compounds										
Batch CH30815 - 3546										
2-Methylphenol	2.14	0.333	mg/kg wet	3.333		64	30-130			
Acenaphthene	2.58	0.333	mg/kg wet	3.333		77	40-140			
Acenaphthylene	2.45	0.333	mg/kg wet	3.333		74	40-140			
Anthracene	3.03	0.333	mg/kg wet	3.333		91	40-140			
Benzo(a)anthracene	2.81	0.333	mg/kg wet	3.333		84	40-140			
Benzo(a)pyrene	2.69	0.167	mg/kg wet	3.333		81	40-140			
Benzo(b)fluoranthene	3.15	0.333	mg/kg wet	3.333		95	40-140			
Benzo(g,h,i)perylene	3.08	0.333	mg/kg wet	3.333		92	40-140			
Benzo(k)fluoranthene	3.04	0.333	mg/kg wet	3.333		91	40-140			
bis(2-Ethylhexyl)phthalate	3.18	0.333	mg/kg wet	3.333		95	40-140			
Butylbenzylphthalate	3.15	0.333	mg/kg wet	3.333		95	40-140			
Carbazole	3.07	0.333	mg/kg wet	3.333		92	40-140			
Chrysene	2.94	0.167	mg/kg wet	3.333		88	40-140			
Dibenzo(a,h)Anthracene	3.54	0.167	mg/kg wet	3.333		106	40-140			
Dibenzofuran	2.62	0.333	mg/kg wet	3.333		78	40-140			
Diethylphthalate	2.88	0.333	mg/kg wet	3.333		86	40-140			
Dimethylphthalate	2.75	0.333	mg/kg wet	3.333		82	40-140			
Di-n-butylphthalate	3.22	0.333	mg/kg wet	3.333		97	40-140			
Di-n-octylphthalate	2.92	0.333	mg/kg wet	3.333		88	40-140			
Fluoranthene	3.10	0.333	mg/kg wet	3.333		93	40-140			
Fluorene	2.78	0.333	mg/kg wet	3.333		83	40-140			
Hexachlorobenzene	2.80	0.333	mg/kg wet	3.333		84	40-140			
Hexachlorocyclopentadiene	1.58	1.67	mg/kg wet	3.333		47	40-140			
Indeno(1,2,3-cd)Pyrene	2.98	0.333	mg/kg wet	3.333		89	40-140			
Naphthalene	2.28	0.333	mg/kg wet	3.333		68	40-140			
Phenanthrene	3.04	0.333	mg/kg wet	3.333		91	40-140			
Phenol	2.11	0.333	mg/kg wet	3.333		63	30-130			
Pyrene	3.05	0.333	mg/kg wet	3.333		92	40-140			
Surrogate: 1,2-Dichlorobenzene-d4	*2.14*		mg/kg wet	*3.333*		*64*	*30-130*			
Surrogate: 2,4,6-Tribromophenol	*4.28*		mg/kg wet	*5.000*		*86*	*30-130*			
Surrogate: 2-Chlorophenol-d4	*3.34*		mg/kg wet	*5.000*		*67*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*2.48*		mg/kg wet	*3.333*		*74*	*30-130*			
Surrogate: 2-Fluorophenol	*3.21*		mg/kg wet	*5.000*		*64*	*30-130*			
Surrogate: Nitrobenzene-d5	*2.28*		mg/kg wet	*3.333*		*69*	*30-130*			
Surrogate: Phenol-d6	*3.31*		mg/kg wet	*5.000*		*66*	*30-130*			
Surrogate: p-Terphenyl-d14	*2.84*		mg/kg wet	*3.333*		*85*	*30-130*			
LCS Dup										
1,2,4-Trichlorobenzene	2.17	0.333	mg/kg wet	3.333		65	40-140	0.7	30	
1,2-Dichlorobenzene	2.16	0.333	mg/kg wet	3.333		65	40-140	4	30	
1,3-Dichlorobenzene	2.13	0.333	mg/kg wet	3.333		64	40-140	3	30	
1,4-Dichlorobenzene	2.18	0.333	mg/kg wet	3.333		65	40-140	5	30	
2-Methylnaphthalene	2.37	0.333	mg/kg wet	3.333		71	40-140	2	30	
2-Methylphenol	2.22	0.333	mg/kg wet	3.333		67	30-130	4	30	
Acenaphthene	2.71	0.333	mg/kg wet	3.333		81	40-140	5	30	
Acenaphthylene	2.57	0.333	mg/kg wet	3.333		77	40-140	5	30	

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308108

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D Semi-Volatile Organic Compounds										
Batch CH30815 - 3546										
Anthracene	3.14	0.333	mg/kg wet	3.333		94	40-140	4	30	
Benzo(a)anthracene	3.10	0.333	mg/kg wet	3.333		93	40-140	10	30	
Benzo(a)pyrene	2.73	0.167	mg/kg wet	3.333		82	40-140	2	30	
Benzo(b)fluoranthene	3.25	0.333	mg/kg wet	3.333		97	40-140	3	30	
Benzo(g,h,i)perylene	3.21	0.333	mg/kg wet	3.333		96	40-140	4	30	
Benzo(k)fluoranthene	3.20	0.333	mg/kg wet	3.333		96	40-140	5	30	
bis(2-Ethylhexyl)phthalate	3.26	0.333	mg/kg wet	3.333		98	40-140	2	30	
Butylbenzylphthalate	3.26	0.333	mg/kg wet	3.333		98	40-140	3	30	
Carbazole	3.18	0.333	mg/kg wet	3.333		95	40-140	3	30	
Chrysene	3.04	0.167	mg/kg wet	3.333		91	40-140	3	30	
Dibenzo(a,h)Anthracene	3.68	0.167	mg/kg wet	3.333		110	40-140	4	30	
Dibenzofuran	2.73	0.333	mg/kg wet	3.333		82	40-140	4	30	
Diethylphthalate	2.96	0.333	mg/kg wet	3.333		89	40-140	3	30	
Dimethylphthalate	2.86	0.333	mg/kg wet	3.333		86	40-140	4	30	
Di-n-butylphthalate	3.30	0.333	mg/kg wet	3.333		99	40-140	2	30	
Di-n-octylphthalate	3.01	0.333	mg/kg wet	3.333		90	40-140	3	30	
Fluoranthene	3.21	0.333	mg/kg wet	3.333		96	40-140	4	30	
Fluorene	2.90	0.333	mg/kg wet	3.333		87	40-140	4	30	
Hexachlorobenzene	2.95	0.333	mg/kg wet	3.333		88	40-140	5	30	
Hexachlorocyclopentadiene	1.70	1.67	mg/kg wet	3.333		51	40-140	7	30	
Indeno(1,2,3-cd)Pyrene	3.14	0.333	mg/kg wet	3.333		94	40-140	5	30	
Naphthalene	2.30	0.333	mg/kg wet	3.333		69	40-140	0.7	30	
Phenanthrene	3.14	0.333	mg/kg wet	3.333		94	40-140	3	30	
Phenol	2.18	0.333	mg/kg wet	3.333		65	30-130	3	30	
Pyrene	3.16	0.333	mg/kg wet	3.333		95	40-140	3	30	
Surrogate: 1,2-Dichlorobenzene-d4	*2.17*		mg/kg wet	*3.333*		*65*	*30-130*			
Surrogate: 2,4,6-Tribromophenol	*4.40*		mg/kg wet	*5.000*		*88*	*30-130*			
Surrogate: 2-Chlorophenol-d4	*3.37*		mg/kg wet	*5.000*		*67*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*2.59*		mg/kg wet	*3.333*		*78*	*30-130*			
Surrogate: 2-Fluorophenol	*3.23*		mg/kg wet	*5.000*		*65*	*30-130*			
Surrogate: Nitrobenzene-d5	*2.27*		mg/kg wet	*3.333*		*68*	*30-130*			
Surrogate: Phenol-d6	*3.34*		mg/kg wet	*5.000*		*67*	*30-130*			
Surrogate: p-Terphenyl-d14	*2.76*		mg/kg wet	*3.333*		*83*	*30-130*			
Batch CH30921 - 3546										
Blank										
1,2,4-Trichlorobenzene	ND	0.333	mg/kg wet							
1,2-Dichlorobenzene	ND	0.333	mg/kg wet							
1,3-Dichlorobenzene	ND	0.333	mg/kg wet							
1,4-Dichlorobenzene	ND	0.333	mg/kg wet							
2-Methylnaphthalene	ND	0.333	mg/kg wet							
2-Methylphenol	ND	0.333	mg/kg wet							
Acenaphthene	ND	0.333	mg/kg wet							
Acenaphthylene	ND	0.333	mg/kg wet							
Anthracene	ND	0.333	mg/kg wet							
Benzo(a)anthracene	ND	0.333	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308108

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D Semi-Volatile Organic Compounds										
Batch CH30921 - 3546										
Benzo(a)pyrene	ND	0.167	mg/kg wet							
Benzo(b)fluoranthene	ND	0.333	mg/kg wet							
Benzo(g,h,i)perylene	ND	0.333	mg/kg wet							
Benzo(k)fluoranthene	ND	0.333	mg/kg wet							
bis(2-Ethylhexyl)phthalate	ND	0.333	mg/kg wet							
Butylbenzylphthalate	ND	0.333	mg/kg wet							
Carbazole	ND	0.333	mg/kg wet							
Chrysene	ND	0.167	mg/kg wet							
Dibenzo(a,h)Anthracene	ND	0.167	mg/kg wet							
Dibenzofuran	ND	0.333	mg/kg wet							
Diethylphthalate	ND	0.333	mg/kg wet							
Dimethylphthalate	ND	0.333	mg/kg wet							
Di-n-butylphthalate	ND	0.333	mg/kg wet							
Di-n-octylphthalate	ND	0.333	mg/kg wet							
Fluoranthene	ND	0.333	mg/kg wet							
Fluorene	ND	0.333	mg/kg wet							
Hexachlorobenzene	ND	0.333	mg/kg wet							
Hexachlorocyclopentadiene	ND	1.67	mg/kg wet							
Indeno(1,2,3-cd)Pyrene	ND	0.333	mg/kg wet							
Naphthalene	ND	0.333	mg/kg wet							
Phenanthrene	ND	0.333	mg/kg wet							
Phenol	ND	0.333	mg/kg wet							
Pyrene	ND	0.333	mg/kg wet							
Surrogate: 1,2-Dichlorobenzene-d4	*2.83*		mg/kg wet	*3.333*		*85*	*30-130*			
Surrogate: 2,4,6-Tribromophenol	*4.52*		mg/kg wet	*5.000*		*90*	*30-130*			
Surrogate: 2-Chlorophenol-d4	*4.20*		mg/kg wet	*5.000*		*84*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*2.96*		mg/kg wet	*3.333*		*89*	*30-130*			
Surrogate: 2-Fluorophenol	*2.87*		mg/kg wet	*5.000*		*57*	*30-130*			
Surrogate: Nitrobenzene-d5	*2.96*		mg/kg wet	*3.333*		*89*	*30-130*			
Surrogate: Phenol-d6	*4.36*		mg/kg wet	*5.000*		*87*	*30-130*			
Surrogate: p-Terphenyl-d14	*2.87*		mg/kg wet	*3.333*		*86*	*30-130*			
LCS										
1,2,4-Trichlorobenzene	2.55	0.333	mg/kg wet	3.333		77	40-140			
1,2-Dichlorobenzene	2.62	0.333	mg/kg wet	3.333		79	40-140			
1,3-Dichlorobenzene	2.55	0.333	mg/kg wet	3.333		77	40-140			
1,4-Dichlorobenzene	2.47	0.333	mg/kg wet	3.333		74	40-140			
2-Methylnaphthalene	2.76	0.333	mg/kg wet	3.333		83	40-140			
2-Methylphenol	2.97	0.333	mg/kg wet	3.333		89	30-130			
Acenaphthene	2.61	0.333	mg/kg wet	3.333		78	40-140			
Acenaphthylene	2.65	0.333	mg/kg wet	3.333		79	40-140			
Anthracene	2.94	0.333	mg/kg wet	3.333		88	40-140			
Benzo(a)anthracene	3.10	0.333	mg/kg wet	3.333		93	40-140			
Benzo(a)pyrene	3.01	0.167	mg/kg wet	3.333		90	40-140			
Benzo(b)fluoranthene	3.06	0.333	mg/kg wet	3.333		92	40-140			
Benzo(g,h,i)perylene	3.36	0.333	mg/kg wet	3.333		101	40-140			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308108

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D Semi-Volatile Organic Compounds										
Batch CH30921 - 3546										
Benzo(k)fluoranthene	3.31	0.333	mg/kg wet	3.333		99	40-140			
bis(2-Ethylhexyl)phthalate	3.29	0.333	mg/kg wet	3.333		99	40-140			
Butylbenzylphthalate	3.34	0.333	mg/kg wet	3.333		100	40-140			
Carbazole	2.80	0.333	mg/kg wet	3.333		84	40-140			
Chrysene	3.02	0.167	mg/kg wet	3.333		91	40-140			
Dibenzo(a,h)Anthracene	3.36	0.167	mg/kg wet	3.333		101	40-140			
Dibenzofuran	2.77	0.333	mg/kg wet	3.333		83	40-140			
Diethylphthalate	2.61	0.333	mg/kg wet	3.333		78	40-140			
Dimethylphthalate	2.96	0.333	mg/kg wet	3.333		89	40-140			
Di-n-butylphthalate	2.78	0.333	mg/kg wet	3.333		84	40-140			
Di-n-octylphthalate	3.58	0.333	mg/kg wet	3.333		107	40-140			
Fluoranthene	2.57	0.333	mg/kg wet	3.333		77	40-140			
Fluorene	2.85	0.333	mg/kg wet	3.333		85	40-140			
Hexachlorobenzene	2.81	0.333	mg/kg wet	3.333		84	40-140			
Hexachlorocyclopentadiene	1.86	1.67	mg/kg wet	3.333		56	40-140			
Indeno(1,2,3-cd)Pyrene	3.28	0.333	mg/kg wet	3.333		98	40-140			
Naphthalene	2.63	0.333	mg/kg wet	3.333		79	40-140			
Phenanthrene	2.93	0.333	mg/kg wet	3.333		88	40-140			
Phenol	2.58	0.333	mg/kg wet	3.333		77	30-130			
Pyrene	3.33	0.333	mg/kg wet	3.333		100	40-140			
Surrogate: 1,2-Dichlorobenzene-d4	*2.72*		mg/kg wet	*3.333*		*82*	*30-130*			
Surrogate: 2,4,6-Tribromophenol	*4.75*		mg/kg wet	*5.000*		*95*	*30-130*			
Surrogate: 2-Chlorophenol-d4	*4.17*		mg/kg wet	*5.000*		*83*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*2.83*		mg/kg wet	*3.333*		*85*	*30-130*			
Surrogate: 2-Fluorophenol	*2.78*		mg/kg wet	*5.000*		*56*	*30-130*			
Surrogate: Nitrobenzene-d5	*2.73*		mg/kg wet	*3.333*		*82*	*30-130*			
Surrogate: Phenol-d6	*4.26*		mg/kg wet	*5.000*		*85*	*30-130*			
Surrogate: p-Terphenyl-d14	*3.32*		mg/kg wet	*3.333*		*100*	*30-130*			
LCS Dup										
1,2,4-Trichlorobenzene	2.76	0.333	mg/kg wet	3.333		83	40-140	8	30	
1,2-Dichlorobenzene	2.74	0.333	mg/kg wet	3.333		82	40-140	4	30	
1,3-Dichlorobenzene	2.58	0.333	mg/kg wet	3.333		77	40-140	1	30	
1,4-Dichlorobenzene	2.62	0.333	mg/kg wet	3.333		79	40-140	6	30	
2-Methylnaphthalene	2.90	0.333	mg/kg wet	3.333		87	40-140	5	30	
2-Methylphenol	3.12	0.333	mg/kg wet	3.333		94	30-130	5	30	
Acenaphthene	3.04	0.333	mg/kg wet	3.333		91	40-140	15	30	
Acenaphthylene	2.67	0.333	mg/kg wet	3.333		80	40-140	0.9	30	
Anthracene	3.16	0.333	mg/kg wet	3.333		95	40-140	7	30	
Benzo(a)anthracene	3.17	0.333	mg/kg wet	3.333		95	40-140	2	30	
Benzo(a)pyrene	3.14	0.167	mg/kg wet	3.333		94	40-140	4	30	
Benzo(b)fluoranthene	3.48	0.333	mg/kg wet	3.333		104	40-140	13	30	
Benzo(g,h,i)perylene	3.64	0.333	mg/kg wet	3.333		109	40-140	8	30	
Benzo(k)fluoranthene	3.15	0.333	mg/kg wet	3.333		95	40-140	5	30	
bis(2-Ethylhexyl)phthalate	3.64	0.333	mg/kg wet	3.333		109	40-140	10	30	
Butylbenzylphthalate	3.58	0.333	mg/kg wet	3.333		107	40-140	7	30	

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308108

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D Semi-Volatile Organic Compounds										
Batch CH30921 - 3546										
Carbazole	3.10	0.333	mg/kg wet	3.333		93	40-140	10	30	
Chrysene	3.56	0.167	mg/kg wet	3.333		107	40-140	16	30	
Dibenzo(a,h)Anthracene	3.60	0.167	mg/kg wet	3.333		108	40-140	7	30	
Dibenzofuran	2.85	0.333	mg/kg wet	3.333		85	40-140	3	30	
Diethylphthalate	2.66	0.333	mg/kg wet	3.333		80	40-140	2	30	
Dimethylphthalate	2.76	0.333	mg/kg wet	3.333		83	40-140	7	30	
Di-n-butylphthalate	2.96	0.333	mg/kg wet	3.333		89	40-140	6	30	
Di-n-octylphthalate	3.68	0.333	mg/kg wet	3.333		110	40-140	3	30	
Fluoranthene	2.80	0.333	mg/kg wet	3.333		84	40-140	9	30	
Fluorene	2.99	0.333	mg/kg wet	3.333		90	40-140	5	30	
Hexachlorobenzene	3.04	0.333	mg/kg wet	3.333		91	40-140	8	30	
Hexachlorocyclopentadiene	2.06	1.67	mg/kg wet	3.333		62	40-140	10	30	
Indeno(1,2,3-cd)Pyrene	3.61	0.333	mg/kg wet	3.333		108	40-140	9	30	
Naphthalene	2.77	0.333	mg/kg wet	3.333		83	40-140	5	30	
Phenanthrene	3.14	0.333	mg/kg wet	3.333		94	40-140	7	30	
Phenol	2.62	0.333	mg/kg wet	3.333		79	30-130	2	30	
Pyrene	3.69	0.333	mg/kg wet	3.333		111	40-140	10	30	
Surrogate: 1,2-Dichlorobenzene-d4	*2.69*		mg/kg wet	*3.333*		*81*	*30-130*			
Surrogate: 2,4,6-Tribromophenol	*4.96*		mg/kg wet	*5.000*		*99*	*30-130*			
Surrogate: 2-Chlorophenol-d4	*4.21*		mg/kg wet	*5.000*		*84*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*2.96*		mg/kg wet	*3.333*		*89*	*30-130*			
Surrogate: 2-Fluorophenol	*2.70*		mg/kg wet	*5.000*		*54*	*30-130*			
Surrogate: Nitrobenzene-d5	*2.80*		mg/kg wet	*3.333*		*84*	*30-130*			
Surrogate: Phenol-d6	*4.29*		mg/kg wet	*5.000*		*86*	*30-130*			
Surrogate: p-Terphenyl-d14	*3.56*		mg/kg wet	*3.333*		*107*	*30-130*			
8270D(SIM) Polynuclear Aromatic Hydrocarbons										
Batch CH30903 - 3541										
Blank										
2-Methylnaphthalene	ND	0.012	mg/kg wet							
Acenaphthene	ND	0.012	mg/kg wet							
Acenaphthylene	ND	0.012	mg/kg wet							
Anthracene	ND	0.012	mg/kg wet							
Benzo(a)anthracene	ND	0.012	mg/kg wet							
Benzo(a)pyrene	ND	0.012	mg/kg wet							
Benzo(b)fluoranthene	ND	0.012	mg/kg wet							
Benzo(g,h,i)perylene	ND	0.012	mg/kg wet							
Benzo(k)fluoranthene	ND	0.012	mg/kg wet							
Chrysene	ND	0.012	mg/kg wet							
Dibenzo(a,h)Anthracene	ND	0.012	mg/kg wet							
Fluoranthene	ND	0.012	mg/kg wet							
Fluorene	ND	0.012	mg/kg wet							
Indeno(1,2,3-cd)Pyrene	ND	0.012	mg/kg wet							
Naphthalene	ND	0.012	mg/kg wet							
Phenanthrene	ND	0.012	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308108

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D(SIM) Polynuclear Aromatic Hydrocarbons										
Batch CH30903 - 3541										
Pyrene	ND	0.012	mg/kg wet							
Surrogate: 1,2-Dichlorobenzene-d4	*0.150*		mg/kg wet	*0.2500*		*60*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*0.148*		mg/kg wet	*0.2500*		*59*	*30-130*			
Surrogate: Nitrobenzene-d5	*0.163*		mg/kg wet	*0.2500*		*65*	*30-130*			
Surrogate: p-Terphenyl-d14	*0.214*		mg/kg wet	*0.2500*		*86*	*30-130*			
LCS										
2-Methylnaphthalene	0.154	0.012	mg/kg wet	0.2000		77	40-140			
Acenaphthene	0.146	0.012	mg/kg wet	0.2000		73	40-140			
Acenaphthylene	0.132	0.012	mg/kg wet	0.2000		66	40-140			
Anthracene	0.160	0.012	mg/kg wet	0.2000		80	40-140			
Benzo(a)anthracene	0.162	0.012	mg/kg wet	0.2000		81	40-140			
Benzo(a)pyrene	0.147	0.012	mg/kg wet	0.2000		74	40-140			
Benzo(b)fluoranthene	0.152	0.012	mg/kg wet	0.2000		76	40-140			
Benzo(g,h,i)perylene	0.136	0.012	mg/kg wet	0.2000		68	40-140			
Benzo(k)fluoranthene	0.160	0.012	mg/kg wet	0.2000		80	40-140			
Chrysene	0.154	0.012	mg/kg wet	0.2000		77	40-140			
Dibenzo(a,h)Anthracene	0.170	0.012	mg/kg wet	0.2000		85	40-140			
Fluoranthene	0.149	0.012	mg/kg wet	0.2000		74	40-140			
Fluorene	0.149	0.012	mg/kg wet	0.2000		74	40-140			
Indeno(1,2,3-cd)Pyrene	0.150	0.012	mg/kg wet	0.2000		75	40-140			
Naphthalene	0.132	0.012	mg/kg wet	0.2000		66	40-140			
Phenanthrene	0.158	0.012	mg/kg wet	0.2000		79	40-140			
Pyrene	0.158	0.012	mg/kg wet	0.2000		79	40-140			
Surrogate: 1,2-Dichlorobenzene-d4	*0.154*		mg/kg wet	*0.2500*		*62*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*0.168*		mg/kg wet	*0.2500*		*67*	*30-130*			
Surrogate: Nitrobenzene-d5	*0.168*		mg/kg wet	*0.2500*		*67*	*30-130*			
Surrogate: p-Terphenyl-d14	*0.240*		mg/kg wet	*0.2500*		*96*	*30-130*			
LCS Dup										
2-Methylnaphthalene	0.180	0.012	mg/kg wet	0.2000		90	40-140	16	30	
Acenaphthene	0.164	0.012	mg/kg wet	0.2000		82	40-140	12	30	
Acenaphthylene	0.158	0.012	mg/kg wet	0.2000		79	40-140	18	30	
Anthracene	0.171	0.012	mg/kg wet	0.2000		86	40-140	7	30	
Benzo(a)anthracene	0.169	0.012	mg/kg wet	0.2000		84	40-140	4	30	
Benzo(a)pyrene	0.157	0.012	mg/kg wet	0.2000		78	40-140	6	30	
Benzo(b)fluoranthene	0.160	0.012	mg/kg wet	0.2000		80	40-140	5	30	
Benzo(g,h,i)perylene	0.143	0.012	mg/kg wet	0.2000		71	40-140	5	30	
Benzo(k)fluoranthene	0.169	0.012	mg/kg wet	0.2000		84	40-140	5	30	
Chrysene	0.167	0.012	mg/kg wet	0.2000		84	40-140	8	30	
Dibenzo(a,h)Anthracene	0.178	0.012	mg/kg wet	0.2000		89	40-140	4	30	
Fluoranthene	0.156	0.012	mg/kg wet	0.2000		78	40-140	4	30	
Fluorene	0.168	0.012	mg/kg wet	0.2000		84	40-140	12	30	
Indeno(1,2,3-cd)Pyrene	0.157	0.012	mg/kg wet	0.2000		78	40-140	5	30	
Naphthalene	0.162	0.012	mg/kg wet	0.2000		81	40-140	21	30	
Phenanthrene	0.169	0.012	mg/kg wet	0.2000		84	40-140	7	30	
Pyrene	0.166	0.012	mg/kg wet	0.2000		83	40-140	5	30	

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308108

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D(SIM) Polynuclear Aromatic Hydrocarbons										
Batch CH30903 - 3541										
Surrogate: 1,2-Dichlorobenzene-d4	*0.190*		mg/kg wet	*0.2500*		*76*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*0.186*		mg/kg wet	*0.2500*		*74*	*30-130*			
Surrogate: Nitrobenzene-d5	*0.206*		mg/kg wet	*0.2500*		*83*	*30-130*			
Surrogate: p-Terphenyl-d14	*0.248*		mg/kg wet	*0.2500*		*99*	*30-130*			
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CH30919 - 3546										
Blank										
C19-C36 Aliphatics1	ND	15.0	mg/kg wet							
C9-C18 Aliphatics1	ND	15.0	mg/kg wet							
Decane (C10)	ND	0.5	mg/kg wet							
Docosane (C22)	ND	0.5	mg/kg wet							
Dodecane (C12)	ND	0.5	mg/kg wet							
Eicosane (C20)	ND	0.5	mg/kg wet							
Hexacosane (C26)	ND	0.5	mg/kg wet							
Hexadecane (C16)	ND	0.5	mg/kg wet							
Hexatriacontane (C36)	ND	0.5	mg/kg wet							
Nonadecane (C19)	ND	0.5	mg/kg wet							
Nonane (C9)	ND	0.5	mg/kg wet							
Octacosane (C28)	ND	0.5	mg/kg wet							
Octadecane (C18)	ND	0.5	mg/kg wet							
Tetracosane (C24)	ND	0.5	mg/kg wet							
Tetradecane (C14)	ND	0.5	mg/kg wet							
Triacontane (C30)	ND	0.5	mg/kg wet							
Surrogate: 1-Chlorooctadecane	*1.83*		mg/kg wet	*2.000*		*92*	*40-140*			
Blank										
2-Methylnaphthalene	ND	0.20	mg/kg wet							
Acenaphthene	ND	0.40	mg/kg wet							
Acenaphthylene	ND	0.20	mg/kg wet							
Anthracene	ND	0.40	mg/kg wet							
Benzo(a)anthracene	ND	0.40	mg/kg wet							
Benzo(a)pyrene	ND	0.40	mg/kg wet							
Benzo(b)fluoranthene	ND	0.40	mg/kg wet							
Benzo(g,h,i)perylene	ND	0.40	mg/kg wet							
Benzo(k)fluoranthene	ND	0.40	mg/kg wet							
C11-C22 Unadjusted Aromatics1	ND	15.0	mg/kg wet							
Chrysene	ND	0.40	mg/kg wet							
Dibenzo(a,h)Anthracene	ND	0.20	mg/kg wet							
Fluoranthene	ND	0.40	mg/kg wet							
Fluorene	ND	0.40	mg/kg wet							
Indeno(1,2,3-cd)Pyrene	ND	0.40	mg/kg wet							
Naphthalene	ND	0.40	mg/kg wet							
Phenanthrene	ND	0.40	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308108

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CH30919 - 3546										
Pyrene	ND	0.40	mg/kg wet							
Surrogate: 2-Bromonaphthalene	*2.08*		mg/kg wet	*2.000*		*104*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*2.11*		mg/kg wet	*2.000*		*106*	*40-140*			
Surrogate: O-Terphenyl	*1.71*		mg/kg wet	*2.000*		*86*	*40-140*			
LCS										
C19-C36 Aliphatics1	16.4	15.0	mg/kg wet	16.00		103	40-140			
C9-C18 Aliphatics1	10.1	15.0	mg/kg wet	12.00		84	40-140			
Decane (C10)	1.1	0.5	mg/kg wet	2.000		54	40-140			
Docosane (C22)	1.7	0.5	mg/kg wet	2.000		87	40-140			
Dodecane (C12)	1.2	0.5	mg/kg wet	2.000		60	40-140			
Eicosane (C20)	1.7	0.5	mg/kg wet	2.000		85	40-140			
Hexacosane (C26)	1.7	0.5	mg/kg wet	2.000		85	40-140			
Hexadecane (C16)	1.6	0.5	mg/kg wet	2.000		79	40-140			
Hexatriacontane (C36)	1.6	0.5	mg/kg wet	2.000		82	40-140			
Nonadecane (C19)	1.7	0.5	mg/kg wet	2.000		83	40-140			
Nonane (C9)	0.8	0.5	mg/kg wet	2.000		40	30-140			
Octacosane (C28)	1.7	0.5	mg/kg wet	2.000		85	40-140			
Octadecane (C18)	1.7	0.5	mg/kg wet	2.000		83	40-140			
Tetracosane (C24)	1.7	0.5	mg/kg wet	2.000		85	40-140			
Tetradecane (C14)	1.4	0.5	mg/kg wet	2.000		70	40-140			
Triacontane (C30)	1.7	0.5	mg/kg wet	2.000		84	40-140			
Surrogate: 1-Chlorooctadecane	*1.78*		mg/kg wet	*2.000*		*89*	*40-140*			
LCS										
2-Methylnaphthalene	1.43	0.20	mg/kg wet	2.000		71	40-140			
Acenaphthene	1.41	0.40	mg/kg wet	2.000		70	40-140			
Acenaphthylene	1.44	0.20	mg/kg wet	2.000		72	40-140			
Anthracene	1.50	0.40	mg/kg wet	2.000		75	40-140			
Benzo(a)anthracene	1.49	0.40	mg/kg wet	2.000		75	40-140			
Benzo(a)pyrene	1.79	0.40	mg/kg wet	2.000		90	40-140			
Benzo(b)fluoranthene	1.51	0.40	mg/kg wet	2.000		75	40-140			
Benzo(g,h,i)perylene	1.51	0.40	mg/kg wet	2.000		75	40-140			
Benzo(k)fluoranthene	1.69	0.40	mg/kg wet	2.000		85	40-140			
C11-C22 Unadjusted Aromatics1	29.2	15.0	mg/kg wet	34.00		86	40-140			
Chrysene	1.59	0.40	mg/kg wet	2.000		79	40-140			
Dibenzo(a,h)Anthracene	1.58	0.20	mg/kg wet	2.000		79	40-140			
Fluoranthene	1.58	0.40	mg/kg wet	2.000		79	40-140			
Fluorene	1.53	0.40	mg/kg wet	2.000		76	40-140			
Indeno(1,2,3-cd)Pyrene	1.46	0.40	mg/kg wet	2.000		73	40-140			
Naphthalene	1.28	0.40	mg/kg wet	2.000		64	40-140			
Phenanthrene	1.51	0.40	mg/kg wet	2.000		76	40-140			
Pyrene	1.54	0.40	mg/kg wet	2.000		77	40-140			
Surrogate: 2-Bromonaphthalene	*1.96*		mg/kg wet	*2.000*		*98*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*2.14*		mg/kg wet	*2.000*		*107*	*40-140*			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308108

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CH30919 - 3546										
Surrogate: O-Terphenyl	*1.86*		mg/kg wet	*2.000*		*93*	*40-140*			
LCS										
2-Methylnaphthalene Breakthrough	0.0		%				0-5			
Naphthalene Breakthrough	0.0		%				0-5			
LCS Dup										
C19-C36 Aliphatics1	18.9	15.0	mg/kg wet	16.00		118	40-140	14	25	
C9-C18 Aliphatics1	11.7	15.0	mg/kg wet	12.00		98	40-140	15	25	
Decane (C10)	1.2	0.5	mg/kg wet	2.000		62	40-140	13	25	
Docosane (C22)	1.9	0.5	mg/kg wet	2.000		96	40-140	10	25	
Dodecane (C12)	1.4	0.5	mg/kg wet	2.000		69	40-140	13	25	
Eicosane (C20)	1.9	0.5	mg/kg wet	2.000		94	40-140	10	25	
Hexacosane (C26)	1.9	0.5	mg/kg wet	2.000		94	40-140	10	25	
Hexadecane (C16)	1.7	0.5	mg/kg wet	2.000		87	40-140	10	25	
Hexatriacontane (C36)	1.8	0.5	mg/kg wet	2.000		91	40-140	11	25	
Nonadecane (C19)	1.8	0.5	mg/kg wet	2.000		92	40-140	10	25	
Nonane (C9)	0.9	0.5	mg/kg wet	2.000		46	30-140	14	25	
Octacosane (C28)	1.9	0.5	mg/kg wet	2.000		94	40-140	10	25	
Octadecane (C18)	1.8	0.5	mg/kg wet	2.000		91	40-140	10	25	
Tetracosane (C24)	1.9	0.5	mg/kg wet	2.000		94	40-140	10	25	
Tetradecane (C14)	1.6	0.5	mg/kg wet	2.000		79	40-140	12	25	
Triacontane (C30)	1.9	0.5	mg/kg wet	2.000		93	40-140	10	25	
Surrogate: 1-Chlorooctadecane	*1.82*		mg/kg wet	*2.000*		*91*	*40-140*			
LCS Dup										
2-Methylnaphthalene	1.43	0.20	mg/kg wet	2.000		71	40-140	0.3	20	
Acenaphthene	1.45	0.40	mg/kg wet	2.000		72	40-140	3	20	
Acenaphthylene	1.44	0.20	mg/kg wet	2.000		72	40-140	0.4	20	
Anthracene	1.54	0.40	mg/kg wet	2.000		77	40-140	3	20	
Benzo(a)anthracene	1.56	0.40	mg/kg wet	2.000		78	40-140	4	20	
Benzo(a)pyrene	1.84	0.40	mg/kg wet	2.000		92	40-140	3	20	
Benzo(b)fluoranthene	1.62	0.40	mg/kg wet	2.000		81	40-140	7	20	
Benzo(g,h,i)perylene	1.56	0.40	mg/kg wet	2.000		78	40-140	4	20	
Benzo(k)fluoranthene	1.77	0.40	mg/kg wet	2.000		88	40-140	4	20	
C11-C22 Unadjusted Aromatics1	31.3	15.0	mg/kg wet	34.00		92	40-140	7	25	
Chrysene	1.66	0.40	mg/kg wet	2.000		83	40-140	4	20	
Dibenzo(a,h)Anthracene	1.64	0.20	mg/kg wet	2.000		82	40-140	4	20	
Fluoranthene	1.62	0.40	mg/kg wet	2.000		81	40-140	3	20	
Fluorene	1.57	0.40	mg/kg wet	2.000		79	40-140	3	20	
Indeno(1,2,3-cd)Pyrene	1.50	0.40	mg/kg wet	2.000		75	40-140	3	20	
Naphthalene	1.33	0.40	mg/kg wet	2.000		67	40-140	4	20	
Phenanthrene	1.56	0.40	mg/kg wet	2.000		78	40-140	3	20	
Pyrene	1.63	0.40	mg/kg wet	2.000		82	40-140	6	20	
Surrogate: 2-Bromonaphthalene	*1.95*		mg/kg wet	*2.000*		*97*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*2.12*		mg/kg wet	*2.000*		*106*	*40-140*			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308108

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CH30919 - 3546										
Surrogate: O-Terphenyl	*1.84*		mg/kg wet	*2.000*		*92*	*40-140*			
LCS Dup										
2-Methylnaphthalene Breakthrough	0.0		%				0-5		200	
Naphthalene Breakthrough	0.0		%				0-5		200	

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett ESS Laboratory Work Order: 1308108

Notes and Definitions

U	Analyte included in the analysis, but not detected
SM	Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).
SD	Surrogate recovery(ies) diluted below the MRL (SD).
S-	Surrogate recovery(ies) below lower control limit (S-).
Q	Calibration required quadratic regression (Q).
PT	Pentachlorophenol tailing factor > 2.
IM	Internal Standard(s) outside of criteria due to matrix (UCM/coelution is present) (IM).
ICV-	Initial Calibration Verification recovery is below lower control limit (ICV-).
ICV	Initial Calibration Verification recovery is outside of control limit (ICV).
D	Diluted.
C+	Continuing Calibration recovery is above upper control limit (C+).
C-	Continuing Calibration recovery is below lower control limit (C-).
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	Detection Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308108

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Department of Defense (DoD) Environmental Laboratory Accreditation Program (ELAP)
A2LA Accredited: Testing Cert# 2864.01
http://www.a2la.org/scopepdf/2864-01.pdf

Rhode Island Potable and Non Potable Water: LAI00179
http://www.health.ri.gov/labs/waterlabs-instate.php

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750
http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI0002
http://www.maine.gov/dep/blwq/topic/vessel/lab_list.pdf

Massachusetts Potable and Non Potable Water: M-RI002
http://public.dep.state.ma.us/labcert/labcert.aspx

New Hampshire (NELAP accredited) Potable and Non PotableWater, Solid and Hazardous Waste: 2424
http://www4.egov.nh.gov/des/nhelap/namesearch.asp

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313
http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006
http://datamine2.state.nj.us/dep/DEP_OPRA/

United States Department of Agriculture Soil Permit: S-54210

Maryland Potable Water: 301
http://www.mde.state.md.us/assets/document/WSP_labs-2009apr20.pdf

CHEMISTRY

A2LA Accredited: Testing Cert # 2864.01
Lead in Paint, Phthalates, Lead in Children's Metals Products (Including Jewelry)
http://www.A2LA.org/dirsearchnew/newsearch.cfm

CPSC ID# 1141
Lead Paint, Lead in Children's Metals Jewelry
http://www.cpsc.gov/cgi-bin/labapplist.aspx

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Burlington
30 Community Drive
Suite 11
South Burlington, VT 05403
Tel: (802)660-1990

TestAmerica Job ID: 200-17862-2
TestAmerica Sample Delivery Group: 200-17862-2
Client Project/Site: Soil Analysis

For:
ESS Laboratory
185 Frances Ave.
Cranston, Rhode Island 02910

Attn: Ms. Christine Taylor

Authorized for release by:
8/19/2013 4:41:19 PM

Kathryn Kelly, Project Manager I
kathryn.kelly@testamericainc.com

LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Definitions/Glossary 3
Case Narrative 4
Detection Summary 5
Client Sample Results 6
QC Sample Results 8
QC Association Summary 9
Lab Chronicle 10
Certification Summary 12
Method Summary 13
Sample Summary 14
Chain of Custody 15
Receipt Checklists 20

Qualifiers

General Chemistry

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 200-17862-2

Laboratory: TestAmerica Burlington

Narrative

CASE NARRATIVE

Client: ESS Laboratory

Project: Soil Analysis

Report Number: 200-17862-2

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 08/09/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 1.4 C.

TOTAL ORGANIC CARBON

Samples 1308108-1, 1308108-2, 1308108-4, 1308108-5, 1308108-9, 1308108-12, 1308108-13, 1308108-14, 1308108-16 and 1308108-18 were analyzed for total organic carbon in accordance with Lloyd Kahn Method. The samples were analyzed on 08/14/2013.

No difficulties were encountered during the TOC analysis.

All quality control parameters were within the acceptance limits.

PERCENT SOLIDS

Samples 1308108-1, 1308108-2, 1308108-4, 1308108-5, 1308108-9, 1308108-12, 1308108-13, 1308108-14, 1308108-16 and 1308108-18 were analyzed for percent solids in accordance with EPA SW846 3550C. The samples were analyzed on 08/12/2013.

No difficulties were encountered during the % solids analysis.

All quality control parameters were within the acceptance limits.

Detection Summary

Client: ESS Laboratory
Project/Site: Soil Analysis

TestAmerica Job ID: 200-17862-2
SDG: 200-17862-2

Client Sample ID: 1308108-1 — Lab Sample ID: 200-17862-9

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	55200		3010	3010	mg/Kg	1	☼	Lloyd Kahn	Total/NA

Client Sample ID: 1308108-2 — Lab Sample ID: 200-17862-10

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	138000		3540	3540	mg/Kg	1	☼	Lloyd Kahn	Total/NA

Client Sample ID: 1308108-4 — Lab Sample ID: 200-17862-11

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	31000		1910	1910	mg/Kg	1	☼	Lloyd Kahn	Total/NA

Client Sample ID: 1308108-5 — Lab Sample ID: 200-17862-12

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	14100		1460	1460	mg/Kg	1	☼	Lloyd Kahn	Total/NA

Client Sample ID: 1308108-9 — Lab Sample ID: 200-17862-13

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	40700		1510	1510	mg/Kg	1	☼	Lloyd Kahn	Total/NA

Client Sample ID: 1308108-12 — Lab Sample ID: 200-17862-14

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	19100		1340	1340	mg/Kg	1	☼	Lloyd Kahn	Total/NA

Client Sample ID: 1308108-13 — Lab Sample ID: 200-17862-15

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	35700		1950	1950	mg/Kg	1	☼	Lloyd Kahn	Total/NA

Client Sample ID: 1308108-14 — Lab Sample ID: 200-17862-16

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	6760		1270	1270	mg/Kg	1	☼	Lloyd Kahn	Total/NA

Client Sample ID: 1308108-16 — Lab Sample ID: 200-17862-17

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	61300		2670	2670	mg/Kg	1	☼	Lloyd Kahn	Total/NA

Client Sample ID: 1308108-18 — Lab Sample ID: 200-17862-18

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	32100		2290	2290	mg/Kg	1	☼	Lloyd Kahn	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 1308108-1 — **Lab Sample ID: 200-17862-9**
Date Collected: 08/06/13 00:00 — Matrix: Sediment
Date Received: 08/09/13 10:00 — Percent Solids: 33.2

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	55200		3010	3010	mg/Kg	☼		08/14/13 14:03	1
Percent Solids	33.2		0.25	0.25	%			08/12/13 15:49	1

Client Sample ID: 1308108-2 — **Lab Sample ID: 200-17862-10**
Date Collected: 08/02/13 00:00 — Matrix: Sediment
Date Received: 08/09/13 10:00 — Percent Solids: 28.2

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	138000		3540	3540	mg/Kg	☼		08/14/13 14:34	1
Percent Solids	28.2		0.25	0.25	%			08/12/13 15:49	1

Client Sample ID: 1308108-4 — **Lab Sample ID: 200-17862-11**
Date Collected: 08/02/13 00:00 — Matrix: Sediment
Date Received: 08/09/13 10:00 — Percent Solids: 52.4

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	31000		1910	1910	mg/Kg	☼		08/14/13 14:40	1
Percent Solids	52.4		0.25	0.25	%			08/12/13 15:49	1

Client Sample ID: 1308108-5 — **Lab Sample ID: 200-17862-12**
Date Collected: 08/06/13 00:00 — Matrix: Sediment
Date Received: 08/09/13 10:00 — Percent Solids: 68.5

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	14100		1460	1460	mg/Kg	☼		08/14/13 14:47	1
Percent Solids	68.5		0.25	0.25	%			08/12/13 15:49	1

Client Sample ID: 1308108-9 — **Lab Sample ID: 200-17862-13**
Date Collected: 08/05/13 00:00 — Matrix: Sediment
Date Received: 08/09/13 10:00 — Percent Solids: 66.1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	40700		1510	1510	mg/Kg	☼		08/14/13 14:53	1
Percent Solids	66.1		0.25	0.25	%			08/12/13 15:49	1

Client Sample ID: 1308108-12 — **Lab Sample ID: 200-17862-14**
Date Collected: 08/05/13 00:00 — Matrix: Sediment
Date Received: 08/09/13 10:00 — Percent Solids: 74.7

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	19100		1340	1340	mg/Kg	☼		08/14/13 15:00	1
Percent Solids	74.7		0.25	0.25	%			08/12/13 15:49	1

Client: ESS Laboratory
Project/Site: Soil Analysis

TestAmerica Job ID: 200-17862-2
SDG: 200-17862-2

Client Sample ID: 1308108-13

Date Collected: 08/06/13 00:00
Date Received: 08/09/13 10:00

Lab Sample ID: 200-17862-15

Matrix: Sediment
Percent Solids: 51.2

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	35700		1950	1950	mg/Kg	☼		08/14/13 15:07	1
Percent Solids	51.2		0.25	0.25	%			08/12/13 15:49	1

Client Sample ID: 1308108-14

Date Collected: 08/05/13 00:00
Date Received: 08/09/13 10:00

Lab Sample ID: 200-17862-16

Matrix: Sediment
Percent Solids: 78.8

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	6760		1270	1270	mg/Kg	☼		08/14/13 15:14	1
Percent Solids	78.8		0.25	0.25	%			08/12/13 15:49	1

Client Sample ID: 1308108-16

Date Collected: 08/05/13 00:00
Date Received: 08/09/13 10:00

Lab Sample ID: 200-17862-17

Matrix: Sediment
Percent Solids: 37.5

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	61300		2670	2670	mg/Kg	☼		08/14/13 15:21	1
Percent Solids	37.5		0.25	0.25	%			08/12/13 15:49	1

Client Sample ID: 1308108-18

Date Collected: 08/02/13 00:00
Date Received: 08/09/13 10:00

Lab Sample ID: 200-17862-18

Matrix: Sediment
Percent Solids: 43.6

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	32100		2290	2290	mg/Kg	☼		08/14/13 15:28	1
Percent Solids	43.6		0.25	0.25	%			08/12/13 15:49	1

Method: Lloyd Kahn - Organic Carbon, Total (TOC)

Lab Sample ID: MB 200-59843/5
Matrix: Sediment
Analysis Batch: 59843

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	1000	U	1000	1000	mg/Kg			08/14/13 12:45	1

Lab Sample ID: LCS 200-59843/6
Matrix: Sediment
Analysis Batch: 59843

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon			20100	20500		mg/Kg		102	75 - 125		

Method: Moisture - Percent Moisture

Lab Sample ID: 200-17862-13 DU
Matrix: Sediment
Analysis Batch: 59672

Client Sample ID: 1308108-9
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Solids	66.1			66.3		%				0.3	20

General Chemistry

Analysis Batch: 59672

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-17862-9	1308108-1	Total/NA	Sediment	Moisture	
200-17862-10	1308108-2	Total/NA	Sediment	Moisture	
200-17862-11	1308108-4	Total/NA	Sediment	Moisture	
200-17862-12	1308108-5	Total/NA	Sediment	Moisture	
200-17862-13	1308108-9	Total/NA	Sediment	Moisture	
200-17862-13 DU	1308108-9	Total/NA	Sediment	Moisture	
200-17862-14	1308108-12	Total/NA	Sediment	Moisture	
200-17862-15	1308108-13	Total/NA	Sediment	Moisture	
200-17862-16	1308108-14	Total/NA	Sediment	Moisture	
200-17862-17	1308108-16	Total/NA	Sediment	Moisture	
200-17862-18	1308108-18	Total/NA	Sediment	Moisture	

Analysis Batch: 59843

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-17862-9	1308108-1	Total/NA	Sediment	Lloyd Kahn	
200-17862-10	1308108-2	Total/NA	Sediment	Lloyd Kahn	
200-17862-11	1308108-4	Total/NA	Sediment	Lloyd Kahn	
200-17862-12	1308108-5	Total/NA	Sediment	Lloyd Kahn	
200-17862-13	1308108-9	Total/NA	Sediment	Lloyd Kahn	
200-17862-14	1308108-12	Total/NA	Sediment	Lloyd Kahn	
200-17862-15	1308108-13	Total/NA	Sediment	Lloyd Kahn	
200-17862-16	1308108-14	Total/NA	Sediment	Lloyd Kahn	
200-17862-17	1308108-16	Total/NA	Sediment	Lloyd Kahn	
200-17862-18	1308108-18	Total/NA	Sediment	Lloyd Kahn	
LCS 200-59843/6	Lab Control Sample	Total/NA	Sediment	Lloyd Kahn	
MB 200-59843/5	Method Blank	Total/NA	Sediment	Lloyd Kahn	

Lab Chronicle

Client: ESS Laboratory
Project/Site: Soil Analysis

TestAmerica Job ID: 200-17862-2
SDG: 200-17862-2

Client Sample ID: 1308108-1
Lab Sample ID: 200-17862-9
Date Collected: 08/06/13 00:00
Matrix: Sediment
Date Received: 08/09/13 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	59672	08/12/13 15:49	VTP	TAL BUR
Total/NA	Analysis	Lloyd Kahn		1	59843	08/14/13 14:03	VTP	TAL BUR

Client Sample ID: 1308108-2
Lab Sample ID: 200-17862-10
Date Collected: 08/02/13 00:00
Matrix: Sediment
Date Received: 08/09/13 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	59672	08/12/13 15:49	VTP	TAL BUR
Total/NA	Analysis	Lloyd Kahn		1	59843	08/14/13 14:34	VTP	TAL BUR

Client Sample ID: 1308108-4
Lab Sample ID: 200-17862-11
Date Collected: 08/02/13 00:00
Matrix: Sediment
Date Received: 08/09/13 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	59672	08/12/13 15:49	VTP	TAL BUR
Total/NA	Analysis	Lloyd Kahn		1	59843	08/14/13 14:40	VTP	TAL BUR

Client Sample ID: 1308108-5
Lab Sample ID: 200-17862-12
Date Collected: 08/06/13 00:00
Matrix: Sediment
Date Received: 08/09/13 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	59672	08/12/13 15:49	VTP	TAL BUR
Total/NA	Analysis	Lloyd Kahn		1	59843	08/14/13 14:47	VTP	TAL BUR

Client Sample ID: 1308108-9
Lab Sample ID: 200-17862-13
Date Collected: 08/05/13 00:00
Matrix: Sediment
Date Received: 08/09/13 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	59672	08/12/13 15:49	VTP	TAL BUR
Total/NA	Analysis	Lloyd Kahn		1	59843	08/14/13 14:53	VTP	TAL BUR

Client Sample ID: 1308108-12
Lab Sample ID: 200-17862-14
Date Collected: 08/05/13 00:00
Matrix: Sediment
Date Received: 08/09/13 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	59672	08/12/13 15:49	VTP	TAL BUR

Lab Chronicle

Client: ESS Laboratory
Project/Site: Soil Analysis

TestAmerica Job ID: 200-17862-2
SDG: 200-17862-2

Client Sample ID: 1308108-12

Date Collected: 08/05/13 00:00
Date Received: 08/09/13 10:00

Lab Sample ID: 200-17862-14

Matrix: Sediment
Percent Solids: 74.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	59843	08/14/13 15:00	VTP	TAL BUR

Client Sample ID: 1308108-13

Date Collected: 08/06/13 00:00
Date Received: 08/09/13 10:00

Lab Sample ID: 200-17862-15

Matrix: Sediment

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	59672	08/12/13 15:49	VTP	TAL BUR
Total/NA	Analysis	Lloyd Kahn		1	59843	08/14/13 15:07	VTP	TAL BUR

Client Sample ID: 1308108-14

Date Collected: 08/05/13 00:00
Date Received: 08/09/13 10:00

Lab Sample ID: 200-17862-16

Matrix: Sediment

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	59672	08/12/13 15:49	VTP	TAL BUR
Total/NA	Analysis	Lloyd Kahn		1	59843	08/14/13 15:14	VTP	TAL BUR

Client Sample ID: 1308108-16

Date Collected: 08/05/13 00:00
Date Received: 08/09/13 10:00

Lab Sample ID: 200-17862-17

Matrix: Sediment

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	59672	08/12/13 15:49	VTP	TAL BUR
Total/NA	Analysis	Lloyd Kahn		1	59843	08/14/13 15:21	VTP	TAL BUR

Client Sample ID: 1308108-18

Date Collected: 08/02/13 00:00
Date Received: 08/09/13 10:00

Lab Sample ID: 200-17862-18

Matrix: Sediment

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	59672	08/12/13 15:49	VTP	TAL BUR
Total/NA	Analysis	Lloyd Kahn		1	59843	08/14/13 15:28	VTP	TAL BUR

Laboratory References:

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Certification Summary

Client: ESS Laboratory
Project/Site: Soil Analysis

TestAmerica Job ID: 200-17862-2
SDG: 200-17862-2

Laboratory: TestAmerica Burlington

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Connecticut	State Program	1	PH-0751	09-30-13
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	NA	02-13-15
Florida	NELAP	4	E87467	06-30-14
L-A-B	DoD ELAP		L2336	10-26-13
Louisiana	NELAP	6	176292	06-30-14
Maine	State Program	1	VT00008	04-17-15
Minnesota	NELAP	5	050-999-436	12-31-13
New Hampshire	NELAP	1	2006	12-18-13
New Jersey	NELAP	2	VT972	06-30-14
New York	NELAP	2	10391	04-01-14
Pennsylvania	NELAP	3	68-00489	04-30-14
Rhode Island	State Program	1	LAO00298	12-30-13
US Fish & Wildlife	Federal		LE-058448-0	02-28-14
USDA	Federal		P330-11-00093	02-17-14
Vermont	State Program	1	VT-4000	12-31-13
Virginia	NELAP	3	460209	12-14-13

Method Summary

Client: ESS Laboratory
Project/Site: Soil Analysis

TestAmerica Job ID: 200-17862-2
SDG: 200-17862-2

Method	Method Description	Protocol	Laboratory
Lloyd Kahn	Organic Carbon, Total (TOC)	EPA	TAL BUR
Moisture	Percent Moisture	EPA	TAL BUR

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Sample Summary

Client: ESS Laboratory
Project/Site: Soil Analysis

TestAmerica Job ID: 200-17862-2
SDG: 200-17862-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
200-17862-9	1308108-1	Sediment	08/06/13 00:00	08/09/13 10:00
200-17862-10	1308108-2	Sediment	08/02/13 00:00	08/09/13 10:00
200-17862-11	1308108-4	Sediment	08/02/13 00:00	08/09/13 10:00
200-17862-12	1308108-5	Sediment	08/06/13 00:00	08/09/13 10:00
200-17862-13	1308108-9	Sediment	08/05/13 00:00	08/09/13 10:00
200-17862-14	1308108-12	Sediment	08/05/13 00:00	08/09/13 10:00
200-17862-15	1308108-13	Sediment	08/06/13 00:00	08/09/13 10:00
200-17862-16	1308108-14	Sediment	08/05/13 00:00	08/09/13 10:00
200-17862-17	1308108-16	Sediment	08/05/13 00:00	08/09/13 10:00
200-17862-18	1308108-18	Sediment	08/02/13 00:00	08/09/13 10:00

ESS Laboratory

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

Page _____ of _____

Turn Time ___ Standard Other 4 day
If faster than 5 days, prior approval by laboratory is required # _____

State where samples were collected from:
(MA) RI CT NH NJ NY ME Other _____

Is this project for any of the following:
(MA-MCP) Navy USACE Other _____

Reporting Limits

ESS LAB PROJECT ID

Electronic Deliverable Yes ✓ No ___
Format: Excel __ Access __ PDF __ Other ✓

Co. Name	Project #	Project Name (20 Char. or less)
ESS	1308108	

Contact Person	Address
Christine Taylor	

City	State	Zip	PO#
			1308108

Telephone #	Fax #	Email Address
		ctaylor@thielsch.com

ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	Write Required Analysis: TCL Glycol/Meth
	8/6			✓	Sed	1308108-1	1	1	6	X
	8/2					-2				
	8/2					-4				
	8/6					-5				
	8/5					-9				
	8/5					-12				
	8/6					-13				
	8/5					-16				
	8/2					-18				
	8/2									

200-17862 COC

Container Type: P-Poly G-Glass S-Sterile V-VOA | Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present ___ Yes ___ No
Seals Intact ___ Yes ___ No NA: ___
Cooler Temp: _____

Internal Use Only
[ ] Pickup
[ ] Technicians _____

Preservation Code 1- NP, 2- HCl, 3- H_2SO_4, 4- HNO_3, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9- _____

Sampled by:

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	8/9/13 1800						
		Stephanie Fowler	8/9/13 1000				

*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt

10/26/04 A

ESS Laboratory

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

Page_____ of_____

Turn Time ___ Standard Other 4 day
If faster than 5 days, prior approval by laboratory is required #

State where samples were collected from:
(MA) RI CT NH NJ NY ME Other _____

Is this project for any of the following:
(MA-MCP) Navy USACE Other _____

Reporting Limits

ESS LAB PROJECT ID

Electronic Deliverable Yes ✓ No ___
Format: Excel __ Access __ PDF ✓ Other _____

Co. Name	Project #	Project Name (20 Char. or less)
ESS	1308109	
Contact Person	**Address**	
C. Taylor		
City	**State**	**Zip**
Telephone #	**Fax #**	**Email Address**
		ctaylor@thielsch.com

PO# 1308109

ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	TIC Lloyd Kahn
	8/5			✓	Sed	1308109-1	1	1	6	X
	8/5					-3				
	8/5					-6				
	8/6					-7				
	8/6					-9				
	8/6					-11				
	8/5					-12				
	8/5					-14				
	8/5					-17				
	8/5					-20				

Container Type: P-Poly G-Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present ___ Yes ___ No Internal Use Only

Seals Intact ___ Yes ___ No NA: ___ [ ] Pickup

Cooler Temp: _____ [ ] Technicians _____

Preservation Code 1- NP, 2- HCl, 3- H_2SO_4, 4- HNO_3, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9-_____

Sampled by:

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	3/8/13 1800	Fed ex					
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
			8/9/13 1000				

*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt

10/26/04 A

ESS Laboratory

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

Page ____ of ____

Turn Time: Standard (5-7 days) Other 4 day
If faster than 5 days, prior approval by laboratory is required #

State where samples were collected from:
MA RI CT NH NJ NY ME Other ____

Is this project for any of the following:
MA-MCP Navy USACE Other ____

Reporting Limits

ESS LAB PROJECT ID

Electronic Deliverable Yes ✓ No ___
Format: Excel ___ Access ___ PDF ✓ Other ____

Co. Name	Project #	Project Name (20 Char. or less)
ESS	1308110	

Contact Person	Address
C Taylor	

City	State	Zip	PO#

Telephone #	Fax #	Email Address
		ctaylor@thielsch.com

ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	Write Required Analysis: BC (Cyc/Kan)
	8/5			✓	Sed	1308110-2	1	1	6	X
	8/5			↓	↓	-5	↓	↓	↓	↓
	8/5					-6				
	8/5					-9				
	8/5			↓	↓	-12	↓	↓	↓	↓

Container Type: P-Poly G-Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present ___ Yes ___ No Internal Use Only

Seals Intact ___ Yes ___ No NA: ___ [ ] Pickup

Cooler Temp: ____ [ ] Technicians ____

Preservation Code 1- NP, 2- HCl, 3- H_2SO_4, 4- HNO_3, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9- ____

Sampled by:

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	8/8/13 1800	Fed ex					
		Steph Tucker	8/9/13 1000				

*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt

10/26/04 A

ESS Laboratory

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www.esslaboratory.com

CHAIN OF CUSTODY

Page_____ of_____

Turn Time ___ Standard Other 4 day
If faster than 5 days, prior approval by laboratory is required # _____

State where samples were collected from:
(MA) RI CT NH NJ NY ME Other _____

Is this project for any of the following:
(MA-MCP) Navy USACE Other _____

Reporting Limits

ESS LAB PROJECT ID

Electronic Deliverable Yes ✓ No ___
Format: Excel ___ Access ___ PDF ✓ Other _____

Co. Name	Project #	Project Name (20 Char. or less)
ESS	1308107	

Contact Person	Address
Christine Taylor	

City	State	Zip	PO#

Telephone #	Fax #	Email Address
		ctaylor@thielsch.com

Write Required Analysis: TOC (Lloyd Kahn)

ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers
	8/6	0837		✓	Sed	1308107-4	1	1	6
	8/1	1443		↓	↓	-6	↓	↓	↓
	8/2	1232				-9			
	8/2	1232				-10			
	8/5	1250				-12			
	↓	1250				-13			
		1250				-16			
	↓	1350				-18	↓	↓	↓
				↓	↓				

Container Type: P-Poly G-Glass S-Sterile V-VOA | Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present ___ Yes ___ No Internal Use Only

Seals Intact ___ Yes ___ No NA: ___ [ ] Pickup

Cooler Temp: _____ [ ] Technicians _____

Preservation Code 1- NP, 2- HCl, 3- H_2SO_4, 4- HNO_3, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9- _____

Sampled by:

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
[signature]	8/8/13 1800	Fed Ex	8/8/13	[signature]			
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
		[signature]	8/9/13 1000				

*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt

10/26/04 A

From: (401) 467-6454
Sample Receiving
ESS Lab
185 Frances Ave

Cranston, RI 02910

Origin ID: PVDA

FedEx Express

J13201306260326

Ship Date: 08AUG13
ActWgt: 47.0 LB
CAD: 105103550/INET3430

Delivery Address Bar Code

SHIP TO: (802) 660-1990 BILL SENDER

Sample Receiving
Test America
30 Community Dr
Ste 11
S BURLINGTON, VT 05403

Ref #
Invoice #
PO #
Dept #

FRI - 09 AUG 10:30A
PRIORITY OVERNIGHT

TRK# 0201 7964 2397 6923

EK BTVA

05403
VT-US
BTV

51AG1/09B9/1A9E

After printing this label:
1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.
Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com.FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery,misdelivery,or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim.Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental,consequential, or special is limited to the greater of $100 or the authorized declared value. Recovery cannot exceed actual documented loss.Maximum for items of extraordinary value is $1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

Login Sample Receipt Checklist

Client: ESS Laboratory

Job Number: 200-17862-2
SDG Number: 200-17862-2

Login Number: 17862
List Number: 1
Creator: Marion, Greg T

List Source: TestAmerica Burlington

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.4ºC IR GUN ID 181/CF=-0.2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	Refer to Job Narrative for details.
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Received extra samples not listed on COC.
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	False	Refer to Job Narrative for details.
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

Sample and Cooler Receipt Checklist

Client: GZA GeoEnvironmental, Inc.
Client Project ID: _____
Shipped/Delivered Via: ESS Courier

ESS Project ID: 13080108
Date Project Due: 8/14/13
Days For Project: 5 Day

Items to be checked upon receipt:

1. Air Bill Manifest Present?	* No	10. Are the samples properly preserved?	Yes
Air No.:		11. Proper sample containers used?	Yes
2. Were Custody Seals Present?	No	12. Any air bubbles in the VOA vials?	N/A
3. Were Custody Seals Intact?	N/A	13. Holding times exceeded?	No
4. Is Radiation count < 100 CPM?	Yes	14. Sufficient sample volumes?	Yes
5. Is a cooler present?	Yes	15. Any Subcontracting needed?	* Yes
Cooler Temp: **2.6**		16. Are ESS labels on correct containers?	Yes|No
Iced With: **Ice**		17. Were samples received intact?	Yes|No
6. Was COC included with samples?	Yes	ESS Sample IDs:	108-1,2,4,5,9,12,13,14,16,18
7. Was COC signed and dated by client?	Yes	Sub Lab:	~~Stat~~ (TA)
8. Does the COC match the sample	Yes	Analysis:	TOC
9. Is COC complete and correct?	Yes	TAT:	4 Dy

18. Was there need to call project manager to discuss status? If yes, please explain.

_____

_____

_____

Who was called?:_____ By whom? _____

Sample Number	Properly Preserved	Container Type	# of Containers	Preservative
1	Yes	2 oz Soil Jar	1	NP
1	Yes	4 oz Soil Jar	1	NP
1	Yes	8 oz Soil Jar	1	NP
2	Yes	2 oz Soil Jar	1	NP
2	Yes	4 oz Soil Jar	1	NP
2	Yes	8 oz Soil Jar	1	NP
3	Yes	4 oz Soil Jar	1	NP
3	Yes	8 oz Soil Jar	1	NP
4	Yes	2 oz Soil Jar	1	NP
4	Yes	4 oz Soil Jar	1	NP
4	Yes	8 oz Soil Jar	1	NP
5	Yes	2 oz Soil Jar	1	NP
5	Yes	4 oz Soil Jar	1	NP
5	Yes	8 oz Soil Jar	1	NP
6	Yes	4 oz Soil Jar	1	NP
6	Yes	8 oz Soil Jar	1	NP
7	Yes	4 oz Soil Jar	1	NP
7	Yes	8 oz Soil Jar	1	NP
8	Yes	4 oz Soil Jar	1	NP
8	Yes	8 oz Soil Jar	1	NP
9	Yes	2 oz Soil Jar	1	NP
9	Yes	4 oz Soil Jar	1	NP
9	Yes	8 oz Soil Jar	1	NP
10	Yes	4 oz Soil Jar	1	NP
10	Yes	8 oz Soil Jar	1	NP

Sample and Cooler Receipt Checklist

Client: GZA GeoEnvironmental, Inc. ESS Project ID: 13080108

11	Yes	4 oz Soil Jar	1	NP
11	Yes	8 oz Soil Jar	1	NP
12	Yes	2 oz Soil Jar	1	NP
12	Yes	4 oz Soil Jar	1	NP
12	Yes	8 oz Soil Jar	1	NP
13	Yes	2 oz Soil Jar	1	NP
13	Yes	4 oz Soil Jar	1	NP
13	Yes	8 oz Soil Jar	1	NP
14	Yes	2 oz Soil Jar	1	NP
14	Yes	4 oz Soil Jar	1	NP
14	Yes	8 oz Soil Jar	1	NP
15	Yes	4 oz Soil Jar	1	NP
15	Yes	8 oz Soil Jar	1	NP
16	Yes	2 oz Soil Jar	1	NP
16	Yes	4 oz Soil Jar	1	NP
16	Yes	8 oz Soil Jar	1	NP
17	Yes	4 oz Soil Jar	1	NP
17	Yes	8 oz Soil Jar	1	NP
18	Yes	2 oz Soil Jar	1	NP
18	Yes	4 oz Soil Jar	1	NP
18	Yes	8 oz Soil Jar	1	NP
19	Yes	4 oz Soil Jar	1	NP
19	Yes	8 oz Soil Jar	1	NP
20	Yes	4 oz Soil Jar	1	NP
20	Yes	8 oz Soil Jar	1	NP

Completed By: _____ Date/Time: 8/7/13 18:40

Reviewed By: _____ Date/Time: 8/7/13 1840

ESS Laboratory

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

ESS LAB PROJECT ID: 130810 8

Turn Time ___x___Standard Rush_____ Approved By: _____

Reporting Limits - see prev. email correspondence

State where samples were collected: MA RI CT NH NJ NY ME Other_____

Is this project for any of the following: (please circle)
MA-MCP CT-RCP RGP DOD Other_____

Electonic Deliverable Yes__x__ No___
Format: Excel_x__ Access___ PDF___ Other_____

GZA Project Manager: David E. Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Avenue
Norwood, MA 02062
(781) 278-3700
PRESUMPTIVE CERTAINTY REQUIRED

Project # 171521.02
Project Name: Former Everett Staging Yard
Contract Pricing ____
Special Pricing WO#: _____

ESS Lab Sample ID	Date	Collection Time	Grab -G Composite-C	Matrix	Sample Identification	# of Containers	MCP 14 metals	B/N Phthalates Esters 8270	PAH 8270 SIM	EPH Fractions	PCBs	TOC by Lloyd Kahn					Comment #
						Analysis											
1	8/6/13	10:45	G	Sed	GZ-134 T 0-0.5'	2	X	X	X	X	X	X					
2	8/2/13	13:53	G	Sed	GZ-134 2-3'	2	X	X	X	X	X	X					
3	8/2/13	13:53	G	Sed	GZ-134 4-6'	2	X										
4	8/2/13	13:53	G	Sed	GZ-134 6-8'	2	X	X	X	X	X	X					
5	8/6/13	8:23	G	Sed	GZ-135 T 0-0.5'	2	X					X					
6	8/2/13	14:15	G	Sed	GZ-135 2-4'	2	X										
7	8/2/13	14:15	G	Sed	GZ-135 4-6'	2	X										
8	8/5/13	8:50	G	Sed	GZ-136 0-0.5'	2	X										
9	8/5/13	8:50	G	Sed	GZ-136 0.5-2'	2	X	X	X	X	X	X					
10	8/5/13	8:50	G	Sed	GZ-136 2-4'	2	X										
							AG	AG	AG	AG	AG	AG					

Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-_____

Container Type: P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filter

Cooler Present ___✓___Yes _____No
Seals Intact ___✓___Yes _____No NA: ~~RB~~
Cooler Temperature: 4.1 3.6 4.8 2.6 3.2

Sampled by : Dan Scanlon

Comments: Contract Price - 10%

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
W Wallace	8/6/13	Rick Brosan 8/7/13 1030	Rick Brosan 8/7/13	1120	8/7/13 1635

Please E-mail all changes to Chain of Custody in writing.

ESS Laboratory

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

ESS LAB PROJECT ID: 1308108

Turn Time ___x___ Standard Rush_____ Approved By: _____

Reporting Limits - see prev. email correspondence

State where samples were collected: **MA RI CT NH NJ NY ME** Other_____

Is this project for any of the following: (please circle)
MA-MCP CT-RCP RGP DOD Other_____

Electonic Deliverable Yes__x__ No____
Format: Excel_x__ Access___ PDF___ Other_____

GZA Project Manager: David E. Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Avenue
Norwood, MA 02062
(781) 278-3700
PRESUMPTIVE CERTAINTY REQUIRED

Project # 171521.02

Project Name: Former Everett Staging Yard

Contract Pricing ____
Special Pricing WO#: _____

ESS Lab Sample ID	Date	Collection Time	Grab -G Composite-C	Matrix	Sample Identification	# of Containers	Analysis: MCP 14 metals	B/N Phthalates Esters 8270	PAH 8270 SIM	EPH Fractions	PCBs	TOC by Lloyd Kahn						Comment #
11	8/5/13	8:50	G	Sed	GZ-136 4-6'	2	X											
12	8/5/13	8:50	G	Sed	GZ-136 8-10'	2	X					X						
13	8/6/13	8:30	G	Sed	GZ-137 T 0-0.5'	2	X	X	X	X	X	X						
14	8/5/13	9:16	G	Sed	GZ-137 2-4'	2	X	X	X	X	X	X						
15	8/5/13	9:16	G	Sed	GZ-137 4-5.5'	2	X											
16	8/2/13	14:25	G	Sed	GZ-138 0-0.5'	2	X					X						
17	8/2/13	14:25	G	Sed	GZ-138 0.5-2'	2	X											
18	8/2/13	14:25	G	Sed	GZ-138 2-4'	2	X					X						
19	8/2/13	14:25	G	Sed	GZ-138 4-6'	2	X											
20	8/2/13	14:25	G	Sed	GZ-138 6-8'	2	X											
							AG	AG	AG	AG	AG	AG						

Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-_____

Container Type: P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filter

Cooler Present ✓ Yes ____ No
Seals Intact ✓ Yes ____ No NA: BB
Coolers
Cooler Temperature: 4.1 3.6 4.8 2.6 3.2

Sampled by : Dan Scanlon

Comments: Contract Price - 10%

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
[signature] Wallen	8/6/13 20:0	[signature] 8/7/13 10:30	[signature] 8/7/13	11:20	[signature] 8/7/13 16:35
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)

Please E-mail all changes to Chain of Custody in writing.

CERTIFICATE OF ANALYSIS

David E Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Avenue
Norwood, MA 02062

RE: Everett (01.0171521.02)
ESS Laboratory Work Order Number: 1308109

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard
Laboratory Director

REVIEWED
By ESS Laboratory at 1:05 pm, Aug 20, 2013

Analytical Summary
The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with NELAC Standards, A2LA and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibratins, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.

Subcontracted Analyses

TestAmerica Laboratories, Inc. - Burlington, VT	Total Organic Carbon

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308109

SAMPLE RECEIPT

The following samples were received on August 07, 2013 for the analyses specified on the enclosed Chain of Custody Record.

To achieve CAM compliance for MCP data, ESS Laboratory has performed and reviewed all QA/QC Requirements and Performance Standards listed in each method. Holding times and preservation have also been reviewed. All CAM requirements have been achieved unless noted in the project narrative.

Each method has been set-up in the laboratory to reach required MCP standards. The methods for aqueous VOA and Soil Methanol VOA have known limitations for certain analytes. The regulatory standards may not be achieved due to these limitations. In addition, for all methods, matrix interferences, dilutions, and %Solids may elevate method reporting limits above regulatory standards. ESS Laboratory can provide, upon request, a Data Checker (regulatory standard comparison spreadsheet) electronic deliverable which will highlight these exceedances.

For EPH soil samples, the aromatic range results have been corrected for identified cartridge contaminant in accordance with the CAM protocol.

Question I: All samples for SVOA were analyzed for a subset of the required MCP list per the client's request.

Lab Number	SampleName	Matrix	Analysis
1308109-01	GZ-139 0-0.5ft	Soil	6010B, 6020A, 7471B, TOC-LK
1308109-02	GZ-139 2-4ft	Soil	6010B, 6020A, 7471B
1308109-03	GZ-139 6-8ft	Soil	6010B, 6020A, 7471B, TOC-LK
1308109-04	GZ-140A 0-0.5ft	Soil	6010B, 6020A, 7471B
1308109-05	GZ-140A 0.5-2ft	Soil	6010B, 6020A, 7471B
1308109-06	GZ-140A 2-3ft	Soil	6010B, 6020A, 7471B, 8082A, 8270D, EPH8270, MADEP-EPH, TOC-LK
1308109-07	GZ-LC1 T 0-0.5ft	Soil	6010B, 6020A, 7471B, 8082A, 8270D, EPH8270, MADEP-EPH, TOC-LK
1308109-08	GZ-LC1 2-4ft	Soil	6010B, 6020A, 7471B, 8082A, 8270D, EPH8270, MADEP-EPH
1308109-09	GZ-LC2 T 0-0.5ft	Soil	6010B, 6020A, 7471B, 8082A, 8270D, EPH8270, MADEP-EPH, TOC-LK
1308109-10	GZ-LC2 2-4ft	Soil	6010B, 6020A, 7471B, 8082A, 8270D, EPH8270, MADEP-EPH
1308109-11	GZ-LC3 T 0-0.5ft	Soil	6010B, 6020A, 7471B, 8082A, 8270D, EPH8270, MADEP-EPH, TOC-LK
1308109-12	GZ-LC-3 0.5-2ft	Soil	6010B, 6020A, 7471B, 8082A, 8270D, EPH8270, MADEP-EPH, TOC-LK
1308109-13	GZ-LC-3 4-6ft	Soil	6010B, 6020A, 7471B, 8082A, 8270D, EPH8270, MADEP-EPH

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
ESS Laboratory Work Order: 1308109

1308109-14	GZ-LC4 T 0-0.5ft	Soil	6010B, 6020A, 7471B, 8082A, 8270D, EPH8270, MADEP-EPH, TOC-LK
1308109-15	GZ-LC4 0.5-2ft	Soil	6010B, 6020A, 7471B, 8082A, 8270D, EPH8270, MADEP-EPH
1308109-16	GZ-LC4 2-4ft	Soil	6010B, 6020A, 7471B, 8082A, 8270D, EPH8270, MADEP-EPH
1308109-17	GZ-LC4 4-6ft	Soil	6010B, 6020A, 7471B, 8082A, 8270D, EPH8270, MADEP-EPH
1308109-18	GZ-LC5 0-0.5ft	Soil	6010B, 6020A, 7471B, 8082A, 8270D, EPH8270, MADEP-EPH, TOC-LK
1308109-19	GZ-LC5 2-4ft	Soil	6010B, 6020A, 7471B, 8082A, 8270D, EPH8270, MADEP-EPH
1308109-20	GZ-LC6 0-0.5ft	Soil	6010B, 6020A, 7471B, 8082A, 8270D, EPH8270, MADEP-EPH, TOC-LK

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308109

PROJECT NARRATIVE

8082A Polychlorinated Biphenyls (PCB)

1308109-07	**Percent difference between primary and confirmation results exceeds 40% (P).** Aroclor 1260
1308109-09	**Surrogate recovery(ies) diluted below the MRL (SD).** Decachlorobiphenyl (% @ 30-150%), Decachlorobiphenyl [2C] (% @ 30-150%), Tetrachloro-m-xylene (% @ 30-150%), Tetrachloro-m-xylene [2C] (% @ 30-150%)
1308109-10	**Surrogate recovery(ies) diluted below the MRL (SD).** Decachlorobiphenyl (% @ 30-150%), Decachlorobiphenyl [2C] (% @ 30-150%), Tetrachloro-m-xylene (% @ 30-150%), Tetrachloro-m-xylene [2C] (% @ 30-150%)
1308109-12	**Percent difference between primary and confirmation results exceeds 40% (P).** Aroclor 1260
1308109-13	**Surrogate recovery(ies) diluted below the MRL (SD).** Decachlorobiphenyl (% @ 30-150%), Decachlorobiphenyl [2C] (% @ 30-150%), Tetrachloro-m-xylene (% @ 30-150%), Tetrachloro-m-xylene [2C] (% @ 30-150%)
1308109-15	**Surrogate recovery(ies) above upper control limit (S+).** Decachlorobiphenyl (152% @ 30-150%)
1308109-16	**Surrogate recovery(ies) diluted below the MRL (SD).** Decachlorobiphenyl (% @ 30-150%), Decachlorobiphenyl [2C] (% @ 30-150%), Tetrachloro-m-xylene (% @ 30-150%), Tetrachloro-m-xylene [2C] (% @ 30-150%)
1308109-17	**Surrogate recovery(ies) diluted below the MRL (SD).** Decachlorobiphenyl (% @ 30-150%), Decachlorobiphenyl [2C] (% @ 30-150%), Tetrachloro-m-xylene (% @ 30-150%), Tetrachloro-m-xylene [2C] (% @ 30-150%)

8270D Semi-Volatile Organic Compounds

1308109-10	**Elevated Method Reporting Limits due to sample matrix (EL).**
1308109-13	**Elevated Method Reporting Limits due to sample matrix (EL).**
1308109-13	**Surrogate recovery(ies) diluted below the MRL (SD).** 1,2-Dichlorobenzene-d4 (% @ 30-130%), 2,4,6-Tribromophenol (% @ 30-130%), 2-Chlorophenol-d4 (% @ 30-130%), 2-Fluorobiphenyl (% @ 30-130%), 2-Fluorophenol (% @ 30-130%), Nitrobenzene-d5 (% @ 30-130%), Phenol-d6 (% @ 30-130%), p-Terphenyl-d14 (% @ 30-130%)
1308109-14	**Elevated Method Reporting Limits due to sample matrix (EL).**
1308109-16	**Elevated Method Reporting Limits due to sample matrix (EL).**
1308109-16	**Internal Standard(s) outside of criteria due to matrix (UCM/coelution is present) (IM).** Perylene-d12 (22% @ 50-200%)
1308109-17	**Elevated Method Reporting Limits due to sample matrix (EL).**
1308109-17	**Internal Standard(s) outside of criteria due to matrix (UCM/coelution is present) (IM).** Perylene-d12 (24% @ 50-200%)
CWH0124-CCV1	**Calibration required quadratic regression (Q).** 2,4-Dinitrophenol (109% @ 80-120%), Benzoic Acid (106% @ 70-130%)
CWH0124-CCV1	**Continuing Calibration recovery is above upper control limit (C+).** 3+4-Methylphenol (121% @ 80-120%), 4-Chloroaniline (126% @ 80-120%)
CWH0124-CCV1	**Continuing Calibration recovery is below lower control limit (C-).**

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett ESS Laboratory Work Order: 1308109

Acenaphthene (77% @ 80-120%)

CWH0124-CCV1 **Initial Calibration Verification recovery is below lower control limit (ICV-).**
2,4-Dinitrophenol

CWH0124-CCV1 **Initial Calibration Verification recovery is outside of control limit (ICV).**
1,1-Biphenyl

CWH0140-CCV1 **Calibration required quadratic regression (Q).**
2,4-Dinitrophenol (110% @ 80-120%), 4,6-Dinitro-2-Methylphenol (108% @ 70-130%), Benzoic Acid (66% @ 70-130%), Pentachlorophenol (73% @ 80-120%)

CWH0140-CCV1 **Continuing Calibration recovery is below lower control limit (C-).**
Benzoic Acid (66% @ 70-130%), N-Nitrosodimethylamine (71% @ 80-120%), Pentachlorophenol (73% @ 80-120%)

CWH0140-CCV1 **Initial Calibration Verification recovery is outside of control limit (ICV).**
Benzidine , Hexachlorocyclopentadiene

CWH0140-TUN1 **Pentachlorophenol tailing factor > 2.**

CWH0143-CCV1 **Calibration required quadratic regression (Q).**
2,4-Dinitrophenol (106% @ 80-120%), Benzoic Acid (135% @ 70-130%)

CWH0143-CCV1 **Continuing Calibration recovery is above upper control limit (C+).**
2,4,6-Tribromophenol (127% @ 80-120%), 2-Fluorophenol (127% @ 80-120%), 4-Bromophenyl-phenylether (128% @ 80-120%), Aniline (130% @ 80-120%), Benzoic Acid (135% @ 70-130%)

CWH0143-CCV1 **Initial Calibration Verification recovery is outside of control limit (ICV).**
1,1-Biphenyl , 2,4-Dinitrophenol

CWH0147-CCV1 **Calibration required quadratic regression (Q).**
2,4-Dinitrophenol (78% @ 80-120%), 4,6-Dinitro-2-Methylphenol (93% @ 70-130%), Benzoic Acid (34% @ 70-130%), Pentachlorophenol (76% @ 80-120%)

CWH0147-CCV1 **Continuing Calibration recovery is below lower control limit (C-).**
2,4-Dinitrophenol (78% @ 80-120%), Benzoic Acid (34% @ 70-130%), Hexachlorocyclopentadiene (59% @ 70-130%), N-Nitrosodimethylamine (56% @ 80-120%), Pentachlorophenol (76% @ 80-120%)

CWH0147-CCV1 **Initial Calibration Verification recovery is outside of control limit (ICV).**
Benzidine , Hexachlorocyclopentadiene

CWH0147-TUN1 **Pentachlorophenol tailing factor > 2.**

8270D(SIM) Polynuclear Aromatic Hydrocarbons

1308109-10 **Elevated Method Reporting Limits due to sample matrix (EL).**

1308109-10 **Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).**
Nitrobenzene-d5 (370% @ 30-130%), p-Terphenyl-d14 (148% @ 30-130%)

1308109-17 **Internal Standard(s) outside of criteria due to matrix (UCM/coelution is present) (IM).**
Perylene-d12 (41% @ 50-200%)

MADEP-EPH Extractable Petroleum Hydrocarbons

1308109-09 **Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).**
O-Terphenyl (401% @ 40-140%)

1308109-10 **Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).**
O-Terphenyl (227% @ 40-140%)

1308109-13 **Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).**
O-Terphenyl (243% @ 40-140%)

1308109-15 **Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).**

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett ESS Laboratory Work Order: 1308109

O-Terphenyl (162% @ 40-140%)

1308109-16 **Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).**
O-Terphenyl (246% @ 40-140%)

1308109-17 **Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).**
O-Terphenyl (173% @ 40-140%)

CWH0135-CCV4 **Continuing Calibration recovery is above upper control limit (C+).**
Benzo(a)pyrene (121% @ 80-120%)

CWH0145-CCV2 **Continuing Calibration recovery is below lower control limit (C-).**
Benzo(g,h,i)perylene (54% @ 80-120%), Dibenzo(a,h)Anthracene (77% @ 80-120%), Indeno(1,2,3-cd)Pyrene (69% @ 80-120%)

Total Metals Solid

CH30856-BSD1 **Blank Spike recovery is above upper control limit (B+).**
Antimony (178% @ 80-120%), Selenium (157% @ 80-120%), Thallium (177% @ 80-120%)

CH30856-BSD1 **Relative percent difference for duplicate is outside of criteria (D+).**
Antimony (56%), Selenium (39%), Thallium (50%)

No other observations noted.

End of Project Narrative.

DATA USABILITY LINKS

Definitions of Quality Control Parameters

Semivolatile Organics Internal Standard Information

Semivolatile Organics Surrogate Information

Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308109

CURRENT SW-846 METHODOLOGY VERSIONS

Analytical Methods

1010A - Flashpoint
6010C - ICP
6020A - ICP MS
7010 - Graphite Furnace
7196A - Hexavalent Chromium
7470A - Aqueous Mercury
7471B - Solid Mercury
8011 - EDB/DBCP/TCP
8015C - GRO/DRO
8081B - Pesticides
8082A - PCB
8100M - TPH
8151A - Herbicides
8260B - VOA
8270D - SVOA
8270D SIM - SVOA Low Level
9014 - Cyanide
9038 - Sulfate
9040C - Aqueous pH
9045D - Solid pH (Corrosivity)
9050A - Specific Conductance
9056A - Anions (IC)
9060A - TOC
9095B - Paint Filter
MADEP 04-1.1 - EPH / VPH

Prep Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5035 - Solid Purge and Trap

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308109

MassDEP Analytical Protocol Certification Form

MADEP RTN: _____

This form provides certification for the following data set: **1308109-01 through 1308109-20**

Matrices: ( ) Ground Water/Surface Water (X) Soil/Sediment ( ) Drinking Water ( ) Air ( ) Other:_____

CAM Protocol (check all that apply below):

( ) 8260 VOC CAM II A	(X) 7470/7471 Hg CAM III B	( ) MassDEP VPH CAM IV A	( ) 8081 Pesticides CAM V B	( ) 7196 Hex Cr CAM VI B	( ) MassDEP APH CAM IX A
(X) 8270 SVOC CAM II B	( ) 7010 Metals CAM III C	(X) MassDEP EPH CAM IV B	( ) 8151 Herbicides CAM V C	( ) 8330 Explosives CAM VIII A	( ) TO-15 VOC CAM IX B
(X) 6010 Metals CAM III A	(X) 6020 Metals CAM III D	(X) 8082 PCB CAM V A	( ) 6860 Perchlorate CAM VIII B	( ) 9014 Total Cyanide/PAC CAM VI A	

Affirmative responses to questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	Yes (X) No ( )
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	Yes (X) No ( )
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	Yes (X) No ( )
D	Does the laboratory report comply with all the reporting requirements specified in the CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	Yes (X) No ( )
E	a. VPH, EPH, APH and TO-15 only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	Yes (X) No ( )
	b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	Yes ( ) No ( )
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	Yes (X) No ( )

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocols(s)?	Yes (X) No ( )*
	***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**	
H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	Yes ( ) No (X)*
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	Yes ( ) No (X)*

****All negative responses must be addressed in an attached laboratory narrative.***

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: Laurel Stoddard

Date: August 20, 2013

Printed Name: Laurel Stoddard

Position: Laboratory Director

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-139 0-0.5ft
Date Sampled: 08/05/13 08:20
Percent Solids: 91

ESS Laboratory Work Order: 1308109
ESS Laboratory Sample ID: 1308109-01
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (1.0)		6020A		50	SVD	08/12/13 15:55	5.41	100	CH30856
Arsenic	**11.0** (1.0)		6010B		1	JP	08/10/13 0:24	5.41	100	CH30856
Barium	**29.9** (1.0)		6010B		1	JP	08/10/13 0:24	5.41	100	CH30856
Beryllium	**0.32** (0.04)		6010B		1	JP	08/10/13 0:24	5.41	100	CH30856
Cadmium	**0.96** (0.20)		6010B		1	JP	08/10/13 0:24	5.41	100	CH30856
Chromium	**32.7** (0.4)		6010B		1	JP	08/10/13 0:24	5.41	100	CH30856
Lead	**78.3** (2.0)		6010B		1	JP	08/10/13 0:24	5.41	100	CH30856
Mercury	**0.472** (0.088)		7471B		5	JP	08/12/13 19:15	1.24	40	CH30931
Nickel	**10.5** (1.0)		6010B		1	JP	08/10/13 0:24	5.41	100	CH30856
Selenium	ND (1.02)		6020A		50	SVD	08/12/13 15:55	5.41	100	CH30856
Silver	**0.93** (0.20)		6010B		1	JP	08/10/13 0:24	5.41	100	CH30856
Thallium	ND (1.02)		6020A		50	SVD	08/12/13 15:55	5.41	100	CH30856
Vanadium	**34.3** (0.4)		6010B		1	JP	08/10/13 0:24	5.41	100	CH30856
Zinc	**134** (1.0)		6010B		1	JP	08/10/13 0:24	5.41	100	CH30856

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-139 0-0.5ft
Date Sampled: 08/05/13 08:20
Percent Solids: 91

ESS Laboratory Work Order: 1308109
ESS Laboratory Sample ID: 1308109-01
Sample Matrix: Soil

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**43000** (2010)		TOC-LK		1	SUB	08/14/13 15:35	mg/kg	CH32011

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-139 2-4ft
Date Sampled: 08/05/13 08:20
Percent Solids: 49

ESS Laboratory Work Order: 1308109
ESS Laboratory Sample ID: 1308109-02
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (1.9)		6020A		50	SVD	08/12/13 16:01	5.48	100	CH30856
Arsenic	**2.0** (1.9)		6010B		1	JP	08/10/13 0:38	5.48	100	CH30856
Barium	**12.6** (1.9)		6010B		1	JP	08/10/13 0:38	5.48	100	CH30856
Beryllium	**0.31** (0.08)		6010B		1	JP	08/10/13 0:38	5.48	100	CH30856
Cadmium	ND (0.37)		6010B		1	JP	08/10/13 0:38	5.48	100	CH30856
Chromium	**13.8** (0.7)		6010B		1	JP	08/10/13 0:38	5.48	100	CH30856
Lead	ND (3.7)		6010B		1	JP	08/10/13 0:38	5.48	100	CH30856
Mercury	ND (0.036)		7471B		1	JP	08/12/13 19:17	1.13	40	CH30931
Nickel	**8.4** (1.9)		6010B		1	JP	08/10/13 0:38	5.48	100	CH30856
Selenium	ND (1.87)		6020A		50	SVD	08/12/13 16:01	5.48	100	CH30856
Silver	ND (0.37)		6010B		1	JP	08/10/13 0:38	5.48	100	CH30856
Thallium	ND (1.87)		6020A		50	SVD	08/12/13 16:01	5.48	100	CH30856
Vanadium	**18.0** (0.7)		6010B		1	JP	08/10/13 0:38	5.48	100	CH30856
Zinc	**27.5** (1.9)		6010B		1	JP	08/10/13 0:38	5.48	100	CH30856

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-139 6-8ft
Date Sampled: 08/05/13 08:20
Percent Solids: 70

ESS Laboratory Work Order: 1308109
ESS Laboratory Sample ID: 1308109-03
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (1.4)		6020A		50	SVD	08/12/13 16:07	5.26	100	CH30856
Arsenic	ND (1.4)		6010B		1	JP	08/10/13 0:44	5.26	100	CH30856
Barium	**10.4** (1.4)		6010B		1	JP	08/10/13 0:44	5.26	100	CH30856
Beryllium	**0.26** (0.06)		6010B		1	JP	08/10/13 0:44	5.26	100	CH30856
Cadmium	**0.28** (0.27)		6010B		1	JP	08/10/13 0:44	5.26	100	CH30856
Chromium	**11.3** (0.5)		6010B		1	JP	08/10/13 0:44	5.26	100	CH30856
Lead	ND (2.7)		6010B		1	JP	08/10/13 0:44	5.26	100	CH30856
Mercury	ND (0.026)		7471B		1	JP	08/12/13 19:20	1.08	40	CH30931
Nickel	**7.1** (1.4)		6010B		1	JP	08/10/13 0:44	5.26	100	CH30856
Selenium	ND (1.37)		6020A		50	SVD	08/12/13 16:07	5.26	100	CH30856
Silver	ND (0.27)		6010B		1	JP	08/10/13 0:44	5.26	100	CH30856
Thallium	ND (1.37)		6020A		50	SVD	08/12/13 16:07	5.26	100	CH30856
Vanadium	**14.8** (0.5)		6010B		1	JP	08/10/13 0:44	5.26	100	CH30856
Zinc	**19.4** (1.4)		6010B		1	JP	08/10/13 0:44	5.26	100	CH30856

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-139 6-8ft
Date Sampled: 08/05/13 08:20
Percent Solids: 70

ESS Laboratory Work Order: 1308109
ESS Laboratory Sample ID: 1308109-03
Sample Matrix: Soil

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**10100** (1330)		TOC-LK		1	SUB	08/14/13 15:42	mg/kg	CH32011

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-140A 0-0.5ft
Date Sampled: 08/05/13 08:45
Percent Solids: 73

ESS Laboratory Work Order: 1308109
ESS Laboratory Sample ID: 1308109-04
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (1.3)		6020A		50	SVD	08/12/13 16:13	5.24	100	CH30856
Arsenic	**11.3** (1.3)		6010B		1	JP	08/10/13 0:49	5.24	100	CH30856
Barium	**30.9** (1.3)		6010B		1	JP	08/10/13 0:49	5.24	100	CH30856
Beryllium	**0.37** (0.05)		6010B		1	JP	08/10/13 0:49	5.24	100	CH30856
Cadmium	**1.25** (0.26)		6010B		1	JP	08/10/13 0:49	5.24	100	CH30856
Chromium	**39.7** (0.5)		6010B		1	JP	08/10/13 0:49	5.24	100	CH30856
Lead	**99.7** (2.6)		6010B		1	JP	08/10/13 0:49	5.24	100	CH30856
Mercury	**0.845** (0.116)		7471B		5	JP	08/12/13 19:23	1.17	40	CH30931
Nickel	**12.0** (1.3)		6010B		1	JP	08/10/13 0:49	5.24	100	CH30856
Selenium	**1.41** (1.31)		6020A		50	SVD	08/12/13 16:13	5.24	100	CH30856
Silver	**1.07** (0.26)		6010B		1	JP	08/10/13 0:49	5.24	100	CH30856
Thallium	ND (1.31)		6020A		50	SVD	08/12/13 16:13	5.24	100	CH30856
Vanadium	**36.4** (0.5)		6010B		1	JP	08/10/13 0:49	5.24	100	CH30856
Zinc	**178** (1.3)		6010B		1	JP	08/10/13 0:49	5.24	100	CH30856

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-140A 0.5-2ft
Date Sampled: 08/05/13 08:45
Percent Solids: 39

ESS Laboratory Work Order: 1308109
ESS Laboratory Sample ID: 1308109-05
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (2.6)		6020A		50	SVD	08/12/13 16:19	5	100	CH30856
Arsenic	**28.1** (2.6)		6010B		1	JP	08/10/13 0:55	5	100	CH30856
Barium	**64.9** (2.6)		6010B		1	JP	08/10/13 0:55	5	100	CH30856
Beryllium	**0.73** (0.11)		6010B		1	JP	08/10/13 0:55	5	100	CH30856
Cadmium	**3.38** (0.52)		6010B		1	JP	08/10/13 0:55	5	100	CH30856
Chromium	**86.6** (1.0)		6010B		1	JP	08/10/13 0:55	5	100	CH30856
Lead	**198** (5.1)		6010B		1	JP	08/10/13 0:55	5	100	CH30856
Mercury	**1.10** (0.221)		7471B		5	JP	08/12/13 19:25	1.15	40	CH30931
Nickel	**29.9** (2.6)		6010B		1	JP	08/10/13 0:55	5	100	CH30856
Selenium	ND (2.58)		6020A		50	SVD	08/12/13 16:19	5	100	CH30856
Silver	**2.83** (0.52)		6010B		1	JP	08/10/13 0:55	5	100	CH30856
Thallium	ND (2.58)		6020A		50	SVD	08/12/13 16:19	5	100	CH30856
Vanadium	**131** (1.0)		6010B		1	JP	08/10/13 0:55	5	100	CH30856
Zinc	**377** (2.6)		6010B		1	JP	08/10/13 0:55	5	100	CH30856

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-140A 2-3ft
Date Sampled: 08/05/13 08:45
Percent Solids: 51

ESS Laboratory Work Order: 1308109
ESS Laboratory Sample ID: 1308109-06
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (1.9)		6020A		50	SVD	08/12/13 16:25	5.11	100	CH30856
Arsenic	**15.9** (1.9)		6010B		1	JP	08/10/13 1:01	5.11	100	CH30856
Barium	**38.9** (1.9)		6010B		1	JP	08/10/13 1:01	5.11	100	CH30856
Beryllium	**0.43** (0.08)		6010B		1	JP	08/10/13 1:01	5.11	100	CH30856
Cadmium	**0.97** (0.39)		6010B		1	JP	08/10/13 1:01	5.11	100	CH30856
Chromium	**37.1** (0.8)		6010B		1	JP	08/10/13 1:01	5.11	100	CH30856
Lead	**90.6** (3.8)		6010B		1	JP	08/10/13 1:01	5.11	100	CH30856
Mercury	**0.842** (0.159)		7471B		5	JP	08/12/13 19:28	1.22	40	CH30931
Nickel	**11.5** (1.9)		6010B		1	JP	08/10/13 1:01	5.11	100	CH30856
Selenium	**2.92** (1.93)		6020A		50	SVD	08/12/13 16:25	5.11	100	CH30856
Silver	**0.84** (0.39)		6010B		1	JP	08/10/13 1:01	5.11	100	CH30856
Thallium	ND (1.93)		6020A		50	SVD	08/12/13 16:25	5.11	100	CH30856
Vanadium	**26.3** (0.8)		6010B		1	JP	08/10/13 1:01	5.11	100	CH30856
Zinc	**141** (1.9)		6010B		1	JP	08/10/13 1:01	5.11	100	CH30856

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-140A 2-3ft
Date Sampled: 08/05/13 08:45
Percent Solids: 51
Initial Volume: 20.2
Final Volume: 5
Extraction Method: 3540

ESS Laboratory Work Order: 1308109
ESS Laboratory Sample ID: 1308109-06
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 8/9/13 16:45
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0486)		8082A		1	08/13/13 17:45		CH30839
Aroclor 1221	ND (0.0486)		8082A		1	08/13/13 17:45		CH30839
Aroclor 1232	ND (0.0486)		8082A		1	08/13/13 17:45		CH30839
Aroclor 1242	ND (0.0486)		8082A		1	08/13/13 17:45		CH30839
Aroclor 1248	ND (0.0486)		8082A		1	08/13/13 17:45		CH30839
Aroclor 1254	ND (0.0486)		8082A		1	08/13/13 17:45		CH30839
Aroclor 1260	ND (0.0486)		8082A		1	08/13/13 17:45		CH30839
Aroclor 1262	ND (0.0486)		8082A		1	08/13/13 17:45		CH30839
Aroclor 1268	ND (0.0486)		8082A		1	08/13/13 17:45		CH30839

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*120 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*99 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*78 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*72 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-140A 2-3ft
Date Sampled: 08/05/13 08:45
Percent Solids: 51
Initial Volume: 15.6
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308109
ESS Laboratory Sample ID: 1308109-06
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 8/9/13 19:05

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.629)		8270D		1	08/11/13 14:08	CWH0140	CH30921
1,2-Dichlorobenzene	ND (0.629)		8270D		1	08/11/13 14:08	CWH0140	CH30921
1,3-Dichlorobenzene	ND (0.629)		8270D		1	08/11/13 14:08	CWH0140	CH30921
1,4-Dichlorobenzene	ND (0.629)		8270D		1	08/11/13 14:08	CWH0140	CH30921
2-Methylnaphthalene	ND (0.629)		8270D		1	08/11/13 14:08	CWH0140	CH30921
2-Methylphenol	ND (0.629)		8270D		1	08/11/13 14:08	CWH0140	CH30921
Acenaphthene	ND (0.629)		8270D		1	08/11/13 14:08	CWH0140	CH30921
Acenaphthylene	ND (0.629)		8270D		1	08/11/13 14:08	CWH0140	CH30921
Anthracene	ND (0.629)		8270D		1	08/11/13 14:08	CWH0140	CH30921
Benzo(a)anthracene	**1.52** (0.629)		8270D		1	08/11/13 14:08	CWH0140	CH30921
Benzo(a)pyrene	**1.56** (0.316)		8270D		1	08/11/13 14:08	CWH0140	CH30921
Benzo(b)fluoranthene	**1.63** (0.629)		8270D		1	08/11/13 14:08	CWH0140	CH30921
Benzo(g,h,i)perylene	**0.717** (0.629)		8270D		1	08/11/13 14:08	CWH0140	CH30921
Benzo(k)fluoranthene	**0.824** (0.629)		8270D		1	08/11/13 14:08	CWH0140	CH30921
bis(2-Ethylhexyl)phthalate	**2.75** (0.629)		8270D		1	08/11/13 14:08	CWH0140	CH30921
Butylbenzylphthalate	ND (0.629)		8270D		1	08/11/13 14:08	CWH0140	CH30921
Carbazole	ND (0.629)		8270D		1	08/11/13 14:08	CWH0140	CH30921
Chrysene	**1.59** (0.316)		8270D		1	08/11/13 14:08	CWH0140	CH30921
Dibenzo(a,h)Anthracene	**0.332** (0.316)		8270D		1	08/11/13 14:08	CWH0140	CH30921
Dibenzofuran	ND (0.629)		8270D		1	08/11/13 14:08	CWH0140	CH30921
Diethylphthalate	ND (0.629)		8270D		1	08/11/13 14:08	CWH0140	CH30921
Dimethylphthalate	ND (0.629)		8270D		1	08/11/13 14:08	CWH0140	CH30921
Di-n-butylphthalate	ND (0.629)		8270D		1	08/11/13 14:08	CWH0140	CH30921
Di-n-octylphthalate	ND (0.629)		8270D		1	08/11/13 14:08	CWH0140	CH30921
Fluoranthene	**2.45** (0.629)		8270D		1	08/11/13 14:08	CWH0140	CH30921
Fluorene	ND (0.629)		8270D		1	08/11/13 14:08	CWH0140	CH30921
Hexachlorobenzene	ND (0.629)		8270D		1	08/11/13 14:08	CWH0140	CH30921
Hexachlorocyclopentadiene	ND (3.16)		8270D		1	08/11/13 14:08	CWH0140	CH30921
Indeno(1,2,3-cd)Pyrene	ND (0.629)		8270D		1	08/11/13 14:08	CWH0140	CH30921
Naphthalene	ND (0.629)		8270D		1	08/11/13 14:08	CWH0140	CH30921
Phenanthrene	ND (0.629)		8270D		1	08/11/13 14:08	CWH0140	CH30921

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-140A 2-3ft
Date Sampled: 08/05/13 08:45
Percent Solids: 51
Initial Volume: 15.6
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308109
ESS Laboratory Sample ID: 1308109-06
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 8/9/13 19:05

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Phenol	ND (0.629)		8270D		1	08/11/13 14:08	CWH0140	CH30921
Pyrene	**4.05** (0.629)		8270D		1	08/11/13 14:08	CWH0140	CH30921

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*59 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*57 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*63 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*62 %*		*30-130*
Surrogate: 2-Fluorophenol	*58 %*		*30-130*
Surrogate: Nitrobenzene-d5	*62 %*		*30-130*
Surrogate: Phenol-d6	*65 %*		*30-130*
Surrogate: p-Terphenyl-d14	*80 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-140A 2-3ft
Date Sampled: 08/05/13 08:45
Percent Solids: 51
Initial Volume: 15.5
Final Volume: 0.5
Extraction Method: 3541

ESS Laboratory Work Order: 1308109
ESS Laboratory Sample ID: 1308109-06
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 8/9/13 10:30

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	ND (0.079)		8270D		5	08/13/13 7:02	CWH0159	CH30903
Acenaphthene	ND (0.079)		8270D		5	08/13/13 7:02	CWH0159	CH30903
Acenaphthylene	**0.463** (0.079)		8270D		5	08/13/13 7:02	CWH0159	CH30903
Anthracene	**0.513** (0.079)		8270D		5	08/13/13 7:02	CWH0159	CH30903
Benzo(a)anthracene	**0.973** (0.079)		8270D		5	08/13/13 7:02	CWH0159	CH30903
Benzo(a)pyrene	**1.06** (0.079)		8270D		5	08/13/13 7:02	CWH0159	CH30903
Benzo(b)fluoranthene	**1.24** (0.079)		8270D		5	08/13/13 7:02	CWH0159	CH30903
Benzo(g,h,i)perylene	**0.558** (0.079)		8270D		5	08/13/13 7:02	CWH0159	CH30903
Benzo(k)fluoranthene	**0.412** (0.079)		8270D		5	08/13/13 7:02	CWH0159	CH30903
Chrysene	**1.12** (0.079)		8270D		5	08/13/13 7:02	CWH0159	CH30903
Dibenzo(a,h)Anthracene	**0.190** (0.079)		8270D		5	08/13/13 7:02	CWH0159	CH30903
Fluoranthene	**1.13** (0.079)		8270D		5	08/13/13 7:02	CWH0159	CH30903
Fluorene	**0.082** (0.079)		8270D		5	08/13/13 7:02	CWH0159	CH30903
Indeno(1,2,3-cd)Pyrene	**0.634** (0.079)		8270D		5	08/13/13 7:02	CWH0159	CH30903
Naphthalene	**0.285** (0.079)		8270D		5	08/13/13 7:02	CWH0159	CH30903
Phenanthrene	**0.295** (0.079)		8270D		5	08/13/13 7:02	CWH0159	CH30903
Pyrene	**1.76** (0.079)		8270D		5	08/13/13 7:02	CWH0159	CH30903

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*50 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*62 %*		*30-130*
Surrogate: Nitrobenzene-d5	*60 %*		*30-130*
Surrogate: p-Terphenyl-d14	*94 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-140A 2-3ft
Date Sampled: 08/05/13 08:45
Percent Solids: 51

ESS Laboratory Work Order: 1308109
ESS Laboratory Sample ID: 1308109-06
Sample Matrix: Soil

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**16800** (1260)		TOC-LK		1	SUB	08/14/13 16:47	mg/kg	CH32011

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-140A 2-3ft
Date Sampled: 08/05/13 08:45
Percent Solids: 51
Initial Volume: 15.6
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1308109
ESS Laboratory Sample ID: 1308109-06
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 8/9/13 15:00

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	**54.6** (47.2)		MADEP-EPH		1	SEP	08/11/13 6:49	CWH0134	CH30919
C19-C36 Aliphatics1	**151** (47.2)		MADEP-EPH		1	SEP	08/11/13 6:49	CWH0134	CH30919
C11-C22 Unadjusted Aromatics1	**181** (47.2)		EPH8270		1	VSC	08/12/13 18:45	CWH0145	CH30919
C11-C22 Aromatics1,2	**173** (47.2)		EPH8270			VSC	08/12/13 18:45		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*98 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*105 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*100 %*		*40-140*
Surrogate: O-Terphenyl	*83 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC1 T 0-0.5ft
Date Sampled: 08/06/13 11:20
Percent Solids: 75

ESS Laboratory Work Order: 1308109
ESS Laboratory Sample ID: 1308109-07
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	**1.4** (1.2)		6020A		50	SVD	08/12/13 16:43	5.38	100	CH30856
Arsenic	**43.0** (6.2)		6010B		5	JP	08/10/13 18:21	5.38	100	CH30856
Barium	**49.7** (6.2)		6010B		5	JP	08/10/13 18:21	5.38	100	CH30856
Beryllium	**0.40** (0.26)		6010B		5	JP	08/10/13 18:21	5.38	100	CH30856
Cadmium	ND (1.24)		6010B		5	JP	08/10/13 18:21	5.38	100	CH30856
Chromium	**42.3** (2.5)		6010B		5	JP	08/10/13 18:21	5.38	100	CH30856
Lead	**148** (12.3)		6010B		5	JP	08/10/13 18:21	5.38	100	CH30856
Mercury	**0.634** (0.094)		7471B		5	JP	08/12/13 19:31	1.4	40	CH30931
Nickel	**13.7** (6.2)		6010B		5	JP	08/10/13 18:21	5.38	100	CH30856
Selenium	**1.32** (1.24)		6020A		50	SVD	08/12/13 16:43	5.38	100	CH30856
Silver	**2.16** (1.24)		6010B		5	JP	08/10/13 18:21	5.38	100	CH30856
Thallium	ND (1.24)		6020A		50	SVD	08/12/13 16:43	5.38	100	CH30856
Vanadium	**39.6** (2.5)		6010B		5	JP	08/10/13 18:21	5.38	100	CH30856
Zinc	**319** (6.2)		6010B		5	JP	08/10/13 18:21	5.38	100	CH30856

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC1 T 0-0.5ft
Date Sampled: 08/06/13 11:20
Percent Solids: 75
Initial Volume: 19.5
Final Volume: 5
Extraction Method: 3540

ESS Laboratory Work Order: 1308109
ESS Laboratory Sample ID: 1308109-07
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 8/9/13 16:45
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0340)		8082A		1	08/14/13 11:53		CH30839
Aroclor 1221	ND (0.0340)		8082A		1	08/14/13 11:53		CH30839
Aroclor 1232	ND (0.0340)		8082A		1	08/14/13 11:53		CH30839
Aroclor 1242	ND (0.0340)		8082A		1	08/14/13 11:53		CH30839
Aroclor 1248	**0.166** (0.0340)		8082A		1	08/14/13 11:53		CH30839
Aroclor 1254	**0.213** (0.0340)		8082A		1	08/14/13 11:53		CH30839
Aroclor 1260	**P 0.0667** (0.0340)		8082A		1	08/14/13 11:53		CH30839
Aroclor 1262	ND (0.0340)		8082A		1	08/14/13 11:53		CH30839
Aroclor 1268	ND (0.0340)		8082A		1	08/14/13 11:53		CH30839

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*107 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*92 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*89 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*79 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC1 T 0-0.5ft
Date Sampled: 08/06/13 11:20
Percent Solids: 75
Initial Volume: 15.1
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308109
ESS Laboratory Sample ID: 1308109-07
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 8/9/13 19:05

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.439)		8270D		1	08/11/13 14:41	CWH0140	CH30921
1,2-Dichlorobenzene	ND (0.439)		8270D		1	08/11/13 14:41	CWH0140	CH30921
1,3-Dichlorobenzene	ND (0.439)		8270D		1	08/11/13 14:41	CWH0140	CH30921
1,4-Dichlorobenzene	ND (0.439)		8270D		1	08/11/13 14:41	CWH0140	CH30921
2-Methylnaphthalene	ND (0.439)		8270D		1	08/11/13 14:41	CWH0140	CH30921
2-Methylphenol	ND (0.439)		8270D		1	08/11/13 14:41	CWH0140	CH30921
Acenaphthene	ND (0.439)		8270D		1	08/11/13 14:41	CWH0140	CH30921
Acenaphthylene	ND (0.439)		8270D		1	08/11/13 14:41	CWH0140	CH30921
Anthracene	ND (0.439)		8270D		1	08/11/13 14:41	CWH0140	CH30921
Benzo(a)anthracene	**0.711** (0.439)		8270D		1	08/11/13 14:41	CWH0140	CH30921
Benzo(a)pyrene	**0.804** (0.220)		8270D		1	08/11/13 14:41	CWH0140	CH30921
Benzo(b)fluoranthene	**0.854** (0.439)		8270D		1	08/11/13 14:41	CWH0140	CH30921
Benzo(g,h,i)perylene	ND (0.439)		8270D		1	08/11/13 14:41	CWH0140	CH30921
Benzo(k)fluoranthene	**0.548** (0.439)		8270D		1	08/11/13 14:41	CWH0140	CH30921
bis(2-Ethylhexyl)phthalate	**7.98** (0.439)		8270D		1	08/11/13 14:41	CWH0140	CH30921
Butylbenzylphthalate	ND (0.439)		8270D		1	08/11/13 14:41	CWH0140	CH30921
Carbazole	ND (0.439)		8270D		1	08/11/13 14:41	CWH0140	CH30921
Chrysene	**0.728** (0.220)		8270D		1	08/11/13 14:41	CWH0140	CH30921
Dibenzo(a,h)Anthracene	ND (0.220)		8270D		1	08/11/13 14:41	CWH0140	CH30921
Dibenzofuran	ND (0.439)		8270D		1	08/11/13 14:41	CWH0140	CH30921
Diethylphthalate	ND (0.439)		8270D		1	08/11/13 14:41	CWH0140	CH30921
Dimethylphthalate	ND (0.439)		8270D		1	08/11/13 14:41	CWH0140	CH30921
Di-n-butylphthalate	ND (0.439)		8270D		1	08/11/13 14:41	CWH0140	CH30921
Di-n-octylphthalate	ND (0.439)		8270D		1	08/11/13 14:41	CWH0140	CH30921
Fluoranthene	**0.945** (0.439)		8270D		1	08/11/13 14:41	CWH0140	CH30921
Fluorene	ND (0.439)		8270D		1	08/11/13 14:41	CWH0140	CH30921
Hexachlorobenzene	ND (0.439)		8270D		1	08/11/13 14:41	CWH0140	CH30921
Hexachlorocyclopentadiene	ND (2.20)		8270D		1	08/11/13 14:41	CWH0140	CH30921
Indeno(1,2,3-cd)Pyrene	ND (0.439)		8270D		1	08/11/13 14:41	CWH0140	CH30921
Naphthalene	ND (0.439)		8270D		1	08/11/13 14:41	CWH0140	CH30921
Phenanthrene	ND (0.439)		8270D		1	08/11/13 14:41	CWH0140	CH30921

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC1 T 0-0.5ft
Date Sampled: 08/06/13 11:20
Percent Solids: 75
Initial Volume: 15.1
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308109
ESS Laboratory Sample ID: 1308109-07
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 8/9/13 19:05

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Phenol	ND (0.439)		8270D		1	08/11/13 14:41	CWH0140	CH30921
Pyrene	**1.53** (0.439)		8270D		1	08/11/13 14:41	CWH0140	CH30921

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*50 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*54 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*55 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*54 %*		*30-130*
Surrogate: 2-Fluorophenol	*50 %*		*30-130*
Surrogate: Nitrobenzene-d5	*53 %*		*30-130*
Surrogate: Phenol-d6	*55 %*		*30-130*
Surrogate: p-Terphenyl-d14	*71 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC1 T 0-0.5ft
Date Sampled: 08/06/13 11:20
Percent Solids: 75
Initial Volume: 15
Final Volume: 0.5
Extraction Method: 3541

ESS Laboratory Work Order: 1308109
ESS Laboratory Sample ID: 1308109-07
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 8/9/13 10:30

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	**0.064** (0.055)		8270D		5	08/11/13 20:28	CWH0139	CH30903
Acenaphthene	ND (0.055)		8270D		5	08/11/13 20:28	CWH0139	CH30903
Acenaphthylene	**0.192** (0.055)		8270D		5	08/11/13 20:28	CWH0139	CH30903
Anthracene	**0.190** (0.055)		8270D		5	08/11/13 20:28	CWH0139	CH30903
Benzo(a)anthracene	**0.462** (0.055)		8270D		5	08/11/13 20:28	CWH0139	CH30903
Benzo(a)pyrene	**0.597** (0.055)		8270D		5	08/11/13 20:28	CWH0139	CH30903
Benzo(b)fluoranthene	**0.746** (0.055)		8270D		5	08/11/13 20:28	CWH0139	CH30903
Benzo(g,h,i)perylene	**0.350** (0.055)		8270D		5	08/11/13 20:28	CWH0139	CH30903
Benzo(k)fluoranthene	**0.208** (0.055)		8270D		5	08/11/13 20:28	CWH0139	CH30903
Chrysene	**0.533** (0.055)		8270D		5	08/11/13 20:28	CWH0139	CH30903
Dibenzo(a,h)Anthracene	**0.104** (0.055)		8270D		5	08/11/13 20:28	CWH0139	CH30903
Fluoranthene	**0.690** (0.055)		8270D		5	08/11/13 20:28	CWH0139	CH30903
Fluorene	**0.060** (0.055)		8270D		5	08/11/13 20:28	CWH0139	CH30903
Indeno(1,2,3-cd)Pyrene	**0.385** (0.055)		8270D		5	08/11/13 20:28	CWH0139	CH30903
Naphthalene	**0.124** (0.055)		8270D		5	08/11/13 20:28	CWH0139	CH30903
Phenanthrene	**0.352** (0.055)		8270D		5	08/11/13 20:28	CWH0139	CH30903
Pyrene	**0.916** (0.055)		8270D		5	08/11/13 20:28	CWH0139	CH30903

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*60 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*64 %*		*30-130*
Surrogate: Nitrobenzene-d5	*71 %*		*30-130*
Surrogate: p-Terphenyl-d14	*92 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC1 T 0-0.5ft
Date Sampled: 08/06/13 11:20
Percent Solids: 75

ESS Laboratory Work Order: 1308109
ESS Laboratory Sample ID: 1308109-07
Sample Matrix: Soil

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**71800** (1700)		TOC-LK		1	SUB	08/14/13 16:55	mg/kg	CH32011

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC1 T 0-0.5ft
Date Sampled: 08/06/13 11:20
Percent Solids: 75
Initial Volume: 15.1
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1308109
ESS Laboratory Sample ID: 1308109-07
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 8/9/13 15:00

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (33.0)		MADEP-EPH		1	SEP	08/11/13 7:39	CWH0134	CH30919
C19-C36 Aliphatics1	**194** (33.0)		MADEP-EPH		1	SEP	08/11/13 7:39	CWH0134	CH30919
C11-C22 Unadjusted Aromatics1	**152** (33.0)		EPH8270		1	VSC	08/12/13 19:32	CWH0145	CH30919
C11-C22 Aromatics1,2	**146** (33.0)		EPH8270			VSC	08/12/13 19:32		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*75 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*107 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*103 %*		*40-140*
Surrogate: O-Terphenyl	*87 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC1 2-4ft
Date Sampled: 08/05/13 13:30
Percent Solids: 58

ESS Laboratory Work Order: 1308109
ESS Laboratory Sample ID: 1308109-08
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (1.7)		6020A		50	SVD	08/12/13 16:49	5.12	100	CH30856
Arsenic	**3.4** (1.7)		6010B		1	JP	08/10/13 1:11	5.12	100	CH30856
Barium	**20.5** (1.7)		6010B		1	JP	08/10/13 1:11	5.12	100	CH30856
Beryllium	**0.48** (0.07)		6010B		1	JP	08/10/13 1:11	5.12	100	CH30856
Cadmium	**0.46** (0.34)		6010B		1	JP	08/10/13 1:11	5.12	100	CH30856
Chromium	**19.9** (0.7)		6010B		1	JP	08/10/13 1:11	5.12	100	CH30856
Lead	ND (3.4)		6010B		1	JP	08/10/13 1:11	5.12	100	CH30856
Mercury	ND (0.032)		7471B		1	JP	08/12/13 19:39	1.06	40	CH30931
Nickel	**11.2** (1.7)		6010B		1	JP	08/10/13 1:11	5.12	100	CH30856
Selenium	ND (1.69)		6020A		50	SVD	08/12/13 16:49	5.12	100	CH30856
Silver	ND (0.34)		6010B		1	JP	08/10/13 1:11	5.12	100	CH30856
Thallium	ND (1.69)		6020A		50	SVD	08/12/13 16:49	5.12	100	CH30856
Vanadium	**25.6** (0.7)		6010B		1	JP	08/10/13 1:11	5.12	100	CH30856
Zinc	**32.6** (1.7)		6010B		1	JP	08/10/13 1:11	5.12	100	CH30856

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC1 2-4ft
Date Sampled: 08/05/13 13:30
Percent Solids: 58
Initial Volume: 19.4
Final Volume: 5
Extraction Method: 3540

ESS Laboratory Work Order: 1308109
ESS Laboratory Sample ID: 1308109-08
Sample Matrix: Soil
Units: mg/kg dry
Analyst: ML
Prepared: 8/9/13 16:45
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0445)		8082A		1	08/12/13 12:48		CH30839
Aroclor 1221	ND (0.0445)		8082A		1	08/12/13 12:48		CH30839
Aroclor 1232	ND (0.0445)		8082A		1	08/12/13 12:48		CH30839
Aroclor 1242	ND (0.0445)		8082A		1	08/12/13 12:48		CH30839
Aroclor 1248	ND (0.0445)		8082A		1	08/12/13 12:48		CH30839
Aroclor 1254	ND (0.0445)		8082A		1	08/12/13 12:48		CH30839
Aroclor 1260	ND (0.0445)		8082A		1	08/12/13 12:48		CH30839
Aroclor 1262	ND (0.0445)		8082A		1	08/12/13 12:48		CH30839
Aroclor 1268	ND (0.0445)		8082A		1	08/12/13 12:48		CH30839

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*94 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*77 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*85 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*87 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC1 2-4ft
Date Sampled: 08/05/13 13:30
Percent Solids: 58
Initial Volume: 15.2
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308109
ESS Laboratory Sample ID: 1308109-08
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 8/9/13 19:05

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.567)		8270D		1	08/11/13 15:15	CWH0140	CH30921
1,2-Dichlorobenzene	ND (0.567)		8270D		1	08/11/13 15:15	CWH0140	CH30921
1,3-Dichlorobenzene	ND (0.567)		8270D		1	08/11/13 15:15	CWH0140	CH30921
1,4-Dichlorobenzene	ND (0.567)		8270D		1	08/11/13 15:15	CWH0140	CH30921
2-Methylnaphthalene	ND (0.567)		8270D		1	08/11/13 15:15	CWH0140	CH30921
2-Methylphenol	ND (0.567)		8270D		1	08/11/13 15:15	CWH0140	CH30921
Acenaphthene	ND (0.567)		8270D		1	08/11/13 15:15	CWH0140	CH30921
Acenaphthylene	ND (0.567)		8270D		1	08/11/13 15:15	CWH0140	CH30921
Anthracene	ND (0.567)		8270D		1	08/11/13 15:15	CWH0140	CH30921
Benzo(a)anthracene	ND (0.567)		8270D		1	08/11/13 15:15	CWH0140	CH30921
Benzo(a)pyrene	ND (0.284)		8270D		1	08/11/13 15:15	CWH0140	CH30921
Benzo(b)fluoranthene	ND (0.567)		8270D		1	08/11/13 15:15	CWH0140	CH30921
Benzo(g,h,i)perylene	ND (0.567)		8270D		1	08/11/13 15:15	CWH0140	CH30921
Benzo(k)fluoranthene	ND (0.567)		8270D		1	08/11/13 15:15	CWH0140	CH30921
bis(2-Ethylhexyl)phthalate	ND (0.567)		8270D		1	08/11/13 15:15	CWH0140	CH30921
Butylbenzylphthalate	ND (0.567)		8270D		1	08/11/13 15:15	CWH0140	CH30921
Carbazole	ND (0.567)		8270D		1	08/11/13 15:15	CWH0140	CH30921
Chrysene	ND (0.284)		8270D		1	08/11/13 15:15	CWH0140	CH30921
Dibenzo(a,h)Anthracene	ND (0.284)		8270D		1	08/11/13 15:15	CWH0140	CH30921
Dibenzofuran	ND (0.567)		8270D		1	08/11/13 15:15	CWH0140	CH30921
Diethylphthalate	ND (0.567)		8270D		1	08/11/13 15:15	CWH0140	CH30921
Dimethylphthalate	ND (0.567)		8270D		1	08/11/13 15:15	CWH0140	CH30921
Di-n-butylphthalate	ND (0.567)		8270D		1	08/11/13 15:15	CWH0140	CH30921
Di-n-octylphthalate	ND (0.567)		8270D		1	08/11/13 15:15	CWH0140	CH30921
Fluoranthene	ND (0.567)		8270D		1	08/11/13 15:15	CWH0140	CH30921
Fluorene	ND (0.567)		8270D		1	08/11/13 15:15	CWH0140	CH30921
Hexachlorobenzene	ND (0.567)		8270D		1	08/11/13 15:15	CWH0140	CH30921
Hexachlorocyclopentadiene	ND (2.84)		8270D		1	08/11/13 15:15	CWH0140	CH30921
Indeno(1,2,3-cd)Pyrene	ND (0.567)		8270D		1	08/11/13 15:15	CWH0140	CH30921
Naphthalene	ND (0.567)		8270D		1	08/11/13 15:15	CWH0140	CH30921
Phenanthrene	ND (0.567)		8270D		1	08/11/13 15:15	CWH0140	CH30921

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC1 2-4ft
Date Sampled: 08/05/13 13:30
Percent Solids: 58
Initial Volume: 15.2
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308109
ESS Laboratory Sample ID: 1308109-08
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 8/9/13 19:05

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Phenol	ND (0.567)		8270D		1	08/11/13 15:15	CWH0140	CH30921
Pyrene	ND (0.567)		8270D		1	08/11/13 15:15	CWH0140	CH30921

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*57 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*41 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*62 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*62 %*		*30-130*
Surrogate: 2-Fluorophenol	*57 %*		*30-130*
Surrogate: Nitrobenzene-d5	*62 %*		*30-130*
Surrogate: Phenol-d6	*63 %*		*30-130*
Surrogate: p-Terphenyl-d14	*81 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC1 2-4ft
Date Sampled: 08/05/13 13:30
Percent Solids: 58
Initial Volume: 14.7
Final Volume: 0.5
Extraction Method: 3541

ESS Laboratory Work Order: 1308109
ESS Laboratory Sample ID: 1308109-08
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 8/9/13 10:30

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	ND (0.015)		8270D		1	08/11/13 3:03	CWH0138	CH30903
Acenaphthene	ND (0.015)		8270D		1	08/11/13 3:03	CWH0138	CH30903
Acenaphthylene	ND (0.015)		8270D		1	08/11/13 3:03	CWH0138	CH30903
Anthracene	ND (0.015)		8270D		1	08/11/13 3:03	CWH0138	CH30903
Benzo(a)anthracene	ND (0.015)		8270D		1	08/11/13 3:03	CWH0138	CH30903
Benzo(a)pyrene	ND (0.015)		8270D		1	08/11/13 3:03	CWH0138	CH30903
Benzo(b)fluoranthene	ND (0.015)		8270D		1	08/11/13 3:03	CWH0138	CH30903
Benzo(g,h,i)perylene	ND (0.015)		8270D		1	08/11/13 3:03	CWH0138	CH30903
Benzo(k)fluoranthene	ND (0.015)		8270D		1	08/11/13 3:03	CWH0138	CH30903
Chrysene	ND (0.015)		8270D		1	08/11/13 3:03	CWH0138	CH30903
Dibenzo(a,h)Anthracene	ND (0.015)		8270D		1	08/11/13 3:03	CWH0138	CH30903
Fluoranthene	ND (0.015)		8270D		1	08/11/13 3:03	CWH0138	CH30903
Fluorene	ND (0.015)		8270D		1	08/11/13 3:03	CWH0138	CH30903
Indeno(1,2,3-cd)Pyrene	ND (0.015)		8270D		1	08/11/13 3:03	CWH0138	CH30903
Naphthalene	ND (0.015)		8270D		1	08/11/13 3:03	CWH0138	CH30903
Phenanthrene	ND (0.015)		8270D		1	08/11/13 3:03	CWH0138	CH30903
Pyrene	ND (0.015)		8270D		1	08/11/13 3:03	CWH0138	CH30903

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1,2-Dichlorobenzene-d4	*43 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*51 %*		*30-130*
Surrogate: Nitrobenzene-d5	*49 %*		*30-130*
Surrogate: p-Terphenyl-d14	*99 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC1 2-4ft
Date Sampled: 08/05/13 13:30
Percent Solids: 58
Initial Volume: 15.2
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1308109
ESS Laboratory Sample ID: 1308109-08
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 8/9/13 15:00

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (42.6)		MADEP-EPH		1	SEP	08/11/13 8:30	CWH0134	CH30919
C19-C36 Aliphatics1	ND (42.6)		MADEP-EPH		1	SEP	08/11/13 8:30	CWH0134	CH30919
C11-C22 Unadjusted Aromatics1	ND (42.6)		EPH8270		1	SEP	08/11/13 6:33	CWH0135	CH30919
C11-C22 Aromatics1,2	ND (42.6)		EPH8270			SEP	08/11/13 6:33		[CALC]

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1-Chlorooctadecane	*81 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*101 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*97 %*		*40-140*
Surrogate: O-Terphenyl	*77 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC2 T 0-0.5ft
Date Sampled: 08/06/13 11:26
Percent Solids: 26

ESS Laboratory Work Order: 1308109
ESS Laboratory Sample ID: 1308109-09
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (3.8)		6020A		50	SVD	08/12/13 16:55	5.07	100	CH30856
Arsenic	**7.1** (3.8)		6010B		1	JP	08/10/13 1:17	5.07	100	CH30856
Barium	**54.4** (3.8)		6010B		1	JP	08/10/13 1:17	5.07	100	CH30856
Beryllium	**0.43** (0.16)		6010B		1	JP	08/10/13 1:17	5.07	100	CH30856
Cadmium	**2.11** (0.77)		6010B		1	JP	08/10/13 1:17	5.07	100	CH30856
Chromium	**62.2** (1.5)		6010B		1	JP	08/10/13 1:17	5.07	100	CH30856
Lead	**217** (7.6)		6010B		1	JP	08/10/13 1:17	5.07	100	CH30856
Mercury	**0.895** (0.280)		7471B		5	JP	08/12/13 19:41	1.37	40	CH30931
Nickel	**19.3** (3.8)		6010B		1	JP	08/10/13 1:17	5.07	100	CH30856
Selenium	ND (3.84)		6020A		50	SVD	08/12/13 16:55	5.07	100	CH30856
Silver	**1.96** (0.77)		6010B		1	JP	08/10/13 1:17	5.07	100	CH30856
Thallium	ND (3.84)		6020A		50	SVD	08/12/13 16:55	5.07	100	CH30856
Vanadium	**126** (1.5)		6010B		1	JP	08/10/13 1:17	5.07	100	CH30856
Zinc	**276** (3.8)		6010B		1	JP	08/10/13 1:17	5.07	100	CH30856

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC2 T 0-0.5ft
Date Sampled: 08/06/13 11:26
Percent Solids: 26
Initial Volume: 19.3
Final Volume: 5
Extraction Method: 3540

ESS Laboratory Work Order: 1308109
ESS Laboratory Sample ID: 1308109-09
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 8/9/13 16:45
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (5.02)		8082A		50	08/14/13 12:13		CH30839
Aroclor 1221	ND (5.02)		8082A		50	08/14/13 12:13		CH30839
Aroclor 1232	ND (5.02)		8082A		50	08/14/13 12:13		CH30839
Aroclor 1242	ND (5.02)		8082A		50	08/14/13 12:13		CH30839
Aroclor 1248	**11.9** (5.02)		8082A		50	08/14/13 12:13		CH30839
Aroclor 1254	**28.2** (5.02)		8082A		50	08/14/13 12:13		CH30839
Aroclor 1260	ND (5.02)		8082A		50	08/14/13 12:13		CH30839
Aroclor 1262	ND (5.02)		8082A		50	08/14/13 12:13		CH30839
Aroclor 1268	ND (5.02)		8082A		50	08/14/13 12:13		CH30839

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	%	SD	30-150
Surrogate: Decachlorobiphenyl [2C]	%	SD	30-150
Surrogate: Tetrachloro-m-xylene	%	SD	30-150
Surrogate: Tetrachloro-m-xylene [2C]	%	SD	30-150

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC2 T 0-0.5ft
Date Sampled: 08/06/13 11:26
Percent Solids: 26
Initial Volume: 15.1
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308109
ESS Laboratory Sample ID: 1308109-09
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 8/9/13 19:05

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (1.28)		8270D		1	08/11/13 16:55	CWH0140	CH30921
1,2-Dichlorobenzene	ND (1.28)		8270D		1	08/11/13 16:55	CWH0140	CH30921
1,3-Dichlorobenzene	ND (1.28)		8270D		1	08/11/13 16:55	CWH0140	CH30921
1,4-Dichlorobenzene	ND (1.28)		8270D		1	08/11/13 16:55	CWH0140	CH30921
2-Methylnaphthalene	ND (1.28)		8270D		1	08/11/13 16:55	CWH0140	CH30921
2-Methylphenol	ND (1.28)		8270D		1	08/11/13 16:55	CWH0140	CH30921
Acenaphthene	ND (1.28)		8270D		1	08/11/13 16:55	CWH0140	CH30921
Acenaphthylene	ND (1.28)		8270D		1	08/11/13 16:55	CWH0140	CH30921
Anthracene	ND (1.28)		8270D		1	08/11/13 16:55	CWH0140	CH30921
Benzo(a)anthracene	ND (1.28)		8270D		1	08/11/13 16:55	CWH0140	CH30921
Benzo(a)pyrene	ND (0.643)		8270D		1	08/11/13 16:55	CWH0140	CH30921
Benzo(b)fluoranthene	ND (1.28)		8270D		1	08/11/13 16:55	CWH0140	CH30921
Benzo(g,h,i)perylene	ND (1.28)		8270D		1	08/11/13 16:55	CWH0140	CH30921
Benzo(k)fluoranthene	ND (1.28)		8270D		1	08/11/13 16:55	CWH0140	CH30921
bis(2-Ethylhexyl)phthalate	**1570** (128)		8270D		100	08/12/13 14:57	CWH0140	CH30921
Butylbenzylphthalate	ND (1.28)		8270D		1	08/11/13 16:55	CWH0140	CH30921
Carbazole	ND (1.28)		8270D		1	08/11/13 16:55	CWH0140	CH30921
Chrysene	ND (0.643)		8270D		1	08/11/13 16:55	CWH0140	CH30921
Dibenzo(a,h)Anthracene	ND (0.643)		8270D		1	08/11/13 16:55	CWH0140	CH30921
Dibenzofuran	ND (1.28)		8270D		1	08/11/13 16:55	CWH0140	CH30921
Diethylphthalate	ND (1.28)		8270D		1	08/11/13 16:55	CWH0140	CH30921
Dimethylphthalate	ND (1.28)		8270D		1	08/11/13 16:55	CWH0140	CH30921
Di-n-butylphthalate	ND (1.28)		8270D		1	08/11/13 16:55	CWH0140	CH30921
Di-n-octylphthalate	**234** (128)		8270D		100	08/12/13 14:57	CWH0140	CH30921
Fluoranthene	**1.62** (1.28)		8270D		1	08/11/13 16:55	CWH0140	CH30921
Fluorene	ND (1.28)		8270D		1	08/11/13 16:55	CWH0140	CH30921
Hexachlorobenzene	ND (1.28)		8270D		1	08/11/13 16:55	CWH0140	CH30921
Hexachlorocyclopentadiene	ND (6.43)		8270D		1	08/11/13 16:55	CWH0140	CH30921
Indeno(1,2,3-cd)Pyrene	ND (1.28)		8270D		1	08/11/13 16:55	CWH0140	CH30921
Naphthalene	ND (1.28)		8270D		1	08/11/13 16:55	CWH0140	CH30921
Phenanthrene	ND (1.28)		8270D		1	08/11/13 16:55	CWH0140	CH30921

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC2 T 0-0.5ft
Date Sampled: 08/06/13 11:26
Percent Solids: 26
Initial Volume: 15.1
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308109
ESS Laboratory Sample ID: 1308109-09
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 8/9/13 19:05

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Phenol	ND (1.28)		8270D		1	08/11/13 16:55	CWH0140	CH30921
Pyrene	ND (1.28)		8270D		1	08/11/13 16:55	CWH0140	CH30921

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*59 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*55 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*57 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*65 %*		*30-130*
Surrogate: 2-Fluorophenol	*51 %*		*30-130*
Surrogate: Nitrobenzene-d5	*67 %*		*30-130*
Surrogate: Phenol-d6	*62 %*		*30-130*
Surrogate: p-Terphenyl-d14	*63 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC2 T 0-0.5ft
Date Sampled: 08/06/13 11:26
Percent Solids: 26
Initial Volume: 15.3
Final Volume: 0.5
Extraction Method: 3541

ESS Laboratory Work Order: 1308109
ESS Laboratory Sample ID: 1308109-09
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 8/9/13 10:30

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	ND (0.158)		8270D		5	08/11/13 14:40	CWH0139	CH30903
Acenaphthene	ND (0.158)		8270D		5	08/11/13 14:40	CWH0139	CH30903
Acenaphthylene	ND (0.158)		8270D		5	08/11/13 14:40	CWH0139	CH30903
Anthracene	ND (0.158)		8270D		5	08/11/13 14:40	CWH0139	CH30903
Benzo(a)anthracene	ND (0.158)		8270D		5	08/11/13 14:40	CWH0139	CH30903
Benzo(a)pyrene	**0.190** (0.158)		8270D		5	08/11/13 14:40	CWH0139	CH30903
Benzo(b)fluoranthene	**0.456** (0.158)		8270D		5	08/11/13 14:40	CWH0139	CH30903
Benzo(g,h,i)perylene	**0.310** (0.158)		8270D		5	08/11/13 14:40	CWH0139	CH30903
Benzo(k)fluoranthene	**0.177** (0.158)		8270D		5	08/11/13 14:40	CWH0139	CH30903
Chrysene	**0.272** (0.158)		8270D		5	08/11/13 14:40	CWH0139	CH30903
Dibenzo(a,h)Anthracene	ND (0.158)		8270D		5	08/11/13 14:40	CWH0139	CH30903
Fluoranthene	**0.317** (0.158)		8270D		5	08/11/13 14:40	CWH0139	CH30903
Fluorene	ND (0.158)		8270D		5	08/11/13 14:40	CWH0139	CH30903
Indeno(1,2,3-cd)Pyrene	**0.323** (0.158)		8270D		5	08/11/13 14:40	CWH0139	CH30903
Naphthalene	ND (0.158)		8270D		5	08/11/13 14:40	CWH0139	CH30903
Phenanthrene	ND (0.158)		8270D		5	08/11/13 14:40	CWH0139	CH30903
Pyrene	**0.367** (0.158)		8270D		5	08/11/13 14:40	CWH0139	CH30903

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*52 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*57 %*		*30-130*
Surrogate: Nitrobenzene-d5	*116 %*		*30-130*
Surrogate: p-Terphenyl-d14	*84 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC2 T 0-0.5ft
Date Sampled: 08/06/13 11:26
Percent Solids: 26

ESS Laboratory Work Order: 1308109
ESS Laboratory Sample ID: 1308109-09
Sample Matrix: Soil

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**58500** (3430)		TOC-LK		1	SUB	08/14/13 17:02	mg/kg	CH32011

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC2 T 0-0.5ft
Date Sampled: 08/06/13 11:26
Percent Solids: 26
Initial Volume: 15.3
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1308109
ESS Laboratory Sample ID: 1308109-09
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 8/9/13 15:00

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	**2320** (475)		MADEP-EPH		5	SEP	08/11/13 14:23	CWH0134	CH30919
C19-C36 Aliphatics1	**573** (475)		MADEP-EPH		5	SEP	08/11/13 14:23	CWH0134	CH30919
C11-C22 Unadjusted Aromatics1	**8040** (950)		EPH8270		10	VSC	08/14/13 0:02	CWH0181	CH30919
C11-C22 Aromatics1,2	**8040** (950)		EPH8270			VSC	08/14/13 0:02		[CALC]

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1-Chlorooctadecane	*70 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*98 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*94 %*		*40-140*
Surrogate: O-Terphenyl	*401 %*	*SM*	*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC2 2-4ft
Date Sampled: 08/05/13 14:05
Percent Solids: 26

ESS Laboratory Work Order: 1308109
ESS Laboratory Sample ID: 1308109-10
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (3.8)		6020A		50	SVD	08/12/13 17:01	5.02	100	CH30856
Arsenic	**13.0** (3.8)		6010B		1	JP	08/10/13 1:22	5.02	100	CH30856
Barium	**37.1** (3.8)		6010B		1	JP	08/10/13 1:22	5.02	100	CH30856
Beryllium	**0.28** (0.16)		6010B		1	JP	08/10/13 1:22	5.02	100	CH30856
Cadmium	**1.77** (0.77)		6010B		1	JP	08/10/13 1:22	5.02	100	CH30856
Chromium	**58.8** (1.5)		6010B		1	JP	08/10/13 1:22	5.02	100	CH30856
Lead	**177** (7.7)		6010B		1	JP	08/10/13 1:22	5.02	100	CH30856
Mercury	**0.748** (0.072)		7471B		1	JP	08/12/13 19:44	1.05	40	CH30931
Nickel	**17.7** (3.8)		6010B		1	JP	08/10/13 1:22	5.02	100	CH30856
Selenium	ND (3.84)		6020A		50	SVD	08/12/13 17:01	5.02	100	CH30856
Silver	**1.49** (0.77)		6010B		1	JP	08/10/13 1:22	5.02	100	CH30856
Thallium	ND (3.84)		6020A		50	SVD	08/12/13 17:01	5.02	100	CH30856
Vanadium	**128** (1.5)		6010B		1	JP	08/10/13 1:22	5.02	100	CH30856
Zinc	**231** (3.8)		6010B		1	JP	08/10/13 1:22	5.02	100	CH30856

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC2 2-4ft
Date Sampled: 08/05/13 14:05
Percent Solids: 26
Initial Volume: 19.7
Final Volume: 5
Extraction Method: 3540

ESS Laboratory Work Order: 1308109
ESS Laboratory Sample ID: 1308109-10
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 8/9/13 16:45
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (4.87)		8082A		50	08/14/13 16:55		CH30839
Aroclor 1221	ND (4.87)		8082A		50	08/14/13 16:55		CH30839
Aroclor 1232	ND (4.87)		8082A		50	08/14/13 16:55		CH30839
Aroclor 1242	ND (4.87)		8082A		50	08/14/13 16:55		CH30839
Aroclor 1248	**43.5** (4.87)		8082A		50	08/14/13 16:55		CH30839
Aroclor 1254	**33.7** (4.87)		8082A		50	08/14/13 16:55		CH30839
Aroclor 1260	ND (4.87)		8082A		50	08/14/13 16:55		CH30839
Aroclor 1262	ND (4.87)		8082A		50	08/14/13 16:55		CH30839
Aroclor 1268	ND (4.87)		8082A		50	08/14/13 16:55		CH30839

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	%	SD	30-150
Surrogate: Decachlorobiphenyl [2C]	%	SD	30-150
Surrogate: Tetrachloro-m-xylene	%	SD	30-150
Surrogate: Tetrachloro-m-xylene [2C]	%	SD	30-150

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC2 2-4ft
Date Sampled: 08/05/13 14:05
Percent Solids: 26
Initial Volume: 15.1
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308109
ESS Laboratory Sample ID: 1308109-10
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 8/9/13 19:05

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (12.7)		8270D		10	08/12/13 16:04	CWH0143	CH30921
1,2-Dichlorobenzene	ND (12.7)		8270D		10	08/12/13 16:04	CWH0143	CH30921
1,3-Dichlorobenzene	ND (12.7)		8270D		10	08/12/13 16:04	CWH0143	CH30921
1,4-Dichlorobenzene	ND (12.7)		8270D		10	08/12/13 16:04	CWH0143	CH30921
2-Methylnaphthalene	ND (12.7)		8270D		10	08/12/13 16:04	CWH0143	CH30921
2-Methylphenol	ND (12.7)		8270D		10	08/12/13 16:04	CWH0143	CH30921
Acenaphthene	ND (12.7)		8270D		10	08/12/13 16:04	CWH0143	CH30921
Acenaphthylene	ND (12.7)		8270D		10	08/12/13 16:04	CWH0143	CH30921
Anthracene	ND (12.7)		8270D		10	08/12/13 16:04	CWH0143	CH30921
Benzo(a)anthracene	ND (12.7)		8270D		10	08/12/13 16:04	CWH0143	CH30921
Benzo(a)pyrene	ND (6.37)		8270D		10	08/12/13 16:04	CWH0143	CH30921
Benzo(b)fluoranthene	ND (12.7)		8270D		10	08/12/13 16:04	CWH0143	CH30921
Benzo(g,h,i)perylene	ND (12.7)		8270D		10	08/12/13 16:04	CWH0143	CH30921
Benzo(k)fluoranthene	ND (12.7)		8270D		10	08/12/13 16:04	CWH0143	CH30921
bis(2-Ethylhexyl)phthalate	**6160** (1270)		8270D		1000	08/12/13 17:11	CWH0143	CH30921
Butylbenzylphthalate	**20.5** (12.7)		8270D		10	08/12/13 16:04	CWH0143	CH30921
Carbazole	ND (12.7)		8270D		10	08/12/13 16:04	CWH0143	CH30921
Chrysene	ND (6.37)		8270D		10	08/12/13 16:04	CWH0143	CH30921
Dibenzo(a,h)Anthracene	ND (6.37)		8270D		10	08/12/13 16:04	CWH0143	CH30921
Dibenzofuran	ND (12.7)		8270D		10	08/12/13 16:04	CWH0143	CH30921
Diethylphthalate	ND (12.7)		8270D		10	08/12/13 16:04	CWH0143	CH30921
Dimethylphthalate	ND (12.7)		8270D		10	08/12/13 16:04	CWH0143	CH30921
Di-n-butylphthalate	ND (12.7)		8270D		10	08/12/13 16:04	CWH0143	CH30921
Di-n-octylphthalate	**2730** (1270)		8270D		1000	08/12/13 17:11	CWH0143	CH30921
Fluoranthene	ND (12.7)		8270D		10	08/12/13 16:04	CWH0143	CH30921
Fluorene	ND (12.7)		8270D		10	08/12/13 16:04	CWH0143	CH30921
Hexachlorobenzene	ND (12.7)		8270D		10	08/12/13 16:04	CWH0143	CH30921
Hexachlorocyclopentadiene	ND (63.7)		8270D		10	08/12/13 16:04	CWH0143	CH30921
Indeno(1,2,3-cd)Pyrene	ND (12.7)		8270D		10	08/12/13 16:04	CWH0143	CH30921
Naphthalene	ND (12.7)		8270D		10	08/12/13 16:04	CWH0143	CH30921
Phenanthrene	ND (12.7)		8270D		10	08/12/13 16:04	CWH0143	CH30921

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC2 2-4ft
Date Sampled: 08/05/13 14:05
Percent Solids: 26
Initial Volume: 15.1
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308109
ESS Laboratory Sample ID: 1308109-10
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 8/9/13 19:05

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Phenol	ND (12.7)		8270D		10	08/12/13 16:04	CWH0143	CH30921
Pyrene	ND (12.7)		8270D		10	08/12/13 16:04	CWH0143	CH30921

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*41 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*43 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*48 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*58 %*		*30-130*
Surrogate: 2-Fluorophenol	*46 %*		*30-130*
Surrogate: Nitrobenzene-d5	*69 %*		*30-130*
Surrogate: Phenol-d6	*50 %*		*30-130*
Surrogate: p-Terphenyl-d14	*60 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC2 2-4ft
Date Sampled: 08/05/13 14:05
Percent Solids: 26
Initial Volume: 15.4
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 1308109
ESS Laboratory Sample ID: 1308109-10
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 8/9/13 10:30

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	ND (1.25)		8270D		10	08/15/13 1:43	CWH0193	CH30903
Acenaphthene	ND (1.25)		8270D		10	08/15/13 1:43	CWH0193	CH30903
Acenaphthylene	ND (1.25)		8270D		10	08/15/13 1:43	CWH0193	CH30903
Anthracene	ND (1.25)		8270D		10	08/15/13 1:43	CWH0193	CH30903
Benzo(a)anthracene	ND (1.25)		8270D		10	08/15/13 1:43	CWH0193	CH30903
Benzo(a)pyrene	ND (1.25)		8270D		10	08/15/13 1:43	CWH0193	CH30903
Benzo(b)fluoranthene	ND (1.25)		8270D		10	08/15/13 1:43	CWH0193	CH30903
Benzo(g,h,i)perylene	ND (1.25)		8270D		10	08/15/13 1:43	CWH0193	CH30903
Benzo(k)fluoranthene	ND (1.25)		8270D		10	08/15/13 1:43	CWH0193	CH30903
Chrysene	ND (1.25)		8270D		10	08/15/13 1:43	CWH0193	CH30903
Dibenzo(a,h)Anthracene	ND (1.25)		8270D		10	08/15/13 1:43	CWH0193	CH30903
Fluoranthene	ND (1.25)		8270D		10	08/15/13 1:43	CWH0193	CH30903
Fluorene	ND (1.25)		8270D		10	08/15/13 1:43	CWH0193	CH30903
Indeno(1,2,3-cd)Pyrene	ND (1.25)		8270D		10	08/15/13 1:43	CWH0193	CH30903
Naphthalene	ND (1.25)		8270D		10	08/15/13 1:43	CWH0193	CH30903
Phenanthrene	ND (1.25)		8270D		10	08/15/13 1:43	CWH0193	CH30903
Pyrene	ND (1.25)		8270D		10	08/15/13 1:43	CWH0193	CH30903

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*126 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*110 %*		*30-130*
Surrogate: Nitrobenzene-d5	*370 %*	*SM*	*30-130*
Surrogate: p-Terphenyl-d14	*148 %*	*SM*	*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC2 2-4ft
Date Sampled: 08/05/13 14:05
Percent Solids: 26
Initial Volume: 15.3
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1308109
ESS Laboratory Sample ID: 1308109-10
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 8/12/13 16:50

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	**1830** (94.1)		MADEP-EPH		1	VSC	08/14/13 0:13	CWH0163	CH31208
C19-C36 Aliphatics1	**320** (94.1)		MADEP-EPH		1	VSC	08/14/13 0:13	CWH0163	CH31208
C11-C22 Unadjusted Aromatics1	**13000** (941)		EPH8270		10	VSC	08/14/13 15:11	CWH0181	CH31208
C11-C22 Aromatics1,2	**13000** (941)		EPH8270			VSC	08/14/13 15:11		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*70 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*76 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*76 %*		*40-140*
Surrogate: O-Terphenyl	*227 %*	*SM*	*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC3 T 0-0.5ft
Date Sampled: 08/06/13 11:36
Percent Solids: 53

ESS Laboratory Work Order: 1308109
ESS Laboratory Sample ID: 1308109-11
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	**2.5** (1.8)		6020A		50	SVD	08/12/13 17:31	5.13	100	CH30856
Arsenic	**80.9** (9.2)		6010B		5	JP	08/10/13 18:51	5.13	100	CH30856
Barium	**81.7** (9.2)		6010B		5	JP	08/10/13 18:51	5.13	100	CH30856
Beryllium	ND (0.38)		6010B		5	JP	08/10/13 18:51	5.13	100	CH30856
Cadmium	ND (1.84)		6010B		5	JP	08/10/13 18:51	5.13	100	CH30856
Chromium	**45.2** (3.7)		6010B		5	JP	08/10/13 18:51	5.13	100	CH30856
Lead	**211** (18.3)		6010B		5	JP	08/10/13 18:51	5.13	100	CH30856
Mercury	**0.480** (0.165)		7471B		5	JP	08/12/13 19:58	1.13	40	CH30931
Nickel	**17.2** (9.2)		6010B		5	JP	08/10/13 18:51	5.13	100	CH30856
Selenium	**2.38** (1.84)		6020A		50	SVD	08/12/13 17:31	5.13	100	CH30856
Silver	**5.23** (1.84)		6010B		5	JP	08/10/13 18:51	5.13	100	CH30856
Thallium	ND (1.84)		6020A		50	SVD	08/12/13 17:31	5.13	100	CH30856
Vanadium	**68.6** (3.7)		6010B		5	JP	08/10/13 18:51	5.13	100	CH30856
Zinc	**596** (9.2)		6010B		5	JP	08/10/13 18:51	5.13	100	CH30856

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC3 T 0-0.5ft
Date Sampled: 08/06/13 11:36
Percent Solids: 53
Initial Volume: 19.5
Final Volume: 5
Extraction Method: 3540

ESS Laboratory Work Order: 1308109
ESS Laboratory Sample ID: 1308109-11
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 8/9/13 16:45
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0482)		8082A		1	08/14/13 12:32		CH30839
Aroclor 1221	ND (0.0482)		8082A		1	08/14/13 12:32		CH30839
Aroclor 1232	ND (0.0482)		8082A		1	08/14/13 12:32		CH30839
Aroclor 1242	ND (0.0482)		8082A		1	08/14/13 12:32		CH30839
Aroclor 1248	**0.699** (0.0482)		8082A		1	08/14/13 12:32		CH30839
Aroclor 1254	**0.622** (0.0482)		8082A		1	08/14/13 12:32		CH30839
Aroclor 1260	**0.232** (0.0482)		8082A		1	08/14/13 12:32		CH30839
Aroclor 1262	ND (0.0482)		8082A		1	08/14/13 12:32		CH30839
Aroclor 1268	ND (0.0482)		8082A		1	08/14/13 12:32		CH30839

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*114 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*108 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*86 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*81 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC3 T 0-0.5ft
Date Sampled: 08/06/13 11:36
Percent Solids: 53
Initial Volume: 15.2
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308109
ESS Laboratory Sample ID: 1308109-11
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 8/9/13 19:05

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.618)		8270D		1	08/12/13 14:54	CWH0147	CH30921
1,2-Dichlorobenzene	ND (0.618)		8270D		1	08/12/13 14:54	CWH0147	CH30921
1,3-Dichlorobenzene	ND (0.618)		8270D		1	08/12/13 14:54	CWH0147	CH30921
1,4-Dichlorobenzene	ND (0.618)		8270D		1	08/12/13 14:54	CWH0147	CH30921
2-Methylnaphthalene	ND (0.618)		8270D		1	08/12/13 14:54	CWH0147	CH30921
2-Methylphenol	ND (0.618)		8270D		1	08/12/13 14:54	CWH0147	CH30921
Acenaphthene	ND (0.618)		8270D		1	08/12/13 14:54	CWH0147	CH30921
Acenaphthylene	ND (0.618)		8270D		1	08/12/13 14:54	CWH0147	CH30921
Anthracene	ND (0.618)		8270D		1	08/12/13 14:54	CWH0147	CH30921
Benzo(a)anthracene	**1.14** (0.618)		8270D		1	08/12/13 14:54	CWH0147	CH30921
Benzo(a)pyrene	**1.22** (0.310)		8270D		1	08/12/13 14:54	CWH0147	CH30921
Benzo(b)fluoranthene	**1.66** (0.618)		8270D		1	08/12/13 14:54	CWH0147	CH30921
Benzo(g,h,i)perylene	ND (0.618)		8270D		1	08/12/13 14:54	CWH0147	CH30921
Benzo(k)fluoranthene	**0.791** (0.618)		8270D		1	08/12/13 14:54	CWH0147	CH30921
bis(2-Ethylhexyl)phthalate	**13.7** (0.618)		8270D		1	08/12/13 14:54	CWH0147	CH30921
Butylbenzylphthalate	ND (0.618)		8270D		1	08/12/13 14:54	CWH0147	CH30921
Carbazole	ND (0.618)		8270D		1	08/12/13 14:54	CWH0147	CH30921
Chrysene	**1.34** (0.310)		8270D		1	08/12/13 14:54	CWH0147	CH30921
Dibenzo(a,h)Anthracene	ND (0.310)		8270D		1	08/12/13 14:54	CWH0147	CH30921
Dibenzofuran	**0.693** (0.618)		8270D		1	08/12/13 14:54	CWH0147	CH30921
Diethylphthalate	ND (0.618)		8270D		1	08/12/13 14:54	CWH0147	CH30921
Dimethylphthalate	ND (0.618)		8270D		1	08/12/13 14:54	CWH0147	CH30921
Di-n-butylphthalate	ND (0.618)		8270D		1	08/12/13 14:54	CWH0147	CH30921
Di-n-octylphthalate	**1.06** (0.618)		8270D		1	08/12/13 14:54	CWH0147	CH30921
Fluoranthene	**2.61** (0.618)		8270D		1	08/12/13 14:54	CWH0147	CH30921
Fluorene	ND (0.618)		8270D		1	08/12/13 14:54	CWH0147	CH30921
Hexachlorobenzene	ND (0.618)		8270D		1	08/12/13 14:54	CWH0147	CH30921
Hexachlorocyclopentadiene	ND (3.10)		8270D		1	08/12/13 14:54	CWH0147	CH30921
Indeno(1,2,3-cd)Pyrene	ND (0.618)		8270D		1	08/12/13 14:54	CWH0147	CH30921
Naphthalene	**7.11** (0.618)		8270D		1	08/12/13 14:54	CWH0147	CH30921
Phenanthrene	**3.10** (0.618)		8270D		1	08/12/13 14:54	CWH0147	CH30921

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC3 T 0-0.5ft
Date Sampled: 08/06/13 11:36
Percent Solids: 53
Initial Volume: 15.2
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308109
ESS Laboratory Sample ID: 1308109-11
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 8/9/13 19:05

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Phenol	ND (0.618)		8270D		1	08/12/13 14:54	CWH0147	CH30921
Pyrene	**2.01** (0.618)		8270D		1	08/12/13 14:54	CWH0147	CH30921

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*50 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*60 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*56 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*58 %*		*30-130*
Surrogate: 2-Fluorophenol	*52 %*		*30-130*
Surrogate: Nitrobenzene-d5	*58 %*		*30-130*
Surrogate: Phenol-d6	*60 %*		*30-130*
Surrogate: p-Terphenyl-d14	*63 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC3 T 0-0.5ft
Date Sampled: 08/06/13 11:36
Percent Solids: 53
Initial Volume: 15.4
Final Volume: 0.5
Extraction Method: 3541

ESS Laboratory Work Order: 1308109
ESS Laboratory Sample ID: 1308109-11
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 8/9/13 10:30

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	ND (0.076)		8270D		5	08/11/13 21:17	CWH0139	CH30903
Acenaphthene	ND (0.076)		8270D		5	08/11/13 21:17	CWH0139	CH30903
Acenaphthylene	**0.085** (0.076)		8270D		5	08/11/13 21:17	CWH0139	CH30903
Anthracene	**0.147** (0.076)		8270D		5	08/11/13 21:17	CWH0139	CH30903
Benzo(a)anthracene	**0.452** (0.076)		8270D		5	08/11/13 21:17	CWH0139	CH30903
Benzo(a)pyrene	**0.571** (0.076)		8270D		5	08/11/13 21:17	CWH0139	CH30903
Benzo(b)fluoranthene	**0.727** (0.076)		8270D		5	08/11/13 21:17	CWH0139	CH30903
Benzo(g,h,i)perylene	**0.360** (0.076)		8270D		5	08/11/13 21:17	CWH0139	CH30903
Benzo(k)fluoranthene	**0.287** (0.076)		8270D		5	08/11/13 21:17	CWH0139	CH30903
Chrysene	**0.513** (0.076)		8270D		5	08/11/13 21:17	CWH0139	CH30903
Dibenzo(a,h)Anthracene	**0.107** (0.076)		8270D		5	08/11/13 21:17	CWH0139	CH30903
Fluoranthene	**0.815** (0.076)		8270D		5	08/11/13 21:17	CWH0139	CH30903
Fluorene	ND (0.076)		8270D		5	08/11/13 21:17	CWH0139	CH30903
Indeno(1,2,3-cd)Pyrene	**0.415** (0.076)		8270D		5	08/11/13 21:17	CWH0139	CH30903
Naphthalene	**0.174** (0.076)		8270D		5	08/11/13 21:17	CWH0139	CH30903
Phenanthrene	**0.397** (0.076)		8270D		5	08/11/13 21:17	CWH0139	CH30903
Pyrene	**0.788** (0.076)		8270D		5	08/11/13 21:17	CWH0139	CH30903

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*38 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*54 %*		*30-130*
Surrogate: Nitrobenzene-d5	*46 %*		*30-130*
Surrogate: p-Terphenyl-d14	*82 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC3 T 0-0.5ft
Date Sampled: 08/06/13 11:36
Percent Solids: 53

ESS Laboratory Work Order: 1308109
ESS Laboratory Sample ID: 1308109-11
Sample Matrix: Soil

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**24500** (1800)		TOC-LK		1	SUB	08/14/13 17:09	mg/kg	CH32011

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC3 T 0-0.5ft
Date Sampled: 08/06/13 11:36
Percent Solids: 53
Initial Volume: 15.6
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1308109
ESS Laboratory Sample ID: 1308109-11
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 8/9/13 15:00

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	**78.6** (45.2)		MADEP-EPH		1	ML	08/11/13 11:01	CWH0134	CH30919
C19-C36 Aliphatics1	**321** (45.2)		MADEP-EPH		1	ML	08/11/13 11:01	CWH0134	CH30919
C11-C22 Unadjusted Aromatics1	**360** (45.2)		EPH8270		1	VSC	08/12/13 22:39	CWH0145	CH30919
C11-C22 Aromatics1,2	**353** (45.2)		EPH8270			VSC	08/12/13 22:39		[CALC]

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1-Chlorooctadecane	*77 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*115 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*111 %*		*40-140*
Surrogate: O-Terphenyl	*95 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC-3 0.5-2ft
Date Sampled: 08/05/13 14:15
Percent Solids: 64

ESS Laboratory Work Order: 1308109
ESS Laboratory Sample ID: 1308109-12
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	**2.6** (1.5)		6020A		50	SVD	08/12/13 17:37	5.23	100	CH30856
Arsenic	**75.4** (7.4)		6010B		5	JP	08/10/13 18:56	5.23	100	CH30856
Barium	**73.6** (7.4)		6010B		5	JP	08/10/13 18:56	5.23	100	CH30856
Beryllium	ND (0.31)		6010B		5	JP	08/10/13 18:56	5.23	100	CH30856
Cadmium	**1.80** (1.49)		6010B		5	JP	08/10/13 18:56	5.23	100	CH30856
Chromium	**28.2** (3.0)		6010B		5	JP	08/10/13 18:56	5.23	100	CH30856
Lead	**163** (14.8)		6010B		5	JP	08/10/13 18:56	5.23	100	CH30856
Mercury	**0.274** (0.022)		7471B		1	JP	08/12/13 20:00	1.39	40	CH30931
Nickel	**13.8** (7.4)		6010B		5	JP	08/10/13 18:56	5.23	100	CH30856
Selenium	**2.19** (1.49)		6020A		50	SVD	08/12/13 17:37	5.23	100	CH30856
Silver	**5.58** (1.49)		6010B		5	JP	08/10/13 18:56	5.23	100	CH30856
Thallium	ND (1.49)		6020A		50	SVD	08/12/13 17:37	5.23	100	CH30856
Vanadium	**51.4** (3.0)		6010B		5	JP	08/10/13 18:56	5.23	100	CH30856
Zinc	**884** (7.4)		6010B		5	JP	08/10/13 18:56	5.23	100	CH30856

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC-3 0.5-2ft
Date Sampled: 08/05/13 14:15
Percent Solids: 64
Initial Volume: 19.5
Final Volume: 5
Extraction Method: 3540

ESS Laboratory Work Order: 1308109
ESS Laboratory Sample ID: 1308109-12
Sample Matrix: Soil
Units: mg/kg dry
Analyst: ML
Prepared: 8/9/13 16:45
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0398)		8082A		1	08/15/13 10:41		CH30839
Aroclor 1221	ND (0.0398)		8082A		1	08/15/13 10:41		CH30839
Aroclor 1232	ND (0.0398)		8082A		1	08/15/13 10:41		CH30839
Aroclor 1242	ND (0.0398)		8082A		1	08/15/13 10:41		CH30839
Aroclor 1248	**0.629** (0.0398)		8082A		1	08/15/13 10:41		CH30839
Aroclor 1254	**0.791** (0.0398)		8082A		1	08/15/13 10:41		CH30839
Aroclor 1260	**P 0.237** (0.0398)		8082A		1	08/15/13 10:41		CH30839
Aroclor 1262	ND (0.0398)		8082A		1	08/15/13 10:41		CH30839
Aroclor 1268	ND (0.0398)		8082A		1	08/15/13 10:41		CH30839

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*98 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*93 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*76 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*70 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC-3 0.5-2ft
Date Sampled: 08/05/13 14:15
Percent Solids: 64
Initial Volume: 15.2
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308109
ESS Laboratory Sample ID: 1308109-12
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 8/9/13 19:05

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.510)		8270D		1	08/12/13 13:47	CWH0147	CH30921
1,2-Dichlorobenzene	ND (0.510)		8270D		1	08/12/13 13:47	CWH0147	CH30921
1,3-Dichlorobenzene	ND (0.510)		8270D		1	08/12/13 13:47	CWH0147	CH30921
1,4-Dichlorobenzene	ND (0.510)		8270D		1	08/12/13 13:47	CWH0147	CH30921
2-Methylnaphthalene	ND (0.510)		8270D		1	08/12/13 13:47	CWH0147	CH30921
2-Methylphenol	ND (0.510)		8270D		1	08/12/13 13:47	CWH0147	CH30921
Acenaphthene	ND (0.510)		8270D		1	08/12/13 13:47	CWH0147	CH30921
Acenaphthylene	ND (0.510)		8270D		1	08/12/13 13:47	CWH0147	CH30921
Anthracene	ND (0.510)		8270D		1	08/12/13 13:47	CWH0147	CH30921
Benzo(a)anthracene	ND (0.510)		8270D		1	08/12/13 13:47	CWH0147	CH30921
Benzo(a)pyrene	**0.488** (0.256)		8270D		1	08/12/13 13:47	CWH0147	CH30921
Benzo(b)fluoranthene	**0.743** (0.510)		8270D		1	08/12/13 13:47	CWH0147	CH30921
Benzo(g,h,i)perylene	ND (0.510)		8270D		1	08/12/13 13:47	CWH0147	CH30921
Benzo(k)fluoranthene	ND (0.510)		8270D		1	08/12/13 13:47	CWH0147	CH30921
bis(2-Ethylhexyl)phthalate	**31.8** (5.10)		8270D		10	08/13/13 0:23	CWH0147	CH30921
Butylbenzylphthalate	ND (0.510)		8270D		1	08/12/13 13:47	CWH0147	CH30921
Carbazole	ND (0.510)		8270D		1	08/12/13 13:47	CWH0147	CH30921
Chrysene	**0.440** (0.256)		8270D		1	08/12/13 13:47	CWH0147	CH30921
Dibenzo(a,h)Anthracene	ND (0.256)		8270D		1	08/12/13 13:47	CWH0147	CH30921
Dibenzofuran	ND (0.510)		8270D		1	08/12/13 13:47	CWH0147	CH30921
Diethylphthalate	ND (0.510)		8270D		1	08/12/13 13:47	CWH0147	CH30921
Dimethylphthalate	ND (0.510)		8270D		1	08/12/13 13:47	CWH0147	CH30921
Di-n-butylphthalate	ND (0.510)		8270D		1	08/12/13 13:47	CWH0147	CH30921
Di-n-octylphthalate	**1.45** (0.510)		8270D		1	08/12/13 13:47	CWH0147	CH30921
Fluoranthene	**0.868** (0.510)		8270D		1	08/12/13 13:47	CWH0147	CH30921
Fluorene	ND (0.510)		8270D		1	08/12/13 13:47	CWH0147	CH30921
Hexachlorobenzene	ND (0.510)		8270D		1	08/12/13 13:47	CWH0147	CH30921
Hexachlorocyclopentadiene	ND (2.56)		8270D		1	08/12/13 13:47	CWH0147	CH30921
Indeno(1,2,3-cd)Pyrene	ND (0.510)		8270D		1	08/12/13 13:47	CWH0147	CH30921
Naphthalene	ND (0.510)		8270D		1	08/12/13 13:47	CWH0147	CH30921
Phenanthrene	ND (0.510)		8270D		1	08/12/13 13:47	CWH0147	CH30921

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC-3 0.5-2ft
Date Sampled: 08/05/13 14:15
Percent Solids: 64
Initial Volume: 15.2
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308109
ESS Laboratory Sample ID: 1308109-12
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 8/9/13 19:05

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Phenol	ND (0.510)		8270D		1	08/12/13 13:47	CWH0147	CH30921
Pyrene	**0.884** (0.510)		8270D		1	08/12/13 13:47	CWH0147	CH30921

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*44 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*49 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*50 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*51 %*		*30-130*
Surrogate: 2-Fluorophenol	*47 %*		*30-130*
Surrogate: Nitrobenzene-d5	*48 %*		*30-130*
Surrogate: Phenol-d6	*54 %*		*30-130*
Surrogate: p-Terphenyl-d14	*66 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC-3 0.5-2ft
Date Sampled: 08/05/13 14:15
Percent Solids: 64
Initial Volume: 15.5
Final Volume: 0.5
Extraction Method: 3541

ESS Laboratory Work Order: 1308109
ESS Laboratory Sample ID: 1308109-12
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 8/9/13 10:30

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	ND (0.063)		8270D		5	08/13/13 7:54	CWH0159	CH30903
Acenaphthene	ND (0.063)		8270D		5	08/13/13 7:54	CWH0159	CH30903
Acenaphthylene	ND (0.063)		8270D		5	08/13/13 7:54	CWH0159	CH30903
Anthracene	**0.145** (0.063)		8270D		5	08/13/13 7:54	CWH0159	CH30903
Benzo(a)anthracene	**0.315** (0.063)		8270D		5	08/13/13 7:54	CWH0159	CH30903
Benzo(a)pyrene	**0.320** (0.063)		8270D		5	08/13/13 7:54	CWH0159	CH30903
Benzo(b)fluoranthene	**0.408** (0.063)		8270D		5	08/13/13 7:54	CWH0159	CH30903
Benzo(g,h,i)perylene	**0.210** (0.063)		8270D		5	08/13/13 7:54	CWH0159	CH30903
Benzo(k)fluoranthene	**0.115** (0.063)		8270D		5	08/13/13 7:54	CWH0159	CH30903
Chrysene	**0.313** (0.063)		8270D		5	08/13/13 7:54	CWH0159	CH30903
Dibenzo(a,h)Anthracene	ND (0.063)		8270D		5	08/13/13 7:54	CWH0159	CH30903
Fluoranthene	**0.633** (0.063)		8270D		5	08/13/13 7:54	CWH0159	CH30903
Fluorene	ND (0.063)		8270D		5	08/13/13 7:54	CWH0159	CH30903
Indeno(1,2,3-cd)Pyrene	**0.230** (0.063)		8270D		5	08/13/13 7:54	CWH0159	CH30903
Naphthalene	**0.070** (0.063)		8270D		5	08/13/13 7:54	CWH0159	CH30903
Phenanthrene	**0.438** (0.063)		8270D		5	08/13/13 7:54	CWH0159	CH30903
Pyrene	**0.541** (0.063)		8270D		5	08/13/13 7:54	CWH0159	CH30903

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*48 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*53 %*		*30-130*
Surrogate: Nitrobenzene-d5	*47 %*		*30-130*
Surrogate: p-Terphenyl-d14	*84 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC-3 0.5-2ft
Date Sampled: 08/05/13 14:15
Percent Solids: 64

ESS Laboratory Work Order: 1308109
ESS Laboratory Sample ID: 1308109-12
Sample Matrix: Soil

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**18600** (1480)		TOC-LK		1	SUB	08/14/13 17:17	mg/kg	CH32011

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC-3 0.5-2ft
Date Sampled: 08/05/13 14:15
Percent Solids: 64
Initial Volume: 15.1
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1308109
ESS Laboratory Sample ID: 1308109-12
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 8/9/13 15:00

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (38.5)		MADEP-EPH		1	ML	08/11/13 11:51	CWH0134	CH30919
C19-C36 Aliphatics1	**117** (38.5)		MADEP-EPH		1	ML	08/11/13 11:51	CWH0134	CH30919
C11-C22 Unadjusted Aromatics1	**147** (38.5)		EPH8270		1	VSC	08/12/13 21:05	CWH0145	CH30919
C11-C22 Aromatics1,2	**147** (38.5)		EPH8270			VSC	08/12/13 21:05		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*92 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*106 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*102 %*		*40-140*
Surrogate: O-Terphenyl	*86 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC-3 4-6ft
Date Sampled: 08/05/13 14:15
Percent Solids: 72

ESS Laboratory Work Order: 1308109
ESS Laboratory Sample ID: 1308109-13
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (1.4)		6020A		50	SVD	08/12/13 17:55	5.12	100	CH30856
Arsenic	**31.1** (6.7)		6010B		5	JP	08/10/13 19:02	5.12	100	CH30856
Barium	**48.5** (6.7)		6010B		5	JP	08/10/13 19:02	5.12	100	CH30856
Beryllium	ND (0.28)		6010B		5	JP	08/10/13 19:02	5.12	100	CH30856
Cadmium	ND (1.35)		6010B		5	JP	08/10/13 19:02	5.12	100	CH30856
Chromium	**29.5** (2.7)		6010B		5	JP	08/10/13 19:02	5.12	100	CH30856
Lead	**117** (13.5)		6010B		5	JP	08/10/13 19:02	5.12	100	CH30856
Mercury	**0.159** (0.020)		7471B		1	JP	08/12/13 20:03	1.35	40	CH30931
Nickel	**11.5** (6.7)		6010B		5	JP	08/10/13 19:02	5.12	100	CH30856
Selenium	**2.18** (1.35)		6020A		50	SVD	08/12/13 17:55	5.12	100	CH30856
Silver	**3.75** (1.35)		6010B		5	JP	08/10/13 19:02	5.12	100	CH30856
Thallium	ND (1.35)		6020A		50	SVD	08/12/13 17:55	5.12	100	CH30856
Vanadium	**62.4** (2.7)		6010B		5	JP	08/10/13 19:02	5.12	100	CH30856
Zinc	**297** (6.7)		6010B		5	JP	08/10/13 19:02	5.12	100	CH30856

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC-3 4-6ft
Date Sampled: 08/05/13 14:15
Percent Solids: 72
Initial Volume: 19.4
Final Volume: 5
Extraction Method: 3540

ESS Laboratory Work Order: 1308109
ESS Laboratory Sample ID: 1308109-13
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 8/9/13 16:45
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (1.78)		8082A		50	08/13/13 18:23		CH30839
Aroclor 1221	ND (1.78)		8082A		50	08/13/13 18:23		CH30839
Aroclor 1232	ND (1.78)		8082A		50	08/13/13 18:23		CH30839
Aroclor 1242	ND (1.78)		8082A		50	08/13/13 18:23		CH30839
Aroclor 1248	**9.44** (1.78)		8082A		50	08/13/13 18:23		CH30839
Aroclor 1254	**15.4** (1.78)		8082A		50	08/13/13 18:23		CH30839
Aroclor 1260	ND (1.78)		8082A		50	08/13/13 18:23		CH30839
Aroclor 1262	ND (1.78)		8082A		50	08/13/13 18:23		CH30839
Aroclor 1268	ND (1.78)		8082A		50	08/13/13 18:23		CH30839

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	%	SD	30-150
Surrogate: Decachlorobiphenyl [2C]	%	SD	30-150
Surrogate: Tetrachloro-m-xylene	%	SD	30-150
Surrogate: Tetrachloro-m-xylene [2C]	%	SD	30-150

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC-3 4-6ft
Date Sampled: 08/05/13 14:15
Percent Solids: 72
Initial Volume: 15.2
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308109
ESS Laboratory Sample ID: 1308109-13
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 8/9/13 19:05

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (45.4)		8270D		100	08/12/13 18:18	CWH0143	CH30921
1,2-Dichlorobenzene	ND (45.4)		8270D		100	08/12/13 18:18	CWH0143	CH30921
1,3-Dichlorobenzene	ND (45.4)		8270D		100	08/12/13 18:18	CWH0143	CH30921
1,4-Dichlorobenzene	ND (45.4)		8270D		100	08/12/13 18:18	CWH0143	CH30921
2-Methylnaphthalene	ND (45.4)		8270D		100	08/12/13 18:18	CWH0143	CH30921
2-Methylphenol	ND (45.4)		8270D		100	08/12/13 18:18	CWH0143	CH30921
Acenaphthene	ND (45.4)		8270D		100	08/12/13 18:18	CWH0143	CH30921
Acenaphthylene	ND (45.4)		8270D		100	08/12/13 18:18	CWH0143	CH30921
Anthracene	ND (45.4)		8270D		100	08/12/13 18:18	CWH0143	CH30921
Benzo(a)anthracene	ND (45.4)		8270D		100	08/12/13 18:18	CWH0143	CH30921
Benzo(a)pyrene	ND (22.7)		8270D		100	08/12/13 18:18	CWH0143	CH30921
Benzo(b)fluoranthene	ND (45.4)		8270D		100	08/12/13 18:18	CWH0143	CH30921
Benzo(g,h,i)perylene	ND (45.4)		8270D		100	08/12/13 18:18	CWH0143	CH30921
Benzo(k)fluoranthene	ND (45.4)		8270D		100	08/12/13 18:18	CWH0143	CH30921
bis(2-Ethylhexyl)phthalate	**7320** (454)		8270D		1000	08/12/13 18:52	CWH0143	CH30921
Butylbenzylphthalate	ND (45.4)		8270D		100	08/12/13 18:18	CWH0143	CH30921
Carbazole	ND (45.4)		8270D		100	08/12/13 18:18	CWH0143	CH30921
Chrysene	ND (22.7)		8270D		100	08/12/13 18:18	CWH0143	CH30921
Dibenzo(a,h)Anthracene	ND (22.7)		8270D		100	08/12/13 18:18	CWH0143	CH30921
Dibenzofuran	ND (45.4)		8270D		100	08/12/13 18:18	CWH0143	CH30921
Diethylphthalate	ND (45.4)		8270D		100	08/12/13 18:18	CWH0143	CH30921
Dimethylphthalate	ND (45.4)		8270D		100	08/12/13 18:18	CWH0143	CH30921
Di-n-butylphthalate	ND (45.4)		8270D		100	08/12/13 18:18	CWH0143	CH30921
Di-n-octylphthalate	**1420** (454)		8270D		1000	08/12/13 18:52	CWH0143	CH30921
Fluoranthene	ND (45.4)		8270D		100	08/12/13 18:18	CWH0143	CH30921
Fluorene	ND (45.4)		8270D		100	08/12/13 18:18	CWH0143	CH30921
Hexachlorobenzene	ND (45.4)		8270D		100	08/12/13 18:18	CWH0143	CH30921
Hexachlorocyclopentadiene	ND (227)		8270D		100	08/12/13 18:18	CWH0143	CH30921
Indeno(1,2,3-cd)Pyrene	ND (45.4)		8270D		100	08/12/13 18:18	CWH0143	CH30921
Naphthalene	ND (45.4)		8270D		100	08/12/13 18:18	CWH0143	CH30921
Phenanthrene	ND (45.4)		8270D		100	08/12/13 18:18	CWH0143	CH30921

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC-3 4-6ft
Date Sampled: 08/05/13 14:15
Percent Solids: 72
Initial Volume: 15.2
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308109
ESS Laboratory Sample ID: 1308109-13
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 8/9/13 19:05

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Phenol	ND (45.4)		8270D		100	08/12/13 18:18	CWH0143	CH30921
Pyrene	ND (45.4)		8270D		100	08/12/13 18:18	CWH0143	CH30921

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	%	SD	30-130
Surrogate: 2,4,6-Tribromophenol	%	SD	30-130
Surrogate: 2-Chlorophenol-d4	%	SD	30-130
Surrogate: 2-Fluorobiphenyl	%	SD	30-130
Surrogate: 2-Fluorophenol	%	SD	30-130
Surrogate: Nitrobenzene-d5	%	SD	30-130
Surrogate: Phenol-d6	%	SD	30-130
Surrogate: p-Terphenyl-d14	%	SD	30-130

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC-3 4-6ft
Date Sampled: 08/05/13 14:15
Percent Solids: 72
Initial Volume: 15.1
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 1308109
ESS Laboratory Sample ID: 1308109-13
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 8/9/13 10:30

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	ND (0.114)		8270D		5	08/14/13 11:39	CWH0174	CH30903
Acenaphthene	ND (0.114)		8270D		5	08/14/13 11:39	CWH0174	CH30903
Acenaphthylene	ND (0.114)		8270D		5	08/14/13 11:39	CWH0174	CH30903
Anthracene	ND (0.114)		8270D		5	08/14/13 11:39	CWH0174	CH30903
Benzo(a)anthracene	**0.119** (0.114)		8270D		5	08/14/13 11:39	CWH0174	CH30903
Benzo(a)pyrene	ND (0.114)		8270D		5	08/14/13 11:39	CWH0174	CH30903
Benzo(b)fluoranthene	**0.197** (0.114)		8270D		5	08/14/13 11:39	CWH0174	CH30903
Benzo(g,h,i)perylene	ND (0.114)		8270D		5	08/14/13 11:39	CWH0174	CH30903
Benzo(k)fluoranthene	ND (0.114)		8270D		5	08/14/13 11:39	CWH0174	CH30903
Chrysene	**0.201** (0.114)		8270D		5	08/14/13 11:39	CWH0174	CH30903
Dibenzo(a,h)Anthracene	ND (0.114)		8270D		5	08/14/13 11:39	CWH0174	CH30903
Fluoranthene	**0.512** (0.114)		8270D		5	08/14/13 11:39	CWH0174	CH30903
Fluorene	ND (0.114)		8270D		5	08/14/13 11:39	CWH0174	CH30903
Indeno(1,2,3-cd)Pyrene	ND (0.114)		8270D		5	08/14/13 11:39	CWH0174	CH30903
Naphthalene	**0.599** (0.114)		8270D		5	08/14/13 11:39	CWH0174	CH30903
Phenanthrene	**0.384** (0.114)		8270D		5	08/14/13 11:39	CWH0174	CH30903
Pyrene	**0.416** (0.114)		8270D		5	08/14/13 11:39	CWH0174	CH30903

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*84 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*94 %*		*30-130*
Surrogate: Nitrobenzene-d5	*119 %*		*30-130*
Surrogate: p-Terphenyl-d14	*123 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC-3 4-6ft
Date Sampled: 08/05/13 14:15
Percent Solids: 72
Initial Volume: 15
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1308109
ESS Laboratory Sample ID: 1308109-13
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 8/12/13 17:04

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	**975** (34.5)		MADEP-EPH		1	VSC	08/14/13 1:04	CWH0163	CH31228
C19-C36 Aliphatics1	**111** (34.5)		MADEP-EPH		1	VSC	08/14/13 1:04	CWH0163	CH31228
C11-C22 Unadjusted Aromatics1	**6430** (345)		EPH8270		10	VSC	08/14/13 15:58	CWH0181	CH31228
C11-C22 Aromatics1,2	**6430** (345)		EPH8270			VSC	08/14/13 15:58		[CALC]

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1-Chlorooctadecane	*77 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*80 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*84 %*		*40-140*
Surrogate: O-Terphenyl	*243 %*	*SM*	*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC4 T 0-0.5ft
Date Sampled: 08/06/13 11:42
Percent Solids: 37

ESS Laboratory Work Order: 1308109
ESS Laboratory Sample ID: 1308109-14
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (2.5)		6020A		50	SVD	08/12/13 18:01	5.43	100	CH30856
Arsenic	**57.3** (12.3)		6010B		5	JP	08/10/13 19:07	5.43	100	CH30856
Barium	**97.6** (12.3)		6010B		5	JP	08/10/13 19:07	5.43	100	CH30856
Beryllium	**0.79** (0.52)		6010B		5	JP	08/10/13 19:07	5.43	100	CH30856
Cadmium	ND (2.48)		6010B		5	JP	08/10/13 19:07	5.43	100	CH30856
Chromium	**106** (4.9)		6010B		5	JP	08/10/13 19:07	5.43	100	CH30856
Lead	**336** (24.7)		6010B		5	JP	08/10/13 19:07	5.43	100	CH30856
Mercury	**0.803** (0.209)		7471B		5	JP	08/12/13 20:11	1.27	40	CH30931
Nickel	**34.9** (12.3)		6010B		5	JP	08/10/13 19:07	5.43	100	CH30856
Selenium	**3.08** (2.48)		6020A		50	SVD	08/12/13 18:01	5.43	100	CH30856
Silver	**4.40** (2.48)		6010B		5	JP	08/10/13 19:07	5.43	100	CH30856
Thallium	ND (2.48)		6020A		50	SVD	08/12/13 18:01	5.43	100	CH30856
Vanadium	**109** (4.9)		6010B		5	JP	08/10/13 19:07	5.43	100	CH30856
Zinc	**648** (12.3)		6010B		5	JP	08/10/13 19:07	5.43	100	CH30856

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC4 T 0-0.5ft
Date Sampled: 08/06/13 11:42
Percent Solids: 37
Initial Volume: 19.6
Final Volume: 5
Extraction Method: 3540

ESS Laboratory Work Order: 1308109
ESS Laboratory Sample ID: 1308109-14
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 8/9/13 16:45
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0684)		8082A		1	08/14/13 14:07		CH30839
Aroclor 1221	ND (0.0684)		8082A		1	08/14/13 14:07		CH30839
Aroclor 1232	ND (0.0684)		8082A		1	08/14/13 14:07		CH30839
Aroclor 1242	ND (0.0684)		8082A		1	08/14/13 14:07		CH30839
Aroclor 1248	**1.11** (0.0684)		8082A		1	08/14/13 14:07		CH30839
Aroclor 1254	**1.25** (0.0684)		8082A		1	08/14/13 14:07		CH30839
Aroclor 1260	**0.533** (0.0684)		8082A		1	08/14/13 14:07		CH30839
Aroclor 1262	ND (0.0684)		8082A		1	08/14/13 14:07		CH30839
Aroclor 1268	ND (0.0684)		8082A		1	08/14/13 14:07		CH30839

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*90 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*124 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*77 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*57 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC4 T 0-0.5ft
Date Sampled: 08/06/13 11:42
Percent Solids: 37
Initial Volume: 15.1
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308109
ESS Laboratory Sample ID: 1308109-14
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 8/9/13 19:05

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (4.43)		8270D		5	08/11/13 21:23	CWH0140	CH30921
1,2-Dichlorobenzene	ND (4.43)		8270D		5	08/11/13 21:23	CWH0140	CH30921
1,3-Dichlorobenzene	ND (4.43)		8270D		5	08/11/13 21:23	CWH0140	CH30921
1,4-Dichlorobenzene	ND (4.43)		8270D		5	08/11/13 21:23	CWH0140	CH30921
2-Methylnaphthalene	ND (4.43)		8270D		5	08/11/13 21:23	CWH0140	CH30921
2-Methylphenol	ND (4.43)		8270D		5	08/11/13 21:23	CWH0140	CH30921
Acenaphthene	ND (4.43)		8270D		5	08/11/13 21:23	CWH0140	CH30921
Acenaphthylene	ND (4.43)		8270D		5	08/11/13 21:23	CWH0140	CH30921
Anthracene	ND (4.43)		8270D		5	08/11/13 21:23	CWH0140	CH30921
Benzo(a)anthracene	ND (4.43)		8270D		5	08/11/13 21:23	CWH0140	CH30921
Benzo(a)pyrene	ND (2.22)		8270D		5	08/11/13 21:23	CWH0140	CH30921
Benzo(b)fluoranthene	ND (4.43)		8270D		5	08/11/13 21:23	CWH0140	CH30921
Benzo(g,h,i)perylene	ND (4.43)		8270D		5	08/11/13 21:23	CWH0140	CH30921
Benzo(k)fluoranthene	ND (4.43)		8270D		5	08/11/13 21:23	CWH0140	CH30921
bis(2-Ethylhexyl)phthalate	**534** (44.3)		8270D		50	08/12/13 13:49	CWH0140	CH30921
Butylbenzylphthalate	ND (4.43)		8270D		5	08/11/13 21:23	CWH0140	CH30921
Carbazole	ND (4.43)		8270D		5	08/11/13 21:23	CWH0140	CH30921
Chrysene	ND (2.22)		8270D		5	08/11/13 21:23	CWH0140	CH30921
Dibenzo(a,h)Anthracene	ND (2.22)		8270D		5	08/11/13 21:23	CWH0140	CH30921
Dibenzofuran	ND (4.43)		8270D		5	08/11/13 21:23	CWH0140	CH30921
Diethylphthalate	ND (4.43)		8270D		5	08/11/13 21:23	CWH0140	CH30921
Dimethylphthalate	ND (4.43)		8270D		5	08/11/13 21:23	CWH0140	CH30921
Di-n-butylphthalate	ND (4.43)		8270D		5	08/11/13 21:23	CWH0140	CH30921
Di-n-octylphthalate	**5.15** (4.43)		8270D		5	08/11/13 21:23	CWH0140	CH30921
Fluoranthene	ND (4.43)		8270D		5	08/11/13 21:23	CWH0140	CH30921
Fluorene	ND (4.43)		8270D		5	08/11/13 21:23	CWH0140	CH30921
Hexachlorobenzene	ND (4.43)		8270D		5	08/11/13 21:23	CWH0140	CH30921
Hexachlorocyclopentadiene	ND (22.2)		8270D		5	08/11/13 21:23	CWH0140	CH30921
Indeno(1,2,3-cd)Pyrene	ND (4.43)		8270D		5	08/11/13 21:23	CWH0140	CH30921
Naphthalene	ND (4.43)		8270D		5	08/11/13 21:23	CWH0140	CH30921
Phenanthrene	ND (4.43)		8270D		5	08/11/13 21:23	CWH0140	CH30921

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC4 T 0-0.5ft
Date Sampled: 08/06/13 11:42
Percent Solids: 37
Initial Volume: 15.1
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308109
ESS Laboratory Sample ID: 1308109-14
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 8/9/13 19:05

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Phenol	ND (4.43)		8270D		5	08/11/13 21:23	CWH0140	CH30921
Pyrene	ND (4.43)		8270D		5	08/11/13 21:23	CWH0140	CH30921

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*55 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*35 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*58 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*60 %*		*30-130*
Surrogate: 2-Fluorophenol	*61 %*		*30-130*
Surrogate: Nitrobenzene-d5	*55 %*		*30-130*
Surrogate: Phenol-d6	*59 %*		*30-130*
Surrogate: p-Terphenyl-d14	*75 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC4 T 0-0.5ft
Date Sampled: 08/06/13 11:42
Percent Solids: 37
Initial Volume: 15.7
Final Volume: 0.5
Extraction Method: 3541

ESS Laboratory Work Order: 1308109
ESS Laboratory Sample ID: 1308109-14
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 8/9/13 10:30

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	ND (0.107)		8270D		5	08/11/13 15:29	CWH0139	CH30903
Acenaphthene	ND (0.107)		8270D		5	08/11/13 15:29	CWH0139	CH30903
Acenaphthylene	ND (0.107)		8270D		5	08/11/13 15:29	CWH0139	CH30903
Anthracene	**0.119** (0.107)		8270D		5	08/11/13 15:29	CWH0139	CH30903
Benzo(a)anthracene	**0.282** (0.107)		8270D		5	08/11/13 15:29	CWH0139	CH30903
Benzo(a)pyrene	**0.346** (0.107)		8270D		5	08/11/13 15:29	CWH0139	CH30903
Benzo(b)fluoranthene	**0.444** (0.107)		8270D		5	08/11/13 15:29	CWH0139	CH30903
Benzo(g,h,i)perylene	**0.290** (0.107)		8270D		5	08/11/13 15:29	CWH0139	CH30903
Benzo(k)fluoranthene	**0.171** (0.107)		8270D		5	08/11/13 15:29	CWH0139	CH30903
Chrysene	**0.350** (0.107)		8270D		5	08/11/13 15:29	CWH0139	CH30903
Dibenzo(a,h)Anthracene	**0.196** (0.107)		8270D		5	08/11/13 15:29	CWH0139	CH30903
Fluoranthene	**0.538** (0.107)		8270D		5	08/11/13 15:29	CWH0139	CH30903
Fluorene	ND (0.107)		8270D		5	08/11/13 15:29	CWH0139	CH30903
Indeno(1,2,3-cd)Pyrene	**0.346** (0.107)		8270D		5	08/11/13 15:29	CWH0139	CH30903
Naphthalene	**0.145** (0.107)		8270D		5	08/11/13 15:29	CWH0139	CH30903
Phenanthrene	**0.341** (0.107)		8270D		5	08/11/13 15:29	CWH0139	CH30903
Pyrene	**0.525** (0.107)		8270D		5	08/11/13 15:29	CWH0139	CH30903

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*45 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*54 %*		*30-130*
Surrogate: Nitrobenzene-d5	*50 %*		*30-130*
Surrogate: p-Terphenyl-d14	*82 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC4 T 0-0.5ft
Date Sampled: 08/06/13 11:42
Percent Solids: 37

ESS Laboratory Work Order: 1308109
ESS Laboratory Sample ID: 1308109-14
Sample Matrix: Soil

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**58700** (2500)		TOC-LK		1	SUB	08/14/13 17:24	mg/kg	CH32011

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC4 T 0-0.5ft
Date Sampled: 08/06/13 11:42
Percent Solids: 37
Initial Volume: 15.5
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1308109
ESS Laboratory Sample ID: 1308109-14
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 8/9/13 15:00

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	**81.6** (64.8)		MADEP-EPH		1	SEP	08/11/13 13:32	CWH0134	CH30919
C19-C36 Aliphatics1	**721** (64.8)		MADEP-EPH		1	SEP	08/11/13 13:32	CWH0134	CH30919
C11-C22 Unadjusted Aromatics1	**446** (64.8)		EPH8270		1	VSC	08/12/13 21:52	CWH0145	CH30919
C11-C22 Aromatics1,2	**433** (64.8)		EPH8270			VSC	08/12/13 21:52		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*75 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*112 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*108 %*		*40-140*
Surrogate: O-Terphenyl	*88 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC4 0.5-2ft
Date Sampled: 08/05/13 14:25
Percent Solids: 44

ESS Laboratory Work Order: 1308109
ESS Laboratory Sample ID: 1308109-15
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	**3.2** (2.2)		6020A		50	SVD	08/12/13 18:07	5.27	100	CH30856
Arsenic	**70.8** (10.8)		6010B		5	JP	08/10/13 19:13	5.27	100	CH30856
Barium	**84.2** (10.8)		6010B		5	JP	08/10/13 19:13	5.27	100	CH30856
Beryllium	**0.54** (0.45)		6010B		5	JP	08/10/13 19:13	5.27	100	CH30856
Cadmium	**2.60** (2.16)		6010B		5	JP	08/10/13 19:13	5.27	100	CH30856
Chromium	**84.7** (4.3)		6010B		5	JP	08/10/13 19:13	5.27	100	CH30856
Lead	**337** (21.5)		6010B		5	JP	08/10/13 19:13	5.27	100	CH30856
Mercury	**1.08** (0.168)		7471B		5	JP	08/12/13 20:14	1.34	40	CH30931
Nickel	**41.5** (10.8)		6010B		5	JP	08/10/13 19:13	5.27	100	CH30856
Selenium	**3.79** (2.16)		6020A		50	SVD	08/12/13 18:07	5.27	100	CH30856
Silver	**5.02** (2.16)		6010B		5	JP	08/10/13 19:13	5.27	100	CH30856
Thallium	ND (2.16)		6020A		50	SVD	08/12/13 18:07	5.27	100	CH30856
Vanadium	**180** (4.3)		6010B		5	JP	08/10/13 19:13	5.27	100	CH30856
Zinc	**611** (10.8)		6010B		5	JP	08/10/13 19:13	5.27	100	CH30856

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC4 0.5-2ft
Date Sampled: 08/05/13 14:25
Percent Solids: 44
Initial Volume: 19.6
Final Volume: 5
Extraction Method: 3540

ESS Laboratory Work Order: 1308109
ESS Laboratory Sample ID: 1308109-15
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 8/9/13 17:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0579)		8082A		1	08/13/13 19:57		CH30937
Aroclor 1221	ND (0.0579)		8082A		1	08/13/13 19:57		CH30937
Aroclor 1232	ND (0.0579)		8082A		1	08/13/13 19:57		CH30937
Aroclor 1242	ND (0.0579)		8082A		1	08/13/13 19:57		CH30937
Aroclor 1248	**7.75** (0.579)		8082A		10	08/14/13 18:11		CH30937
Aroclor 1254	**10.1** (0.579)		8082A		10	08/14/13 18:11		CH30937
Aroclor 1260	ND (0.0579)		8082A		1	08/13/13 19:57		CH30937
Aroclor 1262	ND (0.0579)		8082A		1	08/13/13 19:57		CH30937
Aroclor 1268	ND (0.0579)		8082A		1	08/13/13 19:57		CH30937

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*152 %*	*S+*	*30-150*
Surrogate: Decachlorobiphenyl [2C]	*86 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*85 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*60 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC4 0.5-2ft
Date Sampled: 08/05/13 14:25
Percent Solids: 44
Initial Volume: 15.3
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308109
ESS Laboratory Sample ID: 1308109-15
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 8/9/13 19:05

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.741)		8270D		1	08/12/13 12:40	CWH0147	CH30921
1,2-Dichlorobenzene	ND (0.741)		8270D		1	08/12/13 12:40	CWH0147	CH30921
1,3-Dichlorobenzene	ND (0.741)		8270D		1	08/12/13 12:40	CWH0147	CH30921
1,4-Dichlorobenzene	ND (0.741)		8270D		1	08/12/13 12:40	CWH0147	CH30921
2-Methylnaphthalene	ND (0.741)		8270D		1	08/12/13 12:40	CWH0147	CH30921
2-Methylphenol	ND (0.741)		8270D		1	08/12/13 12:40	CWH0147	CH30921
Acenaphthene	ND (0.741)		8270D		1	08/12/13 12:40	CWH0147	CH30921
Acenaphthylene	ND (0.741)		8270D		1	08/12/13 12:40	CWH0147	CH30921
Anthracene	ND (0.741)		8270D		1	08/12/13 12:40	CWH0147	CH30921
Benzo(a)anthracene	**0.799** (0.741)		8270D		1	08/12/13 12:40	CWH0147	CH30921
Benzo(a)pyrene	**1.46** (0.371)		8270D		1	08/12/13 12:40	CWH0147	CH30921
Benzo(b)fluoranthene	**2.38** (0.741)		8270D		1	08/12/13 12:40	CWH0147	CH30921
Benzo(g,h,i)perylene	ND (0.741)		8270D		1	08/12/13 12:40	CWH0147	CH30921
Benzo(k)fluoranthene	**1.43** (0.741)		8270D		1	08/12/13 12:40	CWH0147	CH30921
bis(2-Ethylhexyl)phthalate	**6190** (741)		8270D		1000	08/12/13 22:43	CWH0147	CH30921
Butylbenzylphthalate	**2.03** (0.741)		8270D		1	08/12/13 12:40	CWH0147	CH30921
Carbazole	ND (0.741)		8270D		1	08/12/13 12:40	CWH0147	CH30921
Chrysene	**1.79** (0.371)		8270D		1	08/12/13 12:40	CWH0147	CH30921
Dibenzo(a,h)Anthracene	ND (0.371)		8270D		1	08/12/13 12:40	CWH0147	CH30921
Dibenzofuran	ND (0.741)		8270D		1	08/12/13 12:40	CWH0147	CH30921
Diethylphthalate	ND (0.741)		8270D		1	08/12/13 12:40	CWH0147	CH30921
Dimethylphthalate	ND (0.741)		8270D		1	08/12/13 12:40	CWH0147	CH30921
Di-n-butylphthalate	ND (0.741)		8270D		1	08/12/13 12:40	CWH0147	CH30921
Di-n-octylphthalate	**156** (74.1)		8270D		100	08/12/13 22:10	CWH0147	CH30921
Fluoranthene	**2.56** (0.741)		8270D		1	08/12/13 12:40	CWH0147	CH30921
Fluorene	ND (0.741)		8270D		1	08/12/13 12:40	CWH0147	CH30921
Hexachlorobenzene	ND (0.741)		8270D		1	08/12/13 12:40	CWH0147	CH30921
Hexachlorocyclopentadiene	ND (3.71)		8270D		1	08/12/13 12:40	CWH0147	CH30921
Indeno(1,2,3-cd)Pyrene	ND (0.741)		8270D		1	08/12/13 12:40	CWH0147	CH30921
Naphthalene	**2.55** (0.741)		8270D		1	08/12/13 12:40	CWH0147	CH30921
Phenanthrene	**1.24** (0.741)		8270D		1	08/12/13 12:40	CWH0147	CH30921

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC4 0.5-2ft
Date Sampled: 08/05/13 14:25
Percent Solids: 44
Initial Volume: 15.3
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308109
ESS Laboratory Sample ID: 1308109-15
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 8/9/13 19:05

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Phenol	ND (0.741)		8270D		1	08/12/13 12:40	CWH0147	CH30921
Pyrene	**2.19** (0.741)		8270D		1	08/12/13 12:40	CWH0147	CH30921

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*42 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*63 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*47 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*58 %*		*30-130*
Surrogate: 2-Fluorophenol	*43 %*		*30-130*
Surrogate: Nitrobenzene-d5	*51 %*		*30-130*
Surrogate: Phenol-d6	*54 %*		*30-130*
Surrogate: p-Terphenyl-d14	*60 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC4 0.5-2ft
Date Sampled: 08/05/13 14:25
Percent Solids: 44
Initial Volume: 15.31
Final Volume: 0.5
Extraction Method: 3541

ESS Laboratory Work Order: 1308109
ESS Laboratory Sample ID: 1308109-15
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 8/10/13 9:00

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	**0.104** (0.093)		8270D		5	08/13/13 3:43	CWH0159	CH31001
Acenaphthene	**0.126** (0.093)		8270D		5	08/13/13 3:43	CWH0159	CH31001
Acenaphthylene	**0.152** (0.093)		8270D		5	08/13/13 3:43	CWH0159	CH31001
Anthracene	**0.296** (0.093)		8270D		5	08/13/13 3:43	CWH0159	CH31001
Benzo(a)anthracene	**0.204** (0.093)		8270D		5	08/13/13 3:43	CWH0159	CH31001
Benzo(a)pyrene	**0.619** (0.093)		8270D		5	08/13/13 3:43	CWH0159	CH31001
Benzo(b)fluoranthene	**0.974** (0.093)		8270D		5	08/13/13 3:43	CWH0159	CH31001
Benzo(g,h,i)perylene	**0.541** (0.093)		8270D		5	08/13/13 3:43	CWH0159	CH31001
Benzo(k)fluoranthene	**0.341** (0.093)		8270D		5	08/13/13 3:43	CWH0159	CH31001
Chrysene	**0.611** (0.093)		8270D		5	08/13/13 3:43	CWH0159	CH31001
Dibenzo(a,h)Anthracene	**0.156** (0.093)		8270D		5	08/13/13 3:43	CWH0159	CH31001
Fluoranthene	**0.908** (0.093)		8270D		5	08/13/13 3:43	CWH0159	CH31001
Fluorene	**0.185** (0.093)		8270D		5	08/13/13 3:43	CWH0159	CH31001
Indeno(1,2,3-cd)Pyrene	**0.578** (0.093)		8270D		5	08/13/13 3:43	CWH0159	CH31001
Naphthalene	**0.600** (0.093)		8270D		5	08/13/13 3:43	CWH0159	CH31001
Phenanthrene	**0.833** (0.093)		8270D		5	08/13/13 3:43	CWH0159	CH31001
Pyrene	**0.915** (0.093)		8270D		5	08/13/13 3:43	CWH0159	CH31001

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*44 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*54 %*		*30-130*
Surrogate: Nitrobenzene-d5	*59 %*		*30-130*
Surrogate: p-Terphenyl-d14	*90 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC4 0.5-2ft
Date Sampled: 08/05/13 14:25
Percent Solids: 44
Initial Volume: 14.9
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1308109
ESS Laboratory Sample ID: 1308109-15
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 8/12/13 10:00

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	**263** (57.1)		MADEP-EPH		1	VSC	08/13/13 1:26	CWH0163	CH31208
C19-C36 Aliphatics1	**798** (57.1)		MADEP-EPH		1	VSC	08/13/13 1:26	CWH0163	CH31208
C11-C22 Unadjusted Aromatics1	**1850** (285)		EPH8270		5	VSC	08/14/13 0:49	CWH0181	CH31208
C11-C22 Aromatics1,2	**1850** (285)		EPH8270			VSC	08/14/13 0:49		[CALC]

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1-Chlorooctadecane	*82 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*90 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*86 %*		*40-140*
Surrogate: O-Terphenyl	*162 %*	*SM*	*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC4 2-4ft
Date Sampled: 08/05/13 14:25
Percent Solids: 41

ESS Laboratory Work Order: 1308109
ESS Laboratory Sample ID: 1308109-16
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	**2.5** (2.4)		6020A		50	SVD	08/12/13 18:13	5.06	100	CH30856
Arsenic	**32.1** (12.1)		6010B		5	JP	08/10/13 19:18	5.06	100	CH30856
Barium	**62.5** (12.1)		6010B		5	JP	08/10/13 19:18	5.06	100	CH30856
Beryllium	ND (0.51)		6010B		5	JP	08/10/13 19:18	5.06	100	CH30856
Cadmium	ND (2.43)		6010B		5	JP	08/10/13 19:18	5.06	100	CH30856
Chromium	**33.7** (4.8)		6010B		5	JP	08/10/13 19:18	5.06	100	CH30856
Lead	**135** (24.2)		6010B		5	JP	08/10/13 19:18	5.06	100	CH30856
Mercury	**0.533** (0.206)		7471B		5	JP	08/12/13 20:17	1.18	40	CH30931
Nickel	**17.0** (12.1)		6010B		5	JP	08/10/13 19:18	5.06	100	CH30856
Selenium	ND (2.43)		6020A		50	SVD	08/12/13 18:13	5.06	100	CH30856
Silver	**2.75** (2.43)		6010B		5	JP	08/10/13 19:18	5.06	100	CH30856
Thallium	ND (2.43)		6020A		50	SVD	08/12/13 18:13	5.06	100	CH30856
Vanadium	**112** (4.8)		6010B		5	JP	08/10/13 19:18	5.06	100	CH30856
Zinc	**321** (12.1)		6010B		5	JP	08/10/13 19:18	5.06	100	CH30856

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC4 2-4ft
Date Sampled: 08/05/13 14:25
Percent Solids: 41
Initial Volume: 20.3
Final Volume: 5
Extraction Method: 3540

ESS Laboratory Work Order: 1308109
ESS Laboratory Sample ID: 1308109-16
Sample Matrix: Soil
Units: mg/kg dry
Analyst: ML
Prepared: 8/9/13 17:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (2.42)		8082A		40	08/15/13 12:46		CH30937
Aroclor 1221	ND (2.42)		8082A		40	08/15/13 12:46		CH30937
Aroclor 1232	ND (2.42)		8082A		40	08/15/13 12:46		CH30937
Aroclor 1242	ND (2.42)		8082A		40	08/15/13 12:46		CH30937
Aroclor 1248	**14.3** (2.42)		8082A		40	08/15/13 12:46		CH30937
Aroclor 1254	**22.7** (2.42)		8082A		40	08/15/13 12:46		CH30937
Aroclor 1260	ND (2.42)		8082A		40	08/15/13 12:46		CH30937
Aroclor 1262	ND (2.42)		8082A		40	08/15/13 12:46		CH30937
Aroclor 1268	ND (2.42)		8082A		40	08/15/13 12:46		CH30937

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	%	SD	30-150
Surrogate: Decachlorobiphenyl [2C]	%	SD	30-150
Surrogate: Tetrachloro-m-xylene	%	SD	30-150
Surrogate: Tetrachloro-m-xylene [2C]	%	SD	30-150

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC4 2-4ft
Date Sampled: 08/05/13 14:25
Percent Solids: 41
Initial Volume: 15.1
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308109
ESS Laboratory Sample ID: 1308109-16
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 8/9/13 19:05

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (8.11)		8270D		10	08/12/13 19:26	CWH0143	CH30921
1,2-Dichlorobenzene	ND (8.11)		8270D		10	08/12/13 19:26	CWH0143	CH30921
1,3-Dichlorobenzene	ND (8.11)		8270D		10	08/12/13 19:26	CWH0143	CH30921
1,4-Dichlorobenzene	ND (8.11)		8270D		10	08/12/13 19:26	CWH0143	CH30921
2-Methylnaphthalene	ND (8.11)		8270D		10	08/12/13 19:26	CWH0143	CH30921
2-Methylphenol	ND (8.11)		8270D		10	08/12/13 19:26	CWH0143	CH30921
Acenaphthene	ND (8.11)		8270D		10	08/12/13 19:26	CWH0143	CH30921
Acenaphthylene	ND (8.11)		8270D		10	08/12/13 19:26	CWH0143	CH30921
Anthracene	ND (8.11)		8270D		10	08/12/13 19:26	CWH0143	CH30921
Benzo(a)anthracene	ND (8.11)		8270D		10	08/12/13 19:26	CWH0143	CH30921
Benzo(a)pyrene	ND (4.07)		8270D		10	08/12/13 19:26	CWH0143	CH30921
Benzo(b)fluoranthene	ND (8.11)		8270D		10	08/12/13 19:26	CWH0143	CH30921
Benzo(g,h,i)perylene	ND (8.11)		8270D		10	08/12/13 19:26	CWH0143	CH30921
Benzo(k)fluoranthene	ND (8.11)		8270D		10	08/12/13 19:26	CWH0143	CH30921
bis(2-Ethylhexyl)phthalate	**4280** (811)		8270D		1000	08/12/13 20:33	CWH0143	CH30921
Butylbenzylphthalate	**118** (8.11)		8270D		10	08/12/13 19:26	CWH0143	CH30921
Carbazole	ND (8.11)		8270D		10	08/12/13 19:26	CWH0143	CH30921
Chrysene	ND (4.07)		8270D		10	08/12/13 19:26	CWH0143	CH30921
Dibenzo(a,h)Anthracene	ND (4.07)		8270D		10	08/12/13 19:26	CWH0143	CH30921
Dibenzofuran	ND (8.11)		8270D		10	08/12/13 19:26	CWH0143	CH30921
Diethylphthalate	ND (8.11)		8270D		10	08/12/13 19:26	CWH0143	CH30921
Dimethylphthalate	ND (8.11)		8270D		10	08/12/13 19:26	CWH0143	CH30921
Di-n-butylphthalate	ND (8.11)		8270D		10	08/12/13 19:26	CWH0143	CH30921
Di-n-octylphthalate	**1080** (811)		8270D		1000	08/12/13 20:33	CWH0143	CH30921
Fluoranthene	ND (8.11)		8270D		10	08/12/13 19:26	CWH0143	CH30921
Fluorene	ND (8.11)		8270D		10	08/12/13 19:26	CWH0143	CH30921
Hexachlorobenzene	ND (8.11)		8270D		10	08/12/13 19:26	CWH0143	CH30921
Hexachlorocyclopentadiene	ND (40.7)		8270D		10	08/12/13 19:26	CWH0143	CH30921
Indeno(1,2,3-cd)Pyrene	ND (8.11)		8270D		10	08/12/13 19:26	CWH0143	CH30921
Naphthalene	**713** (81.1)		8270D		100	08/12/13 19:59	CWH0143	CH30921
Phenanthrene	ND (8.11)		8270D		10	08/12/13 19:26	CWH0143	CH30921

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC4 2-4ft
Date Sampled: 08/05/13 14:25
Percent Solids: 41
Initial Volume: 15.1
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308109
ESS Laboratory Sample ID: 1308109-16
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 8/9/13 19:05

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Phenol	ND (8.11)		8270D		10	08/12/13 19:26	CWH0143	CH30921
Pyrene	ND (8.11)		8270D		10	08/12/13 19:26	CWH0143	CH30921

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*45 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*61 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*48 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*68 %*		*30-130*
Surrogate: 2-Fluorophenol	*46 %*		*30-130*
Surrogate: Nitrobenzene-d5	*116 %*		*30-130*
Surrogate: Phenol-d6	*51 %*		*30-130*
Surrogate: p-Terphenyl-d14	*102 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC4 2-4ft
Date Sampled: 08/05/13 14:25
Percent Solids: 41
Initial Volume: 15.8
Final Volume: 0.5
Extraction Method: 3541

ESS Laboratory Work Order: 1308109
ESS Laboratory Sample ID: 1308109-16
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 8/10/13 9:00

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	**0.543** (0.485)		8270D		25	08/15/13 0:53	CWH0193	CH31001
Acenaphthene	ND (0.485)		8270D		25	08/15/13 0:53	CWH0193	CH31001
Acenaphthylene	ND (0.485)		8270D		25	08/15/13 0:53	CWH0193	CH31001
Anthracene	ND (0.485)		8270D		25	08/15/13 0:53	CWH0193	CH31001
Benzo(a)anthracene	**1.03** (0.485)		8270D		25	08/15/13 0:53	CWH0193	CH31001
Benzo(a)pyrene	ND (0.485)		8270D		25	08/15/13 0:53	CWH0193	CH31001
Benzo(b)fluoranthene	**1.22** (0.485)		8270D		25	08/15/13 0:53	CWH0193	CH31001
Benzo(g,h,i)perylene	ND (0.485)		8270D		25	08/15/13 0:53	CWH0193	CH31001
Benzo(k)fluoranthene	**1.38** (0.485)		8270D		25	08/15/13 0:53	CWH0193	CH31001
Chrysene	**2.06** (0.485)		8270D		25	08/15/13 0:53	CWH0193	CH31001
Dibenzo(a,h)Anthracene	ND (0.485)		8270D		25	08/15/13 0:53	CWH0193	CH31001
Fluoranthene	**1.94** (0.485)		8270D		25	08/15/13 0:53	CWH0193	CH31001
Fluorene	ND (0.485)		8270D		25	08/15/13 0:53	CWH0193	CH31001
Indeno(1,2,3-cd)Pyrene	ND (0.485)		8270D		25	08/15/13 0:53	CWH0193	CH31001
Naphthalene	**26.4** (0.485)		8270D		25	08/15/13 0:53	CWH0193	CH31001
Phenanthrene	**0.989** (0.485)		8270D		25	08/15/13 0:53	CWH0193	CH31001
Pyrene	**0.834** (0.485)		8270D		25	08/15/13 0:53	CWH0193	CH31001

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*95 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*40 %*		*30-130*
Surrogate: Nitrobenzene-d5	*118 %*		*30-130*
Surrogate: p-Terphenyl-d14	*53 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC4 2-4ft
Date Sampled: 08/05/13 14:25
Percent Solids: 41
Initial Volume: 14.9
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1308109
ESS Laboratory Sample ID: 1308109-16
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 8/12/13 10:00

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	**1510** (61.7)		MADEP-EPH		1	VSC	08/13/13 2:17	CWH0163	CH31208
C19-C36 Aliphatics1	**284** (61.7)		MADEP-EPH		1	VSC	08/13/13 2:17	CWH0163	CH31208
C11-C22 Unadjusted Aromatics1	**2070** (617)		EPH8270		10	VSC	08/14/13 1:36	CWH0181	CH31208
C11-C22 Aromatics1,2	**2000** (617)		EPH8270			VSC	08/14/13 1:36		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*80 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*52 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*49 %*		*40-140*
Surrogate: O-Terphenyl	*246 %*	*SM*	*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC4 4-6ft
Date Sampled: 08/05/13 14:25
Percent Solids: 24

ESS Laboratory Work Order: 1308109
ESS Laboratory Sample ID: 1308109-17
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (4.0)		6020A		50	SVD	08/12/13 18:19	5.26	100	CH30856
Arsenic	**10.4** (4.0)		6010B		1	JP	08/10/13 2:31	5.26	100	CH30856
Barium	**55.4** (4.0)		6010B		1	JP	08/10/13 2:31	5.26	100	CH30856
Beryllium	**0.25** (0.17)		6010B		1	JP	08/10/13 2:31	5.26	100	CH30856
Cadmium	**1.48** (0.80)		6010B		1	JP	08/10/13 2:31	5.26	100	CH30856
Chromium	**60.3** (1.6)		6010B		1	JP	08/10/13 2:31	5.26	100	CH30856
Lead	**180** (7.9)		6010B		1	JP	08/10/13 2:31	5.26	100	CH30856
Mercury	**0.695** (0.074)		7471B		1	JP	08/12/13 20:19	1.12	40	CH30931
Nickel	**17.8** (4.0)		6010B		1	JP	08/10/13 2:31	5.26	100	CH30856
Selenium	ND (3.98)		6020A		50	SVD	08/12/13 18:19	5.26	100	CH30856
Silver	**1.41** (0.80)		6010B		1	JP	08/10/13 2:31	5.26	100	CH30856
Thallium	ND (3.98)		6020A		50	SVD	08/12/13 18:19	5.26	100	CH30856
Vanadium	**159** (1.6)		6010B		1	JP	08/10/13 2:31	5.26	100	CH30856
Zinc	ND (4.0)		6010B		1	SVD	08/11/13 20:36	5.26	100	CH30856

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC4 4-6ft
Date Sampled: 08/05/13 14:25
Percent Solids: 24
Initial Volume: 20
Final Volume: 5
Extraction Method: 3540

ESS Laboratory Work Order: 1308109
ESS Laboratory Sample ID: 1308109-17
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 8/9/13 17:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (2.08)		8082A		20	08/14/13 18:49		CH30937
Aroclor 1221	ND (2.08)		8082A		20	08/14/13 18:49		CH30937
Aroclor 1232	ND (2.08)		8082A		20	08/14/13 18:49		CH30937
Aroclor 1242	ND (2.08)		8082A		20	08/14/13 18:49		CH30937
Aroclor 1248	**20.9** (2.08)		8082A		20	08/14/13 18:49		CH30937
Aroclor 1254	**29.5** (2.08)		8082A		20	08/14/13 18:49		CH30937
Aroclor 1260	ND (2.08)		8082A		20	08/14/13 18:49		CH30937
Aroclor 1262	ND (2.08)		8082A		20	08/14/13 18:49		CH30937
Aroclor 1268	ND (2.08)		8082A		20	08/14/13 18:49		CH30937

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	%	SD	30-150
Surrogate: Decachlorobiphenyl [2C]	%	SD	30-150
Surrogate: Tetrachloro-m-xylene	%	SD	30-150
Surrogate: Tetrachloro-m-xylene [2C]	%	SD	30-150

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC4 4-6ft
Date Sampled: 08/05/13 14:25
Percent Solids: 24
Initial Volume: 15.8
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308109
ESS Laboratory Sample ID: 1308109-17
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 8/9/13 19:05

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (13.2)		8270D		10	08/12/13 21:06	CWH0143	CH30921
1,2-Dichlorobenzene	ND (13.2)		8270D		10	08/12/13 21:06	CWH0143	CH30921
1,3-Dichlorobenzene	ND (13.2)		8270D		10	08/12/13 21:06	CWH0143	CH30921
1,4-Dichlorobenzene	ND (13.2)		8270D		10	08/12/13 21:06	CWH0143	CH30921
2-Methylnaphthalene	ND (13.2)		8270D		10	08/12/13 21:06	CWH0143	CH30921
2-Methylphenol	ND (13.2)		8270D		10	08/12/13 21:06	CWH0143	CH30921
Acenaphthene	ND (13.2)		8270D		10	08/12/13 21:06	CWH0143	CH30921
Acenaphthylene	ND (13.2)		8270D		10	08/12/13 21:06	CWH0143	CH30921
Anthracene	ND (13.2)		8270D		10	08/12/13 21:06	CWH0143	CH30921
Benzo(a)anthracene	ND (13.2)		8270D		10	08/12/13 21:06	CWH0143	CH30921
Benzo(a)pyrene	ND (6.60)		8270D		10	08/12/13 21:06	CWH0143	CH30921
Benzo(b)fluoranthene	ND (13.2)		8270D		10	08/12/13 21:06	CWH0143	CH30921
Benzo(g,h,i)perylene	ND (13.2)		8270D		10	08/12/13 21:06	CWH0143	CH30921
Benzo(k)fluoranthene	ND (13.2)		8270D		10	08/12/13 21:06	CWH0143	CH30921
bis(2-Ethylhexyl)phthalate	**15400** (1320)		8270D		1000	08/12/13 22:14	CWH0143	CH30921
Butylbenzylphthalate	**14.3** (13.2)		8270D		10	08/12/13 21:06	CWH0143	CH30921
Carbazole	ND (13.2)		8270D		10	08/12/13 21:06	CWH0143	CH30921
Chrysene	ND (6.60)		8270D		10	08/12/13 21:06	CWH0143	CH30921
Dibenzo(a,h)Anthracene	ND (6.60)		8270D		10	08/12/13 21:06	CWH0143	CH30921
Dibenzofuran	ND (13.2)		8270D		10	08/12/13 21:06	CWH0143	CH30921
Diethylphthalate	ND (13.2)		8270D		10	08/12/13 21:06	CWH0143	CH30921
Dimethylphthalate	ND (13.2)		8270D		10	08/12/13 21:06	CWH0143	CH30921
Di-n-butylphthalate	ND (13.2)		8270D		10	08/12/13 21:06	CWH0143	CH30921
Di-n-octylphthalate	**4370** (1320)		8270D		1000	08/12/13 22:14	CWH0143	CH30921
Fluoranthene	ND (13.2)		8270D		10	08/12/13 21:06	CWH0143	CH30921
Fluorene	ND (13.2)		8270D		10	08/12/13 21:06	CWH0143	CH30921
Hexachlorobenzene	ND (13.2)		8270D		10	08/12/13 21:06	CWH0143	CH30921
Hexachlorocyclopentadiene	ND (66.0)		8270D		10	08/12/13 21:06	CWH0143	CH30921
Indeno(1,2,3-cd)Pyrene	ND (13.2)		8270D		10	08/12/13 21:06	CWH0143	CH30921
Naphthalene	ND (13.2)		8270D		10	08/12/13 21:06	CWH0143	CH30921
Phenanthrene	ND (13.2)		8270D		10	08/12/13 21:06	CWH0143	CH30921

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC4 4-6ft
Date Sampled: 08/05/13 14:25
Percent Solids: 24
Initial Volume: 15.8
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308109
ESS Laboratory Sample ID: 1308109-17
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 8/9/13 19:05

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Phenol	ND (13.2)		8270D		10	08/12/13 21:06	CWH0143	CH30921
Pyrene	ND (13.2)		8270D		10	08/12/13 21:06	CWH0143	CH30921

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*54 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*72 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*54 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*83 %*		*30-130*
Surrogate: 2-Fluorophenol	*47 %*		*30-130*
Surrogate: Nitrobenzene-d5	*86 %*		*30-130*
Surrogate: Phenol-d6	*63 %*		*30-130*
Surrogate: p-Terphenyl-d14	*107 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC4 4-6ft
Date Sampled: 08/05/13 14:25
Percent Solids: 24
Initial Volume: 15.4
Final Volume: 0.5
Extraction Method: 3541

ESS Laboratory Work Order: 1308109
ESS Laboratory Sample ID: 1308109-17
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 8/10/13 9:00

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	**0.372** (0.169)		8270D		5	08/13/13 5:23	CWH0159	CH31001
Acenaphthene	ND (0.169)		8270D		5	08/13/13 5:23	CWH0159	CH31001
Acenaphthylene	ND (0.169)		8270D		5	08/13/13 5:23	CWH0159	CH31001
Anthracene	ND (0.169)		8270D		5	08/13/13 5:23	CWH0159	CH31001
Benzo(a)anthracene	ND (0.169)		8270D		5	08/13/13 5:23	CWH0159	CH31001
Benzo(a)pyrene	ND (0.169)		8270D		5	08/13/13 5:23	CWH0159	CH31001
Benzo(b)fluoranthene	**0.169** (0.169)		8270D		5	08/13/13 5:23	CWH0159	CH31001
Benzo(g,h,i)perylene	ND (0.169)		8270D		5	08/13/13 5:23	CWH0159	CH31001
Benzo(k)fluoranthene	ND (0.169)		8270D		5	08/13/13 5:23	CWH0159	CH31001
Chrysene	**0.203** (0.169)		8270D		5	08/13/13 5:23	CWH0159	CH31001
Dibenzo(a,h)Anthracene	ND (0.169)		8270D		5	08/13/13 5:23	CWH0159	CH31001
Fluoranthene	**0.298** (0.169)		8270D		5	08/13/13 5:23	CWH0159	CH31001
Fluorene	**0.169** (0.169)		8270D		5	08/13/13 5:23	CWH0159	CH31001
Indeno(1,2,3-cd)Pyrene	ND (0.169)		8270D		5	08/13/13 5:23	CWH0159	CH31001
Naphthalene	**4.37** (0.169)		8270D		5	08/13/13 5:23	CWH0159	CH31001
Phenanthrene	**0.379** (0.169)		8270D		5	08/13/13 5:23	CWH0159	CH31001
Pyrene	**0.264** (0.169)		8270D		5	08/13/13 5:23	CWH0159	CH31001

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*55 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*59 %*		*30-130*
Surrogate: Nitrobenzene-d5	*130 %*		*30-130*
Surrogate: p-Terphenyl-d14	*79 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC4 4-6ft
Date Sampled: 08/05/13 14:25
Percent Solids: 24
Initial Volume: 15
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1308109
ESS Laboratory Sample ID: 1308109-17
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 8/12/13 10:00

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	**3090** (521)		MADEP-EPH		5	VSC	08/13/13 19:09	CWH0163	CH31208
C19-C36 Aliphatics1	ND (521)		MADEP-EPH		5	VSC	08/13/13 19:09	CWH0163	CH31208
C11-C22 Unadjusted Aromatics1	ND (521)		EPH8270		5	VSC	08/14/13 2:23	CWH0181	CH31208
C11-C22 Aromatics1,2	ND (521)		EPH8270			VSC	08/14/13 2:23		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*83 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*74 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*71 %*		*40-140*
Surrogate: O-Terphenyl	*173 %*	*SM*	*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC5 0-0.5ft
Date Sampled: 08/05/13 14:50
Percent Solids: 16

ESS Laboratory Work Order: 1308109
ESS Laboratory Sample ID: 1308109-18
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (6.3)		6020A		50	SVD	08/12/13 18:25	5.14	100	CH30856
Arsenic	**19.6** (6.2)		6010B		1	JP	08/10/13 2:45	5.14	100	CH30856
Barium	**84.9** (6.2)		6010B		1	JP	08/10/13 2:45	5.14	100	CH30856
Beryllium	**1.06** (0.26)		6010B		1	JP	08/10/13 2:45	5.14	100	CH30856
Cadmium	**4.51** (1.25)		6010B		1	JP	08/10/13 2:45	5.14	100	CH30856
Chromium	**92.5** (2.5)		6010B		1	JP	08/10/13 2:45	5.14	100	CH30856
Lead	**326** (12.5)		6010B		1	JP	08/10/13 2:45	5.14	100	CH30856
Mercury	**1.05** (0.104)		7471B		1	JP	08/12/13 20:22	1.22	40	CH30931
Nickel	**36.1** (6.2)		6010B		1	JP	08/10/13 2:45	5.14	100	CH30856
Selenium	ND (6.27)		6020A		50	SVD	08/12/13 18:25	5.14	100	CH30856
Silver	**1.92** (1.25)		6010B		1	JP	08/10/13 2:45	5.14	100	CH30856
Thallium	ND (6.27)		6020A		50	SVD	08/12/13 18:25	5.14	100	CH30856
Vanadium	**77.1** (2.5)		6010B		1	JP	08/10/13 2:45	5.14	100	CH30856
Zinc	**672** (6.2)		6010B		1	JP	08/10/13 19:29	5.14	100	CH30856

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC5 0-0.5ft
Date Sampled: 08/05/13 14:50
Percent Solids: 16
Initial Volume: 19.3
Final Volume: 5
Extraction Method: 3540

ESS Laboratory Work Order: 1308109
ESS Laboratory Sample ID: 1308109-18
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 8/9/13 17:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.166)		8082A		1	08/13/13 20:54		CH31434
Aroclor 1221	ND (0.166)		8082A		1	08/13/13 20:54		CH31434
Aroclor 1232	ND (0.166)		8082A		1	08/13/13 20:54		CH31434
Aroclor 1242	ND (0.166)		8082A		1	08/13/13 20:54		CH31434
Aroclor 1248	ND (0.166)		8082A		1	08/13/13 20:54		CH31434
Aroclor 1254	**0.915** (0.166)		8082A		1	08/13/13 20:54		CH31434
Aroclor 1260	**1.01** (0.166)		8082A		1	08/13/13 20:54		CH31434
Aroclor 1262	ND (0.166)		8082A		1	08/13/13 20:54		CH31434
Aroclor 1268	ND (0.166)		8082A		1	08/13/13 20:54		CH31434

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*94 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*84 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*69 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*63 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC5 0-0.5ft
Date Sampled: 08/05/13 14:50
Percent Solids: 16
Initial Volume: 20.2
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308109
ESS Laboratory Sample ID: 1308109-18
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 8/9/13 19:05

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (1.59)		8270D		1	08/12/13 14:21	CWH0147	CH30921
1,2-Dichlorobenzene	ND (1.59)		8270D		1	08/12/13 14:21	CWH0147	CH30921
1,3-Dichlorobenzene	ND (1.59)		8270D		1	08/12/13 14:21	CWH0147	CH30921
1,4-Dichlorobenzene	ND (1.59)		8270D		1	08/12/13 14:21	CWH0147	CH30921
2-Methylnaphthalene	ND (1.59)		8270D		1	08/12/13 14:21	CWH0147	CH30921
2-Methylphenol	ND (1.59)		8270D		1	08/12/13 14:21	CWH0147	CH30921
Acenaphthene	ND (1.59)		8270D		1	08/12/13 14:21	CWH0147	CH30921
Acenaphthylene	ND (1.59)		8270D		1	08/12/13 14:21	CWH0147	CH30921
Anthracene	ND (1.59)		8270D		1	08/12/13 14:21	CWH0147	CH30921
Benzo(a)anthracene	**1.64** (1.59)		8270D		1	08/12/13 14:21	CWH0147	CH30921
Benzo(a)pyrene	**1.80** (0.796)		8270D		1	08/12/13 14:21	CWH0147	CH30921
Benzo(b)fluoranthene	**2.60** (1.59)		8270D		1	08/12/13 14:21	CWH0147	CH30921
Benzo(g,h,i)perylene	ND (1.59)		8270D		1	08/12/13 14:21	CWH0147	CH30921
Benzo(k)fluoranthene	ND (1.59)		8270D		1	08/12/13 14:21	CWH0147	CH30921
bis(2-Ethylhexyl)phthalate	**85.2** (7.93)		8270D		5	08/11/13 19:43	CWH0147	CH30921
Butylbenzylphthalate	ND (1.59)		8270D		1	08/12/13 14:21	CWH0147	CH30921
Carbazole	ND (1.59)		8270D		1	08/12/13 14:21	CWH0147	CH30921
Chrysene	**1.76** (0.796)		8270D		1	08/12/13 14:21	CWH0147	CH30921
Dibenzo(a,h)Anthracene	ND (0.796)		8270D		1	08/12/13 14:21	CWH0147	CH30921
Dibenzofuran	ND (1.59)		8270D		1	08/12/13 14:21	CWH0147	CH30921
Diethylphthalate	ND (1.59)		8270D		1	08/12/13 14:21	CWH0147	CH30921
Dimethylphthalate	ND (1.59)		8270D		1	08/12/13 14:21	CWH0147	CH30921
Di-n-butylphthalate	ND (1.59)		8270D		1	08/12/13 14:21	CWH0147	CH30921
Di-n-octylphthalate	ND (1.59)		8270D		1	08/12/13 14:21	CWH0147	CH30921
Fluoranthene	**3.59** (1.59)		8270D		1	08/12/13 14:21	CWH0147	CH30921
Fluorene	ND (1.59)		8270D		1	08/12/13 14:21	CWH0147	CH30921
Hexachlorobenzene	ND (1.59)		8270D		1	08/12/13 14:21	CWH0147	CH30921
Hexachlorocyclopentadiene	ND (7.96)		8270D		1	08/12/13 14:21	CWH0147	CH30921
Indeno(1,2,3-cd)Pyrene	ND (1.59)		8270D		1	08/12/13 14:21	CWH0147	CH30921
Naphthalene	**1.85** (1.59)		8270D		1	08/12/13 14:21	CWH0147	CH30921
Phenanthrene	ND (1.59)		8270D		1	08/12/13 14:21	CWH0147	CH30921

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC5 0-0.5ft
Date Sampled: 08/05/13 14:50
Percent Solids: 16
Initial Volume: 20.2
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308109
ESS Laboratory Sample ID: 1308109-18
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 8/9/13 19:05

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Phenol	ND (1.59)		8270D		1	08/12/13 14:21	CWH0147	CH30921
Pyrene	**3.00** (1.59)		8270D		1	08/12/13 14:21	CWH0147	CH30921

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*55 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*48 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*59 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*60 %*		*30-130*
Surrogate: 2-Fluorophenol	*57 %*		*30-130*
Surrogate: Nitrobenzene-d5	*70 %*		*30-130*
Surrogate: Phenol-d6	*63 %*		*30-130*
Surrogate: p-Terphenyl-d14	*65 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC5 0-0.5ft
Date Sampled: 08/05/13 14:50
Percent Solids: 16
Initial Volume: 15.3
Final Volume: 0.5
Extraction Method: 3541

ESS Laboratory Work Order: 1308109
ESS Laboratory Sample ID: 1308109-18
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 8/10/13 9:00

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	ND (0.524)		8270D		5	08/11/13 16:18	CWH0139	CH31001
Acenaphthene	ND (0.524)		8270D		5	08/11/13 16:18	CWH0139	CH31001
Acenaphthylene	ND (0.524)		8270D		5	08/11/13 16:18	CWH0139	CH31001
Anthracene	ND (0.524)		8270D		5	08/11/13 16:18	CWH0139	CH31001
Benzo(a)anthracene	**0.535** (0.524)		8270D		5	08/11/13 16:18	CWH0139	CH31001
Benzo(a)pyrene	**0.660** (0.524)		8270D		5	08/11/13 16:18	CWH0139	CH31001
Benzo(b)fluoranthene	**0.933** (0.524)		8270D		5	08/11/13 16:18	CWH0139	CH31001
Benzo(g,h,i)perylene	**0.619** (0.524)		8270D		5	08/11/13 16:18	CWH0139	CH31001
Benzo(k)fluoranthene	ND (0.524)		8270D		5	08/11/13 16:18	CWH0139	CH31001
Chrysene	**0.629** (0.524)		8270D		5	08/11/13 16:18	CWH0139	CH31001
Dibenzo(a,h)Anthracene	ND (0.524)		8270D		5	08/11/13 16:18	CWH0139	CH31001
Fluoranthene	**1.01** (0.524)		8270D		5	08/11/13 16:18	CWH0139	CH31001
Fluorene	ND (0.524)		8270D		5	08/11/13 16:18	CWH0139	CH31001
Indeno(1,2,3-cd)Pyrene	**0.650** (0.524)		8270D		5	08/11/13 16:18	CWH0139	CH31001
Naphthalene	**0.608** (0.524)		8270D		5	08/11/13 16:18	CWH0139	CH31001
Phenanthrene	ND (0.524)		8270D		5	08/11/13 16:18	CWH0139	CH31001
Pyrene	**1.04** (0.524)		8270D		5	08/11/13 16:18	CWH0139	CH31001

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*50 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*54 %*		*30-130*
Surrogate: Nitrobenzene-d5	*52 %*		*30-130*
Surrogate: p-Terphenyl-d14	*86 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC5 0-0.5ft
Date Sampled: 08/05/13 14:50
Percent Solids: 16

ESS Laboratory Work Order: 1308109
ESS Laboratory Sample ID: 1308109-18
Sample Matrix: Soil

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**150000** (6990)		TOC-LK		1	SUB	08/14/13 17:32	mg/kg	CH32011

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC5 0-0.5ft
Date Sampled: 08/05/13 14:50
Percent Solids: 16
Initial Volume: 15
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1308109
ESS Laboratory Sample ID: 1308109-18
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 8/12/13 10:00

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (160)		MADEP-EPH		1	VSC	08/13/13 3:58	CWH0163	CH31208
C19-C36 Aliphatics1	**1130** (160)		MADEP-EPH		1	VSC	08/13/13 3:58	CWH0163	CH31208
C11-C22 Unadjusted Aromatics1	**583** (160)		EPH8270		1	VSC	08/14/13 3:10	CWH0181	CH31208
C11-C22 Aromatics1,2	**583** (160)		EPH8270			VSC	08/14/13 3:10		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*82 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*93 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*84 %*		*40-140*
Surrogate: O-Terphenyl	*83 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC5 2-4ft
Date Sampled: 08/05/13 14:50
Percent Solids: 27

ESS Laboratory Work Order: 1308109
ESS Laboratory Sample ID: 1308109-19
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (3.4)		6020A		50	SVD	08/12/13 18:31	5.44	100	CH30856
Arsenic	**27.0** (3.4)		6010B		1	JP	08/10/13 2:50	5.44	100	CH30856
Barium	**86.9** (3.4)		6010B		1	JP	08/10/13 2:50	5.44	100	CH30856
Beryllium	**0.91** (0.14)		6010B		1	JP	08/10/13 2:50	5.44	100	CH30856
Cadmium	**5.91** (0.68)		6010B		1	JP	08/10/13 2:50	5.44	100	CH30856
Chromium	**128** (1.3)		6010B		1	JP	08/10/13 2:50	5.44	100	CH30856
Lead	**391** (6.7)		6010B		1	JP	08/10/13 2:50	5.44	100	CH30856
Mercury	**0.914** (0.355)		7471B		5	JP	08/12/13 20:24	1.02	40	CH30931
Nickel	**48.2** (3.4)		6010B		1	JP	08/10/13 2:50	5.44	100	CH30856
Selenium	ND (3.38)		6020A		50	SVD	08/12/13 18:31	5.44	100	CH30856
Silver	**1.77** (0.68)		6010B		1	JP	08/10/13 2:50	5.44	100	CH30856
Thallium	ND (3.38)		6020A		50	SVD	08/12/13 18:31	5.44	100	CH30856
Vanadium	**94.2** (1.3)		6010B		1	JP	08/10/13 2:50	5.44	100	CH30856
Zinc	**1200** (3.4)		6010B		1	JP	08/10/13 19:35	5.44	100	CH30856

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC5 2-4ft
Date Sampled: 08/05/13 14:50
Percent Solids: 27
Initial Volume: 19.4
Final Volume: 5
Extraction Method: 3540

ESS Laboratory Work Order: 1308109
ESS Laboratory Sample ID: 1308109-19
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 8/9/13 17:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0944)		8082A		1	08/14/13 14:27		CH30937
Aroclor 1221	ND (0.0944)		8082A		1	08/14/13 14:27		CH30937
Aroclor 1232	ND (0.0944)		8082A		1	08/14/13 14:27		CH30937
Aroclor 1242	ND (0.0944)		8082A		1	08/14/13 14:27		CH30937
Aroclor 1248	**1.12** (0.0944)		8082A		1	08/14/13 14:27		CH30937
Aroclor 1254	**1.21** (0.0944)		8082A		1	08/14/13 14:27		CH30937
Aroclor 1260	**0.924** (0.0944)		8082A		1	08/14/13 14:27		CH30937
Aroclor 1262	ND (0.0944)		8082A		1	08/14/13 14:27		CH30937
Aroclor 1268	ND (0.0944)		8082A		1	08/14/13 14:27		CH30937

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*84 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*70 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*56 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*50 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC5 2-4ft
Date Sampled: 08/05/13 14:50
Percent Solids: 27
Initial Volume: 20.2
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308109
ESS Laboratory Sample ID: 1308109-19
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 8/9/13 19:05

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.905)		8270D		1	08/12/13 13:14	CWH0147	CH30921
1,2-Dichlorobenzene	ND (0.905)		8270D		1	08/12/13 13:14	CWH0147	CH30921
1,3-Dichlorobenzene	ND (0.905)		8270D		1	08/12/13 13:14	CWH0147	CH30921
1,4-Dichlorobenzene	ND (0.905)		8270D		1	08/12/13 13:14	CWH0147	CH30921
2-Methylnaphthalene	ND (0.905)		8270D		1	08/12/13 13:14	CWH0147	CH30921
2-Methylphenol	ND (0.905)		8270D		1	08/12/13 13:14	CWH0147	CH30921
Acenaphthene	ND (0.905)		8270D		1	08/12/13 13:14	CWH0147	CH30921
Acenaphthylene	ND (0.905)		8270D		1	08/12/13 13:14	CWH0147	CH30921
Anthracene	ND (0.905)		8270D		1	08/12/13 13:14	CWH0147	CH30921
Benzo(a)anthracene	**1.19** (0.905)		8270D		1	08/12/13 13:14	CWH0147	CH30921
Benzo(a)pyrene	**1.04** (0.454)		8270D		1	08/12/13 13:14	CWH0147	CH30921
Benzo(b)fluoranthene	**1.30** (0.905)		8270D		1	08/12/13 13:14	CWH0147	CH30921
Benzo(g,h,i)perylene	ND (0.905)		8270D		1	08/12/13 13:14	CWH0147	CH30921
Benzo(k)fluoranthene	ND (0.905)		8270D		1	08/12/13 13:14	CWH0147	CH30921
bis(2-Ethylhexyl)phthalate	**408** (90.5)		8270D		100	08/12/13 23:50	CWH0147	CH30921
Butylbenzylphthalate	ND (0.905)		8270D		1	08/12/13 13:14	CWH0147	CH30921
Carbazole	ND (0.905)		8270D		1	08/12/13 13:14	CWH0147	CH30921
Chrysene	**1.48** (0.454)		8270D		1	08/12/13 13:14	CWH0147	CH30921
Dibenzo(a,h)Anthracene	ND (0.454)		8270D		1	08/12/13 13:14	CWH0147	CH30921
Dibenzofuran	ND (0.905)		8270D		1	08/12/13 13:14	CWH0147	CH30921
Diethylphthalate	ND (0.905)		8270D		1	08/12/13 13:14	CWH0147	CH30921
Dimethylphthalate	ND (0.905)		8270D		1	08/12/13 13:14	CWH0147	CH30921
Di-n-butylphthalate	ND (0.905)		8270D		1	08/12/13 13:14	CWH0147	CH30921
Di-n-octylphthalate	**5.02** (0.905)		8270D		1	08/12/13 13:14	CWH0147	CH30921
Fluoranthene	**2.63** (0.905)		8270D		1	08/12/13 13:14	CWH0147	CH30921
Fluorene	ND (0.905)		8270D		1	08/12/13 13:14	CWH0147	CH30921
Hexachlorobenzene	ND (0.905)		8270D		1	08/12/13 13:14	CWH0147	CH30921
Hexachlorocyclopentadiene	ND (4.54)		8270D		1	08/12/13 13:14	CWH0147	CH30921
Indeno(1,2,3-cd)Pyrene	ND (0.905)		8270D		1	08/12/13 13:14	CWH0147	CH30921
Naphthalene	**1.22** (0.905)		8270D		1	08/12/13 13:14	CWH0147	CH30921
Phenanthrene	ND (0.905)		8270D		1	08/12/13 13:14	CWH0147	CH30921

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC5 2-4ft
Date Sampled: 08/05/13 14:50
Percent Solids: 27
Initial Volume: 20.2
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308109
ESS Laboratory Sample ID: 1308109-19
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 8/9/13 19:05

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Phenol	ND (0.905)		8270D		1	08/12/13 13:14	CWH0147	CH30921
Pyrene	**2.52** (0.905)		8270D		1	08/12/13 13:14	CWH0147	CH30921

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*54 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*55 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*61 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*62 %*		*30-130*
Surrogate: 2-Fluorophenol	*56 %*		*30-130*
Surrogate: Nitrobenzene-d5	*69 %*		*30-130*
Surrogate: Phenol-d6	*65 %*		*30-130*
Surrogate: p-Terphenyl-d14	*81 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC5 2-4ft
Date Sampled: 08/05/13 14:50
Percent Solids: 27
Initial Volume: 15.4
Final Volume: 0.5
Extraction Method: 3541

ESS Laboratory Work Order: 1308109
ESS Laboratory Sample ID: 1308109-19
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 8/10/13 9:00

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	ND (0.149)		8270D		5	08/13/13 2:54	CWH0159	CH31001
Acenaphthene	ND (0.149)		8270D		5	08/13/13 2:54	CWH0159	CH31001
Acenaphthylene	ND (0.149)		8270D		5	08/13/13 2:54	CWH0159	CH31001
Anthracene	**0.196** (0.149)		8270D		5	08/13/13 2:54	CWH0159	CH31001
Benzo(a)anthracene	**0.250** (0.149)		8270D		5	08/13/13 2:54	CWH0159	CH31001
Benzo(a)pyrene	**0.256** (0.149)		8270D		5	08/13/13 2:54	CWH0159	CH31001
Benzo(b)fluoranthene	**0.309** (0.149)		8270D		5	08/13/13 2:54	CWH0159	CH31001
Benzo(g,h,i)perylene	**0.238** (0.149)		8270D		5	08/13/13 2:54	CWH0159	CH31001
Benzo(k)fluoranthene	ND (0.149)		8270D		5	08/13/13 2:54	CWH0159	CH31001
Chrysene	**0.303** (0.149)		8270D		5	08/13/13 2:54	CWH0159	CH31001
Dibenzo(a,h)Anthracene	ND (0.149)		8270D		5	08/13/13 2:54	CWH0159	CH31001
Fluoranthene	**0.487** (0.149)		8270D		5	08/13/13 2:54	CWH0159	CH31001
Fluorene	ND (0.149)		8270D		5	08/13/13 2:54	CWH0159	CH31001
Indeno(1,2,3-cd)Pyrene	**0.202** (0.149)		8270D		5	08/13/13 2:54	CWH0159	CH31001
Naphthalene	**0.262** (0.149)		8270D		5	08/13/13 2:54	CWH0159	CH31001
Phenanthrene	**0.220** (0.149)		8270D		5	08/13/13 2:54	CWH0159	CH31001
Pyrene	**0.612** (0.149)		8270D		5	08/13/13 2:54	CWH0159	CH31001

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*50 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*54 %*		*30-130*
Surrogate: Nitrobenzene-d5	*58 %*		*30-130*
Surrogate: p-Terphenyl-d14	*80 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC5 2-4ft
Date Sampled: 08/05/13 14:50
Percent Solids: 27
Initial Volume: 15.7
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1308109
ESS Laboratory Sample ID: 1308109-19
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 8/12/13 10:00

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	**286** (87.5)		MADEP-EPH		1	VSC	08/13/13 4:49	CWH0163	CH31208
C19-C36 Aliphatics1	**1110** (87.5)		MADEP-EPH		1	VSC	08/13/13 4:49	CWH0163	CH31208
C11-C22 Unadjusted Aromatics1	**875** (87.5)		EPH8270		1	VSC	08/14/13 3:57	CWH0181	CH31208
C11-C22 Aromatics1,2	**875** (87.5)		EPH8270			VSC	08/14/13 3:57		[CALC]

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1-Chlorooctadecane	*87 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*95 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*82 %*		*40-140*
Surrogate: O-Terphenyl	*92 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC6 0-0.5ft
Date Sampled: 08/05/13 15:05
Percent Solids: 17

ESS Laboratory Work Order: 1308109
ESS Laboratory Sample ID: 1308109-20
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (5.7)		6020A		50	SVD	08/12/13 18:37	5.12	100	CH30856
Arsenic	**18.2** (5.6)		6010B		1	JP	08/10/13 2:56	5.12	100	CH30856
Barium	**91.1** (5.6)		6010B		1	JP	08/10/13 2:56	5.12	100	CH30856
Beryllium	**1.05** (0.24)		6010B		1	JP	08/10/13 2:56	5.12	100	CH30856
Cadmium	**4.21** (1.14)		6010B		1	JP	08/10/13 2:56	5.12	100	CH30856
Chromium	**96.2** (2.3)		6010B		1	JP	08/10/13 2:56	5.12	100	CH30856
Lead	**312** (11.3)		6010B		1	JP	08/10/13 2:56	5.12	100	CH30856
Mercury	**0.911** (0.104)		7471B		1	JP	08/12/13 20:27	1.1	40	CH30931
Nickel	**32.7** (5.6)		6010B		1	JP	08/10/13 2:56	5.12	100	CH30856
Selenium	ND (5.68)		6020A		50	SVD	08/12/13 18:37	5.12	100	CH30856
Silver	**1.73** (1.14)		6010B		1	JP	08/10/13 2:56	5.12	100	CH30856
Thallium	ND (5.68)		6020A		50	SVD	08/12/13 18:37	5.12	100	CH30856
Vanadium	**65.6** (2.3)		6010B		1	JP	08/10/13 2:56	5.12	100	CH30856
Zinc	**726** (5.6)		6010B		1	JP	08/10/13 19:41	5.12	100	CH30856

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC6 0-0.5ft
Date Sampled: 08/05/13 15:05
Percent Solids: 17
Initial Volume: 19.7
Final Volume: 5
Extraction Method: 3540

ESS Laboratory Work Order: 1308109
ESS Laboratory Sample ID: 1308109-20
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 8/9/13 17:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.147)		8082A		1	08/14/13 14:46		CH30937
Aroclor 1221	ND (0.147)		8082A		1	08/14/13 14:46		CH30937
Aroclor 1232	ND (0.147)		8082A		1	08/14/13 14:46		CH30937
Aroclor 1242	ND (0.147)		8082A		1	08/14/13 14:46		CH30937
Aroclor 1248	**0.386** (0.147)		8082A		1	08/14/13 14:46		CH30937
Aroclor 1254	**0.767** (0.147)		8082A		1	08/14/13 14:46		CH30937
Aroclor 1260	**0.749** (0.147)		8082A		1	08/14/13 14:46		CH30937
Aroclor 1262	ND (0.147)		8082A		1	08/14/13 14:46		CH30937
Aroclor 1268	ND (0.147)		8082A		1	08/14/13 14:46		CH30937

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*98 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*78 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*74 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*62 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC6 0-0.5ft
Date Sampled: 08/05/13 15:05
Percent Solids: 17
Initial Volume: 20.6
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308109
ESS Laboratory Sample ID: 1308109-20
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 8/9/13 19:05

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (1.40)		8270D		1	08/12/13 12:07	CWH0147	CH30921
1,2-Dichlorobenzene	ND (1.40)		8270D		1	08/12/13 12:07	CWH0147	CH30921
1,3-Dichlorobenzene	ND (1.40)		8270D		1	08/12/13 12:07	CWH0147	CH30921
1,4-Dichlorobenzene	ND (1.40)		8270D		1	08/12/13 12:07	CWH0147	CH30921
2-Methylnaphthalene	ND (1.40)		8270D		1	08/12/13 12:07	CWH0147	CH30921
2-Methylphenol	ND (1.40)		8270D		1	08/12/13 12:07	CWH0147	CH30921
Acenaphthene	ND (1.40)		8270D		1	08/12/13 12:07	CWH0147	CH30921
Acenaphthylene	ND (1.40)		8270D		1	08/12/13 12:07	CWH0147	CH30921
Anthracene	ND (1.40)		8270D		1	08/12/13 12:07	CWH0147	CH30921
Benzo(a)anthracene	ND (1.40)		8270D		1	08/12/13 12:07	CWH0147	CH30921
Benzo(a)pyrene	**1.49** (0.704)		8270D		1	08/12/13 12:07	CWH0147	CH30921
Benzo(b)fluoranthene	**2.35** (1.40)		8270D		1	08/12/13 12:07	CWH0147	CH30921
Benzo(g,h,i)perylene	ND (1.40)		8270D		1	08/12/13 12:07	CWH0147	CH30921
Benzo(k)fluoranthene	ND (1.40)		8270D		1	08/12/13 12:07	CWH0147	CH30921
bis(2-Ethylhexyl)phthalate	**27.1** (1.40)		8270D		1	08/12/13 12:07	CWH0147	CH30921
Butylbenzylphthalate	ND (1.40)		8270D		1	08/12/13 12:07	CWH0147	CH30921
Carbazole	ND (1.40)		8270D		1	08/12/13 12:07	CWH0147	CH30921
Chrysene	**1.65** (0.704)		8270D		1	08/12/13 12:07	CWH0147	CH30921
Dibenzo(a,h)Anthracene	ND (0.704)		8270D		1	08/12/13 12:07	CWH0147	CH30921
Dibenzofuran	ND (1.40)		8270D		1	08/12/13 12:07	CWH0147	CH30921
Diethylphthalate	ND (1.40)		8270D		1	08/12/13 12:07	CWH0147	CH30921
Dimethylphthalate	ND (1.40)		8270D		1	08/12/13 12:07	CWH0147	CH30921
Di-n-butylphthalate	ND (1.40)		8270D		1	08/12/13 12:07	CWH0147	CH30921
Di-n-octylphthalate	ND (1.40)		8270D		1	08/12/13 12:07	CWH0147	CH30921
Fluoranthene	**3.55** (1.40)		8270D		1	08/12/13 12:07	CWH0147	CH30921
Fluorene	ND (1.40)		8270D		1	08/12/13 12:07	CWH0147	CH30921
Hexachlorobenzene	ND (1.40)		8270D		1	08/12/13 12:07	CWH0147	CH30921
Hexachlorocyclopentadiene	ND (7.04)		8270D		1	08/12/13 12:07	CWH0147	CH30921
Indeno(1,2,3-cd)Pyrene	ND (1.40)		8270D		1	08/12/13 12:07	CWH0147	CH30921
Naphthalene	ND (1.40)		8270D		1	08/12/13 12:07	CWH0147	CH30921
Phenanthrene	ND (1.40)		8270D		1	08/12/13 12:07	CWH0147	CH30921

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC6 0-0.5ft
Date Sampled: 08/05/13 15:05
Percent Solids: 17
Initial Volume: 20.6
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308109
ESS Laboratory Sample ID: 1308109-20
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 8/9/13 19:05

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Phenol	ND (1.40)		8270D		1	08/12/13 12:07	CWH0147	CH30921
Pyrene	**2.90** (1.40)		8270D		1	08/12/13 12:07	CWH0147	CH30921

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*55 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*53 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*62 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*64 %*		*30-130*
Surrogate: 2-Fluorophenol	*58 %*		*30-130*
Surrogate: Nitrobenzene-d5	*68 %*		*30-130*
Surrogate: Phenol-d6	*64 %*		*30-130*
Surrogate: p-Terphenyl-d14	*75 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC6 0-0.5ft
Date Sampled: 08/05/13 15:05
Percent Solids: 17
Initial Volume: 15.2
Final Volume: 0.5
Extraction Method: 3541

ESS Laboratory Work Order: 1308109
ESS Laboratory Sample ID: 1308109-20
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 8/10/13 9:00

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	ND (0.238)		8270D		5	08/13/13 6:13	CWH0159	CH31001
Acenaphthene	ND (0.238)		8270D		5	08/13/13 6:13	CWH0159	CH31001
Acenaphthylene	ND (0.238)		8270D		5	08/13/13 6:13	CWH0159	CH31001
Anthracene	ND (0.238)		8270D		5	08/13/13 6:13	CWH0159	CH31001
Benzo(a)anthracene	**0.647** (0.238)		8270D		5	08/13/13 6:13	CWH0159	CH31001
Benzo(a)pyrene	**0.923** (0.238)		8270D		5	08/13/13 6:13	CWH0159	CH31001
Benzo(b)fluoranthene	**1.45** (0.238)		8270D		5	08/13/13 6:13	CWH0159	CH31001
Benzo(g,h,i)perylene	**0.904** (0.238)		8270D		5	08/13/13 6:13	CWH0159	CH31001
Benzo(k)fluoranthene	**0.400** (0.238)		8270D		5	08/13/13 6:13	CWH0159	CH31001
Chrysene	**0.933** (0.238)		8270D		5	08/13/13 6:13	CWH0159	CH31001
Dibenzo(a,h)Anthracene	**0.657** (0.238)		8270D		5	08/13/13 6:13	CWH0159	CH31001
Fluoranthene	**1.52** (0.238)		8270D		5	08/13/13 6:13	CWH0159	CH31001
Fluorene	ND (0.238)		8270D		5	08/13/13 6:13	CWH0159	CH31001
Indeno(1,2,3-cd)Pyrene	**0.923** (0.238)		8270D		5	08/13/13 6:13	CWH0159	CH31001
Naphthalene	ND (0.238)		8270D		5	08/13/13 6:13	CWH0159	CH31001
Phenanthrene	**0.390** (0.238)		8270D		5	08/13/13 6:13	CWH0159	CH31001
Pyrene	**1.32** (0.238)		8270D		5	08/13/13 6:13	CWH0159	CH31001

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*45 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*48 %*		*30-130*
Surrogate: Nitrobenzene-d5	*52 %*		*30-130*
Surrogate: p-Terphenyl-d14	*79 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC6 0-0.5ft
Date Sampled: 08/05/13 15:05
Percent Solids: 17

ESS Laboratory Work Order: 1308109
ESS Laboratory Sample ID: 1308109-20
Sample Matrix: Soil

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**155000** (6320)		TOC-LK		1	SUB	08/14/13 17:39	mg/kg	CH32011

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC6 0-0.5ft
Date Sampled: 08/05/13 15:05
Percent Solids: 17
Initial Volume: 14.8
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1308109
ESS Laboratory Sample ID: 1308109-20
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 8/12/13 10:00

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (147)		MADEP-EPH		1	VSC	08/13/13 5:39	CWH0163	CH31208
C19-C36 Aliphatics1	**950** (147)		MADEP-EPH		1	VSC	08/13/13 5:39	CWH0163	CH31208
C11-C22 Unadjusted Aromatics1	**503** (147)		EPH8270		1	VSC	08/14/13 4:43	CWH0181	CH31208
C11-C22 Aromatics1,2	**498** (147)		EPH8270			VSC	08/14/13 4:43		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*86 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*90 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*81 %*		*40-140*
Surrogate: O-Terphenyl	*91 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308109

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Total Metals Solid										
Batch CH30856 - 3050B										
Blank										
Antimony	ND	2.5	mg/kg wet							
Arsenic	ND	2.5	mg/kg wet							
Barium	ND	2.5	mg/kg wet							
Beryllium	ND	0.10	mg/kg wet							
Cadmium	ND	0.50	mg/kg wet							
Chromium	ND	1.0	mg/kg wet							
Lead	ND	5.0	mg/kg wet							
Nickel	ND	2.5	mg/kg wet							
Selenium	ND	2.51	mg/kg wet							
Silver	ND	0.50	mg/kg wet							
Thallium	ND	2.51	mg/kg wet							
Vanadium	ND	1.0	mg/kg wet							
Zinc	ND	2.5	mg/kg wet							
LCS										
Antimony	107	9.9	mg/kg wet	106.0		101	80-120			
Arsenic	151	9.8	mg/kg wet	182.0		83	80-120			
Barium	126	9.8	mg/kg wet	143.0		88	80-120			
Beryllium	84.6	0.41	mg/kg wet	98.30		86	80-120			
Cadmium	51.7	1.97	mg/kg wet	60.40		86	80-120			
Chromium	113	3.9	mg/kg wet	125.0		90	80-120			
Lead	116	19.6	mg/kg wet	136.0		86	80-120			
Nickel	113	9.8	mg/kg wet	128.0		88	80-120			
Selenium	90.5	9.85	mg/kg wet	85.90		105	80-120			
Silver	55.9	1.97	mg/kg wet	61.30		91	80-120			
Thallium	154	9.85	mg/kg wet	144.0		107	80-120			
Vanadium	96.5	3.9	mg/kg wet	104.0		93	80-120			
Zinc	171	9.8	mg/kg wet	204.0		84	80-120			
LCS Dup										
Antimony	189	9.5	mg/kg wet	106.0		178	80-120	56	20	B++
Arsenic	154	9.4	mg/kg wet	182.0		85	80-120	2	20	
Barium	131	9.4	mg/kg wet	143.0		92	80-120	4	20	
Beryllium	85.7	0.40	mg/kg wet	98.30		87	80-120	1	20	
Cadmium	54.1	1.90	mg/kg wet	60.40		90	80-120	4	20	
Chromium	116	3.8	mg/kg wet	125.0		93	80-120	3	20	
Lead	120	18.9	mg/kg wet	136.0		88	80-120	3	20	
Nickel	116	9.4	mg/kg wet	128.0		91	80-120	2	20	
Selenium	135	9.48	mg/kg wet	85.90		157	80-120	39	20	B++
Silver	56.8	1.90	mg/kg wet	61.30		93	80-120	2	20	
Thallium	255	9.48	mg/kg wet	144.0		177	80-120	50	20	B++
Vanadium	99.1	3.8	mg/kg wet	104.0		95	80-120	3	20	
Zinc	174	9.4	mg/kg wet	204.0		85	80-120	2	20	
Batch CH30931 - 7471A										
Blank										

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308109

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Total Metals Solid										
Batch CH30931 - 7471A										
Mercury	ND	0.033	mg/kg wet							
LCS										
Mercury	11.0	0.811	mg/kg wet	9.250		119	80-120			
LCS Dup										
Mercury	10.8	0.773	mg/kg wet	9.250		117	80-120	2	20	
8082A Polychlorinated Biphenyls (PCB)										
Batch CH30839 - 3540										
Blank										
Aroclor 1016	ND	0.0250	mg/kg wet							
Aroclor 1016 (1)	ND	0.0250	mg/kg wet							
Aroclor 1016 (1) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1016 (2)	ND	0.0250	mg/kg wet							
Aroclor 1016 (2) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1016 (3)	ND	0.0250	mg/kg wet							
Aroclor 1016 (3) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1016 (4)	ND	0.0250	mg/kg wet							
Aroclor 1016 (4) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1016 (5)	ND	0.0250	mg/kg wet							
Aroclor 1016 (5) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1221	ND	0.0250	mg/kg wet							
Aroclor 1221 (1)	ND	0.0250	mg/kg wet							
Aroclor 1221 (1) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1221 (2)	ND	0.0250	mg/kg wet							
Aroclor 1221 (2) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1221 (3)	ND	0.0250	mg/kg wet							
Aroclor 1221 (3) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1221 (4)	ND	0.0250	mg/kg wet							
Aroclor 1221 (4) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1221 (5)	ND	0.0250	mg/kg wet							
Aroclor 1221 (5) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1232	ND	0.0250	mg/kg wet							
Aroclor 1232 (1)	ND	0.0250	mg/kg wet							
Aroclor 1232 (1) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1232 (2)	ND	0.0250	mg/kg wet							
Aroclor 1232 (2) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1232 (3)	ND	0.0250	mg/kg wet							
Aroclor 1232 (3) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1232 (4)	ND	0.0250	mg/kg wet							
Aroclor 1232 (4) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1232 (5)	ND	0.0250	mg/kg wet							
Aroclor 1232 (5) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1242	ND	0.0250	mg/kg wet							
Aroclor 1242 (1)	ND	0.0250	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308109

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CH30839 - 3540										
Aroclor 1242 (1) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1242 (2)	ND	0.0250	mg/kg wet							
Aroclor 1242 (2) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1242 (3)	ND	0.0250	mg/kg wet							
Aroclor 1242 (3) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1242 (4)	ND	0.0250	mg/kg wet							
Aroclor 1242 (4) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1242 (5)	ND	0.0250	mg/kg wet							
Aroclor 1242 (5) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1248	ND	0.0250	mg/kg wet							
Aroclor 1248 (1)	ND	0.0250	mg/kg wet							
Aroclor 1248 (1) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1248 (2)	ND	0.0250	mg/kg wet							
Aroclor 1248 (2) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1248 (3)	ND	0.0250	mg/kg wet							
Aroclor 1248 (3) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1248 (4)	ND	0.0250	mg/kg wet							
Aroclor 1248 (4) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1248 (5)	ND	0.0250	mg/kg wet							
Aroclor 1248 (5) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1254	ND	0.0250	mg/kg wet							
Aroclor 1254 (1)	ND	0.0250	mg/kg wet							
Aroclor 1254 (1) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1254 (2)	ND	0.0250	mg/kg wet							
Aroclor 1254 (2) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1254 (3)	ND	0.0250	mg/kg wet							
Aroclor 1254 (3) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1254 (4)	ND	0.0250	mg/kg wet							
Aroclor 1254 (4) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1254 (5)	ND	0.0250	mg/kg wet							
Aroclor 1254 (5) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1260	ND	0.0250	mg/kg wet							
Aroclor 1260 (1)	ND	0.0250	mg/kg wet							
Aroclor 1260 (1) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1260 (2)	ND	0.0250	mg/kg wet							
Aroclor 1260 (2) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1260 (3)	ND	0.0250	mg/kg wet							
Aroclor 1260 (3) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1260 (4)	ND	0.0250	mg/kg wet							
Aroclor 1260 (4) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1260 (5)	ND	0.0250	mg/kg wet							
Aroclor 1260 (5) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1262	ND	0.0250	mg/kg wet							
Aroclor 1262 (1)	ND	0.0250	mg/kg wet							
Aroclor 1262 (1) [2C]	ND	0.0250	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308109

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CH30839 - 3540										
Aroclor 1262 (2)	ND	0.0250	mg/kg wet							
Aroclor 1262 (2) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1262 (3)	ND	0.0250	mg/kg wet							
Aroclor 1262 (3) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1262 (4)	ND	0.0250	mg/kg wet							
Aroclor 1262 (4) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1262 (5)	ND	0.0250	mg/kg wet							
Aroclor 1262 (5) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1268	ND	0.0250	mg/kg wet							
Aroclor 1268 (1)	ND	0.0250	mg/kg wet							
Aroclor 1268 (1) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1268 (2)	ND	0.0250	mg/kg wet							
Aroclor 1268 (2) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1268 (3)	ND	0.0250	mg/kg wet							
Aroclor 1268 (3) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1268 (4)	ND	0.0250	mg/kg wet							
Aroclor 1268 (4) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1268 (5)	ND	0.0250	mg/kg wet							
Aroclor 1268 (5) [2C]	ND	0.0250	mg/kg wet							
Surrogate: Decachlorobiphenyl	*0.0132*		mg/kg wet	*0.01250*		*106*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0101*		mg/kg wet	*0.01250*		*81*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0106*		mg/kg wet	*0.01250*		*85*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.00948*		mg/kg wet	*0.01250*		*76*	*30-150*			
LCS										
Aroclor 1016	0.228	0.0250	mg/kg wet	0.2500		91	40-140			
Aroclor 1260	0.248	0.0250	mg/kg wet	0.2500		99	40-140			
Surrogate: Decachlorobiphenyl	*0.0129*		mg/kg wet	*0.01250*		*103*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.00990*		mg/kg wet	*0.01250*		*79*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.00997*		mg/kg wet	*0.01250*		*80*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.00859*		mg/kg wet	*0.01250*		*69*	*30-150*			
LCS Dup										
Aroclor 1016	0.255	0.0250	mg/kg wet	0.2500		102	40-140	11	30	
Aroclor 1260	0.253	0.0250	mg/kg wet	0.2500		101	40-140	2	30	
Surrogate: Decachlorobiphenyl	*0.0131*		mg/kg wet	*0.01250*		*105*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0101*		mg/kg wet	*0.01250*		*81*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0108*		mg/kg wet	*0.01250*		*86*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.00949*		mg/kg wet	*0.01250*		*76*	*30-150*			
Batch CH30937 - 3540										
Blank										
Aroclor 1016	ND	0.0250	mg/kg wet							
Aroclor 1016 (1)	ND	0.0250	mg/kg wet							
Aroclor 1016 (1) [2C]	ND	0.0250	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308109

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CH30937 - 3540										
Aroclor 1016 (2)	ND	0.0250	mg/kg wet							
Aroclor 1016 (2) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1016 (3)	ND	0.0250	mg/kg wet							
Aroclor 1016 (3) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1016 (4)	ND	0.0250	mg/kg wet							
Aroclor 1016 (4) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1016 (5)	ND	0.0250	mg/kg wet							
Aroclor 1016 (5) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1221	ND	0.0250	mg/kg wet							
Aroclor 1221 (1)	ND	0.0250	mg/kg wet							
Aroclor 1221 (1) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1221 (2)	ND	0.0250	mg/kg wet							
Aroclor 1221 (2) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1221 (3)	ND	0.0250	mg/kg wet							
Aroclor 1221 (3) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1221 (4)	ND	0.0250	mg/kg wet							
Aroclor 1221 (4) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1221 (5)	ND	0.0250	mg/kg wet							
Aroclor 1221 (5) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1232	ND	0.0250	mg/kg wet							
Aroclor 1232 (1)	ND	0.0250	mg/kg wet							
Aroclor 1232 (1) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1232 (2)	ND	0.0250	mg/kg wet							
Aroclor 1232 (2) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1232 (3)	ND	0.0250	mg/kg wet							
Aroclor 1232 (3) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1232 (4)	ND	0.0250	mg/kg wet							
Aroclor 1232 (4) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1232 (5)	ND	0.0250	mg/kg wet							
Aroclor 1232 (5) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1242	ND	0.0250	mg/kg wet							
Aroclor 1242 (1)	ND	0.0250	mg/kg wet							
Aroclor 1242 (1) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1242 (2)	ND	0.0250	mg/kg wet							
Aroclor 1242 (2) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1242 (3)	ND	0.0250	mg/kg wet							
Aroclor 1242 (3) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1242 (4)	ND	0.0250	mg/kg wet							
Aroclor 1242 (4) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1242 (5)	ND	0.0250	mg/kg wet							
Aroclor 1242 (5) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1248	ND	0.0250	mg/kg wet							
Aroclor 1248 (1)	ND	0.0250	mg/kg wet							
Aroclor 1248 (1) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1248 (2)	ND	0.0250	mg/kg wet							

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Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

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Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CH30937 - 3540										
Aroclor 1248 (2) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1248 (3)	ND	0.0250	mg/kg wet							
Aroclor 1248 (3) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1248 (4)	ND	0.0250	mg/kg wet							
Aroclor 1248 (4) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1248 (5)	ND	0.0250	mg/kg wet							
Aroclor 1248 (5) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1254	ND	0.0250	mg/kg wet							
Aroclor 1254 (1)	ND	0.0250	mg/kg wet							
Aroclor 1254 (1) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1254 (2)	ND	0.0250	mg/kg wet							
Aroclor 1254 (2) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1254 (3)	ND	0.0250	mg/kg wet							
Aroclor 1254 (3) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1254 (4)	ND	0.0250	mg/kg wet							
Aroclor 1254 (4) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1254 (5)	ND	0.0250	mg/kg wet							
Aroclor 1254 (5) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1260	ND	0.0250	mg/kg wet							
Aroclor 1260 (1)	ND	0.0250	mg/kg wet							
Aroclor 1260 (1) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1260 (2)	ND	0.0250	mg/kg wet							
Aroclor 1260 (2) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1260 (3)	ND	0.0250	mg/kg wet							
Aroclor 1260 (3) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1260 (4)	ND	0.0250	mg/kg wet							
Aroclor 1260 (4) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1260 (5)	ND	0.0250	mg/kg wet							
Aroclor 1260 (5) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1262	ND	0.0250	mg/kg wet							
Aroclor 1262 (1)	ND	0.0250	mg/kg wet							
Aroclor 1262 (1) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1262 (2)	ND	0.0250	mg/kg wet							
Aroclor 1262 (2) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1262 (3)	ND	0.0250	mg/kg wet							
Aroclor 1262 (3) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1262 (4)	ND	0.0250	mg/kg wet							
Aroclor 1262 (4) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1262 (5)	ND	0.0250	mg/kg wet							
Aroclor 1262 (5) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1268	ND	0.0250	mg/kg wet							
Aroclor 1268 (1)	ND	0.0250	mg/kg wet							
Aroclor 1268 (1) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1268 (2)	ND	0.0250	mg/kg wet							
Aroclor 1268 (2) [2C]	ND	0.0250	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308109

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CH30937 - 3540										
Aroclor 1268 (3)	ND	0.0250	mg/kg wet							
Aroclor 1268 (3) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1268 (4)	ND	0.0250	mg/kg wet							
Aroclor 1268 (4) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1268 (5)	ND	0.0250	mg/kg wet							
Aroclor 1268 (5) [2C]	ND	0.0250	mg/kg wet							
Surrogate: Decachlorobiphenyl	*0.0127*		mg/kg wet	*0.01250*		*101*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0108*		mg/kg wet	*0.01250*		*87*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0119*		mg/kg wet	*0.01250*		*95*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0100*		mg/kg wet	*0.01250*		*80*	*30-150*			
LCS										
Aroclor 1016	0.279	0.0250	mg/kg wet	0.2500		111	40-140			
Aroclor 1260	0.291	0.0250	mg/kg wet	0.2500		117	40-140			
Surrogate: Decachlorobiphenyl	*0.0142*		mg/kg wet	*0.01250*		*114*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0116*		mg/kg wet	*0.01250*		*93*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0145*		mg/kg wet	*0.01250*		*116*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0116*		mg/kg wet	*0.01250*		*93*	*30-150*			
LCS Dup										
Aroclor 1016	0.267	0.0250	mg/kg wet	0.2500		107	40-140	4	30	
Aroclor 1260	0.281	0.0250	mg/kg wet	0.2500		112	40-140	4	30	
Surrogate: Decachlorobiphenyl	*0.0134*		mg/kg wet	*0.01250*		*107*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0110*		mg/kg wet	*0.01250*		*88*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0131*		mg/kg wet	*0.01250*		*105*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0106*		mg/kg wet	*0.01250*		*84*	*30-150*			
Batch CH31434 - 3540										
Blank										
Aroclor 1016	ND	0.0250	mg/kg wet							
Aroclor 1016 (1)	ND	0.0250	mg/kg wet							
Aroclor 1016 (1) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1016 (2)	ND	0.0250	mg/kg wet							
Aroclor 1016 (2) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1016 (3)	ND	0.0250	mg/kg wet							
Aroclor 1016 (3) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1016 (4)	ND	0.0250	mg/kg wet							
Aroclor 1016 (4) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1016 (5)	ND	0.0250	mg/kg wet							
Aroclor 1016 (5) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1221	ND	0.0250	mg/kg wet							
Aroclor 1221 (1)	ND	0.0250	mg/kg wet							
Aroclor 1221 (1) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1221 (2)	ND	0.0250	mg/kg wet							
Aroclor 1221 (2) [2C]	ND	0.0250	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308109

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CH31434 - 3540										
Aroclor 1221 (3)	ND	0.0250	mg/kg wet							
Aroclor 1221 (3) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1221 (4)	ND	0.0250	mg/kg wet							
Aroclor 1221 (4) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1221 (5)	ND	0.0250	mg/kg wet							
Aroclor 1221 (5) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1232	ND	0.0250	mg/kg wet							
Aroclor 1232 (1)	ND	0.0250	mg/kg wet							
Aroclor 1232 (1) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1232 (2)	ND	0.0250	mg/kg wet							
Aroclor 1232 (2) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1232 (3)	ND	0.0250	mg/kg wet							
Aroclor 1232 (3) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1232 (4)	ND	0.0250	mg/kg wet							
Aroclor 1232 (4) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1232 (5)	ND	0.0250	mg/kg wet							
Aroclor 1232 (5) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1242	ND	0.0250	mg/kg wet							
Aroclor 1242 (1)	ND	0.0250	mg/kg wet							
Aroclor 1242 (1) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1242 (2)	ND	0.0250	mg/kg wet							
Aroclor 1242 (2) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1242 (3)	ND	0.0250	mg/kg wet							
Aroclor 1242 (3) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1242 (4)	ND	0.0250	mg/kg wet							
Aroclor 1242 (4) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1242 (5)	ND	0.0250	mg/kg wet							
Aroclor 1242 (5) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1248	ND	0.0250	mg/kg wet							
Aroclor 1248 (1)	ND	0.0250	mg/kg wet							
Aroclor 1248 (1) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1248 (2)	ND	0.0250	mg/kg wet							
Aroclor 1248 (2) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1248 (3)	ND	0.0250	mg/kg wet							
Aroclor 1248 (3) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1248 (4)	ND	0.0250	mg/kg wet							
Aroclor 1248 (4) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1248 (5)	ND	0.0250	mg/kg wet							
Aroclor 1248 (5) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1254	ND	0.0250	mg/kg wet							
Aroclor 1254 (1)	ND	0.0250	mg/kg wet							
Aroclor 1254 (1) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1254 (2)	ND	0.0250	mg/kg wet							
Aroclor 1254 (2) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1254 (3)	ND	0.0250	mg/kg wet							

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Client Name: GZA GeoEnvironmental, Inc.
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Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CH31434 - 3540										
Aroclor 1254 (3) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1254 (4)	ND	0.0250	mg/kg wet							
Aroclor 1254 (4) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1254 (5)	ND	0.0250	mg/kg wet							
Aroclor 1254 (5) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1260	ND	0.0250	mg/kg wet							
Aroclor 1260 (1)	ND	0.0250	mg/kg wet							
Aroclor 1260 (1) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1260 (2)	ND	0.0250	mg/kg wet							
Aroclor 1260 (2) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1260 (3)	ND	0.0250	mg/kg wet							
Aroclor 1260 (3) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1260 (4)	ND	0.0250	mg/kg wet							
Aroclor 1260 (4) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1260 (5)	ND	0.0250	mg/kg wet							
Aroclor 1260 (5) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1262	ND	0.0250	mg/kg wet							
Aroclor 1262 (1)	ND	0.0250	mg/kg wet							
Aroclor 1262 (1) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1262 (2)	ND	0.0250	mg/kg wet							
Aroclor 1262 (2) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1262 (3)	ND	0.0250	mg/kg wet							
Aroclor 1262 (3) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1262 (4)	ND	0.0250	mg/kg wet							
Aroclor 1262 (4) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1262 (5)	ND	0.0250	mg/kg wet							
Aroclor 1262 (5) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1268	ND	0.0250	mg/kg wet							
Aroclor 1268 (1)	ND	0.0250	mg/kg wet							
Aroclor 1268 (1) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1268 (2)	ND	0.0250	mg/kg wet							
Aroclor 1268 (2) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1268 (3)	ND	0.0250	mg/kg wet							
Aroclor 1268 (3) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1268 (4)	ND	0.0250	mg/kg wet							
Aroclor 1268 (4) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1268 (5)	ND	0.0250	mg/kg wet							
Aroclor 1268 (5) [2C]	ND	0.0250	mg/kg wet							
Surrogate: Decachlorobiphenyl	*0.0162*		mg/kg wet	*0.01250*		*129*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0131*		mg/kg wet	*0.01250*		*105*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0111*		mg/kg wet	*0.01250*		*89*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0106*		mg/kg wet	*0.01250*		*85*	*30-150*			
LCS										
Aroclor 1016	0.294	0.0250	mg/kg wet	0.2500		118	40-140			

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Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CH31434 - 3540										
Aroclor 1260	0.318	0.0250	mg/kg wet	0.2500		127	40-140			
Surrogate: Decachlorobiphenyl	*0.0181*		mg/kg wet	*0.01250*		*145*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0147*		mg/kg wet	*0.01250*		*117*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0139*		mg/kg wet	*0.01250*		*111*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0129*		mg/kg wet	*0.01250*		*103*	*30-150*			
LCS Dup										
Aroclor 1016	0.291	0.0250	mg/kg wet	0.2500		116	40-140	1	30	
Aroclor 1260	0.306	0.0250	mg/kg wet	0.2500		122	40-140	4	30	
Surrogate: Decachlorobiphenyl	*0.0171*		mg/kg wet	*0.01250*		*137*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0137*		mg/kg wet	*0.01250*		*110*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0128*		mg/kg wet	*0.01250*		*103*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0117*		mg/kg wet	*0.01250*		*93*	*30-150*			
8270D Semi-Volatile Organic Compounds										
Batch CH30921 - 3546										
Blank										
1,2,4-Trichlorobenzene	ND	0.333	mg/kg wet							
1,2-Dichlorobenzene	ND	0.333	mg/kg wet							
1,3-Dichlorobenzene	ND	0.333	mg/kg wet							
1,4-Dichlorobenzene	ND	0.333	mg/kg wet							
2-Methylnaphthalene	ND	0.333	mg/kg wet							
2-Methylphenol	ND	0.333	mg/kg wet							
Acenaphthene	ND	0.333	mg/kg wet							
Acenaphthylene	ND	0.333	mg/kg wet							
Anthracene	ND	0.333	mg/kg wet							
Benzo(a)anthracene	ND	0.333	mg/kg wet							
Benzo(a)pyrene	ND	0.167	mg/kg wet							
Benzo(b)fluoranthene	ND	0.333	mg/kg wet							
Benzo(g,h,i)perylene	ND	0.333	mg/kg wet							
Benzo(k)fluoranthene	ND	0.333	mg/kg wet							
bis(2-Ethylhexyl)phthalate	ND	0.333	mg/kg wet							
Butylbenzylphthalate	ND	0.333	mg/kg wet							
Carbazole	ND	0.333	mg/kg wet							
Chrysene	ND	0.167	mg/kg wet							
Dibenzo(a,h)Anthracene	ND	0.167	mg/kg wet							
Dibenzofuran	ND	0.333	mg/kg wet							
Diethylphthalate	ND	0.333	mg/kg wet							
Dimethylphthalate	ND	0.333	mg/kg wet							
Di-n-butylphthalate	ND	0.333	mg/kg wet							
Di-n-octylphthalate	ND	0.333	mg/kg wet							
Fluoranthene	ND	0.333	mg/kg wet							
Fluorene	ND	0.333	mg/kg wet							
Hexachlorobenzene	ND	0.333	mg/kg wet							

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Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D Semi-Volatile Organic Compounds										
Batch CH30921 - 3546										
Hexachlorocyclopentadiene	ND	1.67	mg/kg wet							
Indeno(1,2,3-cd)Pyrene	ND	0.333	mg/kg wet							
Naphthalene	ND	0.333	mg/kg wet							
Phenanthrene	ND	0.333	mg/kg wet							
Phenol	ND	0.333	mg/kg wet							
Pyrene	ND	0.333	mg/kg wet							
Surrogate: 1,2-Dichlorobenzene-d4	*2.83*		mg/kg wet	*3.333*		*85*	*30-130*			
Surrogate: 2,4,6-Tribromophenol	*4.52*		mg/kg wet	*5.000*		*90*	*30-130*			
Surrogate: 2-Chlorophenol-d4	*4.20*		mg/kg wet	*5.000*		*84*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*2.96*		mg/kg wet	*3.333*		*89*	*30-130*			
Surrogate: 2-Fluorophenol	*2.87*		mg/kg wet	*5.000*		*57*	*30-130*			
Surrogate: Nitrobenzene-d5	*2.96*		mg/kg wet	*3.333*		*89*	*30-130*			
Surrogate: Phenol-d6	*4.36*		mg/kg wet	*5.000*		*87*	*30-130*			
Surrogate: p-Terphenyl-d14	*2.87*		mg/kg wet	*3.333*		*86*	*30-130*			
LCS										
1,2,4-Trichlorobenzene	2.55	0.333	mg/kg wet	3.333		77	40-140			
1,2-Dichlorobenzene	2.62	0.333	mg/kg wet	3.333		79	40-140			
1,3-Dichlorobenzene	2.55	0.333	mg/kg wet	3.333		77	40-140			
1,4-Dichlorobenzene	2.47	0.333	mg/kg wet	3.333		74	40-140			
2-Methylnaphthalene	2.76	0.333	mg/kg wet	3.333		83	40-140			
2-Methylphenol	2.97	0.333	mg/kg wet	3.333		89	30-130			
Acenaphthene	2.61	0.333	mg/kg wet	3.333		78	40-140			
Acenaphthylene	2.65	0.333	mg/kg wet	3.333		79	40-140			
Anthracene	2.94	0.333	mg/kg wet	3.333		88	40-140			
Benzo(a)anthracene	3.10	0.333	mg/kg wet	3.333		93	40-140			
Benzo(a)pyrene	3.01	0.167	mg/kg wet	3.333		90	40-140			
Benzo(b)fluoranthene	3.06	0.333	mg/kg wet	3.333		92	40-140			
Benzo(g,h,i)perylene	3.36	0.333	mg/kg wet	3.333		101	40-140			
Benzo(k)fluoranthene	3.31	0.333	mg/kg wet	3.333		99	40-140			
bis(2-Ethylhexyl)phthalate	3.29	0.333	mg/kg wet	3.333		99	40-140			
Butylbenzylphthalate	3.34	0.333	mg/kg wet	3.333		100	40-140			
Carbazole	2.80	0.333	mg/kg wet	3.333		84	40-140			
Chrysene	3.02	0.167	mg/kg wet	3.333		91	40-140			
Dibenzo(a,h)Anthracene	3.36	0.167	mg/kg wet	3.333		101	40-140			
Dibenzofuran	2.77	0.333	mg/kg wet	3.333		83	40-140			
Diethylphthalate	2.61	0.333	mg/kg wet	3.333		78	40-140			
Dimethylphthalate	2.96	0.333	mg/kg wet	3.333		89	40-140			
Di-n-butylphthalate	2.78	0.333	mg/kg wet	3.333		84	40-140			
Di-n-octylphthalate	3.58	0.333	mg/kg wet	3.333		107	40-140			
Fluoranthene	2.57	0.333	mg/kg wet	3.333		77	40-140			
Fluorene	2.85	0.333	mg/kg wet	3.333		85	40-140			
Hexachlorobenzene	2.81	0.333	mg/kg wet	3.333		84	40-140			
Hexachlorocyclopentadiene	1.86	1.67	mg/kg wet	3.333		56	40-140			
Indeno(1,2,3-cd)Pyrene	3.28	0.333	mg/kg wet	3.333		98	40-140			
Naphthalene	2.63	0.333	mg/kg wet	3.333		79	40-140			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308109

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D Semi-Volatile Organic Compounds										
Batch CH30921 - 3546										
Phenanthrene	2.93	0.333	mg/kg wet	3.333		88	40-140			
Phenol	2.58	0.333	mg/kg wet	3.333		77	30-130			
Pyrene	3.33	0.333	mg/kg wet	3.333		100	40-140			
Surrogate: 1,2-Dichlorobenzene-d4	*2.72*		mg/kg wet	*3.333*		*82*	*30-130*			
Surrogate: 2,4,6-Tribromophenol	*4.75*		mg/kg wet	*5.000*		*95*	*30-130*			
Surrogate: 2-Chlorophenol-d4	*4.17*		mg/kg wet	*5.000*		*83*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*2.83*		mg/kg wet	*3.333*		*85*	*30-130*			
Surrogate: 2-Fluorophenol	*2.78*		mg/kg wet	*5.000*		*56*	*30-130*			
Surrogate: Nitrobenzene-d5	*2.73*		mg/kg wet	*3.333*		*82*	*30-130*			
Surrogate: Phenol-d6	*4.26*		mg/kg wet	*5.000*		*85*	*30-130*			
Surrogate: p-Terphenyl-d14	*3.32*		mg/kg wet	*3.333*		*100*	*30-130*			
LCS Dup										
1,2,4-Trichlorobenzene	2.76	0.333	mg/kg wet	3.333		83	40-140	8	30	
1,2-Dichlorobenzene	2.74	0.333	mg/kg wet	3.333		82	40-140	4	30	
1,3-Dichlorobenzene	2.58	0.333	mg/kg wet	3.333		77	40-140	1	30	
1,4-Dichlorobenzene	2.62	0.333	mg/kg wet	3.333		79	40-140	6	30	
2-Methylnaphthalene	2.90	0.333	mg/kg wet	3.333		87	40-140	5	30	
2-Methylphenol	3.12	0.333	mg/kg wet	3.333		94	30-130	5	30	
Acenaphthene	3.04	0.333	mg/kg wet	3.333		91	40-140	15	30	
Acenaphthylene	2.67	0.333	mg/kg wet	3.333		80	40-140	0.9	30	
Anthracene	3.16	0.333	mg/kg wet	3.333		95	40-140	7	30	
Benzo(a)anthracene	3.17	0.333	mg/kg wet	3.333		95	40-140	2	30	
Benzo(a)pyrene	3.14	0.167	mg/kg wet	3.333		94	40-140	4	30	
Benzo(b)fluoranthene	3.48	0.333	mg/kg wet	3.333		104	40-140	13	30	
Benzo(g,h,i)perylene	3.64	0.333	mg/kg wet	3.333		109	40-140	8	30	
Benzo(k)fluoranthene	3.15	0.333	mg/kg wet	3.333		95	40-140	5	30	
bis(2-Ethylhexyl)phthalate	3.64	0.333	mg/kg wet	3.333		109	40-140	10	30	
Butylbenzylphthalate	3.58	0.333	mg/kg wet	3.333		107	40-140	7	30	
Carbazole	3.10	0.333	mg/kg wet	3.333		93	40-140	10	30	
Chrysene	3.56	0.167	mg/kg wet	3.333		107	40-140	16	30	
Dibenzo(a,h)Anthracene	3.60	0.167	mg/kg wet	3.333		108	40-140	7	30	
Dibenzofuran	2.85	0.333	mg/kg wet	3.333		85	40-140	3	30	
Diethylphthalate	2.66	0.333	mg/kg wet	3.333		80	40-140	2	30	
Dimethylphthalate	2.76	0.333	mg/kg wet	3.333		83	40-140	7	30	
Di-n-butylphthalate	2.96	0.333	mg/kg wet	3.333		89	40-140	6	30	
Di-n-octylphthalate	3.68	0.333	mg/kg wet	3.333		110	40-140	3	30	
Fluoranthene	2.80	0.333	mg/kg wet	3.333		84	40-140	9	30	
Fluorene	2.99	0.333	mg/kg wet	3.333		90	40-140	5	30	
Hexachlorobenzene	3.04	0.333	mg/kg wet	3.333		91	40-140	8	30	
Hexachlorocyclopentadiene	2.06	1.67	mg/kg wet	3.333		62	40-140	10	30	
Indeno(1,2,3-cd)Pyrene	3.61	0.333	mg/kg wet	3.333		108	40-140	9	30	
Naphthalene	2.77	0.333	mg/kg wet	3.333		83	40-140	5	30	
Phenanthrene	3.14	0.333	mg/kg wet	3.333		94	40-140	7	30	
Phenol	2.62	0.333	mg/kg wet	3.333		79	30-130	2	30	
Pyrene	3.69	0.333	mg/kg wet	3.333		111	40-140	10	30	

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308109

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D Semi-Volatile Organic Compounds										
Batch CH30921 - 3546										
Surrogate: 1,2-Dichlorobenzene-d4	*2.69*		mg/kg wet	*3.333*		*81*	*30-130*			
Surrogate: 2,4,6-Tribromophenol	*4.96*		mg/kg wet	*5.000*		*99*	*30-130*			
Surrogate: 2-Chlorophenol-d4	*4.21*		mg/kg wet	*5.000*		*84*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*2.96*		mg/kg wet	*3.333*		*89*	*30-130*			
Surrogate: 2-Fluorophenol	*2.70*		mg/kg wet	*5.000*		*54*	*30-130*			
Surrogate: Nitrobenzene-d5	*2.80*		mg/kg wet	*3.333*		*84*	*30-130*			
Surrogate: Phenol-d6	*4.29*		mg/kg wet	*5.000*		*86*	*30-130*			
Surrogate: p-Terphenyl-d14	*3.56*		mg/kg wet	*3.333*		*107*	*30-130*			
8270D(SIM) Polynuclear Aromatic Hydrocarbons										
Batch CH30903 - 3541										
Blank										
2-Methylnaphthalene	ND	0.012	mg/kg wet							
Acenaphthene	ND	0.012	mg/kg wet							
Acenaphthylene	ND	0.012	mg/kg wet							
Anthracene	ND	0.012	mg/kg wet							
Benzo(a)anthracene	ND	0.012	mg/kg wet							
Benzo(a)pyrene	ND	0.012	mg/kg wet							
Benzo(b)fluoranthene	ND	0.012	mg/kg wet							
Benzo(g,h,i)perylene	ND	0.012	mg/kg wet							
Benzo(k)fluoranthene	ND	0.012	mg/kg wet							
Chrysene	ND	0.012	mg/kg wet							
Dibenzo(a,h)Anthracene	ND	0.012	mg/kg wet							
Fluoranthene	ND	0.012	mg/kg wet							
Fluorene	ND	0.012	mg/kg wet							
Indeno(1,2,3-cd)Pyrene	ND	0.012	mg/kg wet							
Naphthalene	ND	0.012	mg/kg wet							
Phenanthrene	ND	0.012	mg/kg wet							
Pyrene	ND	0.012	mg/kg wet							
Surrogate: 1,2-Dichlorobenzene-d4	*0.150*		mg/kg wet	*0.2500*		*60*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*0.148*		mg/kg wet	*0.2500*		*59*	*30-130*			
Surrogate: Nitrobenzene-d5	*0.163*		mg/kg wet	*0.2500*		*65*	*30-130*			
Surrogate: p-Terphenyl-d14	*0.214*		mg/kg wet	*0.2500*		*86*	*30-130*			
LCS										
2-Methylnaphthalene	0.154	0.012	mg/kg wet	0.2000		77	40-140			
Acenaphthene	0.146	0.012	mg/kg wet	0.2000		73	40-140			
Acenaphthylene	0.132	0.012	mg/kg wet	0.2000		66	40-140			
Anthracene	0.160	0.012	mg/kg wet	0.2000		80	40-140			
Benzo(a)anthracene	0.162	0.012	mg/kg wet	0.2000		81	40-140			
Benzo(a)pyrene	0.147	0.012	mg/kg wet	0.2000		74	40-140			
Benzo(b)fluoranthene	0.152	0.012	mg/kg wet	0.2000		76	40-140			
Benzo(g,h,i)perylene	0.136	0.012	mg/kg wet	0.2000		68	40-140			
Benzo(k)fluoranthene	0.160	0.012	mg/kg wet	0.2000		80	40-140			
Chrysene	0.154	0.012	mg/kg wet	0.2000		77	40-140			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308109

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D(SIM) Polynuclear Aromatic Hydrocarbons										
Batch CH30903 - 3541										
Dibenzo(a,h)Anthracene	0.170	0.012	mg/kg wet	0.2000		85	40-140			
Fluoranthene	0.149	0.012	mg/kg wet	0.2000		74	40-140			
Fluorene	0.149	0.012	mg/kg wet	0.2000		74	40-140			
Indeno(1,2,3-cd)Pyrene	0.150	0.012	mg/kg wet	0.2000		75	40-140			
Naphthalene	0.132	0.012	mg/kg wet	0.2000		66	40-140			
Phenanthrene	0.158	0.012	mg/kg wet	0.2000		79	40-140			
Pyrene	0.158	0.012	mg/kg wet	0.2000		79	40-140			
Surrogate: 1,2-Dichlorobenzene-d4	*0.154*		mg/kg wet	*0.2500*		*62*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*0.168*		mg/kg wet	*0.2500*		*67*	*30-130*			
Surrogate: Nitrobenzene-d5	*0.168*		mg/kg wet	*0.2500*		*67*	*30-130*			
Surrogate: p-Terphenyl-d14	*0.240*		mg/kg wet	*0.2500*		*96*	*30-130*			
LCS Dup										
2-Methylnaphthalene	0.180	0.012	mg/kg wet	0.2000		90	40-140	16	30	
Acenaphthene	0.164	0.012	mg/kg wet	0.2000		82	40-140	12	30	
Acenaphthylene	0.158	0.012	mg/kg wet	0.2000		79	40-140	18	30	
Anthracene	0.171	0.012	mg/kg wet	0.2000		86	40-140	7	30	
Benzo(a)anthracene	0.169	0.012	mg/kg wet	0.2000		84	40-140	4	30	
Benzo(a)pyrene	0.157	0.012	mg/kg wet	0.2000		78	40-140	6	30	
Benzo(b)fluoranthene	0.160	0.012	mg/kg wet	0.2000		80	40-140	5	30	
Benzo(g,h,i)perylene	0.143	0.012	mg/kg wet	0.2000		71	40-140	5	30	
Benzo(k)fluoranthene	0.169	0.012	mg/kg wet	0.2000		84	40-140	5	30	
Chrysene	0.167	0.012	mg/kg wet	0.2000		84	40-140	8	30	
Dibenzo(a,h)Anthracene	0.178	0.012	mg/kg wet	0.2000		89	40-140	4	30	
Fluoranthene	0.156	0.012	mg/kg wet	0.2000		78	40-140	4	30	
Fluorene	0.168	0.012	mg/kg wet	0.2000		84	40-140	12	30	
Indeno(1,2,3-cd)Pyrene	0.157	0.012	mg/kg wet	0.2000		78	40-140	5	30	
Naphthalene	0.162	0.012	mg/kg wet	0.2000		81	40-140	21	30	
Phenanthrene	0.169	0.012	mg/kg wet	0.2000		84	40-140	7	30	
Pyrene	0.166	0.012	mg/kg wet	0.2000		83	40-140	5	30	
Surrogate: 1,2-Dichlorobenzene-d4	*0.190*		mg/kg wet	*0.2500*		*76*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*0.186*		mg/kg wet	*0.2500*		*74*	*30-130*			
Surrogate: Nitrobenzene-d5	*0.206*		mg/kg wet	*0.2500*		*83*	*30-130*			
Surrogate: p-Terphenyl-d14	*0.248*		mg/kg wet	*0.2500*		*99*	*30-130*			
Batch CH31001 - 3541										
Blank										
2-Methylnaphthalene	ND	0.008	mg/kg wet							
Acenaphthene	ND	0.008	mg/kg wet							
Acenaphthylene	ND	0.008	mg/kg wet							
Anthracene	ND	0.008	mg/kg wet							
Benzo(a)anthracene	ND	0.008	mg/kg wet							
Benzo(a)pyrene	ND	0.008	mg/kg wet							
Benzo(b)fluoranthene	ND	0.008	mg/kg wet							
Benzo(g,h,i)perylene	ND	0.008	mg/kg wet							
Benzo(k)fluoranthene	ND	0.008	mg/kg wet							
Chrysene	ND	0.008	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308109

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D(SIM) Polynuclear Aromatic Hydrocarbons										
Batch CH31001 - 3541										
Dibenzo(a,h)Anthracene	ND	0.008	mg/kg wet							
Fluoranthene	ND	0.008	mg/kg wet							
Fluorene	ND	0.008	mg/kg wet							
Indeno(1,2,3-cd)Pyrene	ND	0.008	mg/kg wet							
Naphthalene	ND	0.008	mg/kg wet							
Phenanthrene	ND	0.008	mg/kg wet							
Pyrene	ND	0.008	mg/kg wet							
Surrogate: 1,2-Dichlorobenzene-d4	*0.202*		mg/kg wet	*0.3333*		*61*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*0.193*		mg/kg wet	*0.3333*		*58*	*30-130*			
Surrogate: Nitrobenzene-d5	*0.217*		mg/kg wet	*0.3333*		*65*	*30-130*			
Surrogate: p-Terphenyl-d14	*0.268*		mg/kg wet	*0.3333*		*80*	*30-130*			
LCS Dup										
2-Methylnaphthalene	0.210	0.017	mg/kg wet	0.2667		79	40-140	200	30	
Acenaphthene	0.193	0.017	mg/kg wet	0.2667		72	40-140	200	30	
Acenaphthylene	0.174	0.017	mg/kg wet	0.2667		65	40-140	200	30	
Anthracene	0.204	0.017	mg/kg wet	0.2667		77	40-140	200	30	
Benzo(a)anthracene	0.209	0.017	mg/kg wet	0.2667		78	40-140	200	30	
Benzo(a)pyrene	0.188	0.017	mg/kg wet	0.2667		70	40-140	200	30	
Benzo(b)fluoranthene	0.193	0.017	mg/kg wet	0.2667		72	40-140	200	30	
Benzo(g,h,i)perylene	0.167	0.017	mg/kg wet	0.2667		63	40-140	200	30	
Benzo(k)fluoranthene	0.199	0.017	mg/kg wet	0.2667		75	40-140	200	30	
Chrysene	0.204	0.017	mg/kg wet	0.2667		77	40-140	200	30	
Dibenzo(a,h)Anthracene	0.210	0.017	mg/kg wet	0.2667		79	40-140	200	30	
Fluoranthene	0.187	0.017	mg/kg wet	0.2667		70	40-140	200	30	
Fluorene	0.199	0.017	mg/kg wet	0.2667		75	40-140	200	30	
Indeno(1,2,3-cd)Pyrene	0.183	0.017	mg/kg wet	0.2667		69	40-140	200	30	
Naphthalene	0.190	0.017	mg/kg wet	0.2667		71	40-140	200	30	
Phenanthrene	0.201	0.017	mg/kg wet	0.2667		75	40-140	200	30	
Pyrene	0.206	0.017	mg/kg wet	0.2667		77	40-140	200	30	
Surrogate: 1,2-Dichlorobenzene-d4	*0.233*		mg/kg wet	*0.3333*		*70*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*0.223*		mg/kg wet	*0.3333*		*67*	*30-130*			
Surrogate: Nitrobenzene-d5	*0.238*		mg/kg wet	*0.3333*		*71*	*30-130*			
Surrogate: p-Terphenyl-d14	*0.320*		mg/kg wet	*0.3333*		*96*	*30-130*			
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CH30919 - 3546										
Blank										
C19-C36 Aliphatics1	ND	15.0	mg/kg wet							
C9-C18 Aliphatics1	ND	15.0	mg/kg wet							
Decane (C10)	ND	0.5	mg/kg wet							
Docosane (C22)	ND	0.5	mg/kg wet							
Dodecane (C12)	ND	0.5	mg/kg wet							
Eicosane (C20)	ND	0.5	mg/kg wet							
Hexacosane (C26)	ND	0.5	mg/kg wet							
Hexadecane (C16)	ND	0.5	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308109

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CH30919 - 3546										
Hexatriacontane (C36)	ND	0.5	mg/kg wet							
Nonadecane (C19)	ND	0.5	mg/kg wet							
Nonane (C9)	ND	0.5	mg/kg wet							
Octacosane (C28)	ND	0.5	mg/kg wet							
Octadecane (C18)	ND	0.5	mg/kg wet							
Tetracosane (C24)	ND	0.5	mg/kg wet							
Tetradecane (C14)	ND	0.5	mg/kg wet							
Triacontane (C30)	ND	0.5	mg/kg wet							
Surrogate: 1-Chlorooctadecane	*1.83*		mg/kg wet	*2.000*		*92*	*40-140*			
Blank										
2-Methylnaphthalene	ND	0.20	mg/kg wet							
Acenaphthene	ND	0.40	mg/kg wet							
Acenaphthylene	ND	0.20	mg/kg wet							
Anthracene	ND	0.40	mg/kg wet							
Benzo(a)anthracene	ND	0.40	mg/kg wet							
Benzo(a)pyrene	ND	0.40	mg/kg wet							
Benzo(b)fluoranthene	ND	0.40	mg/kg wet							
Benzo(g,h,i)perylene	ND	0.40	mg/kg wet							
Benzo(k)fluoranthene	ND	0.40	mg/kg wet							
C11-C22 Unadjusted Aromatics1	ND	15.0	mg/kg wet							
Chrysene	ND	0.40	mg/kg wet							
Dibenzo(a,h)Anthracene	ND	0.20	mg/kg wet							
Fluoranthene	ND	0.40	mg/kg wet							
Fluorene	ND	0.40	mg/kg wet							
Indeno(1,2,3-cd)Pyrene	ND	0.40	mg/kg wet							
Naphthalene	ND	0.40	mg/kg wet							
Phenanthrene	ND	0.40	mg/kg wet							
Pyrene	ND	0.40	mg/kg wet							
Surrogate: 2-Bromonaphthalene	*2.08*		mg/kg wet	*2.000*		*104*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*2.11*		mg/kg wet	*2.000*		*106*	*40-140*			
Surrogate: O-Terphenyl	*1.71*		mg/kg wet	*2.000*		*86*	*40-140*			
LCS										
C19-C36 Aliphatics1	16.4	15.0	mg/kg wet	16.00		103	40-140			
C9-C18 Aliphatics1	10.1	15.0	mg/kg wet	12.00		84	40-140			
Decane (C10)	1.1	0.5	mg/kg wet	2.000		54	40-140			
Docosane (C22)	1.7	0.5	mg/kg wet	2.000		87	40-140			
Dodecane (C12)	1.2	0.5	mg/kg wet	2.000		60	40-140			
Eicosane (C20)	1.7	0.5	mg/kg wet	2.000		85	40-140			
Hexacosane (C26)	1.7	0.5	mg/kg wet	2.000		85	40-140			
Hexadecane (C16)	1.6	0.5	mg/kg wet	2.000		79	40-140			
Hexatriacontane (C36)	1.6	0.5	mg/kg wet	2.000		82	40-140			
Nonadecane (C19)	1.7	0.5	mg/kg wet	2.000		83	40-140			
Nonane (C9)	0.8	0.5	mg/kg wet	2.000		40	30-140			
Octacosane (C28)	1.7	0.5	mg/kg wet	2.000		85	40-140			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308109

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CH30919 - 3546										
Octadecane (C18)	1.7	0.5	mg/kg wet	2.000		83	40-140			
Tetracosane (C24)	1.7	0.5	mg/kg wet	2.000		85	40-140			
Tetradecane (C14)	1.4	0.5	mg/kg wet	2.000		70	40-140			
Triacontane (C30)	1.7	0.5	mg/kg wet	2.000		84	40-140			
Surrogate: 1-Chlorooctadecane	*1.78*		mg/kg wet	*2.000*		*89*	*40-140*			
LCS										
2-Methylnaphthalene	1.43	0.20	mg/kg wet	2.000		71	40-140			
Acenaphthene	1.41	0.40	mg/kg wet	2.000		70	40-140			
Acenaphthylene	1.44	0.20	mg/kg wet	2.000		72	40-140			
Anthracene	1.50	0.40	mg/kg wet	2.000		75	40-140			
Benzo(a)anthracene	1.49	0.40	mg/kg wet	2.000		75	40-140			
Benzo(a)pyrene	1.79	0.40	mg/kg wet	2.000		90	40-140			
Benzo(b)fluoranthene	1.51	0.40	mg/kg wet	2.000		75	40-140			
Benzo(g,h,i)perylene	1.51	0.40	mg/kg wet	2.000		75	40-140			
Benzo(k)fluoranthene	1.69	0.40	mg/kg wet	2.000		85	40-140			
C11-C22 Unadjusted Aromatics1	29.2	15.0	mg/kg wet	34.00		86	40-140			
Chrysene	1.59	0.40	mg/kg wet	2.000		79	40-140			
Dibenzo(a,h)Anthracene	1.58	0.20	mg/kg wet	2.000		79	40-140			
Fluoranthene	1.58	0.40	mg/kg wet	2.000		79	40-140			
Fluorene	1.53	0.40	mg/kg wet	2.000		76	40-140			
Indeno(1,2,3-cd)Pyrene	1.46	0.40	mg/kg wet	2.000		73	40-140			
Naphthalene	1.28	0.40	mg/kg wet	2.000		64	40-140			
Phenanthrene	1.51	0.40	mg/kg wet	2.000		76	40-140			
Pyrene	1.54	0.40	mg/kg wet	2.000		77	40-140			
Surrogate: 2-Bromonaphthalene	*1.96*		mg/kg wet	*2.000*		*98*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*2.14*		mg/kg wet	*2.000*		*107*	*40-140*			
Surrogate: O-Terphenyl	*1.86*		mg/kg wet	*2.000*		*93*	*40-140*			
LCS										
2-Methylnaphthalene Breakthrough	0.0		%				0-5			
Naphthalene Breakthrough	0.0		%				0-5			
LCS Dup										
C19-C36 Aliphatics1	18.9	15.0	mg/kg wet	16.00		118	40-140	14	25	
C9-C18 Aliphatics1	11.7	15.0	mg/kg wet	12.00		98	40-140	15	25	
Decane (C10)	1.2	0.5	mg/kg wet	2.000		62	40-140	13	25	
Docosane (C22)	1.9	0.5	mg/kg wet	2.000		96	40-140	10	25	
Dodecane (C12)	1.4	0.5	mg/kg wet	2.000		69	40-140	13	25	
Eicosane (C20)	1.9	0.5	mg/kg wet	2.000		94	40-140	10	25	
Hexacosane (C26)	1.9	0.5	mg/kg wet	2.000		94	40-140	10	25	
Hexadecane (C16)	1.7	0.5	mg/kg wet	2.000		87	40-140	10	25	
Hexatriacontane (C36)	1.8	0.5	mg/kg wet	2.000		91	40-140	11	25	
Nonadecane (C19)	1.8	0.5	mg/kg wet	2.000		92	40-140	10	25	
Nonane (C9)	0.9	0.5	mg/kg wet	2.000		46	30-140	14	25	
Octacosane (C28)	1.9	0.5	mg/kg wet	2.000		94	40-140	10	25	

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308109

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CH30919 - 3546										
Octadecane (C18)	1.8	0.5	mg/kg wet	2.000		91	40-140	10	25	
Tetracosane (C24)	1.9	0.5	mg/kg wet	2.000		94	40-140	10	25	
Tetradecane (C14)	1.6	0.5	mg/kg wet	2.000		79	40-140	12	25	
Triacontane (C30)	1.9	0.5	mg/kg wet	2.000		93	40-140	10	25	
Surrogate: 1-Chlorooctadecane	*1.82*		mg/kg wet	*2.000*		*91*	*40-140*			
LCS Dup										
2-Methylnaphthalene	1.43	0.20	mg/kg wet	2.000		71	40-140	0.3	20	
Acenaphthene	1.45	0.40	mg/kg wet	2.000		72	40-140	3	20	
Acenaphthylene	1.44	0.20	mg/kg wet	2.000		72	40-140	0.4	20	
Anthracene	1.54	0.40	mg/kg wet	2.000		77	40-140	3	20	
Benzo(a)anthracene	1.56	0.40	mg/kg wet	2.000		78	40-140	4	20	
Benzo(a)pyrene	1.84	0.40	mg/kg wet	2.000		92	40-140	3	20	
Benzo(b)fluoranthene	1.62	0.40	mg/kg wet	2.000		81	40-140	7	20	
Benzo(g,h,i)perylene	1.56	0.40	mg/kg wet	2.000		78	40-140	4	20	
Benzo(k)fluoranthene	1.77	0.40	mg/kg wet	2.000		88	40-140	4	20	
C11-C22 Unadjusted Aromatics1	31.3	15.0	mg/kg wet	34.00		92	40-140	7	25	
Chrysene	1.66	0.40	mg/kg wet	2.000		83	40-140	4	20	
Dibenzo(a,h)Anthracene	1.64	0.20	mg/kg wet	2.000		82	40-140	4	20	
Fluoranthene	1.62	0.40	mg/kg wet	2.000		81	40-140	3	20	
Fluorene	1.57	0.40	mg/kg wet	2.000		79	40-140	3	20	
Indeno(1,2,3-cd)Pyrene	1.50	0.40	mg/kg wet	2.000		75	40-140	3	20	
Naphthalene	1.33	0.40	mg/kg wet	2.000		67	40-140	4	20	
Phenanthrene	1.56	0.40	mg/kg wet	2.000		78	40-140	3	20	
Pyrene	1.63	0.40	mg/kg wet	2.000		82	40-140	6	20	
Surrogate: 2-Bromonaphthalene	*1.95*		mg/kg wet	*2.000*		*97*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*2.12*		mg/kg wet	*2.000*		*106*	*40-140*			
Surrogate: O-Terphenyl	*1.84*		mg/kg wet	*2.000*		*92*	*40-140*			
LCS Dup										
2-Methylnaphthalene Breakthrough	0.0		%				0-5		200	
Naphthalene Breakthrough	0.0		%				0-5		200	
Batch CH31208 - 3546										
Blank										
C19-C36 Aliphatics1	ND	15.0	mg/kg wet							
C9-C18 Aliphatics1	ND	15.0	mg/kg wet							
Decane (C10)	ND	0.5	mg/kg wet							
Docosane (C22)	ND	0.5	mg/kg wet							
Dodecane (C12)	ND	0.5	mg/kg wet							
Eicosane (C20)	ND	0.5	mg/kg wet							
Hexacosane (C26)	ND	0.5	mg/kg wet							
Hexadecane (C16)	ND	0.5	mg/kg wet							
Hexatriacontane (C36)	ND	0.5	mg/kg wet							
Nonadecane (C19)	ND	0.5	mg/kg wet							
Nonane (C9)	ND	0.5	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308109

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CH31208 - 3546										
Octacosane (C28)	ND	0.5	mg/kg wet							
Octadecane (C18)	ND	0.5	mg/kg wet							
Tetracosane (C24)	ND	0.5	mg/kg wet							
Tetradecane (C14)	ND	0.5	mg/kg wet							
Triacontane (C30)	ND	0.5	mg/kg wet							
Surrogate: 1-Chlorooctadecane	*1.52*		mg/kg wet	*2.000*		*76*	*40-140*			
Blank										
2-Methylnaphthalene	ND	0.20	mg/kg wet							
Acenaphthene	ND	0.40	mg/kg wet							
Acenaphthylene	ND	0.20	mg/kg wet							
Anthracene	ND	0.40	mg/kg wet							
Benzo(a)anthracene	ND	0.40	mg/kg wet							
Benzo(a)pyrene	ND	0.40	mg/kg wet							
Benzo(b)fluoranthene	ND	0.40	mg/kg wet							
Benzo(g,h,i)perylene	ND	0.40	mg/kg wet							
Benzo(k)fluoranthene	ND	0.40	mg/kg wet							
C11-C22 Unadjusted Aromatics1	ND	15.0	mg/kg wet							
Chrysene	ND	0.40	mg/kg wet							
Dibenzo(a,h)Anthracene	ND	0.20	mg/kg wet							
Fluoranthene	ND	0.40	mg/kg wet							
Fluorene	ND	0.40	mg/kg wet							
Indeno(1,2,3-cd)Pyrene	ND	0.40	mg/kg wet							
Naphthalene	ND	0.40	mg/kg wet							
Phenanthrene	ND	0.40	mg/kg wet							
Pyrene	ND	0.40	mg/kg wet							
Surrogate: 2-Bromonaphthalene	*1.72*		mg/kg wet	*2.000*		*86*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*1.63*		mg/kg wet	*2.000*		*82*	*40-140*			
Surrogate: O-Terphenyl	*1.46*		mg/kg wet	*2.000*		*73*	*40-140*			
LCS										
C19-C36 Aliphatics1	18.7	15.0	mg/kg wet	16.00		117	40-140			
C9-C18 Aliphatics1	9.7	15.0	mg/kg wet	12.00		81	40-140			
Decane (C10)	0.9	0.5	mg/kg wet	2.000		44	40-140			
Docosane (C22)	1.8	0.5	mg/kg wet	2.000		90	40-140			
Dodecane (C12)	1.1	0.5	mg/kg wet	2.000		53	40-140			
Eicosane (C20)	1.7	0.5	mg/kg wet	2.000		86	40-140			
Hexacosane (C26)	1.8	0.5	mg/kg wet	2.000		89	40-140			
Hexadecane (C16)	1.6	0.5	mg/kg wet	2.000		78	40-140			
Hexatriacontane (C36)	1.7	0.5	mg/kg wet	2.000		87	40-140			
Nonadecane (C19)	1.7	0.5	mg/kg wet	2.000		85	40-140			
Nonane (C9)	0.6	0.5	mg/kg wet	2.000		32	30-140			
Octacosane (C28)	1.8	0.5	mg/kg wet	2.000		89	40-140			
Octadecane (C18)	1.7	0.5	mg/kg wet	2.000		84	40-140			
Tetracosane (C24)	1.8	0.5	mg/kg wet	2.000		89	40-140			
Tetradecane (C14)	1.3	0.5	mg/kg wet	2.000		67	40-140			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308109

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CH31208 - 3546										
Triacontane (C30)	1.8	0.5	mg/kg wet	2.000		88	40-140			
Surrogate: 1-Chlorooctadecane	*1.74*		mg/kg wet	*2.000*		*87*	*40-140*			
LCS										
2-Methylnaphthalene	0.93	0.20	mg/kg wet	2.000		47	40-140			
Acenaphthene	1.16	0.40	mg/kg wet	2.000		58	40-140			
Acenaphthylene	0.99	0.20	mg/kg wet	2.000		50	40-140			
Anthracene	1.13	0.40	mg/kg wet	2.000		57	40-140			
Benzo(a)anthracene	1.22	0.40	mg/kg wet	2.000		61	40-140			
Benzo(a)pyrene	1.38	0.40	mg/kg wet	2.000		69	40-140			
Benzo(b)fluoranthene	1.42	0.40	mg/kg wet	2.000		71	40-140			
Benzo(g,h,i)perylene	1.29	0.40	mg/kg wet	2.000		65	40-140			
Benzo(k)fluoranthene	1.34	0.40	mg/kg wet	2.000		67	40-140			
C11-C22 Unadjusted Aromatics1	27.0	15.0	mg/kg wet	34.00		80	40-140			
Chrysene	1.36	0.40	mg/kg wet	2.000		68	40-140			
Dibenzo(a,h)Anthracene	1.33	0.20	mg/kg wet	2.000		67	40-140			
Fluoranthene	1.17	0.40	mg/kg wet	2.000		58	40-140			
Fluorene	1.07	0.40	mg/kg wet	2.000		54	40-140			
Indeno(1,2,3-cd)Pyrene	1.09	0.40	mg/kg wet	2.000		54	40-140			
Naphthalene	0.85	0.40	mg/kg wet	2.000		43	40-140			
Phenanthrene	1.20	0.40	mg/kg wet	2.000		60	40-140			
Pyrene	1.19	0.40	mg/kg wet	2.000		60	40-140			
Surrogate: 2-Bromonaphthalene	*1.57*		mg/kg wet	*2.000*		*79*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*1.64*		mg/kg wet	*2.000*		*82*	*40-140*			
Surrogate: O-Terphenyl	*1.56*		mg/kg wet	*2.000*		*78*	*40-140*			
LCS										
2-Methylnaphthalene Breakthrough	0.0		%				0-5			
Naphthalene Breakthrough	0.0		%				0-5			
LCS Dup										
C19-C36 Aliphatics1	16.1	15.0	mg/kg wet	16.00		101	40-140	15	25	
C9-C18 Aliphatics1	9.1	15.0	mg/kg wet	12.00		76	40-140	6	25	
Decane (C10)	0.9	0.5	mg/kg wet	2.000		44	40-140	2	25	
Docosane (C22)	1.7	0.5	mg/kg wet	2.000		85	40-140	5	25	
Dodecane (C12)	1.1	0.5	mg/kg wet	2.000		53	40-140	0.2	25	
Eicosane (C20)	1.7	0.5	mg/kg wet	2.000		83	40-140	4	25	
Hexacosane (C26)	1.7	0.5	mg/kg wet	2.000		85	40-140	4	25	
Hexadecane (C16)	1.5	0.5	mg/kg wet	2.000		77	40-140	2	25	
Hexatriacontane (C36)	1.7	0.5	mg/kg wet	2.000		83	40-140	4	25	
Nonadecane (C19)	1.7	0.5	mg/kg wet	2.000		83	40-140	3	25	
Nonane (C9)	0.6	0.5	mg/kg wet	2.000		32	30-140	0.3	25	
Octacosane (C28)	1.7	0.5	mg/kg wet	2.000		85	40-140	4	25	
Octadecane (C18)	1.6	0.5	mg/kg wet	2.000		82	40-140	3	25	
Tetracosane (C24)	1.7	0.5	mg/kg wet	2.000		84	40-140	5	25	
Tetradecane (C14)	1.3	0.5	mg/kg wet	2.000		67	40-140	0.09	25	

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308109

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CH31208 - 3546										
Triacontane (C30)	1.7	0.5	mg/kg wet	2.000		85	40-140	4	25	
Surrogate: 1-Chlorooctadecane	*1.72*		mg/kg wet	*2.000*		*86*	*40-140*			
LCS Dup										
2-Methylnaphthalene	0.89	0.20	mg/kg wet	2.000		44	40-140	5	20	
Acenaphthene	1.04	0.40	mg/kg wet	2.000		52	40-140	11	20	
Acenaphthylene	0.90	0.20	mg/kg wet	2.000		45	40-140	10	20	
Anthracene	1.09	0.40	mg/kg wet	2.000		54	40-140	4	20	
Benzo(a)anthracene	1.18	0.40	mg/kg wet	2.000		59	40-140	3	20	
Benzo(a)pyrene	1.31	0.40	mg/kg wet	2.000		66	40-140	5	20	
Benzo(b)fluoranthene	1.29	0.40	mg/kg wet	2.000		65	40-140	9	20	
Benzo(g,h,i)perylene	1.20	0.40	mg/kg wet	2.000		60	40-140	7	20	
Benzo(k)fluoranthene	1.30	0.40	mg/kg wet	2.000		65	40-140	3	20	
C11-C22 Unadjusted Aromatics1	23.6	15.0	mg/kg wet	34.00		69	40-140	13	25	
Chrysene	1.31	0.40	mg/kg wet	2.000		65	40-140	4	20	
Dibenzo(a,h)Anthracene	1.25	0.20	mg/kg wet	2.000		62	40-140	7	20	
Fluoranthene	1.14	0.40	mg/kg wet	2.000		57	40-140	3	20	
Fluorene	0.98	0.40	mg/kg wet	2.000		49	40-140	9	20	
Indeno(1,2,3-cd)Pyrene	1.01	0.40	mg/kg wet	2.000		50	40-140	8	20	
Naphthalene	0.80	0.40	mg/kg wet	2.000		40	40-140	6	20	
Phenanthrene	1.11	0.40	mg/kg wet	2.000		56	40-140	8	20	
Pyrene	1.14	0.40	mg/kg wet	2.000		57	40-140	5	20	
Surrogate: 2-Bromonaphthalene	*1.51*		mg/kg wet	*2.000*		*76*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*1.55*		mg/kg wet	*2.000*		*78*	*40-140*			
Surrogate: O-Terphenyl	*1.48*		mg/kg wet	*2.000*		*74*	*40-140*			
LCS Dup										
2-Methylnaphthalene Breakthrough	0.0		%				0-5		200	
Naphthalene Breakthrough	0.0		%				0-5		200	
Batch CH31228 - 3546										
Blank										
C19-C36 Aliphatics1	ND	15.0	mg/kg wet							
C9-C18 Aliphatics1	ND	15.0	mg/kg wet							
Decane (C10)	ND	0.5	mg/kg wet							
Docosane (C22)	ND	0.5	mg/kg wet							
Dodecane (C12)	ND	0.5	mg/kg wet							
Eicosane (C20)	ND	0.5	mg/kg wet							
Hexacosane (C26)	ND	0.5	mg/kg wet							
Hexadecane (C16)	ND	0.5	mg/kg wet							
Hexatriacontane (C36)	ND	0.5	mg/kg wet							
Nonadecane (C19)	ND	0.5	mg/kg wet							
Nonane (C9)	ND	0.5	mg/kg wet							
Octacosane (C28)	ND	0.5	mg/kg wet							
Octadecane (C18)	ND	0.5	mg/kg wet							
Tetracosane (C24)	ND	0.5	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308109

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CH31228 - 3546										
Tetradecane (C14)	ND	0.5	mg/kg wet							
Triacontane (C30)	ND	0.5	mg/kg wet							
Surrogate: 1-Chlorooctadecane	*1.23*		mg/kg wet	*2.000*		*61*	*40-140*			
Blank										
2-Methylnaphthalene	ND	0.20	mg/kg wet							
Acenaphthene	ND	0.40	mg/kg wet							
Acenaphthylene	ND	0.20	mg/kg wet							
Anthracene	ND	0.40	mg/kg wet							
Benzo(a)anthracene	ND	0.40	mg/kg wet							
Benzo(a)pyrene	ND	0.40	mg/kg wet							
Benzo(b)fluoranthene	ND	0.40	mg/kg wet							
Benzo(g,h,i)perylene	ND	0.40	mg/kg wet							
Benzo(k)fluoranthene	ND	0.40	mg/kg wet							
C11-C22 Unadjusted Aromatics1	ND	15.0	mg/kg wet							
Chrysene	ND	0.40	mg/kg wet							
Dibenzo(a,h)Anthracene	ND	0.20	mg/kg wet							
Fluoranthene	ND	0.40	mg/kg wet							
Fluorene	ND	0.40	mg/kg wet							
Indeno(1,2,3-cd)Pyrene	ND	0.40	mg/kg wet							
Naphthalene	ND	0.40	mg/kg wet							
Phenanthrene	ND	0.40	mg/kg wet							
Pyrene	ND	0.40	mg/kg wet							
Surrogate: 2-Bromonaphthalene	*1.50*		mg/kg wet	*2.000*		*75*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*1.46*		mg/kg wet	*2.000*		*73*	*40-140*			
Surrogate: O-Terphenyl	*1.43*		mg/kg wet	*2.000*		*72*	*40-140*			
LCS										
C19-C36 Aliphatics1	14.7	15.0	mg/kg wet	16.00		92	40-140			
C9-C18 Aliphatics1	8.4	15.0	mg/kg wet	12.00		70	40-140			
Decane (C10)	1.0	0.5	mg/kg wet	2.000		49	40-140			
Docosane (C22)	1.6	0.5	mg/kg wet	2.000		79	40-140			
Dodecane (C12)	1.1	0.5	mg/kg wet	2.000		55	40-140			
Eicosane (C20)	1.6	0.5	mg/kg wet	2.000		78	40-140			
Hexacosane (C26)	1.6	0.5	mg/kg wet	2.000		80	40-140			
Hexadecane (C16)	1.4	0.5	mg/kg wet	2.000		71	40-140			
Hexatriacontane (C36)	1.6	0.5	mg/kg wet	2.000		81	40-140			
Nonadecane (C19)	1.6	0.5	mg/kg wet	2.000		78	40-140			
Nonane (C9)	0.8	0.5	mg/kg wet	2.000		38	30-140			
Octacosane (C28)	1.6	0.5	mg/kg wet	2.000		80	40-140			
Octadecane (C18)	1.5	0.5	mg/kg wet	2.000		77	40-140			
Tetracosane (C24)	1.6	0.5	mg/kg wet	2.000		79	40-140			
Tetradecane (C14)	1.2	0.5	mg/kg wet	2.000		62	40-140			
Triacontane (C30)	1.6	0.5	mg/kg wet	2.000		80	40-140			
Surrogate: 1-Chlorooctadecane	*1.52*		mg/kg wet	*2.000*		*76*	*40-140*			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308109

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CH31228 - 3546										
LCS										
2-Methylnaphthalene	0.98	0.20	mg/kg wet	2.000		49	40-140			
Acenaphthene	1.17	0.40	mg/kg wet	2.000		59	40-140			
Acenaphthylene	0.98	0.20	mg/kg wet	2.000		49	40-140			
Anthracene	1.15	0.40	mg/kg wet	2.000		57	40-140			
Benzo(a)anthracene	1.23	0.40	mg/kg wet	2.000		62	40-140			
Benzo(a)pyrene	1.38	0.40	mg/kg wet	2.000		69	40-140			
Benzo(b)fluoranthene	1.35	0.40	mg/kg wet	2.000		67	40-140			
Benzo(g,h,i)perylene	1.28	0.40	mg/kg wet	2.000		64	40-140			
Benzo(k)fluoranthene	1.29	0.40	mg/kg wet	2.000		65	40-140			
C11-C22 Unadjusted Aromatics1	24.6	15.0	mg/kg wet	34.00		72	40-140			
Chrysene	1.38	0.40	mg/kg wet	2.000		69	40-140			
Dibenzo(a,h)Anthracene	1.35	0.20	mg/kg wet	2.000		67	40-140			
Fluoranthene	1.23	0.40	mg/kg wet	2.000		62	40-140			
Fluorene	1.09	0.40	mg/kg wet	2.000		54	40-140			
Indeno(1,2,3-cd)Pyrene	1.12	0.40	mg/kg wet	2.000		56	40-140			
Naphthalene	0.89	0.40	mg/kg wet	2.000		45	40-140			
Phenanthrene	1.18	0.40	mg/kg wet	2.000		59	40-140			
Pyrene	1.22	0.40	mg/kg wet	2.000		61	40-140			
Surrogate: 2-Bromonaphthalene	*1.42*		mg/kg wet	*2.000*		*71*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*1.44*		mg/kg wet	*2.000*		*72*	*40-140*			
Surrogate: O-Terphenyl	*1.57*		mg/kg wet	*2.000*		*79*	*40-140*			
LCS										
2-Methylnaphthalene Breakthrough	0.0		%				0-5			
Naphthalene Breakthrough	0.0		%				0-5			
LCS Dup										
C19-C36 Aliphatics1	14.9	15.0	mg/kg wet	16.00		93	40-140	1	25	
C9-C18 Aliphatics1	8.5	15.0	mg/kg wet	12.00		71	40-140	0.8	25	
Decane (C10)	0.9	0.5	mg/kg wet	2.000		46	40-140	5	25	
Docosane (C22)	1.6	0.5	mg/kg wet	2.000		79	40-140	0.008	25	
Dodecane (C12)	1.1	0.5	mg/kg wet	2.000		54	40-140	2	25	
Eicosane (C20)	1.5	0.5	mg/kg wet	2.000		77	40-140	2	25	
Hexacosane (C26)	1.6	0.5	mg/kg wet	2.000		78	40-140	2	25	
Hexadecane (C16)	1.4	0.5	mg/kg wet	2.000		69	40-140	3	25	
Hexatriacontane (C36)	1.6	0.5	mg/kg wet	2.000		79	40-140	3	25	
Nonadecane (C19)	1.5	0.5	mg/kg wet	2.000		76	40-140	2	25	
Nonane (C9)	0.7	0.5	mg/kg wet	2.000		36	30-140	7	25	
Octacosane (C28)	1.6	0.5	mg/kg wet	2.000		79	40-140	2	25	
Octadecane (C18)	1.5	0.5	mg/kg wet	2.000		75	40-140	3	25	
Tetracosane (C24)	1.6	0.5	mg/kg wet	2.000		78	40-140	1	25	
Tetradecane (C14)	1.2	0.5	mg/kg wet	2.000		61	40-140	2	25	
Triacontane (C30)	1.6	0.5	mg/kg wet	2.000		78	40-140	2	25	
Surrogate: 1-Chlorooctadecane	*1.48*		mg/kg wet	*2.000*		*74*	*40-140*			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308109

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CH31228 - 3546										
LCS Dup										
2-Methylnaphthalene	0.98	0.20	mg/kg wet	2.000		49	40-140	0.2	20	
Acenaphthene	1.13	0.40	mg/kg wet	2.000		57	40-140	4	20	
Acenaphthylene	0.99	0.20	mg/kg wet	2.000		49	40-140	0.2	20	
Anthracene	1.15	0.40	mg/kg wet	2.000		58	40-140	0.3	20	
Benzo(a)anthracene	1.29	0.40	mg/kg wet	2.000		65	40-140	5	20	
Benzo(a)pyrene	1.41	0.40	mg/kg wet	2.000		71	40-140	2	20	
Benzo(b)fluoranthene	1.42	0.40	mg/kg wet	2.000		71	40-140	5	20	
Benzo(g,h,i)perylene	1.28	0.40	mg/kg wet	2.000		64	40-140	0.09	20	
Benzo(k)fluoranthene	1.40	0.40	mg/kg wet	2.000		70	40-140	8	20	
C11-C22 Unadjusted Aromatics1	27.1	15.0	mg/kg wet	34.00		80	40-140	9	25	
Chrysene	1.36	0.40	mg/kg wet	2.000		68	40-140	2	20	
Dibenzo(a,h)Anthracene	1.35	0.20	mg/kg wet	2.000		67	40-140	0.1	20	
Fluoranthene	1.22	0.40	mg/kg wet	2.000		61	40-140	0.8	20	
Fluorene	1.08	0.40	mg/kg wet	2.000		54	40-140	0.4	20	
Indeno(1,2,3-cd)Pyrene	1.10	0.40	mg/kg wet	2.000		55	40-140	2	20	
Naphthalene	0.88	0.40	mg/kg wet	2.000		44	40-140	1	20	
Phenanthrene	1.21	0.40	mg/kg wet	2.000		61	40-140	2	20	
Pyrene	1.23	0.40	mg/kg wet	2.000		62	40-140	0.7	20	
Surrogate: 2-Bromonaphthalene	*1.46*		mg/kg wet	*2.000*		*73*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*1.50*		mg/kg wet	*2.000*		*75*	*40-140*			
Surrogate: O-Terphenyl	*1.63*		mg/kg wet	*2.000*		*82*	*40-140*			
LCS Dup										
2-Methylnaphthalene Breakthrough	0.0		%				0-5		200	
Naphthalene Breakthrough	0.0		%				0-5		200	

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308109

Notes and Definitions

IM	Internal Standard(s) outside of criteria due to matrix (UCM/coelution is present) (IM).
C-	Continuing Calibration recovery is below lower control limit (C-).
C+	Continuing Calibration recovery is above upper control limit (C+).
D	Diluted.
D+	Relative percent difference for duplicate is outside of criteria (D+).
EL	Elevated Method Reporting Limits due to sample matrix (EL).
B+	Blank Spike recovery is above upper control limit (B+).
ICV-	Initial Calibration Verification recovery is below lower control limit (ICV-).
U	Analyte included in the analysis, but not detected
P	Percent difference between primary and confirmation results exceeds 40% (P).
PT	Pentachlorophenol tailing factor > 2.
Q	Calibration required quadratic regression (Q).
S+	Surrogate recovery(ies) above upper control limit (S+).
SD	Surrogate recovery(ies) diluted below the MRL (SD).
SM	Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).
ICV	Initial Calibration Verification recovery is outside of control limit (ICV).
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	Detection Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308109

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Department of Defense (DoD) Environmental Laboratory Accreditation Program (ELAP)
A2LA Accredited: Testing Cert# 2864.01
http://www.a2la.org/scopepdf/2864-01.pdf

Rhode Island Potable and Non Potable Water: LAI00179
http://www.health.ri.gov/labs/waterlabs-instate.php

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750
http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI0002
http://www.maine.gov/dep/blwq/topic/vessel/lab_list.pdf

Massachusetts Potable and Non Potable Water: M-RI002
http://public.dep.state.ma.us/labcert/labcert.aspx

New Hampshire (NELAP accredited) Potable and Non PotableWater, Solid and Hazardous Waste: 2424
http://www4.egov.nh.gov/des/nhelap/namesearch.asp

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313
http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006
http://datamine2.state.nj.us/dep/DEP_OPRA/

United States Department of Agriculture Soil Permit: S-54210

Maryland Potable Water: 301
http://www.mde.state.md.us/assets/document/WSP_labs-2009apr20.pdf

CHEMISTRY

A2LA Accredited: Testing Cert # 2864.01
Lead in Paint, Phthalates, Lead in Children's Metals Products (Including Jewelry)
http://www.A2LA.org/dirsearchnew/newsearch.cfm

CPSC ID# 1141
Lead Paint, Lead in Children's Metals Jewelry
http://www.cpsc.gov/cgi-bin/labapplist.aspx

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Burlington
30 Community Drive
Suite 11
South Burlington, VT 05403
Tel: (802)660-1990

TestAmerica Job ID: 200-17862-3
TestAmerica Sample Delivery Group: 200-17862-3
Client Project/Site: Soil Analysis

For:
ESS Laboratory
185 Frances Ave.
Cranston, Rhode Island 02910

Attn: Ms. Christine Taylor

Authorized for release by:
8/19/2013 4:43:39 PM

Kathryn Kelly, Project Manager I
kathryn.kelly@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Definitions/Glossary 3
Case Narrative 4
Detection Summary 5
Client Sample Results 6
QC Sample Results 8
QC Association Summary 9
Lab Chronicle 10
Certification Summary 12
Method Summary 13
Sample Summary 14
Chain of Custody 15
Receipt Checklists 20

Qualifiers

General Chemistry

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 200-17862-3

Laboratory: TestAmerica Burlington

Narrative

CASE NARRATIVE

Client: ESS Laboratory

Project: Soil Analysis

Report Number: 200-17862-3

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 08/09/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 1.4 C.

TOTAL ORGANIC CARBON

Samples 1308109-1, 1308109-3, 1308109-6, 1308109-7, 1308109-9, 1308109-11, 1308109-12, 1308109-14, 1308109-18 and 1308109-20 were analyzed for total organic carbon in accordance with Lloyd Kahn Method. The samples were analyzed on 08/14/2013.

TOC Result 2 was detected in method blank MB 200-59843/31 at a level exceeding the reporting limit. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

No other difficulties were encountered during the TOC analysis.

All other quality control parameters were within the acceptance limits.

Detection Summary

Client: ESS Laboratory
Project/Site: Soil Analysis

TestAmerica Job ID: 200-17862-3
SDG: 200-17862-3

Client Sample ID: 1308109-1 — Lab Sample ID: 200-17862-19

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	43000		2010	2010	mg/Kg	1	☼	Lloyd Kahn	Total/NA

Client Sample ID: 1308109-3 — Lab Sample ID: 200-17862-20

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	10100		1330	1330	mg/Kg	1	☼	Lloyd Kahn	Total/NA

Client Sample ID: 1308109-6 — Lab Sample ID: 200-17862-21

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	16800		1260	1260	mg/Kg	1	☼	Lloyd Kahn	Total/NA

Client Sample ID: 1308109-7 — Lab Sample ID: 200-17862-22

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	71800		1700	1700	mg/Kg	1	☼	Lloyd Kahn	Total/NA

Client Sample ID: 1308109-9 — Lab Sample ID: 200-17862-23

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	58500		3430	3430	mg/Kg	1	☼	Lloyd Kahn	Total/NA

Client Sample ID: 1308109-11 — Lab Sample ID: 200-17862-24

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	24500		1800	1800	mg/Kg	1	☼	Lloyd Kahn	Total/NA

Client Sample ID: 1308109-12 — Lab Sample ID: 200-17862-25

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	18600		1480	1480	mg/Kg	1	☼	Lloyd Kahn	Total/NA

Client Sample ID: 1308109-14 — Lab Sample ID: 200-17862-26

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	58700		2500	2500	mg/Kg	1	☼	Lloyd Kahn	Total/NA

Client Sample ID: 1308109-18 — Lab Sample ID: 200-17862-27

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	150000		6990	6990	mg/Kg	1	☼	Lloyd Kahn	Total/NA

Client Sample ID: 1308109-20 — Lab Sample ID: 200-17862-28

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	155000		6320	6320	mg/Kg	1	☼	Lloyd Kahn	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 1308109-1
Lab Sample ID: 200-17862-19
Date Collected: 08/05/13 00:00
Matrix: Sediment
Date Received: 08/09/13 10:00
Percent Solids: 49.8

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	43000		2010	2010	mg/Kg	☼		08/14/13 15:35	1
Percent Solids	49.8		0.25	0.25	%			08/12/13 15:49	1

Client Sample ID: 1308109-3
Lab Sample ID: 200-17862-20
Date Collected: 08/05/13 00:00
Matrix: Sediment
Date Received: 08/09/13 10:00
Percent Solids: 75.4

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	10100		1330	1330	mg/Kg	☼		08/14/13 15:42	1
Percent Solids	75.4		0.25	0.25	%			08/12/13 15:49	1

Client Sample ID: 1308109-6
Lab Sample ID: 200-17862-21
Date Collected: 08/05/13 00:00
Matrix: Sediment
Date Received: 08/09/13 10:00
Percent Solids: 79.4

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	16800		1260	1260	mg/Kg	☼		08/14/13 16:47	1
Percent Solids	79.4		0.25	0.25	%			08/12/13 15:49	1

Client Sample ID: 1308109-7
Lab Sample ID: 200-17862-22
Date Collected: 08/06/13 00:00
Matrix: Sediment
Date Received: 08/09/13 10:00
Percent Solids: 58.7

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	71800		1700	1700	mg/Kg	☼		08/14/13 16:55	1
Percent Solids	58.7		0.25	0.25	%			08/12/13 15:49	1

Client Sample ID: 1308109-9
Lab Sample ID: 200-17862-23
Date Collected: 08/06/13 00:00
Matrix: Sediment
Date Received: 08/09/13 10:00
Percent Solids: 29.1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	58500		3430	3430	mg/Kg	☼		08/14/13 17:02	1
Percent Solids	29.1		0.25	0.25	%			08/12/13 15:49	1

Client Sample ID: 1308109-11
Lab Sample ID: 200-17862-24
Date Collected: 08/06/13 00:00
Matrix: Sediment
Date Received: 08/09/13 10:00
Percent Solids: 55.5

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	24500		1800	1800	mg/Kg	☼		08/14/13 17:09	1
Percent Solids	55.5		0.25	0.25	%			08/12/13 15:49	1

Client: ESS Laboratory
Project/Site: Soil Analysis

TestAmerica Job ID: 200-17862-3
SDG: 200-17862-3

Client Sample ID: 1308109-12

Date Collected: 08/05/13 00:00
Date Received: 08/09/13 10:00

Lab Sample ID: 200-17862-25

Matrix: Sediment
Percent Solids: 67.6

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	18600		1480	1480	mg/Kg	☼		08/14/13 17:17	1
Percent Solids	67.6		0.25	0.25	%			08/12/13 15:49	1

Client Sample ID: 1308109-14

Date Collected: 08/05/13 00:00
Date Received: 08/09/13 10:00

Lab Sample ID: 200-17862-26

Matrix: Sediment
Percent Solids: 40.0

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	58700		2500	2500	mg/Kg	☼		08/14/13 17:24	1
Percent Solids	40.0		0.25	0.25	%			08/12/13 15:49	1

Client Sample ID: 1308109-18

Date Collected: 08/05/13 00:00
Date Received: 08/09/13 10:00

Lab Sample ID: 200-17862-27

Matrix: Sediment
Percent Solids: 14.3

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	150000		6990	6990	mg/Kg	☼		08/14/13 17:32	1
Percent Solids	14.3		0.25	0.25	%			08/12/13 15:49	1

Client Sample ID: 1308109-20

Date Collected: 08/05/13 00:00
Date Received: 08/09/13 10:00

Lab Sample ID: 200-17862-28

Matrix: Sediment
Percent Solids: 15.8

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	155000		6320	6320	mg/Kg	☼		08/14/13 17:39	1
Percent Solids	15.8		0.25	0.25	%			08/12/13 15:49	1

Method: Lloyd Kahn - Organic Carbon, Total (TOC)

Lab Sample ID: MB 200-59843/31
Matrix: Sediment
Analysis Batch: 59843

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	1000	U	1000	1000	mg/Kg			08/14/13 16:18	1

Lab Sample ID: MB 200-59843/5
Matrix: Sediment
Analysis Batch: 59843

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	1000	U	1000	1000	mg/Kg			08/14/13 12:45	1

Lab Sample ID: LCS 200-59843/32
Matrix: Sediment
Analysis Batch: 59843

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	20100	22010		mg/Kg		110	75 - 125

Lab Sample ID: LCS 200-59843/6
Matrix: Sediment
Analysis Batch: 59843

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	20100	20500		mg/Kg		102	75 - 125

Method: Moisture - Percent Moisture

Lab Sample ID: 200-17862-25 DU
Matrix: Sediment
Analysis Batch: 59672

Client Sample ID: 1308109-12
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Solids	67.6		70.4		%		4	20

General Chemistry

Analysis Batch: 59672

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-17862-19	1308109-1	Total/NA	Sediment	Moisture	
200-17862-20	1308109-3	Total/NA	Sediment	Moisture	
200-17862-21	1308109-6	Total/NA	Sediment	Moisture	
200-17862-22	1308109-7	Total/NA	Sediment	Moisture	
200-17862-23	1308109-9	Total/NA	Sediment	Moisture	
200-17862-24	1308109-11	Total/NA	Sediment	Moisture	
200-17862-25	1308109-12	Total/NA	Sediment	Moisture	
200-17862-25 DU	1308109-12	Total/NA	Sediment	Moisture	
200-17862-26	1308109-14	Total/NA	Sediment	Moisture	
200-17862-27	1308109-18	Total/NA	Sediment	Moisture	
200-17862-28	1308109-20	Total/NA	Sediment	Moisture	

Analysis Batch: 59843

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-17862-19	1308109-1	Total/NA	Sediment	Lloyd Kahn	
200-17862-20	1308109-3	Total/NA	Sediment	Lloyd Kahn	
200-17862-21	1308109-6	Total/NA	Sediment	Lloyd Kahn	
200-17862-22	1308109-7	Total/NA	Sediment	Lloyd Kahn	
200-17862-23	1308109-9	Total/NA	Sediment	Lloyd Kahn	
200-17862-24	1308109-11	Total/NA	Sediment	Lloyd Kahn	
200-17862-25	1308109-12	Total/NA	Sediment	Lloyd Kahn	
200-17862-26	1308109-14	Total/NA	Sediment	Lloyd Kahn	
200-17862-27	1308109-18	Total/NA	Sediment	Lloyd Kahn	
200-17862-28	1308109-20	Total/NA	Sediment	Lloyd Kahn	
LCS 200-59843/32	Lab Control Sample	Total/NA	Sediment	Lloyd Kahn	
LCS 200-59843/6	Lab Control Sample	Total/NA	Sediment	Lloyd Kahn	
MB 200-59843/31	Method Blank	Total/NA	Sediment	Lloyd Kahn	
MB 200-59843/5	Method Blank	Total/NA	Sediment	Lloyd Kahn	

Lab Chronicle

Client: ESS Laboratory
Project/Site: Soil Analysis

TestAmerica Job ID: 200-17862-3
SDG: 200-17862-3

Client Sample ID: 1308109-1
Lab Sample ID: 200-17862-19
Date Collected: 08/05/13 00:00
Matrix: Sediment
Date Received: 08/09/13 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	59672	08/12/13 15:49	VTP	TAL BUR
Total/NA	Analysis	Lloyd Kahn		1	59843	08/14/13 15:35	VTP	TAL BUR

Client Sample ID: 1308109-3
Lab Sample ID: 200-17862-20
Date Collected: 08/05/13 00:00
Matrix: Sediment
Date Received: 08/09/13 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	59672	08/12/13 15:49	VTP	TAL BUR
Total/NA	Analysis	Lloyd Kahn		1	59843	08/14/13 15:42	VTP	TAL BUR

Client Sample ID: 1308109-6
Lab Sample ID: 200-17862-21
Date Collected: 08/05/13 00:00
Matrix: Sediment
Date Received: 08/09/13 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	59672	08/12/13 15:49	VTP	TAL BUR
Total/NA	Analysis	Lloyd Kahn		1	59843	08/14/13 16:47	VTP	TAL BUR

Client Sample ID: 1308109-7
Lab Sample ID: 200-17862-22
Date Collected: 08/06/13 00:00
Matrix: Sediment
Date Received: 08/09/13 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	59672	08/12/13 15:49	VTP	TAL BUR
Total/NA	Analysis	Lloyd Kahn		1	59843	08/14/13 16:55	VTP	TAL BUR

Client Sample ID: 1308109-9
Lab Sample ID: 200-17862-23
Date Collected: 08/06/13 00:00
Matrix: Sediment
Date Received: 08/09/13 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	59672	08/12/13 15:49	VTP	TAL BUR
Total/NA	Analysis	Lloyd Kahn		1	59843	08/14/13 17:02	VTP	TAL BUR

Client Sample ID: 1308109-11
Lab Sample ID: 200-17862-24
Date Collected: 08/06/13 00:00
Matrix: Sediment
Date Received: 08/09/13 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	59672	08/12/13 15:49	VTP	TAL BUR

Lab Chronicle

Client: ESS Laboratory
Project/Site: Soil Analysis

TestAmerica Job ID: 200-17862-3
SDG: 200-17862-3

Client Sample ID: 1308109-11

Date Collected: 08/06/13 00:00
Date Received: 08/09/13 10:00

Lab Sample ID: 200-17862-24

Matrix: Sediment
Percent Solids: 55.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	59843	08/14/13 17:09	VTP	TAL BUR

Client Sample ID: 1308109-12

Date Collected: 08/05/13 00:00
Date Received: 08/09/13 10:00

Lab Sample ID: 200-17862-25

Matrix: Sediment

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	59672	08/12/13 15:49	VTP	TAL BUR
Total/NA	Analysis	Lloyd Kahn		1	59843	08/14/13 17:17	VTP	TAL BUR

Client Sample ID: 1308109-14

Date Collected: 08/05/13 00:00
Date Received: 08/09/13 10:00

Lab Sample ID: 200-17862-26

Matrix: Sediment

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	59672	08/12/13 15:49	VTP	TAL BUR
Total/NA	Analysis	Lloyd Kahn		1	59843	08/14/13 17:24	VTP	TAL BUR

Client Sample ID: 1308109-18

Date Collected: 08/05/13 00:00
Date Received: 08/09/13 10:00

Lab Sample ID: 200-17862-27

Matrix: Sediment

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	59672	08/12/13 15:49	VTP	TAL BUR
Total/NA	Analysis	Lloyd Kahn		1	59843	08/14/13 17:32	VTP	TAL BUR

Client Sample ID: 1308109-20

Date Collected: 08/05/13 00:00
Date Received: 08/09/13 10:00

Lab Sample ID: 200-17862-28

Matrix: Sediment

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	59672	08/12/13 15:49	VTP	TAL BUR
Total/NA	Analysis	Lloyd Kahn		1	59843	08/14/13 17:39	VTP	TAL BUR

Laboratory References:

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Certification Summary

Client: ESS Laboratory
Project/Site: Soil Analysis

TestAmerica Job ID: 200-17862-3
SDG: 200-17862-3

Laboratory: TestAmerica Burlington

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Connecticut	State Program	1	PH-0751	09-30-13
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	NA	02-13-15
Florida	NELAP	4	E87467	06-30-14
L-A-B	DoD ELAP		L2336	10-26-13
Louisiana	NELAP	6	176292	06-30-14
Maine	State Program	1	VT00008	04-17-15
Minnesota	NELAP	5	050-999-436	12-31-13
New Hampshire	NELAP	1	2006	12-18-13
New Jersey	NELAP	2	VT972	06-30-14
New York	NELAP	2	10391	04-01-14
Pennsylvania	NELAP	3	68-00489	04-30-14
Rhode Island	State Program	1	LAO00298	12-30-13
US Fish & Wildlife	Federal		LE-058448-0	02-28-14
USDA	Federal		P330-11-00093	02-17-14
Vermont	State Program	1	VT-4000	12-31-13
Virginia	NELAP	3	460209	12-14-13

Method Summary

Client: ESS Laboratory
Project/Site: Soil Analysis

TestAmerica Job ID: 200-17862-3
SDG: 200-17862-3

Method	Method Description	Protocol	Laboratory
Lloyd Kahn	Organic Carbon, Total (TOC)	EPA	TAL BUR
Moisture	Percent Moisture	EPA	TAL BUR

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Sample Summary

Client: ESS Laboratory
Project/Site: Soil Analysis

TestAmerica Job ID: 200-17862-3
SDG: 200-17862-3

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
200-17862-19	1308109-1	Sediment	08/05/13 00:00	08/09/13 10:00
200-17862-20	1308109-3	Sediment	08/05/13 00:00	08/09/13 10:00
200-17862-21	1308109-6	Sediment	08/05/13 00:00	08/09/13 10:00
200-17862-22	1308109-7	Sediment	08/06/13 00:00	08/09/13 10:00
200-17862-23	1308109-9	Sediment	08/06/13 00:00	08/09/13 10:00
200-17862-24	1308109-11	Sediment	08/06/13 00:00	08/09/13 10:00
200-17862-25	1308109-12	Sediment	08/05/13 00:00	08/09/13 10:00
200-17862-26	1308109-14	Sediment	08/05/13 00:00	08/09/13 10:00
200-17862-27	1308109-18	Sediment	08/05/13 00:00	08/09/13 10:00
200-17862-28	1308109-20	Sediment	08/05/13 00:00	08/09/13 10:00

ESS Laboratory

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

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Turn Time ___ Standard Other 4 day
If faster than 5 days, prior approval by laboratory is required # _____

State where samples were collected from:
(MA) RI CT NH NJ NY ME Other _____

Is this project for any of the following:
(MA-MCP) Navy USACE Other _____

Reporting Limits | ESS LAB PROJECT ID

Electronic Deliverable Yes ✓ No ___
Format: Excel __ Access __ PDF __ Other ✓

Co. Name	Project #	Project Name (20 Char. or less)
ESS	1308108	

Contact Person	Address
Christine Taylor	

City	State	Zip	PO#
			1308108

Telephone #	Fax #	Email Address
		ctaylor@thielsch.com

ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	Write Required Analysis: TCL Glycol/Meth
	8/6			✓	Sed	1308108-1	1	1	6	X
	8/2					-2				
	8/2					-4				
	8/6					-5				
	8/5					-9				
	8/5					-12				
	8/6					-13				
	8/5					-16				
	8/2					-18				
	8/2									

200-17862 COC

Container Type: P-Poly G-Glass S-Sterile V-VOA | Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present ___ Yes ___ No | Internal Use Only
Seals Intact ___ Yes ___ No NA: ___ [ ] Pickup
Cooler Temp: _____ [ ] Technicians _____

Preservation Code 1- NP, 2- HCl, 3- H_2SO_4, 4- HNO_3, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9- _____

Sampled by:

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	8/9/13 1800						
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
			8/9/13 1000				

*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A

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10/26/04 A

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Turn Time ___ Standard Other 4 day
If faster than 5 days, prior approval by laboratory is required #

State where samples were collected from:
MA RI CT NH NJ NY ME Other _____

Is this project for any of the following:
MA-MCP Navy USACE Other _____

Reporting Limits

ESS LAB PROJECT ID

Electronic Deliverable Yes ✓ No ___
Format: Excel __ Access __ PDF ✓ Other _____

Co. Name: ESS	Project #: 1308109	Project Name (20 Char. or less):	
Contact Person: C. Taylor	Address:		
City:	State:	Zip:	PO#: 1308109
Telephone #:	Fax #:	Email Address: ctaylor@thielsch.com	

ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	TIC Lloyd Khan
	8/5			✓	Sed	1308109-1	1	1	6	X
	8/5					-3				
	8/5					-6				
	8/6					-7				
	8/6					8/8 8/8 -9				
	8/6					-11				
	8/5					-12				
	8/5					-14				
	8/5					-17				
	8/5			↓	↓	-20	↓	↓	↓	↓

Container Type: P-Poly G-Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present ___ Yes ___ No Internal Use Only

Seals Intact ___ Yes ___ No NA: ___ [ ] Pickup

Cooler Temp: _____ [ ] Technicians _____

Preservation Code 1- NP, 2- HCl, 3- H_2SO_4, 4- HNO_3, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9-_____

Sampled by:

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	3/8/13 1800	Fed ex					
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
			8/9/13 1000				

*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A

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10/26/04 A

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www.esslaboratory.com

CHAIN OF CUSTODY

Turn Time: Standard (5-7 days) Other 4 day
If faster than 5 days, prior approval by laboratory is required #

State where samples were collected from:
MA RI CT NH NJ NY ME Other ____

Is this project for any of the following:
MA-MCP Navy USACE Other ____

Reporting Limits

ESS LAB PROJECT ID

Electronic Deliverable Yes ✓ No ___
Format: Excel __ Access __ PDF ✓ Other ____

Co. Name	Project #	Project Name (20 Char. or less)
ESS	1308110	

Contact Person	Address
C Taylor	

City	State	Zip	PO#

Telephone #	Fax #	Email Address
		ctaylor@thielsch.com

ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	Write Required Analysis: BC (Cyc/Kan)
	8/5			✓	Sed	1308110-2	1	1	6	X
	8/5			↓	↓	-5	↓	↓	↓	↓
	8/5					-6				
	8/5					-9				
	8/5			↓	↓	-12	↓	↓	↓	↓

Container Type: P-Poly G-Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present ___ Yes ___ No Internal Use Only

Seals Intact ___ Yes ___ No NA: ___ [ ] Pickup

Cooler Temp: ____ [ ] Technicians ____

Preservation Code 1- NP, 2- HCl, 3- H_2SO_4, 4- HNO_3, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9- ____

Sampled by:

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	8/8/13 1800	Fed ex					
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
			8/9/13 1000				

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Turn Time ___ Standard Other 4 day
If faster than 5 days, prior approval by laboratory is required # _____

State where samples were collected from:
(MA) RI CT NH NJ NY ME Other _____

Is this project for any of the following:
(MA-MCP) Navy USACE Other _____

Reporting Limits

ESS LAB PROJECT ID

Electronic Deliverable Yes ✓ No ___
Format: Excel __ Access __ PDF ✓ Other _____

Co. Name	Project #	Project Name (20 Char. or less)
ESS	1308107	

Contact Person	Address
Christine Taylor	

City	State	Zip	PO#

Telephone #	Fax #	Email Address
		ctaylor@thielsch.com

ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	Write Required Analysis: TOC (Lloyd Kahn)
	8/6	0837		✓	Sed	1308107-4	1	1	6	X
	8/1	1443		↓	↓	-6	↓	↓	↓	↓
	8/2	1232				-9				
	8/2	1232				-10				
	8/5	1250				-12				
	↓	1250				-13				
		1250				-16				
	↓	1350				-18	↓	↓	↓	↓
				↓	↓					

Container Type: P-Poly G-Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present ___ Yes ___ No

Seals Intact ___ Yes ___ No NA: ___

Cooler Temp: _____

Internal Use Only
[ ] Pickup
[ ] Technicians ____

Preservation Code 1- NP, 2- HCl, 3- H_2SO_4, 4- HNO_3, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9- _____

Sampled by:

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
[signature]	8/8/13 1800	Fed Ex	8/8/13	[signature]			
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
		[signature]	8/9/13 1000				

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10/26/04 A

From: (401) 467-6454
Sample Receiving
ESS Lab
185 Frances Ave

Cranston, RI 02910

Origin ID: PVDA

FedEx Express

J13201306260326

Ship Date: 08AUG13
ActWgt: 47.0 LB
CAD: 105103550/INET3430

Delivery Address Bar Code

SHIP TO: (802) 660-1990 BILL SENDER

Sample Receiving
Test America
30 Community Dr
Ste 11
S BURLINGTON, VT 05403

Ref #
Invoice #
PO #
Dept #

FRI - 09 AUG 10:30A
PRIORITY OVERNIGHT

TRK# 0201 7964 2397 6923

EK BTVA

05403
VT-US
BTV

51AG1/09B9/1A9E

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1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.
Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com.FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery,misdelivery,or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim.Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental,consequential, or special is limited to the greater of $100 or the authorized declared value. Recovery cannot exceed actual documented loss.Maximum for items of extraordinary value is $1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

Login Sample Receipt Checklist

Client: ESS Laboratory

Job Number: 200-17862-3
SDG Number: 200-17862-3

Login Number: 17862
List Number: 1
Creator: Marion, Greg T

List Source: TestAmerica Burlington

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.4ºC IR GUN ID 181/CF=-0.2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	Refer to Job Narrative for details.
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Received extra samples not listed on COC.
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	False	Refer to Job Narrative for details.
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

Sample and Cooler Receipt Checklist

Client: GZA GeoEnvironmental, Inc.
Client Project ID: _____
Shipped/Delivered Via: ESS Courier

ESS Project ID: 13080109
Date Project Due: 8/14/13
Days For Project: 5 Day

Items to be checked upon receipt:

1. Air Bill Manifest Present?	* No	10. Are the samples properly preserved?	Yes
Air No.:		11. Proper sample containers used?	Yes
2. Were Custody Seals Present?	No	12. Any air bubbles in the VOA vials?	N/A
3. Were Custody Seals Intact?	N/A	13. Holding times exceeded?	No
4. Is Radiation count < 100 CPM?	Yes	14. Sufficient sample volumes?	Yes
5. Is a cooler present?	Yes	15. Any Subcontracting needed?	* Yes
Cooler Temp: **3.2**		16. Are ESS labels on correct containers?	**Yes|No**
Iced With: **Ice**		17. Were samples received intact?	**Yes|No**
6. Was COC included with samples?	Yes	ESS Sample IDs: 2, 5, 6, 9, 12	
7. Was COC signed and dated by client?	Yes	Sub Lab: ~~Stl~~ / TA	
8. Does the COC match the sample	Yes	Analysis: TOC	
9. Is COC complete and correct?	Yes	TAT: 4d.	

18. Was there need to call project manager to discuss status? If yes, please explain.

_____

_____

_____

Who was called?:_____ By whom? _____

Sample Number	Properly Preserved	Container Type	# of Containers	Preservative
1	Yes	2 oz Soil Jar	1	NP
1	Yes	4 oz Soil Jar	1	NP
1	Yes	8 oz Soil Jar	1	NP
2	Yes	4 oz Soil Jar	1	NP
2	Yes	8 oz Soil Jar	1	NP
3	Yes	2 oz Soil Jar	1	NP
3	Yes	4 oz Soil Jar	1	NP
3	Yes	8 oz Soil Jar	1	NP
4	Yes	4 oz Soil Jar	1	NP
4	Yes	8 oz Soil Jar	1	NP
5	Yes	4 oz Soil Jar	1	NP
5	Yes	8 oz Soil Jar	1	NP
6	Yes	2 oz Soil Jar	1	NP
6	Yes	4 oz Soil Jar	1	NP
6	Yes	8 oz Soil Jar	1	NP
7	Yes	2 oz Soil Jar	1	NP
7	Yes	4 oz Soil Jar	1	NP
7	Yes	8 oz Soil Jar	1	NP
8	Yes	4 oz Soil Jar	1	NP
8	Yes	8 oz Soil Jar	1	NP
9	Yes	2 oz Soil Jar	1	NP
9	Yes	4 oz Soil Jar	1	NP
9	Yes	8 oz Soil Jar	1	NP
10	Yes	4 oz Soil Jar	1	NP
10	Yes	8 oz Soil Jar	1	NP

Sample and Cooler Receipt Checklist

Client: GZA GeoEnvironmental, Inc. ESS Project ID: 13080109

11	Yes	2 oz Soil Jar	1	NP
11	Yes	4 oz Soil Jar	1	NP
11	Yes	8 oz Soil Jar	1	NP
12	Yes	2 oz Soil Jar	1	NP
12	Yes	4 oz Soil Jar	1	NP
12	Yes	8 oz Soil Jar	1	NP
13	Yes	4 oz Soil Jar	1	NP
13	Yes	8 oz Soil Jar	1	NP
14	Yes	2 oz Soil Jar	1	NP
14	Yes	4 oz Soil Jar	1	NP
14	Yes	8 oz Soil Jar	1	NP
15	Yes	4 oz Soil Jar	1	NP
15	Yes	8 oz Soil Jar	1	NP
16	Yes	4 oz Soil Jar	1	NP
16	Yes	8 oz Soil Jar	1	NP
17	Yes	4 oz Soil Jar	1	NP
17	Yes	8 oz Soil Jar	1	NP
18	Yes	2 oz Soil Jar	1	NP
18	Yes	4 oz Soil Jar	1	NP
18	Yes	8 oz Soil Jar	1	NP
19	Yes	4 oz Soil Jar	1	NP
19	Yes	8 oz Soil Jar	1	NP
20	Yes	2 oz Soil Jar	1	NP
20	Yes	4 oz Soil Jar	1	NP
20	Yes	8 oz Soil Jar	1	NP

Completed By: _____ Date/Time: 8/8/13 11:57

Reviewed By: _____ Date/Time: 8/8/13 1155

ESS Laboratory

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

ESS LAB PROJECT ID: 1308109

Turn Time ___x___ Standard Rush _____ Approved By: _____

Reporting Limits - see prev. email correspondence

State where samples were collected: MA RI CT NH NJ NY ME Other_____

Is this project for any of the following: (please circle)
MA-MCP CT-RCP RGP DOD Other_____

Electonic Deliverable Yes__x__ No____
Format: Excel_x__ Access___ PDF___ Other_____

GZA Project Manager: David E. Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Avenue
Norwood, MA 02062
(781) 278-3700
PRESUMPTIVE CERTAINTY REQUIRED

Project # 171521.02

Project Name: Former Everett Staging Yard

Contract Pricing ____
Special Pricing WO#: _____

ESS Lab Sample ID	Date	Collection Time	Grab -G Composite-C	Matrix	Sample Identification	# of Containers	MCP 14 metals	B/N Phthalates Esters 8270	PAH 8270 SIM	EPH Fractions	PCBs	TOC by Lloyd Kahn					Comment #
						Analysis											
1	8/5/13	8:20	G	Sed	GZ-139 0-0.5'	2	X					X					
2	8/5/13	8:20	G	Sed	GZ-139 2-4'	2	X										
3	8/5/13	8:20	G	Sed	GZ-139 6-8'	2	X					X					
4	8/5/13	8:45	G	Sed	GZ-140A 0-0.5'	2	X										
5	8/5/13	8:45	G	Sed	GZ-140A 0.5-2'	2	X										
6	8/5/13	8:45	G	Sed	GZ-140A 2-3'	2	X	X	X	X	X	X					
7	8/6/13	11:20	G	Sed	GZ-LC1 T 0-0.5'	2	X	X	X	X	X	X					
8	8/5/13	13:30	G	Sed	GZ-LC1 2-4'	2	X	X	X	X	X						
9	8/6/13	11:26	G	Sed	GZ-LC2 T 0-0.5'	2	X	X	X	X	X	X					
10	8/5/13	14:05	G	Sed	GZ-LC2 2-4'	2	X	X	X	X	X						
							AG	AG	AG	AG	AG	AG					

Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-_____

Container Type: P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filter

Cooler Present ✓ Yes _____ No
Seals Intact ✓ Yes _____ No NA: BB
Cooler Temperature: 4-13.6-4.8-2.6-3.2

Sampled by : Dan Scanlon

Comments: Contract Price - 10%

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
[signature]	8/6/13 1320	[signature] 8/7/13 1080	[signature] 8/7/13	1120	[signature] 8/7/13 0800

Please E-mail all changes to Chain of Custody in writing.

Page 13 of 16

ESS Laboratory

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Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

ESS LAB PROJECT ID: 1308109

Turn Time ___x___ Standard Rush_____ Approved By: _____

Reporting Limits - see prev. email correspondence

State where samples were collected: MA RI CT NH NJ NY ME Other_____

Is this project for any of the following: (please circle)
MA-MCP CT-RCP RGP DOD Other_____

Electonic Deliverable Yes__x__ No____
Format: Excel_x__ Access___ PDF___ Other_____

GZA Project Manager: David E. Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Avenue
Norwood, MA 02062
(781) 278-3700
PRESUMPTIVE CERTAINTY REQUIRED

Project # 171521.02
Project Name: Former Everett Staging Yard
Contract Pricing _____
Special Pricing WO#: _____

ESS Lab Sample ID	Date	Collection Time	Grab -G Composite-C	Matrix	Sample Identification	# of Containers	MCP 14 metals	B/N Phthalates Esters 8270	PAH 8270 SIM	EPH Fractions	PCBs	TOC by Lloyd Kahn					Comment #
						Analysis											
11	8/6/13	11:36	G	Sed	GZ-LC3 T 0-0.5'	2	X	X	X	X	X	X					
12	8/5/13	14:15	G	Sed	GZ-LC-3 0.5-2'	2	X	X	X	X	X	X					
13	8/5/13	14:15	G	Sed	GZ-LC-3 4-6'	2	X	X	X	X	X						
14	8/6/13	11:42	G	Sed	GZ-LC4 T 0-0.5'	2	X	X	X	X	X	X					
15	8/5/13	14:25	G	Sed	GZ-LC4 0.5-2'	2	X	X	X	X	X						
16	8/5/13	14:25	G	Sed	GZ-LC4 2-4'	2	X	X	X	X	X						
17	8/5/13	14:25	G	Sed	GZ-LC4 4-6'	2	X	X	X	X	X						
18	8/5/13	14:50	G	Sed	GZ-LC5 0-0.5'	2	X	X	X	X	X	X					
19	8/5/13	14:50	G	Sed	GZ-LC5 2-4'	2	X	X	X	X	X						
20	8/5/13	15:05	G	Sed	GZ-LC6 0-0.5'	2	X	X	X	X	X	X					
Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-_____																	
Container Type: P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA							AG	AG	AG	AG	AG	AG					
Matrix: S-Soil SD-Solid D-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filter																	

Cooler Present ✓ Yes _____ No
Loose Ice
Seals Intact ✓ Yes _____ No NA: BB
5 coolers
Cooler Temperature: 4.1 3.6 4.8 2.6 3.2

Sampled by : Dan Scanlon
Comments: Contract Price - 10%

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Walsen	8/6/13 0820	Bob Beeson 8/7/13 1030	Bob Beeson 8/7/13	1120	8/7/13 1800

Please E-mail all changes to Chain of Custody in writing.

Page 19 of 16

CERTIFICATE OF ANALYSIS

David E Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Avenue
Norwood, MA 02062

RE: Everett (01.0171521.02)
ESS Laboratory Work Order Number: 1308110

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard
Laboratory Director

REVIEWED
By ESS Laboratory at 1:29 pm, Aug 20, 2013

Analytical Summary
The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with NELAC Standards, A2LA and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibratins, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.

Subcontracted Analyses

TestAmerica Laboratories, Inc. - Burlington, VT	Total Organic Carbon

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308110

SAMPLE RECEIPT

The following samples were received on August 07, 2013 for the analyses specified on the enclosed Chain of Custody Record.

To achieve CAM compliance for MCP data, ESS Laboratory has performed and reviewed all QA/QC Requirements and Performance Standards listed in each method. Holding times and preservation have also been reviewed. All CAM requirements have been achieved unless noted in the project narrative.

Each method has been set-up in the laboratory to reach required MCP standards. The methods for aqueous VOA and Soil Methanol VOA have known limitations for certain analytes. The regulatory standards may not be achieved due to these limitations. In addition, for all methods, matrix interferences, dilutions, and %Solids may elevate method reporting limits above regulatory standards. ESS Laboratory can provide, upon request, a Data Checker (regulatory standard comparison spreadsheet) electronic deliverable which will highlight these exceedances.

For EPH soil samples, the aromatic range results have been corrected for identified cartridge contaminant in accordance with the CAM protocol.

Question I: All samples for SVOA were analyzed for a subset of the required MCP list per the client's request.

Lab Number	SampleName	Matrix	Analysis
1308110-01	GZ-LC6 2-4ft	Soil	6010B, 6020A, 7471B, 8082A, 8270D, EPH8270, MADEP-EPH
1308110-02	GZ-LC7 0-0.5ft	Soil	6010B, 6020A, 7471B, 8082A, 8270D, EPH8270, MADEP-EPH, TOC-LK
1308110-03	GZ-LC7 2-4ft	Soil	6010B, 6020A, 7471B, 8082A, 8270D, EPH8270, MADEP-EPH
1308110-04	GZ-LC7 4-5ft4in	Soil	6010B, 6020A, 7471B, 8082A, 8270D, EPH8270, MADEP-EPH
1308110-05	GZ-LC8 0-0.5ft	Soil	6010B, 6020A, 7471B, 8082A, 8270D, EPH8270, MADEP-EPH, TOC-LK
1308110-06	GZ-LC8 2-4ft	Soil	6010B, 6020A, 7471B, 8082A, 8270D, EPH8270, MADEP-EPH, TOC-LK
1308110-07	GZ-LC8 4-6ft	Soil	6010B, 6020A, 7471B, 8082A, 8270D, EPH8270, MADEP-EPH
1308110-08	GZ-LC8 6-7ft3in	Soil	6010B, 6020A, 7471B, 8082A, 8270D, EPH8270, MADEP-EPH
1308110-09	GZ-LC9 0-0.5ft	Soil	6010B, 6020A, 7471B, 8082A, 8270D, EPH8270, MADEP-EPH, TOC-LK
1308110-10	GZ-LC9 2-4ft	Soil	6010B, 6020A, 7471B, 8082A, 8270D, EPH8270, MADEP-EPH

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
ESS Laboratory Work Order: 1308110

1308110-11	GZ-LC9 4-5ft2in	Soil	6010B, 6020A, 7471B, 8082A, 8270D, EPH8270, MADEP-EPH
1308110-12	GZ-LC10 0-0.5ft	Soil	6010B, 6020A, 7471B, 8082A, 8270D, EPH8270, MADEP-EPH, TOC-LK
1308110-13	GZ-LC10 2-4ft	Soil	6010B, 6020A, 7471B, 8082A, 8270D, EPH8270, MADEP-EPH

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308110

PROJECT NARRATIVE

8270D Semi-Volatile Organic Compounds

CH31223-BS1	**Blank Spike recovery is below lower control limit (B-).** Hexachlorocyclopentadiene (36% @ 40-140%)
CH31223-BSD1	**Blank Spike recovery is below lower control limit (B-).** Hexachlorocyclopentadiene (36% @ 40-140%)
CWH0124-CCV1	**Calibration required quadratic regression (Q).** 2,4-Dinitrophenol (109% @ 80-120%), Benzoic Acid (106% @ 70-130%)
CWH0124-CCV1	**Continuing Calibration recovery is above upper control limit (C+).** 3+4-Methylphenol (121% @ 80-120%), 4-Chloroaniline (126% @ 80-120%)
CWH0124-CCV1	**Continuing Calibration recovery is below lower control limit (C-).** Acenaphthene (77% @ 80-120%)
CWH0124-CCV1	**Initial Calibration Verification recovery is below lower control limit (ICV-).** 2,4-Dinitrophenol
CWH0124-CCV1	**Initial Calibration Verification recovery is outside of control limit (ICV).** 1,1-Biphenyl
CWH0140-CCV1	**Calibration required quadratic regression (Q).** 2,4-Dinitrophenol (110% @ 80-120%), 4,6-Dinitro-2-Methylphenol (108% @ 70-130%), Benzoic Acid (66% @ 70-130%), Pentachlorophenol (73% @ 80-120%)
CWH0140-CCV1	**Continuing Calibration recovery is below lower control limit (C-).** Benzoic Acid (66% @ 70-130%), N-Nitrosodimethylamine (71% @ 80-120%), Pentachlorophenol (73% @ 80-120%)
CWH0140-CCV1	**Initial Calibration Verification recovery is outside of control limit (ICV).** Benzidine , Hexachlorocyclopentadiene
CWH0140-TUN1	**Pentachlorophenol tailing factor > 2.**
CWH0143-CCV1	**Calibration required quadratic regression (Q).** 2,4-Dinitrophenol (106% @ 80-120%), Benzoic Acid (135% @ 70-130%)
CWH0143-CCV1	**Continuing Calibration recovery is above upper control limit (C+).** 2,4,6-Tribromophenol (127% @ 80-120%), 2-Fluorophenol (127% @ 80-120%), 4-Bromophenyl-phenylether (128% @ 80-120%), Aniline (130% @ 80-120%), Benzoic Acid (135% @ 70-130%)
CWH0143-CCV1	**Initial Calibration Verification recovery is outside of control limit (ICV).** 1,1-Biphenyl , 2,4-Dinitrophenol
CWH0147-CCV1	**Calibration required quadratic regression (Q).** 2,4-Dinitrophenol (78% @ 80-120%), 4,6-Dinitro-2-Methylphenol (93% @ 70-130%), Benzoic Acid (34% @ 70-130%), Pentachlorophenol (76% @ 80-120%)
CWH0147-CCV1	**Continuing Calibration recovery is below lower control limit (C-).** 2,4-Dinitrophenol (78% @ 80-120%), Benzoic Acid (34% @ 70-130%), Hexachlorocyclopentadiene (59% @ 70-130%), N-Nitrosodimethylamine (56% @ 80-120%), Pentachlorophenol (76% @ 80-120%)
CWH0147-CCV1	**Initial Calibration Verification recovery is outside of control limit (ICV).** Benzidine , Hexachlorocyclopentadiene
CWH0147-TUN1	**Pentachlorophenol tailing factor > 2.**

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett ESS Laboratory Work Order: 1308110

CWH0158-CCV1 **Calibration required quadratic regression (Q).**
2,4-Dinitrophenol (69% @ 80-120%), 4,6-Dinitro-2-Methylphenol (85% @ 70-130%), Benzoic Acid (32% @ 70-130%), Pentachlorophenol (77% @ 80-120%)

CWH0158-CCV1 **Continuing Calibration recovery is below lower control limit (C-).**
2,4-Dinitrophenol (69% @ 80-120%), Benzoic Acid (32% @ 70-130%), Hexachlorocyclopentadiene (53% @ 70-130%), N-Nitrosodimethylamine (76% @ 80-120%), Pentachlorophenol (77% @ 80-120%)

CWH0158-CCV1 **Initial Calibration Verification recovery is outside of control limit (ICV).**
Benzidine , Hexachlorocyclopentadiene

CWH0158-TUN1 **Pentachlorophenol tailing factor > 2.**

No other observations noted.

End of Project Narrative.

DATA USABILITY LINKS

Definitions of Quality Control Parameters

Semivolatile Organics Internal Standard Information

Semivolatile Organics Surrogate Information

Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308110

CURRENT SW-846 METHODOLOGY VERSIONS

Analytical Methods

1010A - Flashpoint
6010C - ICP
6020A - ICP MS
7010 - Graphite Furnace
7196A - Hexavalent Chromium
7470A - Aqueous Mercury
7471B - Solid Mercury
8011 - EDB/DBCP/TCP
8015C - GRO/DRO
8081B - Pesticides
8082A - PCB
8100M - TPH
8151A - Herbicides
8260B - VOA
8270D - SVOA
8270D SIM - SVOA Low Level
9014 - Cyanide
9038 - Sulfate
9040C - Aqueous pH
9045D - Solid pH (Corrosivity)
9050A - Specific Conductance
9056A - Anions (IC)
9060A - TOC
9095B - Paint Filter
MADEP 04-1.1 - EPH / VPH

Prep Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5035 - Solid Purge and Trap

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308110

MassDEP Analytical Protocol Certification Form

MADEP RTN: _____

This form provides certification for the following data set: **1308110-01 through 1308110-13**

Matrices: ( ) Ground Water/Surface Water (X) Soil/Sediment ( ) Drinking Water ( ) Air ( ) Other:_____

CAM Protocol (check all that apply below):

( ) 8260 VOC CAM II A	(X) 7470/7471 Hg CAM III B	( ) MassDEP VPH CAM IV A	( ) 8081 Pesticides CAM V B	( ) 7196 Hex Cr CAM VI B	( ) MassDEP APH CAM IX A
(X) 8270 SVOC CAM II B	( ) 7010 Metals CAM III C	(X) MassDEP EPH CAM IV B	( ) 8151 Herbicides CAM V C	( ) 8330 Explosives CAM VIII A	( ) TO-15 VOC CAM IX B
(X) 6010 Metals CAM III A	(X) 6020 Metals CAM III D	(X) 8082 PCB CAM V A	( ) 6860 Perchlorate CAM VIII B	( ) 9014 Total Cyanide/PAC CAM VI A	

Affirmative responses to questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	Yes (X) No ( )
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	Yes (X) No ( )
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	Yes (X) No ( )
D	Does the laboratory report comply with all the reporting requirements specified in the CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	Yes (X) No ( )
E	a. VPH, EPH, APH and TO-15 only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	Yes (X) No ( )
	b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	Yes ( ) No ( )
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	Yes (X) No ( )

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocols(s)?	Yes (X) No ( )*
	***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**	
H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	Yes ( ) No (X)*
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	Yes ( ) No (X)*

All negative responses must be addressed in an attached laboratory narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: _____ Date: August 20, 2013

Printed Name: Laurel Stoddard Position: Laboratory Director

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC6 2-4ft
Date Sampled: 08/05/13 15:05
Percent Solids: 29

ESS Laboratory Work Order: 1308110
ESS Laboratory Sample ID: 1308110-01
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (3.5)		6020A		50	SVD	08/12/13 19:38	5.08	100	CH30857
Arsenic	**42.8** (3.4)		6010B		1	JP	08/10/13 20:33	5.08	100	CH30857
Barium	**96.5** (3.4)		6010B		1	JP	08/10/13 20:33	5.08	100	CH30857
Beryllium	**0.80** (0.14)		6010B		1	JP	08/10/13 20:33	5.08	100	CH30857
Cadmium	**5.34** (0.69)		6010B		1	JP	08/10/13 20:33	5.08	100	CH30857
Chromium	**141** (1.4)		6010B		1	JP	08/10/13 20:33	5.08	100	CH30857
Lead	**473** (6.9)		6010B		1	JP	08/10/13 20:33	5.08	100	CH30857
Mercury	**1.27** (0.231)		7471B		5	JP	08/12/13 20:54	1.5	40	CH30932
Nickel	**53.3** (3.4)		6010B		1	JP	08/10/13 20:33	5.08	100	CH30857
Selenium	ND (3.46)		6020A		50	SVD	08/12/13 19:38	5.08	100	CH30857
Silver	**2.31** (0.69)		6010B		1	JP	08/10/13 20:33	5.08	100	CH30857
Thallium	ND (3.46)		6020A		50	SVD	08/12/13 19:38	5.08	100	CH30857
Vanadium	**106** (1.4)		6010B		1	JP	08/10/13 20:33	5.08	100	CH30857
Zinc	**1290** (3.4)		6010B		1	JP	08/10/13 20:33	5.08	100	CH30857

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC6 2-4ft
Date Sampled: 08/05/13 15:05
Percent Solids: 29
Initial Volume: 19.4
Final Volume: 5
Extraction Method: 3540

ESS Laboratory Work Order: 1308110
ESS Laboratory Sample ID: 1308110-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 8/9/13 17:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0901)		8082A		1	08/14/13 15:05		CH30937
Aroclor 1221	ND (0.0901)		8082A		1	08/14/13 15:05		CH30937
Aroclor 1232	ND (0.0901)		8082A		1	08/14/13 15:05		CH30937
Aroclor 1242	ND (0.0901)		8082A		1	08/14/13 15:05		CH30937
Aroclor 1248	**1.19** (0.0901)		8082A		1	08/14/13 15:05		CH30937
Aroclor 1254	**1.45** (0.0901)		8082A		1	08/14/13 15:05		CH30937
Aroclor 1260	**1.21** (0.0901)		8082A		1	08/14/13 15:05		CH30937
Aroclor 1262	ND (0.0901)		8082A		1	08/14/13 15:05		CH30937
Aroclor 1268	ND (0.0901)		8082A		1	08/14/13 15:05		CH30937

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*114 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*99 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*86 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*79 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC6 2-4ft
Date Sampled: 08/05/13 15:05
Percent Solids: 29
Initial Volume: 15.1
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308110
ESS Laboratory Sample ID: 1308110-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 8/9/13 19:05

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (1.16)		8270D		1	08/12/13 11:00	CWH0147	CH30921
1,2-Dichlorobenzene	ND (1.16)		8270D		1	08/12/13 11:00	CWH0147	CH30921
1,3-Dichlorobenzene	ND (1.16)		8270D		1	08/12/13 11:00	CWH0147	CH30921
1,4-Dichlorobenzene	ND (1.16)		8270D		1	08/12/13 11:00	CWH0147	CH30921
2-Methylnaphthalene	ND (1.16)		8270D		1	08/12/13 11:00	CWH0147	CH30921
2-Methylphenol	ND (1.16)		8270D		1	08/12/13 11:00	CWH0147	CH30921
Acenaphthene	ND (1.16)		8270D		1	08/12/13 11:00	CWH0147	CH30921
Acenaphthylene	ND (1.16)		8270D		1	08/12/13 11:00	CWH0147	CH30921
Anthracene	ND (1.16)		8270D		1	08/12/13 11:00	CWH0147	CH30921
Benzo(a)anthracene	ND (1.16)		8270D		1	08/12/13 11:00	CWH0147	CH30921
Benzo(a)pyrene	ND (0.580)		8270D		1	08/12/13 11:00	CWH0147	CH30921
Benzo(b)fluoranthene	ND (1.16)		8270D		1	08/12/13 11:00	CWH0147	CH30921
Benzo(g,h,i)perylene	ND (1.16)		8270D		1	08/12/13 11:00	CWH0147	CH30921
Benzo(k)fluoranthene	ND (1.16)		8270D		1	08/12/13 11:00	CWH0147	CH30921
bis(2-Ethylhexyl)phthalate	**39.9** (11.6)		8270D		10	08/12/13 19:56	CWH0147	CH30921
Butylbenzylphthalate	ND (1.16)		8270D		1	08/12/13 11:00	CWH0147	CH30921
Carbazole	ND (1.16)		8270D		1	08/12/13 11:00	CWH0147	CH30921
Chrysene	ND (0.580)		8270D		1	08/12/13 11:00	CWH0147	CH30921
Dibenzo(a,h)Anthracene	ND (0.580)		8270D		1	08/12/13 11:00	CWH0147	CH30921
Dibenzofuran	ND (1.16)		8270D		1	08/12/13 11:00	CWH0147	CH30921
Diethylphthalate	ND (1.16)		8270D		1	08/12/13 11:00	CWH0147	CH30921
Dimethylphthalate	ND (1.16)		8270D		1	08/12/13 11:00	CWH0147	CH30921
Di-n-butylphthalate	ND (1.16)		8270D		1	08/12/13 11:00	CWH0147	CH30921
Di-n-octylphthalate	ND (1.16)		8270D		1	08/12/13 11:00	CWH0147	CH30921
Fluoranthene	ND (1.16)		8270D		1	08/12/13 11:00	CWH0147	CH30921
Fluorene	ND (1.16)		8270D		1	08/12/13 11:00	CWH0147	CH30921
Hexachlorobenzene	ND (1.16)		8270D		1	08/12/13 11:00	CWH0147	CH30921
Hexachlorocyclopentadiene	ND (5.80)		8270D		1	08/12/13 11:00	CWH0147	CH30921
Indeno(1,2,3-cd)Pyrene	ND (1.16)		8270D		1	08/12/13 11:00	CWH0147	CH30921
Naphthalene	ND (1.16)		8270D		1	08/12/13 11:00	CWH0147	CH30921
Phenanthrene	ND (1.16)		8270D		1	08/12/13 11:00	CWH0147	CH30921

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC6 2-4ft
Date Sampled: 08/05/13 15:05
Percent Solids: 29
Initial Volume: 15.1
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308110
ESS Laboratory Sample ID: 1308110-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 8/9/13 19:05

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Phenol	ND (1.16)		8270D		1	08/12/13 11:00	CWH0147	CH30921
Pyrene	ND (1.16)		8270D		1	08/12/13 11:00	CWH0147	CH30921

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*54 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*53 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*57 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*64 %*		*30-130*
Surrogate: 2-Fluorophenol	*56 %*		*30-130*
Surrogate: Nitrobenzene-d5	*62 %*		*30-130*
Surrogate: Phenol-d6	*60 %*		*30-130*
Surrogate: p-Terphenyl-d14	*91 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC6 2-4ft
Date Sampled: 08/05/13 15:05
Percent Solids: 29
Initial Volume: 15.2
Final Volume: 0.5
Extraction Method: 3541

ESS Laboratory Work Order: 1308110
ESS Laboratory Sample ID: 1308110-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 8/10/13 9:00

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	ND (0.144)		8270D		5	08/13/13 8:44	CWH0159	CH31001
Acenaphthene	ND (0.144)		8270D		5	08/13/13 8:44	CWH0159	CH31001
Acenaphthylene	**0.190** (0.144)		8270D		5	08/13/13 8:44	CWH0159	CH31001
Anthracene	**0.195** (0.144)		8270D		5	08/13/13 8:44	CWH0159	CH31001
Benzo(a)anthracene	**0.322** (0.144)		8270D		5	08/13/13 8:44	CWH0159	CH31001
Benzo(a)pyrene	**0.351** (0.144)		8270D		5	08/13/13 8:44	CWH0159	CH31001
Benzo(b)fluoranthene	**0.437** (0.144)		8270D		5	08/13/13 8:44	CWH0159	CH31001
Benzo(g,h,i)perylene	**0.299** (0.144)		8270D		5	08/13/13 8:44	CWH0159	CH31001
Benzo(k)fluoranthene	**0.149** (0.144)		8270D		5	08/13/13 8:44	CWH0159	CH31001
Chrysene	**0.379** (0.144)		8270D		5	08/13/13 8:44	CWH0159	CH31001
Dibenzo(a,h)Anthracene	ND (0.144)		8270D		5	08/13/13 8:44	CWH0159	CH31001
Fluoranthene	**0.546** (0.144)		8270D		5	08/13/13 8:44	CWH0159	CH31001
Fluorene	ND (0.144)		8270D		5	08/13/13 8:44	CWH0159	CH31001
Indeno(1,2,3-cd)Pyrene	**0.253** (0.144)		8270D		5	08/13/13 8:44	CWH0159	CH31001
Naphthalene	**0.425** (0.144)		8270D		5	08/13/13 8:44	CWH0159	CH31001
Phenanthrene	**0.184** (0.144)		8270D		5	08/13/13 8:44	CWH0159	CH31001
Pyrene	**0.736** (0.144)		8270D		5	08/13/13 8:44	CWH0159	CH31001

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*47 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*52 %*		*30-130*
Surrogate: Nitrobenzene-d5	*58 %*		*30-130*
Surrogate: p-Terphenyl-d14	*77 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC6 2-4ft
Date Sampled: 08/05/13 15:05
Percent Solids: 29
Initial Volume: 14.7
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1308110
ESS Laboratory Sample ID: 1308110-01
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 8/12/13 10:00

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	**247** (89.1)		MADEP-EPH		1	VSC	08/13/13 6:29	CWH0163	CH31208
C19-C36 Aliphatics1	**1010** (89.1)		MADEP-EPH		1	VSC	08/13/13 6:29	CWH0163	CH31208
C11-C22 Unadjusted Aromatics1	**617** (89.1)		EPH8270		1	VSC	08/14/13 5:30	CWH0181	CH31208
C11-C22 Aromatics1,2	**617** (89.1)		EPH8270			VSC	08/14/13 5:30		[CALC]

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1-Chlorooctadecane	*92 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*94 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*81 %*		*40-140*
Surrogate: O-Terphenyl	*87 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC7 0-0.5ft
Date Sampled: 08/05/13 15:15
Percent Solids: 17

ESS Laboratory Work Order: 1308110
ESS Laboratory Sample ID: 1308110-02
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (5.9)		6020A		50	SVD	08/12/13 19:44	5.12	100	CH30857
Arsenic	**30.4** (5.9)		6010B		1	JP	08/10/13 20:39	5.12	100	CH30857
Barium	**83.0** (5.9)		6010B		1	JP	08/10/13 20:39	5.12	100	CH30857
Beryllium	**0.80** (0.25)		6010B		1	JP	08/10/13 20:39	5.12	100	CH30857
Cadmium	**3.37** (1.18)		6010B		1	JP	08/10/13 20:39	5.12	100	CH30857
Chromium	**89.8** (2.3)		6010B		1	JP	08/10/13 20:39	5.12	100	CH30857
Lead	**321** (11.7)		6010B		1	JP	08/10/13 20:39	5.12	100	CH30857
Mercury	**0.972** (0.089)		7471B		1	JP	08/12/13 20:57	1.33	40	CH30932
Nickel	**31.6** (5.9)		6010B		1	JP	08/10/13 20:39	5.12	100	CH30857
Selenium	ND (5.89)		6020A		50	SVD	08/12/13 19:44	5.12	100	CH30857
Silver	**1.82** (1.18)		6010B		1	JP	08/10/13 20:39	5.12	100	CH30857
Thallium	ND (5.89)		6020A		50	SVD	08/12/13 19:44	5.12	100	CH30857
Vanadium	**63.1** (2.3)		6010B		1	JP	08/10/13 20:39	5.12	100	CH30857
Zinc	**743** (5.9)		6010B		1	JP	08/10/13 20:39	5.12	100	CH30857

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC7 0-0.5ft
Date Sampled: 08/05/13 15:15
Percent Solids: 17
Initial Volume: 19.2
Final Volume: 5
Extraction Method: 3540

ESS Laboratory Work Order: 1308110
ESS Laboratory Sample ID: 1308110-02
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 8/9/13 17:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.156)		8082A		1	08/14/13 13:10		CH31434
Aroclor 1221	ND (0.156)		8082A		1	08/14/13 13:10		CH31434
Aroclor 1232	ND (0.156)		8082A		1	08/14/13 13:10		CH31434
Aroclor 1242	ND (0.156)		8082A		1	08/14/13 13:10		CH31434
Aroclor 1248	**0.341** (0.156)		8082A		1	08/14/13 13:10		CH31434
Aroclor 1254	**0.826** (0.156)		8082A		1	08/14/13 13:10		CH31434
Aroclor 1260	**0.864** (0.156)		8082A		1	08/14/13 13:10		CH31434
Aroclor 1262	ND (0.156)		8082A		1	08/14/13 13:10		CH31434
Aroclor 1268	ND (0.156)		8082A		1	08/14/13 13:10		CH31434

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*108 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*100 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*86 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*76 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC7 0-0.5ft
Date Sampled: 08/05/13 15:15
Percent Solids: 17
Initial Volume: 20
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308110
ESS Laboratory Sample ID: 1308110-02
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 8/9/13 19:05

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (1.50)		8270D		1	08/12/13 15:28	CWH0147	CH30921
1,2-Dichlorobenzene	ND (1.50)		8270D		1	08/12/13 15:28	CWH0147	CH30921
1,3-Dichlorobenzene	ND (1.50)		8270D		1	08/12/13 15:28	CWH0147	CH30921
1,4-Dichlorobenzene	ND (1.50)		8270D		1	08/12/13 15:28	CWH0147	CH30921
2-Methylnaphthalene	ND (1.50)		8270D		1	08/12/13 15:28	CWH0147	CH30921
2-Methylphenol	ND (1.50)		8270D		1	08/12/13 15:28	CWH0147	CH30921
Acenaphthene	ND (1.50)		8270D		1	08/12/13 15:28	CWH0147	CH30921
Acenaphthylene	ND (1.50)		8270D		1	08/12/13 15:28	CWH0147	CH30921
Anthracene	ND (1.50)		8270D		1	08/12/13 15:28	CWH0147	CH30921
Benzo(a)anthracene	**2.02** (1.50)		8270D		1	08/12/13 15:28	CWH0147	CH30921
Benzo(a)pyrene	**2.34** (0.751)		8270D		1	08/12/13 15:28	CWH0147	CH30921
Benzo(b)fluoranthene	**4.10** (1.50)		8270D		1	08/12/13 15:28	CWH0147	CH30921
Benzo(g,h,i)perylene	ND (1.50)		8270D		1	08/12/13 15:28	CWH0147	CH30921
Benzo(k)fluoranthene	**1.79** (1.50)		8270D		1	08/12/13 15:28	CWH0147	CH30921
bis(2-Ethylhexyl)phthalate	**32.8** (1.50)		8270D		1	08/12/13 15:28	CWH0147	CH30921
Butylbenzylphthalate	ND (1.50)		8270D		1	08/12/13 15:28	CWH0147	CH30921
Carbazole	ND (1.50)		8270D		1	08/12/13 15:28	CWH0147	CH30921
Chrysene	**2.57** (0.751)		8270D		1	08/12/13 15:28	CWH0147	CH30921
Dibenzo(a,h)Anthracene	ND (0.751)		8270D		1	08/12/13 15:28	CWH0147	CH30921
Dibenzofuran	ND (1.50)		8270D		1	08/12/13 15:28	CWH0147	CH30921
Diethylphthalate	ND (1.50)		8270D		1	08/12/13 15:28	CWH0147	CH30921
Dimethylphthalate	ND (1.50)		8270D		1	08/12/13 15:28	CWH0147	CH30921
Di-n-butylphthalate	ND (1.50)		8270D		1	08/12/13 15:28	CWH0147	CH30921
Di-n-octylphthalate	ND (1.50)		8270D		1	08/12/13 15:28	CWH0147	CH30921
Fluoranthene	**5.09** (1.50)		8270D		1	08/12/13 15:28	CWH0147	CH30921
Fluorene	ND (1.50)		8270D		1	08/12/13 15:28	CWH0147	CH30921
Hexachlorobenzene	ND (1.50)		8270D		1	08/12/13 15:28	CWH0147	CH30921
Hexachlorocyclopentadiene	ND (7.51)		8270D		1	08/12/13 15:28	CWH0147	CH30921
Indeno(1,2,3-cd)Pyrene	ND (1.50)		8270D		1	08/12/13 15:28	CWH0147	CH30921
Naphthalene	ND (1.50)		8270D		1	08/12/13 15:28	CWH0147	CH30921
Phenanthrene	ND (1.50)		8270D		1	08/12/13 15:28	CWH0147	CH30921

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC7 0-0.5ft
Date Sampled: 08/05/13 15:15
Percent Solids: 17
Initial Volume: 20
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308110
ESS Laboratory Sample ID: 1308110-02
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 8/9/13 19:05

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Phenol	ND (1.50)		8270D		1	08/12/13 15:28	CWH0147	CH30921
Pyrene	**3.72** (1.50)		8270D		1	08/12/13 15:28	CWH0147	CH30921

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*41 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*45 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*46 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*46 %*		*30-130*
Surrogate: 2-Fluorophenol	*42 %*		*30-130*
Surrogate: Nitrobenzene-d5	*48 %*		*30-130*
Surrogate: Phenol-d6	*49 %*		*30-130*
Surrogate: p-Terphenyl-d14	*57 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC7 0-0.5ft
Date Sampled: 08/05/13 15:15
Percent Solids: 17
Initial Volume: 15.3
Final Volume: 0.5
Extraction Method: 3541

ESS Laboratory Work Order: 1308110
ESS Laboratory Sample ID: 1308110-02
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 8/10/13 9:00

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	ND (0.245)		8270D		5	08/11/13 17:08	CWH0139	CH31001
Acenaphthene	ND (0.245)		8270D		5	08/11/13 17:08	CWH0139	CH31001
Acenaphthylene	**0.274** (0.245)		8270D		5	08/11/13 17:08	CWH0139	CH31001
Anthracene	**0.255** (0.245)		8270D		5	08/11/13 17:08	CWH0139	CH31001
Benzo(a)anthracene	**0.686** (0.245)		8270D		5	08/11/13 17:08	CWH0139	CH31001
Benzo(a)pyrene	**0.980** (0.245)		8270D		5	08/11/13 17:08	CWH0139	CH31001
Benzo(b)fluoranthene	**1.48** (0.245)		8270D		5	08/11/13 17:08	CWH0139	CH31001
Benzo(g,h,i)perylene	**0.990** (0.245)		8270D		5	08/11/13 17:08	CWH0139	CH31001
Benzo(k)fluoranthene	**0.431** (0.245)		8270D		5	08/11/13 17:08	CWH0139	CH31001
Chrysene	**0.951** (0.245)		8270D		5	08/11/13 17:08	CWH0139	CH31001
Dibenzo(a,h)Anthracene	ND (0.245)		8270D		5	08/11/13 17:08	CWH0139	CH31001
Fluoranthene	**1.48** (0.245)		8270D		5	08/11/13 17:08	CWH0139	CH31001
Fluorene	ND (0.245)		8270D		5	08/11/13 17:08	CWH0139	CH31001
Indeno(1,2,3-cd)Pyrene	**1.00** (0.245)		8270D		5	08/11/13 17:08	CWH0139	CH31001
Naphthalene	**0.245** (0.245)		8270D		5	08/11/13 17:08	CWH0139	CH31001
Phenanthrene	**0.402** (0.245)		8270D		5	08/11/13 17:08	CWH0139	CH31001
Pyrene	**1.36** (0.245)		8270D		5	08/11/13 17:08	CWH0139	CH31001

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*53 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*58 %*		*30-130*
Surrogate: Nitrobenzene-d5	*58 %*		*30-130*
Surrogate: p-Terphenyl-d14	*83 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC7 0-0.5ft
Date Sampled: 08/05/13 15:15
Percent Solids: 17

ESS Laboratory Work Order: 1308110
ESS Laboratory Sample ID: 1308110-02
Sample Matrix: Soil

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**160000** (6210)		TOC-LK		1	SUB	08/14/13 17:47	mg/kg	CH32011

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC7 0-0.5ft
Date Sampled: 08/05/13 15:15
Percent Solids: 17
Initial Volume: 15
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1308110
ESS Laboratory Sample ID: 1308110-02
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 8/12/13 10:00

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (150)		MADEP-EPH		1	VSC	08/13/13 7:20	CWH0163	CH31208
C19-C36 Aliphatics1	**646** (150)		MADEP-EPH		1	VSC	08/13/13 7:20	CWH0163	CH31208
C11-C22 Unadjusted Aromatics1	**317** (150)		EPH8270		1	VSC	08/14/13 9:42	CWH0181	CH31208
C11-C22 Aromatics1,2	**317** (150)		EPH8270			VSC	08/14/13 9:42		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*74 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*91 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*84 %*		*40-140*
Surrogate: O-Terphenyl	*80 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC7 2-4ft
Date Sampled: 08/05/13 15:15
Percent Solids: 26

ESS Laboratory Work Order: 1308110
ESS Laboratory Sample ID: 1308110-03
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (3.7)		6020A		50	SVD	08/12/13 19:50	5.17	100	CH30857
Arsenic	**33.0** (3.7)		6010B		1	JP	08/10/13 20:44	5.17	100	CH30857
Barium	**92.9** (3.7)		6010B		1	JP	08/10/13 20:44	5.17	100	CH30857
Beryllium	**0.84** (0.15)		6010B		1	JP	08/10/13 20:44	5.17	100	CH30857
Cadmium	**4.47** (0.74)		6010B		1	JP	08/10/13 20:44	5.17	100	CH30857
Chromium	**109** (1.5)		6010B		1	JP	08/10/13 20:44	5.17	100	CH30857
Lead	**415** (7.3)		6010B		1	JP	08/10/13 20:44	5.17	100	CH30857
Mercury	**1.85** (0.272)		7471B		5	JP	08/12/13 20:59	1.38	40	CH30932
Nickel	**43.1** (3.7)		6010B		1	JP	08/10/13 20:44	5.17	100	CH30857
Selenium	ND (3.69)		6020A		50	SVD	08/12/13 19:50	5.17	100	CH30857
Silver	**2.31** (0.74)		6010B		1	JP	08/10/13 20:44	5.17	100	CH30857
Thallium	ND (3.69)		6020A		50	SVD	08/12/13 19:50	5.17	100	CH30857
Vanadium	**87.7** (1.5)		6010B		1	JP	08/10/13 20:44	5.17	100	CH30857
Zinc	**854** (3.7)		6010B		1	JP	08/10/13 20:44	5.17	100	CH30857

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC7 2-4ft
Date Sampled: 08/05/13 15:15
Percent Solids: 26
Initial Volume: 19.4
Final Volume: 5
Extraction Method: 3540

ESS Laboratory Work Order: 1308110
ESS Laboratory Sample ID: 1308110-03
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 8/9/13 17:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0979)		8082A		1	08/14/13 15:24		CH30937
Aroclor 1221	ND (0.0979)		8082A		1	08/14/13 15:24		CH30937
Aroclor 1232	ND (0.0979)		8082A		1	08/14/13 15:24		CH30937
Aroclor 1242	**7.76** (0.979)		8082A		10	08/14/13 15:43		CH30937
Aroclor 1248	ND (0.0979)		8082A		1	08/14/13 15:24		CH30937
Aroclor 1254	**3.79** (0.979)		8082A		10	08/14/13 15:43		CH30937
Aroclor 1260	**1.38** (0.0979)		8082A		1	08/14/13 15:24		CH30937
Aroclor 1262	ND (0.0979)		8082A		1	08/14/13 15:24		CH30937
Aroclor 1268	ND (0.0979)		8082A		1	08/14/13 15:24		CH30937

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*120 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*102 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*79 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*70 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC7 2-4ft
Date Sampled: 08/05/13 15:15
Percent Solids: 26
Initial Volume: 15.2
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308110
ESS Laboratory Sample ID: 1308110-03
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 8/9/13 19:05

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (1.25)		8270D		1	08/12/13 11:33	CWH0147	CH30921
1,2-Dichlorobenzene	ND (1.25)		8270D		1	08/12/13 11:33	CWH0147	CH30921
1,3-Dichlorobenzene	ND (1.25)		8270D		1	08/12/13 11:33	CWH0147	CH30921
1,4-Dichlorobenzene	ND (1.25)		8270D		1	08/12/13 11:33	CWH0147	CH30921
2-Methylnaphthalene	ND (1.25)		8270D		1	08/12/13 11:33	CWH0147	CH30921
2-Methylphenol	ND (1.25)		8270D		1	08/12/13 11:33	CWH0147	CH30921
Acenaphthene	ND (1.25)		8270D		1	08/12/13 11:33	CWH0147	CH30921
Acenaphthylene	ND (1.25)		8270D		1	08/12/13 11:33	CWH0147	CH30921
Anthracene	ND (1.25)		8270D		1	08/12/13 11:33	CWH0147	CH30921
Benzo(a)anthracene	**3.42** (1.25)		8270D		1	08/12/13 11:33	CWH0147	CH30921
Benzo(a)pyrene	**2.59** (0.626)		8270D		1	08/12/13 11:33	CWH0147	CH30921
Benzo(b)fluoranthene	**3.05** (1.25)		8270D		1	08/12/13 11:33	CWH0147	CH30921
Benzo(g,h,i)perylene	ND (1.25)		8270D		1	08/12/13 11:33	CWH0147	CH30921
Benzo(k)fluoranthene	**1.70** (1.25)		8270D		1	08/12/13 11:33	CWH0147	CH30921
bis(2-Ethylhexyl)phthalate	**689** (125)		8270D		100	08/12/13 21:03	CWH0147	CH30921
Butylbenzylphthalate	ND (1.25)		8270D		1	08/12/13 11:33	CWH0147	CH30921
Carbazole	ND (1.25)		8270D		1	08/12/13 11:33	CWH0147	CH30921
Chrysene	**3.47** (0.626)		8270D		1	08/12/13 11:33	CWH0147	CH30921
Dibenzo(a,h)Anthracene	ND (0.626)		8270D		1	08/12/13 11:33	CWH0147	CH30921
Dibenzofuran	ND (1.25)		8270D		1	08/12/13 11:33	CWH0147	CH30921
Diethylphthalate	ND (1.25)		8270D		1	08/12/13 11:33	CWH0147	CH30921
Dimethylphthalate	ND (1.25)		8270D		1	08/12/13 11:33	CWH0147	CH30921
Di-n-butylphthalate	ND (1.25)		8270D		1	08/12/13 11:33	CWH0147	CH30921
Di-n-octylphthalate	**6.29** (1.25)		8270D		1	08/12/13 11:33	CWH0147	CH30921
Fluoranthene	**6.45** (1.25)		8270D		1	08/12/13 11:33	CWH0147	CH30921
Fluorene	ND (1.25)		8270D		1	08/12/13 11:33	CWH0147	CH30921
Hexachlorobenzene	ND (1.25)		8270D		1	08/12/13 11:33	CWH0147	CH30921
Hexachlorocyclopentadiene	ND (6.26)		8270D		1	08/12/13 11:33	CWH0147	CH30921
Indeno(1,2,3-cd)Pyrene	ND (1.25)		8270D		1	08/12/13 11:33	CWH0147	CH30921
Naphthalene	**1.37** (1.25)		8270D		1	08/12/13 11:33	CWH0147	CH30921
Phenanthrene	**1.97** (1.25)		8270D		1	08/12/13 11:33	CWH0147	CH30921

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC7 2-4ft
Date Sampled: 08/05/13 15:15
Percent Solids: 26
Initial Volume: 15.2
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308110
ESS Laboratory Sample ID: 1308110-03
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 8/9/13 19:05

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Phenol	ND (1.25)		8270D		1	08/12/13 11:33	CWH0147	CH30921
Pyrene	**7.58** (1.25)		8270D		1	08/12/13 11:33	CWH0147	CH30921

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*52 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*46 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*55 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*55 %*		*30-130*
Surrogate: 2-Fluorophenol	*53 %*		*30-130*
Surrogate: Nitrobenzene-d5	*59 %*		*30-130*
Surrogate: Phenol-d6	*58 %*		*30-130*
Surrogate: p-Terphenyl-d14	*64 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC7 2-4ft
Date Sampled: 08/05/13 15:15
Percent Solids: 26
Initial Volume: 15.4
Final Volume: 0.5
Extraction Method: 3541

ESS Laboratory Work Order: 1308110
ESS Laboratory Sample ID: 1308110-03
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 8/10/13 9:00

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	ND (0.154)		8270D		5	08/13/13 9:35	CWH0159	CH31001
Acenaphthene	ND (0.154)		8270D		5	08/13/13 9:35	CWH0159	CH31001
Acenaphthylene	**0.277** (0.154)		8270D		5	08/13/13 9:35	CWH0159	CH31001
Anthracene	**0.339** (0.154)		8270D		5	08/13/13 9:35	CWH0159	CH31001
Benzo(a)anthracene	**0.549** (0.154)		8270D		5	08/13/13 9:35	CWH0159	CH31001
Benzo(a)pyrene	**0.653** (0.154)		8270D		5	08/13/13 9:35	CWH0159	CH31001
Benzo(b)fluoranthene	**0.752** (0.154)		8270D		5	08/13/13 9:35	CWH0159	CH31001
Benzo(g,h,i)perylene	**0.505** (0.154)		8270D		5	08/13/13 9:35	CWH0159	CH31001
Benzo(k)fluoranthene	**0.370** (0.154)		8270D		5	08/13/13 9:35	CWH0159	CH31001
Chrysene	**0.659** (0.154)		8270D		5	08/13/13 9:35	CWH0159	CH31001
Dibenzo(a,h)Anthracene	ND (0.154)		8270D		5	08/13/13 9:35	CWH0159	CH31001
Fluoranthene	**0.998** (0.154)		8270D		5	08/13/13 9:35	CWH0159	CH31001
Fluorene	ND (0.154)		8270D		5	08/13/13 9:35	CWH0159	CH31001
Indeno(1,2,3-cd)Pyrene	**0.487** (0.154)		8270D		5	08/13/13 9:35	CWH0159	CH31001
Naphthalene	**0.376** (0.154)		8270D		5	08/13/13 9:35	CWH0159	CH31001
Phenanthrene	**0.419** (0.154)		8270D		5	08/13/13 9:35	CWH0159	CH31001
Pyrene	**1.20** (0.154)		8270D		5	08/13/13 9:35	CWH0159	CH31001

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*44 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*50 %*		*30-130*
Surrogate: Nitrobenzene-d5	*53 %*		*30-130*
Surrogate: p-Terphenyl-d14	*80 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC7 2-4ft
Date Sampled: 08/05/13 15:15
Percent Solids: 26
Initial Volume: 14.8
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1308110
ESS Laboratory Sample ID: 1308110-03
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 8/12/13 10:00

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	**182** (96.2)		MADEP-EPH		1	VSC	08/13/13 8:11	CWH0163	CH31208
C19-C36 Aliphatics1	**1130** (96.2)		MADEP-EPH		1	VSC	08/13/13 8:11	CWH0163	CH31208
C11-C22 Unadjusted Aromatics1	**643** (96.2)		EPH8270		1	VSC	08/15/13 0:05	CWH0181	CH31208
C11-C22 Aromatics1,2	**643** (96.2)		EPH8270			VSC	08/15/13 0:05		[CALC]

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1-Chlorooctadecane	*84 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*93 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*85 %*		*40-140*
Surrogate: O-Terphenyl	*84 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC7 4-5ft4in
Date Sampled: 08/05/13 15:15
Percent Solids: 40

ESS Laboratory Work Order: 1308110
ESS Laboratory Sample ID: 1308110-04
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (2.3)		6020A		50	SVD	08/12/13 19:56	5.36	100	CH30857
Arsenic	**48.4** (2.3)		6010B		1	JP	08/10/13 20:59	5.36	100	CH30857
Barium	**101** (2.3)		6010B		1	JP	08/10/13 20:59	5.36	100	CH30857
Beryllium	**0.69** (0.10)		6010B		1	JP	08/10/13 20:59	5.36	100	CH30857
Cadmium	**4.28** (0.47)		6010B		1	JP	08/10/13 20:59	5.36	100	CH30857
Chromium	**96.4** (0.9)		6010B		1	JP	08/10/13 20:59	5.36	100	CH30857
Lead	**318** (4.6)		6010B		1	JP	08/10/13 20:59	5.36	100	CH30857
Mercury	**1.40** (0.235)		7471B		5	JP	08/12/13 21:02	1.05	40	CH30932
Nickel	**23.3** (2.3)		6010B		1	JP	08/10/13 20:59	5.36	100	CH30857
Selenium	**2.39** (2.34)		6020A		50	SVD	08/12/13 19:56	5.36	100	CH30857
Silver	**2.10** (0.47)		6010B		1	JP	08/10/13 20:59	5.36	100	CH30857
Thallium	ND (2.34)		6020A		50	SVD	08/12/13 19:56	5.36	100	CH30857
Vanadium	**86.6** (0.9)		6010B		1	JP	08/10/13 20:59	5.36	100	CH30857
Zinc	**743** (11.6)		6010B		5	SVD	08/11/13 20:41	5.36	100	CH30857

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC7 4-5ft4in
Date Sampled: 08/05/13 15:15
Percent Solids: 40
Initial Volume: 19.2
Final Volume: 5
Extraction Method: 3540

ESS Laboratory Work Order: 1308110
ESS Laboratory Sample ID: 1308110-04
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 8/9/13 17:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0649)		8082A		1	08/14/13 16:02		CH30937
Aroclor 1221	ND (0.0649)		8082A		1	08/14/13 16:02		CH30937
Aroclor 1232	ND (0.0649)		8082A		1	08/14/13 16:02		CH30937
Aroclor 1242	ND (0.0649)		8082A		1	08/14/13 16:02		CH30937
Aroclor 1248	**2.33** (0.324)		8082A		5	08/14/13 16:21		CH30937
Aroclor 1254	**2.06** (0.324)		8082A		5	08/14/13 16:21		CH30937
Aroclor 1260	**0.728** (0.0649)		8082A		1	08/14/13 16:02		CH30937
Aroclor 1262	ND (0.0649)		8082A		1	08/14/13 16:02		CH30937
Aroclor 1268	ND (0.0649)		8082A		1	08/14/13 16:02		CH30937

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*113 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*101 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*70 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*66 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC7 4-5ft4in
Date Sampled: 08/05/13 15:15
Percent Solids: 40
Initial Volume: 15
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308110
ESS Laboratory Sample ID: 1308110-04
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 8/12/13 15:30

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.829)		8270D		1	08/13/13 0:57	CWH0158	CH31223
1,2-Dichlorobenzene	ND (0.829)		8270D		1	08/13/13 0:57	CWH0158	CH31223
1,3-Dichlorobenzene	ND (0.829)		8270D		1	08/13/13 0:57	CWH0158	CH31223
1,4-Dichlorobenzene	ND (0.829)		8270D		1	08/13/13 0:57	CWH0158	CH31223
2-Methylnaphthalene	ND (0.829)		8270D		1	08/13/13 0:57	CWH0158	CH31223
2-Methylphenol	ND (0.829)		8270D		1	08/13/13 0:57	CWH0158	CH31223
Acenaphthene	ND (0.829)		8270D		1	08/13/13 0:57	CWH0158	CH31223
Acenaphthylene	**1.15** (0.829)		8270D		1	08/13/13 0:57	CWH0158	CH31223
Anthracene	**1.19** (0.829)		8270D		1	08/13/13 0:57	CWH0158	CH31223
Benzo(a)anthracene	**3.00** (0.829)		8270D		1	08/13/13 0:57	CWH0158	CH31223
Benzo(a)pyrene	**2.91** (0.416)		8270D		1	08/13/13 0:57	CWH0158	CH31223
Benzo(b)fluoranthene	**3.11** (0.829)		8270D		1	08/13/13 0:57	CWH0158	CH31223
Benzo(g,h,i)perylene	**1.58** (0.829)		8270D		1	08/13/13 0:57	CWH0158	CH31223
Benzo(k)fluoranthene	**1.29** (0.829)		8270D		1	08/13/13 0:57	CWH0158	CH31223
bis(2-Ethylhexyl)phthalate	**417** (82.9)		8270D		100	08/13/13 10:42	CWH0158	CH31223
Butylbenzylphthalate	ND (0.829)		8270D		1	08/13/13 0:57	CWH0158	CH31223
Carbazole	ND (0.829)		8270D		1	08/13/13 0:57	CWH0158	CH31223
Chrysene	**3.56** (0.416)		8270D		1	08/13/13 0:57	CWH0158	CH31223
Dibenzo(a,h)Anthracene	**0.736** (0.416)		8270D		1	08/13/13 0:57	CWH0158	CH31223
Dibenzofuran	ND (0.829)		8270D		1	08/13/13 0:57	CWH0158	CH31223
Diethylphthalate	ND (0.829)		8270D		1	08/13/13 0:57	CWH0158	CH31223
Dimethylphthalate	ND (0.829)		8270D		1	08/13/13 0:57	CWH0158	CH31223
Di-n-butylphthalate	ND (0.829)		8270D		1	08/13/13 0:57	CWH0158	CH31223
Di-n-octylphthalate	**6.86** (0.829)		8270D		1	08/13/13 0:57	CWH0158	CH31223
Fluoranthene	**5.97** (0.829)		8270D		1	08/13/13 0:57	CWH0158	CH31223
Fluorene	ND (0.829)		8270D		1	08/13/13 0:57	CWH0158	CH31223
Hexachlorobenzene	ND (0.829)		8270D		1	08/13/13 0:57	CWH0158	CH31223
Hexachlorocyclopentadiene	ND (4.16)		8270D		1	08/13/13 0:57	CWH0158	CH31223
Indeno(1,2,3-cd)Pyrene	**1.14** (0.829)		8270D		1	08/13/13 0:57	CWH0158	CH31223
Naphthalene	**0.879** (0.829)		8270D		1	08/13/13 0:57	CWH0158	CH31223
Phenanthrene	**1.78** (0.829)		8270D		1	08/13/13 0:57	CWH0158	CH31223

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC7 4-5ft4in
Date Sampled: 08/05/13 15:15
Percent Solids: 40
Initial Volume: 15
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308110
ESS Laboratory Sample ID: 1308110-04
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 8/12/13 15:30

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Phenol	ND (0.829)		8270D		1	08/13/13 0:57	CWH0158	CH31223
Pyrene	**6.31** (0.829)		8270D		1	08/13/13 0:57	CWH0158	CH31223

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*46 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*49 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*50 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*60 %*		*30-130*
Surrogate: 2-Fluorophenol	*45 %*		*30-130*
Surrogate: Nitrobenzene-d5	*59 %*		*30-130*
Surrogate: Phenol-d6	*51 %*		*30-130*
Surrogate: p-Terphenyl-d14	*70 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC7 4-5ft4in
Date Sampled: 08/05/13 15:15
Percent Solids: 40
Initial Volume: 15.2
Final Volume: 0.5
Extraction Method: 3541

ESS Laboratory Work Order: 1308110
ESS Laboratory Sample ID: 1308110-04
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 8/10/13 9:00

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	**0.221** (0.102)		8270D		5	08/13/13 10:25	CWH0159	CH31001
Acenaphthene	**0.172** (0.102)		8270D		5	08/13/13 10:25	CWH0159	CH31001
Acenaphthylene	**0.832** (0.102)		8270D		5	08/13/13 10:25	CWH0159	CH31001
Anthracene	**0.844** (0.102)		8270D		5	08/13/13 10:25	CWH0159	CH31001
Benzo(a)anthracene	**1.65** (0.102)		8270D		5	08/13/13 10:25	CWH0159	CH31001
Benzo(a)pyrene	**1.63** (0.102)		8270D		5	08/13/13 10:25	CWH0159	CH31001
Benzo(b)fluoranthene	**2.20** (0.102)		8270D		5	08/13/13 10:25	CWH0159	CH31001
Benzo(g,h,i)perylene	**1.03** (0.102)		8270D		5	08/13/13 10:25	CWH0159	CH31001
Benzo(k)fluoranthene	**0.709** (0.102)		8270D		5	08/13/13 10:25	CWH0159	CH31001
Chrysene	**1.76** (0.102)		8270D		5	08/13/13 10:25	CWH0159	CH31001
Dibenzo(a,h)Anthracene	**0.340** (0.102)		8270D		5	08/13/13 10:25	CWH0159	CH31001
Fluoranthene	**2.68** (0.102)		8270D		5	08/13/13 10:25	CWH0159	CH31001
Fluorene	**0.197** (0.102)		8270D		5	08/13/13 10:25	CWH0159	CH31001
Indeno(1,2,3-cd)Pyrene	**1.13** (0.102)		8270D		5	08/13/13 10:25	CWH0159	CH31001
Naphthalene	**0.836** (0.102)		8270D		5	08/13/13 10:25	CWH0159	CH31001
Phenanthrene	**0.840** (0.102)		8270D		5	08/13/13 10:25	CWH0159	CH31001
Pyrene	**3.48** (0.102)		8270D		5	08/13/13 10:25	CWH0159	CH31001

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*50 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*60 %*		*30-130*
Surrogate: Nitrobenzene-d5	*58 %*		*30-130*
Surrogate: p-Terphenyl-d14	*91 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC7 4-5ft4in
Date Sampled: 08/05/13 15:15
Percent Solids: 40
Initial Volume: 14.9
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1308110
ESS Laboratory Sample ID: 1308110-04
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 8/12/13 10:00

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	**458** (62.7)		MADEP-EPH		1	VSC	08/13/13 9:01	CWH0163	CH31208
C19-C36 Aliphatics1	**944** (62.7)		MADEP-EPH		1	VSC	08/13/13 9:01	CWH0163	CH31208
C11-C22 Unadjusted Aromatics1	**1350** (62.7)		EPH8270		1	VSC	08/14/13 17:32	CWH0181	CH31208
C11-C22 Aromatics1,2	**1330** (62.7)		EPH8270			VSC	08/14/13 17:32		[CALC]

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1-Chlorooctadecane	*74 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*92 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*75 %*		*40-140*
Surrogate: O-Terphenyl	*62 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC8 0-0.5ft
Date Sampled: 08/05/13 15:25
Percent Solids: 16

ESS Laboratory Work Order: 1308110
ESS Laboratory Sample ID: 1308110-05
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (6.4)		6020A		50	SVD	08/12/13 20:02	5	100	CH30857
Arsenic	**32.7** (6.3)		6010B		1	JP	08/10/13 21:04	5	100	CH30857
Barium	**101** (6.3)		6010B		1	JP	08/10/13 21:04	5	100	CH30857
Beryllium	**0.97** (0.27)		6010B		1	JP	08/10/13 21:04	5	100	CH30857
Cadmium	**3.53** (1.27)		6010B		1	JP	08/10/13 21:04	5	100	CH30857
Chromium	**96.7** (2.5)		6010B		1	JP	08/10/13 21:04	5	100	CH30857
Lead	**362** (12.7)		6010B		1	JP	08/10/13 21:04	5	100	CH30857
Mercury	**1.05** (0.122)		7471B		1	JP	08/12/13 21:05	1.03	40	CH30932
Nickel	**33.0** (6.3)		6010B		1	JP	08/10/13 21:04	5	100	CH30857
Selenium	ND (6.37)		6020A		50	SVD	08/12/13 20:02	5	100	CH30857
Silver	**1.96** (1.27)		6010B		1	JP	08/10/13 21:04	5	100	CH30857
Thallium	ND (6.37)		6020A		50	SVD	08/12/13 20:02	5	100	CH30857
Vanadium	**74.3** (2.5)		6010B		1	JP	08/10/13 21:04	5	100	CH30857
Zinc	**884** (6.3)		6010B		1	SVD	08/11/13 20:45	5	100	CH30857

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC8 0-0.5ft
Date Sampled: 08/05/13 15:25
Percent Solids: 16
Initial Volume: 19.2
Final Volume: 5
Extraction Method: 3540

ESS Laboratory Work Order: 1308110
ESS Laboratory Sample ID: 1308110-05
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 8/9/13 17:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.165)		8082A		1	08/14/13 17:00		CH30937
Aroclor 1221	ND (0.165)		8082A		1	08/14/13 17:00		CH30937
Aroclor 1232	ND (0.165)		8082A		1	08/14/13 17:00		CH30937
Aroclor 1242	ND (0.165)		8082A		1	08/14/13 17:00		CH30937
Aroclor 1248	**0.434** (0.165)		8082A		1	08/14/13 17:00		CH30937
Aroclor 1254	**0.740** (0.165)		8082A		1	08/14/13 17:00		CH30937
Aroclor 1260	**0.644** (0.165)		8082A		1	08/14/13 17:00		CH30937
Aroclor 1262	ND (0.165)		8082A		1	08/14/13 17:00		CH30937
Aroclor 1268	ND (0.165)		8082A		1	08/14/13 17:00		CH30937

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*98 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*81 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*78 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*67 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC8 0-0.5ft
Date Sampled: 08/05/13 15:25
Percent Solids: 16
Initial Volume: 15.3
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308110
ESS Laboratory Sample ID: 1308110-05
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 8/12/13 15:30

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (2.07)		8270D		1	08/13/13 1:30	CWH0158	CH31223
1,2-Dichlorobenzene	ND (2.07)		8270D		1	08/13/13 1:30	CWH0158	CH31223
1,3-Dichlorobenzene	ND (2.07)		8270D		1	08/13/13 1:30	CWH0158	CH31223
1,4-Dichlorobenzene	ND (2.07)		8270D		1	08/13/13 1:30	CWH0158	CH31223
2-Methylnaphthalene	ND (2.07)		8270D		1	08/13/13 1:30	CWH0158	CH31223
2-Methylphenol	ND (2.07)		8270D		1	08/13/13 1:30	CWH0158	CH31223
Acenaphthene	ND (2.07)		8270D		1	08/13/13 1:30	CWH0158	CH31223
Acenaphthylene	ND (2.07)		8270D		1	08/13/13 1:30	CWH0158	CH31223
Anthracene	ND (2.07)		8270D		1	08/13/13 1:30	CWH0158	CH31223
Benzo(a)anthracene	**2.39** (2.07)		8270D		1	08/13/13 1:30	CWH0158	CH31223
Benzo(a)pyrene	**2.92** (1.04)		8270D		1	08/13/13 1:30	CWH0158	CH31223
Benzo(b)fluoranthene	**4.60** (2.07)		8270D		1	08/13/13 1:30	CWH0158	CH31223
Benzo(g,h,i)perylene	**2.87** (2.07)		8270D		1	08/13/13 1:30	CWH0158	CH31223
Benzo(k)fluoranthene	ND (2.07)		8270D		1	08/13/13 1:30	CWH0158	CH31223
bis(2-Ethylhexyl)phthalate	**32.4** (2.07)		8270D		1	08/13/13 1:30	CWH0158	CH31223
Butylbenzylphthalate	ND (2.07)		8270D		1	08/13/13 1:30	CWH0158	CH31223
Carbazole	ND (2.07)		8270D		1	08/13/13 1:30	CWH0158	CH31223
Chrysene	**4.03** (1.04)		8270D		1	08/13/13 1:30	CWH0158	CH31223
Dibenzo(a,h)Anthracene	**1.37** (1.04)		8270D		1	08/13/13 1:30	CWH0158	CH31223
Dibenzofuran	ND (2.07)		8270D		1	08/13/13 1:30	CWH0158	CH31223
Diethylphthalate	ND (2.07)		8270D		1	08/13/13 1:30	CWH0158	CH31223
Dimethylphthalate	ND (2.07)		8270D		1	08/13/13 1:30	CWH0158	CH31223
Di-n-butylphthalate	ND (2.07)		8270D		1	08/13/13 1:30	CWH0158	CH31223
Di-n-octylphthalate	ND (2.07)		8270D		1	08/13/13 1:30	CWH0158	CH31223
Fluoranthene	**8.07** (2.07)		8270D		1	08/13/13 1:30	CWH0158	CH31223
Fluorene	ND (2.07)		8270D		1	08/13/13 1:30	CWH0158	CH31223
Hexachlorobenzene	ND (2.07)		8270D		1	08/13/13 1:30	CWH0158	CH31223
Hexachlorocyclopentadiene	ND (10.4)		8270D		1	08/13/13 1:30	CWH0158	CH31223
Indeno(1,2,3-cd)Pyrene	**2.18** (2.07)		8270D		1	08/13/13 1:30	CWH0158	CH31223
Naphthalene	ND (2.07)		8270D		1	08/13/13 1:30	CWH0158	CH31223
Phenanthrene	ND (2.07)		8270D		1	08/13/13 1:30	CWH0158	CH31223

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC8 0-0.5ft
Date Sampled: 08/05/13 15:25
Percent Solids: 16
Initial Volume: 15.3
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308110
ESS Laboratory Sample ID: 1308110-05
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 8/12/13 15:30

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Phenol	ND (2.07)		8270D		1	08/13/13 1:30	CWH0158	CH31223
Pyrene	**6.01** (2.07)		8270D		1	08/13/13 1:30	CWH0158	CH31223

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*52 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*59 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*56 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*62 %*		*30-130*
Surrogate: 2-Fluorophenol	*52 %*		*30-130*
Surrogate: Nitrobenzene-d5	*55 %*		*30-130*
Surrogate: Phenol-d6	*60 %*		*30-130*
Surrogate: p-Terphenyl-d14	*92 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC8 0-0.5ft
Date Sampled: 08/05/13 15:25
Percent Solids: 16
Initial Volume: 15.5
Final Volume: 0.5
Extraction Method: 3541

ESS Laboratory Work Order: 1308110
ESS Laboratory Sample ID: 1308110-05
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 8/10/13 9:00

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	ND (0.256)		8270D		5	08/13/13 11:15	CWH0159	CH31001
Acenaphthene	ND (0.256)		8270D		5	08/13/13 11:15	CWH0159	CH31001
Acenaphthylene	**0.767** (0.256)		8270D		5	08/13/13 11:15	CWH0159	CH31001
Anthracene	**0.829** (0.256)		8270D		5	08/13/13 11:15	CWH0159	CH31001
Benzo(a)anthracene	**3.08** (0.256)		8270D		5	08/13/13 11:15	CWH0159	CH31001
Benzo(a)pyrene	**4.18** (0.256)		8270D		5	08/13/13 11:15	CWH0159	CH31001
Benzo(b)fluoranthene	**6.51** (0.256)		8270D		5	08/13/13 11:15	CWH0159	CH31001
Benzo(g,h,i)perylene	**3.14** (0.256)		8270D		5	08/13/13 11:15	CWH0159	CH31001
Benzo(k)fluoranthene	**2.36** (0.256)		8270D		5	08/13/13 11:15	CWH0159	CH31001
Chrysene	**4.63** (0.256)		8270D		5	08/13/13 11:15	CWH0159	CH31001
Dibenzo(a,h)Anthracene	**0.829** (0.256)		8270D		5	08/13/13 11:15	CWH0159	CH31001
Fluoranthene	**7.49** (0.256)		8270D		5	08/13/13 11:15	CWH0159	CH31001
Fluorene	ND (0.256)		8270D		5	08/13/13 11:15	CWH0159	CH31001
Indeno(1,2,3-cd)Pyrene	**3.56** (0.256)		8270D		5	08/13/13 11:15	CWH0159	CH31001
Naphthalene	**0.389** (0.256)		8270D		5	08/13/13 11:15	CWH0159	CH31001
Phenanthrene	**1.52** (0.256)		8270D		5	08/13/13 11:15	CWH0159	CH31001
Pyrene	**6.59** (0.256)		8270D		5	08/13/13 11:15	CWH0159	CH31001

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*43 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*54 %*		*30-130*
Surrogate: Nitrobenzene-d5	*56 %*		*30-130*
Surrogate: p-Terphenyl-d14	*90 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC8 0-0.5ft
Date Sampled: 08/05/13 15:25
Percent Solids: 16

ESS Laboratory Work Order: 1308110
ESS Laboratory Sample ID: 1308110-05
Sample Matrix: Soil

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**163000** (6340)		TOC-LK		1	SUB	08/20/13 17:54	mg/kg	CH32011

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC8 0-0.5ft
Date Sampled: 08/05/13 15:25
Percent Solids: 16
Initial Volume: 14.7
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1308110
ESS Laboratory Sample ID: 1308110-05
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 8/12/13 10:00

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (162)		MADEP-EPH		1	VSC	08/13/13 9:52	CWH0163	CH31208
C19-C36 Aliphatics1	**1050** (162)		MADEP-EPH		1	VSC	08/13/13 9:52	CWH0163	CH31208
C11-C22 Unadjusted Aromatics1	**475** (162)		EPH8270		1	VSC	08/14/13 12:03	CWH0181	CH31208
C11-C22 Aromatics1,2	**457** (162)		EPH8270			VSC	08/14/13 12:03		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*83 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*92 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*86 %*		*40-140*
Surrogate: O-Terphenyl	*85 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC8 2-4ft
Date Sampled: 08/05/13 15:25
Percent Solids: 23

ESS Laboratory Work Order: 1308110
ESS Laboratory Sample ID: 1308110-06
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (4.1)		6020A		50	SVD	08/12/13 20:44	5.29	100	CH30857
Arsenic	**39.6** (4.1)		6010B		1	JP	08/10/13 21:31	5.29	100	CH30857
Barium	**96.3** (4.1)		6010B		1	JP	08/10/13 21:31	5.29	100	CH30857
Beryllium	**0.99** (0.17)		6010B		1	JP	08/10/13 21:31	5.29	100	CH30857
Cadmium	**5.35** (0.82)		6010B		1	JP	08/10/13 21:31	5.29	100	CH30857
Chromium	**153** (1.6)		6010B		1	JP	08/10/13 21:31	5.29	100	CH30857
Lead	**554** (8.2)		6010B		1	JP	08/10/13 21:31	5.29	100	CH30857
Mercury	**1.52** (0.424)		7471B		5	JP	08/12/13 21:23	1.01	40	CH30932
Nickel	**60.7** (4.1)		6010B		1	JP	08/10/13 21:31	5.29	100	CH30857
Selenium	ND (4.11)		6020A		50	SVD	08/12/13 20:44	5.29	100	CH30857
Silver	**2.68** (0.82)		6010B		1	JP	08/10/13 21:31	5.29	100	CH30857
Thallium	ND (4.11)		6020A		50	SVD	08/12/13 20:44	5.29	100	CH30857
Vanadium	**114** (1.6)		6010B		1	JP	08/10/13 21:31	5.29	100	CH30857
Zinc	**1640** (20.4)		6010B		5	SVD	08/11/13 21:11	5.29	100	CH30857

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC8 2-4ft
Date Sampled: 08/05/13 15:25
Percent Solids: 23
Initial Volume: 19.7
Final Volume: 5
Extraction Method: 3540

ESS Laboratory Work Order: 1308110
ESS Laboratory Sample ID: 1308110-06
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 8/9/13 17:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.110)		8082A		1	08/14/13 17:19		CH30937
Aroclor 1221	ND (0.110)		8082A		1	08/14/13 17:19		CH30937
Aroclor 1232	ND (0.110)		8082A		1	08/14/13 17:19		CH30937
Aroclor 1242	ND (0.110)		8082A		1	08/14/13 17:19		CH30937
Aroclor 1248	**1.41** (0.110)		8082A		1	08/14/13 17:19		CH30937
Aroclor 1254	**1.71** (0.110)		8082A		1	08/14/13 17:19		CH30937
Aroclor 1260	**1.31** (0.110)		8082A		1	08/14/13 17:19		CH30937
Aroclor 1262	ND (0.110)		8082A		1	08/14/13 17:19		CH30937
Aroclor 1268	ND (0.110)		8082A		1	08/14/13 17:19		CH30937

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*100 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*82 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*67 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*62 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC8 2-4ft
Date Sampled: 08/05/13 15:25
Percent Solids: 23
Initial Volume: 15.3
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308110
ESS Laboratory Sample ID: 1308110-06
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 8/12/13 15:30

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (1.41)		8270D		1	08/13/13 2:04	CWH0158	CH31223
1,2-Dichlorobenzene	ND (1.41)		8270D		1	08/13/13 2:04	CWH0158	CH31223
1,3-Dichlorobenzene	ND (1.41)		8270D		1	08/13/13 2:04	CWH0158	CH31223
1,4-Dichlorobenzene	ND (1.41)		8270D		1	08/13/13 2:04	CWH0158	CH31223
2-Methylnaphthalene	ND (1.41)		8270D		1	08/13/13 2:04	CWH0158	CH31223
2-Methylphenol	ND (1.41)		8270D		1	08/13/13 2:04	CWH0158	CH31223
Acenaphthene	ND (1.41)		8270D		1	08/13/13 2:04	CWH0158	CH31223
Acenaphthylene	ND (1.41)		8270D		1	08/13/13 2:04	CWH0158	CH31223
Anthracene	ND (1.41)		8270D		1	08/13/13 2:04	CWH0158	CH31223
Benzo(a)anthracene	ND (1.41)		8270D		1	08/13/13 2:04	CWH0158	CH31223
Benzo(a)pyrene	**1.16** (0.708)		8270D		1	08/13/13 2:04	CWH0158	CH31223
Benzo(b)fluoranthene	**1.46** (1.41)		8270D		1	08/13/13 2:04	CWH0158	CH31223
Benzo(g,h,i)perylene	ND (1.41)		8270D		1	08/13/13 2:04	CWH0158	CH31223
Benzo(k)fluoranthene	ND (1.41)		8270D		1	08/13/13 2:04	CWH0158	CH31223
bis(2-Ethylhexyl)phthalate	**173** (14.1)		8270D		10	08/13/13 11:16	CWH0158	CH31223
Butylbenzylphthalate	ND (1.41)		8270D		1	08/13/13 2:04	CWH0158	CH31223
Carbazole	ND (1.41)		8270D		1	08/13/13 2:04	CWH0158	CH31223
Chrysene	**1.49** (0.708)		8270D		1	08/13/13 2:04	CWH0158	CH31223
Dibenzo(a,h)Anthracene	ND (0.708)		8270D		1	08/13/13 2:04	CWH0158	CH31223
Dibenzofuran	ND (1.41)		8270D		1	08/13/13 2:04	CWH0158	CH31223
Diethylphthalate	ND (1.41)		8270D		1	08/13/13 2:04	CWH0158	CH31223
Dimethylphthalate	ND (1.41)		8270D		1	08/13/13 2:04	CWH0158	CH31223
Di-n-butylphthalate	ND (1.41)		8270D		1	08/13/13 2:04	CWH0158	CH31223
Di-n-octylphthalate	**1.52** (1.41)		8270D		1	08/13/13 2:04	CWH0158	CH31223
Fluoranthene	**2.39** (1.41)		8270D		1	08/13/13 2:04	CWH0158	CH31223
Fluorene	ND (1.41)		8270D		1	08/13/13 2:04	CWH0158	CH31223
Hexachlorobenzene	ND (1.41)		8270D		1	08/13/13 2:04	CWH0158	CH31223
Hexachlorocyclopentadiene	ND (7.08)		8270D		1	08/13/13 2:04	CWH0158	CH31223
Indeno(1,2,3-cd)Pyrene	ND (1.41)		8270D		1	08/13/13 2:04	CWH0158	CH31223
Naphthalene	ND (1.41)		8270D		1	08/13/13 2:04	CWH0158	CH31223
Phenanthrene	ND (1.41)		8270D		1	08/13/13 2:04	CWH0158	CH31223

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC8 2-4ft
Date Sampled: 08/05/13 15:25
Percent Solids: 23
Initial Volume: 15.3
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308110
ESS Laboratory Sample ID: 1308110-06
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 8/12/13 15:30

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Phenol	ND (1.41)		8270D		1	08/13/13 2:04	CWH0158	CH31223
Pyrene	**2.54** (1.41)		8270D		1	08/13/13 2:04	CWH0158	CH31223

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*63 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*52 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*68 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*69 %*		*30-130*
Surrogate: 2-Fluorophenol	*61 %*		*30-130*
Surrogate: Nitrobenzene-d5	*67 %*		*30-130*
Surrogate: Phenol-d6	*68 %*		*30-130*
Surrogate: p-Terphenyl-d14	*89 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC8 2-4ft
Date Sampled: 08/05/13 15:25
Percent Solids: 23
Initial Volume: 15.3
Final Volume: 0.5
Extraction Method: 3541

ESS Laboratory Work Order: 1308110
ESS Laboratory Sample ID: 1308110-06
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 8/10/13 9:00

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	ND (0.177)		8270D		5	08/14/13 9:12	CWH0174	CH31001
Acenaphthene	ND (0.177)		8270D		5	08/14/13 9:12	CWH0174	CH31001
Acenaphthylene	**0.304** (0.177)		8270D		5	08/14/13 9:12	CWH0174	CH31001
Anthracene	**0.325** (0.177)		8270D		5	08/14/13 9:12	CWH0174	CH31001
Benzo(a)anthracene	**0.551** (0.177)		8270D		5	08/14/13 9:12	CWH0174	CH31001
Benzo(a)pyrene	**0.692** (0.177)		8270D		5	08/14/13 9:12	CWH0174	CH31001
Benzo(b)fluoranthene	**0.953** (0.177)		8270D		5	08/14/13 9:12	CWH0174	CH31001
Benzo(g,h,i)perylene	**0.523** (0.177)		8270D		5	08/14/13 9:12	CWH0174	CH31001
Benzo(k)fluoranthene	**0.297** (0.177)		8270D		5	08/14/13 9:12	CWH0174	CH31001
Chrysene	**0.741** (0.177)		8270D		5	08/14/13 9:12	CWH0174	CH31001
Dibenzo(a,h)Anthracene	ND (0.177)		8270D		5	08/14/13 9:12	CWH0174	CH31001
Fluoranthene	**1.07** (0.177)		8270D		5	08/14/13 9:12	CWH0174	CH31001
Fluorene	ND (0.177)		8270D		5	08/14/13 9:12	CWH0174	CH31001
Indeno(1,2,3-cd)Pyrene	**0.508** (0.177)		8270D		5	08/14/13 9:12	CWH0174	CH31001
Naphthalene	**0.346** (0.177)		8270D		5	08/14/13 9:12	CWH0174	CH31001
Phenanthrene	**0.417** (0.177)		8270D		5	08/14/13 9:12	CWH0174	CH31001
Pyrene	**1.25** (0.177)		8270D		5	08/14/13 9:12	CWH0174	CH31001

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*43 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*46 %*		*30-130*
Surrogate: Nitrobenzene-d5	*48 %*		*30-130*
Surrogate: p-Terphenyl-d14	*80 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC8 2-4ft
Date Sampled: 08/05/13 15:25
Percent Solids: 23

ESS Laboratory Work Order: 1308110
ESS Laboratory Sample ID: 1308110-06
Sample Matrix: Soil

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**105000** (4310)		TOC-LK		1	SUB	08/20/13 18:02	mg/kg	CH32011

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC8 2-4ft
Date Sampled: 08/05/13 15:25
Percent Solids: 23
Initial Volume: 15.5
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1308110
ESS Laboratory Sample ID: 1308110-06
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 8/14/13 15:46

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	**124** (105)		MADEP-EPH		1	VSC	08/15/13 19:20	CWH0200	CH31405
C19-C36 Aliphatics1	**665** (105)		MADEP-EPH		1	VSC	08/15/13 19:20	CWH0200	CH31405
C11-C22 Unadjusted Aromatics1	**398** (105)		EPH8270		1	IBM	08/15/13 15:25	CWH0203	CH31405
C11-C22 Aromatics1,2	**398** (105)		EPH8270			IBM	08/15/13 15:25		[CALC]

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1-Chlorooctadecane	*78 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*64 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*73 %*		*40-140*
Surrogate: O-Terphenyl	*85 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC8 4-6ft
Date Sampled: 08/05/13 15:25
Percent Solids: 45

ESS Laboratory Work Order: 1308110
ESS Laboratory Sample ID: 1308110-07
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (2.2)		6020A		50	SVD	08/12/13 20:50	5.06	100	CH30857
Arsenic	**29.2** (2.2)		6010B		1	JP	08/10/13 21:36	5.06	100	CH30857
Barium	**66.1** (2.2)		6010B		1	JP	08/10/13 21:36	5.06	100	CH30857
Beryllium	**0.56** (0.09)		6010B		1	JP	08/10/13 21:36	5.06	100	CH30857
Cadmium	**4.83** (0.44)		6010B		1	JP	08/10/13 21:36	5.06	100	CH30857
Chromium	**93.9** (0.9)		6010B		1	JP	08/10/13 21:36	5.06	100	CH30857
Lead	**260** (4.4)		6010B		1	JP	08/10/13 21:36	5.06	100	CH30857
Mercury	**1.01** (0.146)		7471B		5	JP	08/12/13 21:26	1.5	40	CH30932
Nickel	**30.6** (2.2)		6010B		1	JP	08/10/13 21:36	5.06	100	CH30857
Selenium	ND (2.20)		6020A		50	SVD	08/12/13 20:50	5.06	100	CH30857
Silver	**1.55** (0.44)		6010B		1	JP	08/10/13 21:36	5.06	100	CH30857
Thallium	ND (2.20)		6020A		50	SVD	08/12/13 20:50	5.06	100	CH30857
Vanadium	**74.8** (0.9)		6010B		1	JP	08/10/13 21:36	5.06	100	CH30857
Zinc	**1440** (10.9)		6010B		5	SVD	08/11/13 21:24	5.06	100	CH30857

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC8 4-6ft
Date Sampled: 08/05/13 15:25
Percent Solids: 45
Initial Volume: 19.6
Final Volume: 5
Extraction Method: 3540

ESS Laboratory Work Order: 1308110
ESS Laboratory Sample ID: 1308110-07
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 8/9/13 17:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0565)		8082A		1	08/14/13 17:38		CH30937
Aroclor 1221	ND (0.0565)		8082A		1	08/14/13 17:38		CH30937
Aroclor 1232	ND (0.0565)		8082A		1	08/14/13 17:38		CH30937
Aroclor 1242	ND (0.0565)		8082A		1	08/14/13 17:38		CH30937
Aroclor 1248	**2.75** (0.283)		8082A		5	08/14/13 19:46		CH30937
Aroclor 1254	**1.01** (0.0565)		8082A		1	08/14/13 17:38		CH30937
Aroclor 1260	**0.449** (0.0565)		8082A		1	08/14/13 17:38		CH30937
Aroclor 1262	ND (0.0565)		8082A		1	08/14/13 17:38		CH30937
Aroclor 1268	ND (0.0565)		8082A		1	08/14/13 17:38		CH30937

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*89 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*70 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*55 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*47 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC8 4-6ft
Date Sampled: 08/05/13 15:25
Percent Solids: 45
Initial Volume: 15.6
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308110
ESS Laboratory Sample ID: 1308110-07
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 8/12/13 15:30

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.710)		8270D		1	08/13/13 2:37	CWH0158	CH31223
1,2-Dichlorobenzene	ND (0.710)		8270D		1	08/13/13 2:37	CWH0158	CH31223
1,3-Dichlorobenzene	ND (0.710)		8270D		1	08/13/13 2:37	CWH0158	CH31223
1,4-Dichlorobenzene	ND (0.710)		8270D		1	08/13/13 2:37	CWH0158	CH31223
2-Methylnaphthalene	ND (0.710)		8270D		1	08/13/13 2:37	CWH0158	CH31223
2-Methylphenol	ND (0.710)		8270D		1	08/13/13 2:37	CWH0158	CH31223
Acenaphthene	ND (0.710)		8270D		1	08/13/13 2:37	CWH0158	CH31223
Acenaphthylene	**0.930** (0.710)		8270D		1	08/13/13 2:37	CWH0158	CH31223
Anthracene	ND (0.710)		8270D		1	08/13/13 2:37	CWH0158	CH31223
Benzo(a)anthracene	**1.55** (0.710)		8270D		1	08/13/13 2:37	CWH0158	CH31223
Benzo(a)pyrene	**1.22** (0.356)		8270D		1	08/13/13 2:37	CWH0158	CH31223
Benzo(b)fluoranthene	**1.43** (0.710)		8270D		1	08/13/13 2:37	CWH0158	CH31223
Benzo(g,h,i)perylene	ND (0.710)		8270D		1	08/13/13 2:37	CWH0158	CH31223
Benzo(k)fluoranthene	ND (0.710)		8270D		1	08/13/13 2:37	CWH0158	CH31223
bis(2-Ethylhexyl)phthalate	**344** (71.0)		8270D		100	08/13/13 12:23	CWH0158	CH31223
Butylbenzylphthalate	ND (0.710)		8270D		1	08/13/13 2:37	CWH0158	CH31223
Carbazole	ND (0.710)		8270D		1	08/13/13 2:37	CWH0158	CH31223
Chrysene	**1.91** (0.356)		8270D		1	08/13/13 2:37	CWH0158	CH31223
Dibenzo(a,h)Anthracene	ND (0.356)		8270D		1	08/13/13 2:37	CWH0158	CH31223
Dibenzofuran	ND (0.710)		8270D		1	08/13/13 2:37	CWH0158	CH31223
Diethylphthalate	ND (0.710)		8270D		1	08/13/13 2:37	CWH0158	CH31223
Dimethylphthalate	ND (0.710)		8270D		1	08/13/13 2:37	CWH0158	CH31223
Di-n-butylphthalate	ND (0.710)		8270D		1	08/13/13 2:37	CWH0158	CH31223
Di-n-octylphthalate	**5.17** (0.710)		8270D		1	08/13/13 2:37	CWH0158	CH31223
Fluoranthene	**3.00** (0.710)		8270D		1	08/13/13 2:37	CWH0158	CH31223
Fluorene	ND (0.710)		8270D		1	08/13/13 2:37	CWH0158	CH31223
Hexachlorobenzene	ND (0.710)		8270D		1	08/13/13 2:37	CWH0158	CH31223
Hexachlorocyclopentadiene	ND (3.56)		8270D		1	08/13/13 2:37	CWH0158	CH31223
Indeno(1,2,3-cd)Pyrene	ND (0.710)		8270D		1	08/13/13 2:37	CWH0158	CH31223
Naphthalene	ND (0.710)		8270D		1	08/13/13 2:37	CWH0158	CH31223
Phenanthrene	ND (0.710)		8270D		1	08/13/13 2:37	CWH0158	CH31223

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC8 4-6ft
Date Sampled: 08/05/13 15:25
Percent Solids: 45
Initial Volume: 15.6
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308110
ESS Laboratory Sample ID: 1308110-07
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 8/12/13 15:30

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Phenol	ND (0.710)		8270D		1	08/13/13 2:37	CWH0158	CH31223
Pyrene	**2.99** (0.710)		8270D		1	08/13/13 2:37	CWH0158	CH31223

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*58 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*55 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*62 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*72 %*		*30-130*
Surrogate: 2-Fluorophenol	*57 %*		*30-130*
Surrogate: Nitrobenzene-d5	*62 %*		*30-130*
Surrogate: Phenol-d6	*63 %*		*30-130*
Surrogate: p-Terphenyl-d14	*75 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC8 4-6ft
Date Sampled: 08/05/13 15:25
Percent Solids: 45
Initial Volume: 15.5
Final Volume: 0.5
Extraction Method: 3541

ESS Laboratory Work Order: 1308110
ESS Laboratory Sample ID: 1308110-07
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 8/10/13 9:00

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	ND (0.089)		8270D		5	08/14/13 10:50	CWH0174	CH31001
Acenaphthene	ND (0.089)		8270D		5	08/14/13 10:50	CWH0174	CH31001
Acenaphthylene	**0.222** (0.089)		8270D		5	08/14/13 10:50	CWH0174	CH31001
Anthracene	**0.186** (0.089)		8270D		5	08/14/13 10:50	CWH0174	CH31001
Benzo(a)anthracene	**0.340** (0.089)		8270D		5	08/14/13 10:50	CWH0174	CH31001
Benzo(a)pyrene	**0.386** (0.089)		8270D		5	08/14/13 10:50	CWH0174	CH31001
Benzo(b)fluoranthene	**0.436** (0.089)		8270D		5	08/14/13 10:50	CWH0174	CH31001
Benzo(g,h,i)perylene	**0.218** (0.089)		8270D		5	08/14/13 10:50	CWH0174	CH31001
Benzo(k)fluoranthene	**0.125** (0.089)		8270D		5	08/14/13 10:50	CWH0174	CH31001
Chrysene	**0.379** (0.089)		8270D		5	08/14/13 10:50	CWH0174	CH31001
Dibenzo(a,h)Anthracene	ND (0.089)		8270D		5	08/14/13 10:50	CWH0174	CH31001
Fluoranthene	**0.550** (0.089)		8270D		5	08/14/13 10:50	CWH0174	CH31001
Fluorene	ND (0.089)		8270D		5	08/14/13 10:50	CWH0174	CH31001
Indeno(1,2,3-cd)Pyrene	**0.222** (0.089)		8270D		5	08/14/13 10:50	CWH0174	CH31001
Naphthalene	**0.264** (0.089)		8270D		5	08/14/13 10:50	CWH0174	CH31001
Phenanthrene	**0.193** (0.089)		8270D		5	08/14/13 10:50	CWH0174	CH31001
Pyrene	**0.765** (0.089)		8270D		5	08/14/13 10:50	CWH0174	CH31001

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*44 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*50 %*		*30-130*
Surrogate: Nitrobenzene-d5	*47 %*		*30-130*
Surrogate: p-Terphenyl-d14	*78 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC8 4-6ft
Date Sampled: 08/05/13 15:25
Percent Solids: 45
Initial Volume: 14.5
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1308110
ESS Laboratory Sample ID: 1308110-07
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 8/12/13 10:00

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	**132** (57.3)		MADEP-EPH		1	VSC	08/13/13 11:33	CWH0163	CH31208
C19-C36 Aliphatics1	**296** (57.3)		MADEP-EPH		1	VSC	08/13/13 11:33	CWH0163	CH31208
C11-C22 Unadjusted Aromatics1	**368** (57.3)		EPH8270		1	VSC	08/14/13 13:37	CWH0181	CH31208
C11-C22 Aromatics1,2	**368** (57.3)		EPH8270			VSC	08/14/13 13:37		[CALC]

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1-Chlorooctadecane	*77 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*89 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*86 %*		*40-140*
Surrogate: O-Terphenyl	*76 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC8 6-7ft3in
Date Sampled: 08/05/13 15:25
Percent Solids: 74

ESS Laboratory Work Order: 1308110
ESS Laboratory Sample ID: 1308110-08
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (1.3)		6020A		50	SVD	08/12/13 20:56	5.31	100	CH30857
Arsenic	**10.8** (1.3)		6010B		1	JP	08/10/13 21:42	5.31	100	CH30857
Barium	**25.6** (1.3)		6010B		1	JP	08/10/13 21:42	5.31	100	CH30857
Beryllium	**0.31** (0.05)		6010B		1	JP	08/10/13 21:42	5.31	100	CH30857
Cadmium	**0.47** (0.25)		6010B		1	JP	08/10/13 21:42	5.31	100	CH30857
Chromium	**24.4** (0.5)		6010B		1	JP	08/10/13 21:42	5.31	100	CH30857
Lead	**39.2** (2.5)		6010B		1	JP	08/10/13 21:42	5.31	100	CH30857
Mercury	ND (0.018)		7471B		1	JP	08/12/13 21:29	1.45	40	CH30932
Nickel	**10.3** (1.3)		6010B		1	JP	08/10/13 21:42	5.31	100	CH30857
Selenium	ND (1.27)		6020A		50	SVD	08/12/13 20:56	5.31	100	CH30857
Silver	**0.45** (0.25)		6010B		1	JP	08/10/13 21:42	5.31	100	CH30857
Thallium	ND (1.27)		6020A		50	SVD	08/12/13 20:56	5.31	100	CH30857
Vanadium	**28.5** (0.5)		6010B		1	JP	08/10/13 21:42	5.31	100	CH30857
Zinc	**99.9** (1.3)		6010B		1	SVD	08/11/13 21:28	5.31	100	CH30857

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC8 6-7ft3in
Date Sampled: 08/05/13 15:25
Percent Solids: 74
Initial Volume: 19.2
Final Volume: 5
Extraction Method: 3540

ESS Laboratory Work Order: 1308110
ESS Laboratory Sample ID: 1308110-08
Sample Matrix: Soil
Units: mg/kg dry
Analyst: ML
Prepared: 8/9/13 17:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0350)		8082A		1	08/12/13 21:58		CH30937
Aroclor 1221	ND (0.0350)		8082A		1	08/12/13 21:58		CH30937
Aroclor 1232	ND (0.0350)		8082A		1	08/12/13 21:58		CH30937
Aroclor 1242	ND (0.0350)		8082A		1	08/12/13 21:58		CH30937
Aroclor 1248	ND (0.0350)		8082A		1	08/12/13 21:58		CH30937
Aroclor 1254	ND (0.0350)		8082A		1	08/12/13 21:58		CH30937
Aroclor 1260	ND (0.0350)		8082A		1	08/12/13 21:58		CH30937
Aroclor 1262	ND (0.0350)		8082A		1	08/12/13 21:58		CH30937
Aroclor 1268	ND (0.0350)		8082A		1	08/12/13 21:58		CH30937

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*102 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*84 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*104 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*95 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC8 6-7ft3in
Date Sampled: 08/05/13 15:25
Percent Solids: 74
Initial Volume: 15.4
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308110
ESS Laboratory Sample ID: 1308110-08
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 8/12/13 15:30

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.436)		8270D		1	08/13/13 3:11	CWH0158	CH31223
1,2-Dichlorobenzene	ND (0.436)		8270D		1	08/13/13 3:11	CWH0158	CH31223
1,3-Dichlorobenzene	ND (0.436)		8270D		1	08/13/13 3:11	CWH0158	CH31223
1,4-Dichlorobenzene	ND (0.436)		8270D		1	08/13/13 3:11	CWH0158	CH31223
2-Methylnaphthalene	ND (0.436)		8270D		1	08/13/13 3:11	CWH0158	CH31223
2-Methylphenol	ND (0.436)		8270D		1	08/13/13 3:11	CWH0158	CH31223
Acenaphthene	ND (0.436)		8270D		1	08/13/13 3:11	CWH0158	CH31223
Acenaphthylene	ND (0.436)		8270D		1	08/13/13 3:11	CWH0158	CH31223
Anthracene	ND (0.436)		8270D		1	08/13/13 3:11	CWH0158	CH31223
Benzo(a)anthracene	ND (0.436)		8270D		1	08/13/13 3:11	CWH0158	CH31223
Benzo(a)pyrene	ND (0.219)		8270D		1	08/13/13 3:11	CWH0158	CH31223
Benzo(b)fluoranthene	ND (0.436)		8270D		1	08/13/13 3:11	CWH0158	CH31223
Benzo(g,h,i)perylene	ND (0.436)		8270D		1	08/13/13 3:11	CWH0158	CH31223
Benzo(k)fluoranthene	ND (0.436)		8270D		1	08/13/13 3:11	CWH0158	CH31223
bis(2-Ethylhexyl)phthalate	**55.0** (4.36)		8270D		10	08/13/13 12:56	CWH0158	CH31223
Butylbenzylphthalate	ND (0.436)		8270D		1	08/13/13 3:11	CWH0158	CH31223
Carbazole	ND (0.436)		8270D		1	08/13/13 3:11	CWH0158	CH31223
Chrysene	ND (0.219)		8270D		1	08/13/13 3:11	CWH0158	CH31223
Dibenzo(a,h)Anthracene	ND (0.219)		8270D		1	08/13/13 3:11	CWH0158	CH31223
Dibenzofuran	ND (0.436)		8270D		1	08/13/13 3:11	CWH0158	CH31223
Diethylphthalate	ND (0.436)		8270D		1	08/13/13 3:11	CWH0158	CH31223
Dimethylphthalate	ND (0.436)		8270D		1	08/13/13 3:11	CWH0158	CH31223
Di-n-butylphthalate	ND (0.436)		8270D		1	08/13/13 3:11	CWH0158	CH31223
Di-n-octylphthalate	**0.632** (0.436)		8270D		1	08/13/13 3:11	CWH0158	CH31223
Fluoranthene	ND (0.436)		8270D		1	08/13/13 3:11	CWH0158	CH31223
Fluorene	ND (0.436)		8270D		1	08/13/13 3:11	CWH0158	CH31223
Hexachlorobenzene	ND (0.436)		8270D		1	08/13/13 3:11	CWH0158	CH31223
Hexachlorocyclopentadiene	ND (2.19)		8270D		1	08/13/13 3:11	CWH0158	CH31223
Indeno(1,2,3-cd)Pyrene	ND (0.436)		8270D		1	08/13/13 3:11	CWH0158	CH31223
Naphthalene	ND (0.436)		8270D		1	08/13/13 3:11	CWH0158	CH31223
Phenanthrene	ND (0.436)		8270D		1	08/13/13 3:11	CWH0158	CH31223

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC8 6-7ft3in
Date Sampled: 08/05/13 15:25
Percent Solids: 74
Initial Volume: 15.4
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308110
ESS Laboratory Sample ID: 1308110-08
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 8/12/13 15:30

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Phenol	ND (0.436)		8270D		1	08/13/13 3:11	CWH0158	CH31223
Pyrene	ND (0.436)		8270D		1	08/13/13 3:11	CWH0158	CH31223

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*70 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*53 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*74 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*78 %*		*30-130*
Surrogate: 2-Fluorophenol	*68 %*		*30-130*
Surrogate: Nitrobenzene-d5	*75 %*		*30-130*
Surrogate: Phenol-d6	*74 %*		*30-130*
Surrogate: p-Terphenyl-d14	*87 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC8 6-7ft3in
Date Sampled: 08/05/13 15:25
Percent Solids: 74
Initial Volume: 15.5
Final Volume: 0.5
Extraction Method: 3541

ESS Laboratory Work Order: 1308110
ESS Laboratory Sample ID: 1308110-08
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 8/10/13 9:00

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	ND (0.011)		8270D		1	08/14/13 10:01	CWH0174	CH31001
Acenaphthene	ND (0.011)		8270D		1	08/14/13 10:01	CWH0174	CH31001
Acenaphthylene	ND (0.011)		8270D		1	08/14/13 10:01	CWH0174	CH31001
Anthracene	ND (0.011)		8270D		1	08/14/13 10:01	CWH0174	CH31001
Benzo(a)anthracene	**0.012** (0.011)		8270D		1	08/14/13 10:01	CWH0174	CH31001
Benzo(a)pyrene	**0.012** (0.011)		8270D		1	08/14/13 10:01	CWH0174	CH31001
Benzo(b)fluoranthene	**0.013** (0.011)		8270D		1	08/14/13 10:01	CWH0174	CH31001
Benzo(g,h,i)perylene	ND (0.011)		8270D		1	08/14/13 10:01	CWH0174	CH31001
Benzo(k)fluoranthene	ND (0.011)		8270D		1	08/14/13 10:01	CWH0174	CH31001
Chrysene	**0.013** (0.011)		8270D		1	08/14/13 10:01	CWH0174	CH31001
Dibenzo(a,h)Anthracene	ND (0.011)		8270D		1	08/14/13 10:01	CWH0174	CH31001
Fluoranthene	**0.021** (0.011)		8270D		1	08/14/13 10:01	CWH0174	CH31001
Fluorene	ND (0.011)		8270D		1	08/14/13 10:01	CWH0174	CH31001
Indeno(1,2,3-cd)Pyrene	ND (0.011)		8270D		1	08/14/13 10:01	CWH0174	CH31001
Naphthalene	**0.013** (0.011)		8270D		1	08/14/13 10:01	CWH0174	CH31001
Phenanthrene	ND (0.011)		8270D		1	08/14/13 10:01	CWH0174	CH31001
Pyrene	**0.027** (0.011)		8270D		1	08/14/13 10:01	CWH0174	CH31001

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*63 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*62 %*		*30-130*
Surrogate: Nitrobenzene-d5	*73 %*		*30-130*
Surrogate: p-Terphenyl-d14	*84 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC8 6-7ft3in
Date Sampled: 08/05/13 15:25
Percent Solids: 74
Initial Volume: 14.9
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1308110
ESS Laboratory Sample ID: 1308110-08
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 8/12/13 10:00

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (33.8)		MADEP-EPH		1	VSC	08/13/13 14:05	CWH0163	CH31208
C19-C36 Aliphatics1	ND (33.8)		MADEP-EPH		1	VSC	08/13/13 14:05	CWH0163	CH31208
C11-C22 Unadjusted Aromatics1	ND (33.8)		EPH8270		1	VSC	08/14/13 14:24	CWH0181	CH31208
C11-C22 Aromatics1,2	ND (33.8)		EPH8270			VSC	08/14/13 14:24		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*64 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*72 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*67 %*		*40-140*
Surrogate: O-Terphenyl	*68 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC9 0-0.5ft
Date Sampled: 08/05/13 15:35
Percent Solids: 17

ESS Laboratory Work Order: 1308110
ESS Laboratory Sample ID: 1308110-09
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (6.0)		6020A		50	SVD	08/12/13 21:02	5	100	CH30857
Arsenic	**33.6** (6.0)		6010B		1	JP	08/10/13 21:47	5	100	CH30857
Barium	**92.7** (6.0)		6010B		1	JP	08/10/13 21:47	5	100	CH30857
Beryllium	**0.85** (0.25)		6010B		1	JP	08/10/13 21:47	5	100	CH30857
Cadmium	**3.47** (1.21)		6010B		1	JP	08/10/13 21:47	5	100	CH30857
Chromium	**90.6** (2.4)		6010B		1	JP	08/10/13 21:47	5	100	CH30857
Lead	**341** (12.0)		6010B		1	JP	08/10/13 21:47	5	100	CH30857
Mercury	**1.00** (0.110)		7471B		1	JP	08/12/13 21:31	1.08	40	CH30932
Nickel	**32.2** (6.0)		6010B		1	JP	08/10/13 21:47	5	100	CH30857
Selenium	ND (6.05)		6020A		50	SVD	08/12/13 21:02	5	100	CH30857
Silver	**1.85** (1.21)		6010B		1	JP	08/10/13 21:47	5	100	CH30857
Thallium	ND (6.05)		6020A		50	SVD	08/12/13 21:02	5	100	CH30857
Vanadium	**68.3** (2.4)		6010B		1	JP	08/10/13 21:47	5	100	CH30857
Zinc	**804** (6.0)		6010B		1	SVD	08/11/13 21:33	5	100	CH30857

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC9 0-0.5ft
Date Sampled: 08/05/13 15:35
Percent Solids: 17
Initial Volume: 19.6
Final Volume: 5
Extraction Method: 3540

ESS Laboratory Work Order: 1308110
ESS Laboratory Sample ID: 1308110-09
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 8/9/13 17:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.154)		8082A		1	08/14/13 13:29		CH31434
Aroclor 1221	ND (0.154)		8082A		1	08/14/13 13:29		CH31434
Aroclor 1232	ND (0.154)		8082A		1	08/14/13 13:29		CH31434
Aroclor 1242	ND (0.154)		8082A		1	08/14/13 13:29		CH31434
Aroclor 1248	**0.319** (0.154)		8082A		1	08/14/13 13:29		CH31434
Aroclor 1254	**0.732** (0.154)		8082A		1	08/14/13 13:29		CH31434
Aroclor 1260	**0.672** (0.154)		8082A		1	08/14/13 13:29		CH31434
Aroclor 1262	ND (0.154)		8082A		1	08/14/13 13:29		CH31434
Aroclor 1268	ND (0.154)		8082A		1	08/14/13 13:29		CH31434

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*98 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*79 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*75 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*67 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC9 0-0.5ft
Date Sampled: 08/05/13 15:35
Percent Solids: 17
Initial Volume: 15.3
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308110
ESS Laboratory Sample ID: 1308110-09
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 8/12/13 15:30

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (1.96)		8270D		1	08/13/13 3:44	CWH0158	CH31223
1,2-Dichlorobenzene	ND (1.96)		8270D		1	08/13/13 3:44	CWH0158	CH31223
1,3-Dichlorobenzene	ND (1.96)		8270D		1	08/13/13 3:44	CWH0158	CH31223
1,4-Dichlorobenzene	ND (1.96)		8270D		1	08/13/13 3:44	CWH0158	CH31223
2-Methylnaphthalene	ND (1.96)		8270D		1	08/13/13 3:44	CWH0158	CH31223
2-Methylphenol	ND (1.96)		8270D		1	08/13/13 3:44	CWH0158	CH31223
Acenaphthene	ND (1.96)		8270D		1	08/13/13 3:44	CWH0158	CH31223
Acenaphthylene	ND (1.96)		8270D		1	08/13/13 3:44	CWH0158	CH31223
Anthracene	ND (1.96)		8270D		1	08/13/13 3:44	CWH0158	CH31223
Benzo(a)anthracene	ND (1.96)		8270D		1	08/13/13 3:44	CWH0158	CH31223
Benzo(a)pyrene	**1.61** (0.985)		8270D		1	08/13/13 3:44	CWH0158	CH31223
Benzo(b)fluoranthene	**3.20** (1.96)		8270D		1	08/13/13 3:44	CWH0158	CH31223
Benzo(g,h,i)perylene	ND (1.96)		8270D		1	08/13/13 3:44	CWH0158	CH31223
Benzo(k)fluoranthene	**3.71** (1.96)		8270D		1	08/13/13 3:44	CWH0158	CH31223
bis(2-Ethylhexyl)phthalate	**21.5** (1.96)		8270D		1	08/13/13 3:44	CWH0158	CH31223
Butylbenzylphthalate	ND (1.96)		8270D		1	08/13/13 3:44	CWH0158	CH31223
Carbazole	ND (1.96)		8270D		1	08/13/13 3:44	CWH0158	CH31223
Chrysene	**2.07** (0.985)		8270D		1	08/13/13 3:44	CWH0158	CH31223
Dibenzo(a,h)Anthracene	ND (0.985)		8270D		1	08/13/13 3:44	CWH0158	CH31223
Dibenzofuran	ND (1.96)		8270D		1	08/13/13 3:44	CWH0158	CH31223
Diethylphthalate	ND (1.96)		8270D		1	08/13/13 3:44	CWH0158	CH31223
Dimethylphthalate	ND (1.96)		8270D		1	08/13/13 3:44	CWH0158	CH31223
Di-n-butylphthalate	ND (1.96)		8270D		1	08/13/13 3:44	CWH0158	CH31223
Di-n-octylphthalate	ND (1.96)		8270D		1	08/13/13 3:44	CWH0158	CH31223
Fluoranthene	**3.43** (1.96)		8270D		1	08/13/13 3:44	CWH0158	CH31223
Fluorene	ND (1.96)		8270D		1	08/13/13 3:44	CWH0158	CH31223
Hexachlorobenzene	ND (1.96)		8270D		1	08/13/13 3:44	CWH0158	CH31223
Hexachlorocyclopentadiene	ND (9.85)		8270D		1	08/13/13 3:44	CWH0158	CH31223
Indeno(1,2,3-cd)Pyrene	ND (1.96)		8270D		1	08/13/13 3:44	CWH0158	CH31223
Naphthalene	ND (1.96)		8270D		1	08/13/13 3:44	CWH0158	CH31223
Phenanthrene	ND (1.96)		8270D		1	08/13/13 3:44	CWH0158	CH31223

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC9 0-0.5ft
Date Sampled: 08/05/13 15:35
Percent Solids: 17
Initial Volume: 15.3
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308110
ESS Laboratory Sample ID: 1308110-09
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 8/12/13 15:30

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Phenol	ND (1.96)		8270D		1	08/13/13 3:44	CWH0158	CH31223
Pyrene	**2.50** (1.96)		8270D		1	08/13/13 3:44	CWH0158	CH31223

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*51 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*45 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*55 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*56 %*		*30-130*
Surrogate: 2-Fluorophenol	*47 %*		*30-130*
Surrogate: Nitrobenzene-d5	*52 %*		*30-130*
Surrogate: Phenol-d6	*54 %*		*30-130*
Surrogate: p-Terphenyl-d14	*71 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC9 0-0.5ft
Date Sampled: 08/05/13 15:35
Percent Solids: 17
Initial Volume: 15.8
Final Volume: 0.5
Extraction Method: 3541

ESS Laboratory Work Order: 1308110
ESS Laboratory Sample ID: 1308110-09
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 8/10/13 9:00

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	ND (0.238)		8270D		5	08/11/13 22:06	CWH0139	CH31001
Acenaphthene	ND (0.238)		8270D		5	08/11/13 22:06	CWH0139	CH31001
Acenaphthylene	**0.638** (0.238)		8270D		5	08/11/13 22:06	CWH0139	CH31001
Anthracene	**0.590** (0.238)		8270D		5	08/11/13 22:06	CWH0139	CH31001
Benzo(a)anthracene	**1.66** (0.238)		8270D		5	08/11/13 22:06	CWH0139	CH31001
Benzo(a)pyrene	**2.37** (0.238)		8270D		5	08/11/13 22:06	CWH0139	CH31001
Benzo(b)fluoranthene	**3.82** (0.238)		8270D		5	08/11/13 22:06	CWH0139	CH31001
Benzo(g,h,i)perylene	**1.79** (0.238)		8270D		5	08/11/13 22:06	CWH0139	CH31001
Benzo(k)fluoranthene	**1.05** (0.238)		8270D		5	08/11/13 22:06	CWH0139	CH31001
Chrysene	**2.50** (0.238)		8270D		5	08/11/13 22:06	CWH0139	CH31001
Dibenzo(a,h)Anthracene	**0.476** (0.238)		8270D		5	08/11/13 22:06	CWH0139	CH31001
Fluoranthene	**3.79** (0.238)		8270D		5	08/11/13 22:06	CWH0139	CH31001
Fluorene	ND (0.238)		8270D		5	08/11/13 22:06	CWH0139	CH31001
Indeno(1,2,3-cd)Pyrene	**2.02** (0.238)		8270D		5	08/11/13 22:06	CWH0139	CH31001
Naphthalene	**0.438** (0.238)		8270D		5	08/11/13 22:06	CWH0139	CH31001
Phenanthrene	**0.905** (0.238)		8270D		5	08/11/13 22:06	CWH0139	CH31001
Pyrene	**3.63** (0.238)		8270D		5	08/11/13 22:06	CWH0139	CH31001

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*56 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*65 %*		*30-130*
Surrogate: Nitrobenzene-d5	*67 %*		*30-130*
Surrogate: p-Terphenyl-d14	*96 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC9 0-0.5ft
Date Sampled: 08/05/13 15:35
Percent Solids: 17

ESS Laboratory Work Order: 1308110
ESS Laboratory Sample ID: 1308110-09
Sample Matrix: Soil

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**145000** (6320)		TOC-LK		1	SUB	08/20/13 18:09	mg/kg	CH32011

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC9 0-0.5ft
Date Sampled: 08/05/13 15:35
Percent Solids: 17
Initial Volume: 14.8
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1308110
ESS Laboratory Sample ID: 1308110-09
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 8/12/13 10:00

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (153)		MADEP-EPH		1	VSC	08/13/13 14:55	CWH0163	CH31208
C19-C36 Aliphatics1	**755** (153)		MADEP-EPH		1	VSC	08/13/13 14:55	CWH0163	CH31208
C11-C22 Unadjusted Aromatics1	**403** (153)		EPH8270		1	VSC	08/14/13 10:29	CWH0181	CH31208
C11-C22 Aromatics1,2	**403** (153)		EPH8270			VSC	08/14/13 10:29		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*72 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*91 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*87 %*		*40-140*
Surrogate: O-Terphenyl	*78 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC9 2-4ft
Date Sampled: 08/05/13 15:35
Percent Solids: 28

ESS Laboratory Work Order: 1308110
ESS Laboratory Sample ID: 1308110-10
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (3.5)		6020A		50	SVD	08/12/13 21:08	5.08	100	CH30857
Arsenic	**52.6** (3.5)		6010B		1	JP	08/10/13 22:01	5.08	100	CH30857
Barium	**119** (3.5)		6010B		1	JP	08/10/13 22:01	5.08	100	CH30857
Beryllium	**0.86** (0.15)		6010B		1	JP	08/10/13 22:01	5.08	100	CH30857
Cadmium	**6.01** (0.70)		6010B		1	JP	08/10/13 22:01	5.08	100	CH30857
Chromium	**137** (1.4)		6010B		1	JP	08/10/13 22:01	5.08	100	CH30857
Lead	**403** (6.9)		6010B		1	JP	08/10/13 22:01	5.08	100	CH30857
Mercury	**1.63** (0.246)		7471B		5	JP	08/12/13 21:34	1.42	40	CH30932
Nickel	**40.1** (3.5)		6010B		1	JP	08/10/13 22:01	5.08	100	CH30857
Selenium	ND (3.49)		6020A		50	SVD	08/12/13 21:08	5.08	100	CH30857
Silver	**2.66** (0.70)		6010B		1	JP	08/10/13 22:01	5.08	100	CH30857
Thallium	ND (3.49)		6020A		50	SVD	08/12/13 21:08	5.08	100	CH30857
Vanadium	**122** (1.4)		6010B		1	JP	08/10/13 22:01	5.08	100	CH30857
Zinc	**1720** (17.3)		6010B		5	SVD	08/11/13 21:39	5.08	100	CH30857

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC9 2-4ft
Date Sampled: 08/05/13 15:35
Percent Solids: 28
Initial Volume: 19.6
Final Volume: 5
Extraction Method: 3540

ESS Laboratory Work Order: 1308110
ESS Laboratory Sample ID: 1308110-10
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 8/9/13 17:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0899)		8082A		1	08/14/13 19:08		CH30937
Aroclor 1221	ND (0.0899)		8082A		1	08/14/13 19:08		CH30937
Aroclor 1232	ND (0.0899)		8082A		1	08/14/13 19:08		CH30937
Aroclor 1242	ND (0.0899)		8082A		1	08/14/13 19:08		CH30937
Aroclor 1248	**3.40** (0.449)		8082A		5	08/15/13 12:41		CH30937
Aroclor 1254	**2.74** (0.449)		8082A		5	08/15/13 12:41		CH30937
Aroclor 1260	**1.09** (0.0899)		8082A		1	08/14/13 19:08		CH30937
Aroclor 1262	ND (0.0899)		8082A		1	08/14/13 19:08		CH30937
Aroclor 1268	ND (0.0899)		8082A		1	08/14/13 19:08		CH30937

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*102 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*96 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*80 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*76 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC9 2-4ft
Date Sampled: 08/05/13 15:35
Percent Solids: 28
Initial Volume: 15.1
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308110
ESS Laboratory Sample ID: 1308110-10
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 8/12/13 15:30

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (1.17)		8270D		1	08/13/13 4:18	CWH0158	CH31223
1,2-Dichlorobenzene	ND (1.17)		8270D		1	08/13/13 4:18	CWH0158	CH31223
1,3-Dichlorobenzene	ND (1.17)		8270D		1	08/13/13 4:18	CWH0158	CH31223
1,4-Dichlorobenzene	ND (1.17)		8270D		1	08/13/13 4:18	CWH0158	CH31223
2-Methylnaphthalene	ND (1.17)		8270D		1	08/13/13 4:18	CWH0158	CH31223
2-Methylphenol	ND (1.17)		8270D		1	08/13/13 4:18	CWH0158	CH31223
Acenaphthene	ND (1.17)		8270D		1	08/13/13 4:18	CWH0158	CH31223
Acenaphthylene	ND (1.17)		8270D		1	08/13/13 4:18	CWH0158	CH31223
Anthracene	ND (1.17)		8270D		1	08/13/13 4:18	CWH0158	CH31223
Benzo(a)anthracene	ND (1.17)		8270D		1	08/13/13 4:18	CWH0158	CH31223
Benzo(a)pyrene	ND (0.585)		8270D		1	08/13/13 4:18	CWH0158	CH31223
Benzo(b)fluoranthene	ND (1.17)		8270D		1	08/13/13 4:18	CWH0158	CH31223
Benzo(g,h,i)perylene	ND (1.17)		8270D		1	08/13/13 4:18	CWH0158	CH31223
Benzo(k)fluoranthene	ND (1.17)		8270D		1	08/13/13 4:18	CWH0158	CH31223
bis(2-Ethylhexyl)phthalate	**102** (11.7)		8270D		10	08/13/13 13:30	CWH0158	CH31223
Butylbenzylphthalate	ND (1.17)		8270D		1	08/13/13 4:18	CWH0158	CH31223
Carbazole	ND (1.17)		8270D		1	08/13/13 4:18	CWH0158	CH31223
Chrysene	ND (0.585)		8270D		1	08/13/13 4:18	CWH0158	CH31223
Dibenzo(a,h)Anthracene	ND (0.585)		8270D		1	08/13/13 4:18	CWH0158	CH31223
Dibenzofuran	ND (1.17)		8270D		1	08/13/13 4:18	CWH0158	CH31223
Diethylphthalate	ND (1.17)		8270D		1	08/13/13 4:18	CWH0158	CH31223
Dimethylphthalate	ND (1.17)		8270D		1	08/13/13 4:18	CWH0158	CH31223
Di-n-butylphthalate	ND (1.17)		8270D		1	08/13/13 4:18	CWH0158	CH31223
Di-n-octylphthalate	**1.29** (1.17)		8270D		1	08/13/13 4:18	CWH0158	CH31223
Fluoranthene	ND (1.17)		8270D		1	08/13/13 4:18	CWH0158	CH31223
Fluorene	ND (1.17)		8270D		1	08/13/13 4:18	CWH0158	CH31223
Hexachlorobenzene	ND (1.17)		8270D		1	08/13/13 4:18	CWH0158	CH31223
Hexachlorocyclopentadiene	ND (5.85)		8270D		1	08/13/13 4:18	CWH0158	CH31223
Indeno(1,2,3-cd)Pyrene	ND (1.17)		8270D		1	08/13/13 4:18	CWH0158	CH31223
Naphthalene	ND (1.17)		8270D		1	08/13/13 4:18	CWH0158	CH31223
Phenanthrene	ND (1.17)		8270D		1	08/13/13 4:18	CWH0158	CH31223

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC9 2-4ft
Date Sampled: 08/05/13 15:35
Percent Solids: 28
Initial Volume: 15.1
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308110
ESS Laboratory Sample ID: 1308110-10
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 8/12/13 15:30

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Phenol	ND (1.17)		8270D		1	08/13/13 4:18	CWH0158	CH31223
Pyrene	ND (1.17)		8270D		1	08/13/13 4:18	CWH0158	CH31223

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*50 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*49 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*53 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*57 %*		*30-130*
Surrogate: 2-Fluorophenol	*50 %*		*30-130*
Surrogate: Nitrobenzene-d5	*51 %*		*30-130*
Surrogate: Phenol-d6	*53 %*		*30-130*
Surrogate: p-Terphenyl-d14	*80 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC9 2-4ft
Date Sampled: 08/05/13 15:35
Percent Solids: 28
Initial Volume: 15.4
Final Volume: 0.5
Extraction Method: 3541

ESS Laboratory Work Order: 1308110
ESS Laboratory Sample ID: 1308110-10
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 8/10/13 9:00

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	ND (0.143)		8270D		5	08/14/13 13:18	CWH0174	CH31001
Acenaphthene	ND (0.143)		8270D		5	08/14/13 13:18	CWH0174	CH31001
Acenaphthylene	**0.332** (0.143)		8270D		5	08/14/13 13:18	CWH0174	CH31001
Anthracene	**0.378** (0.143)		8270D		5	08/14/13 13:18	CWH0174	CH31001
Benzo(a)anthracene	**0.578** (0.143)		8270D		5	08/14/13 13:18	CWH0174	CH31001
Benzo(a)pyrene	**0.629** (0.143)		8270D		5	08/14/13 13:18	CWH0174	CH31001
Benzo(b)fluoranthene	**0.778** (0.143)		8270D		5	08/14/13 13:18	CWH0174	CH31001
Benzo(g,h,i)perylene	**0.429** (0.143)		8270D		5	08/14/13 13:18	CWH0174	CH31001
Benzo(k)fluoranthene	**0.257** (0.143)		8270D		5	08/14/13 13:18	CWH0174	CH31001
Chrysene	**0.704** (0.143)		8270D		5	08/14/13 13:18	CWH0174	CH31001
Dibenzo(a,h)Anthracene	ND (0.143)		8270D		5	08/14/13 13:18	CWH0174	CH31001
Fluoranthene	**1.07** (0.143)		8270D		5	08/14/13 13:18	CWH0174	CH31001
Fluorene	ND (0.143)		8270D		5	08/14/13 13:18	CWH0174	CH31001
Indeno(1,2,3-cd)Pyrene	**0.389** (0.143)		8270D		5	08/14/13 13:18	CWH0174	CH31001
Naphthalene	**0.349** (0.143)		8270D		5	08/14/13 13:18	CWH0174	CH31001
Phenanthrene	**0.389** (0.143)		8270D		5	08/14/13 13:18	CWH0174	CH31001
Pyrene	**1.46** (0.143)		8270D		5	08/14/13 13:18	CWH0174	CH31001

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*44 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*42 %*		*30-130*
Surrogate: Nitrobenzene-d5	*40 %*		*30-130*
Surrogate: p-Terphenyl-d14	*74 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC9 2-4ft
Date Sampled: 08/05/13 15:35
Percent Solids: 28
Initial Volume: 14.7
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1308110
ESS Laboratory Sample ID: 1308110-10
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 8/12/13 10:00

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	**557** (89.9)		MADEP-EPH		1	VSC	08/13/13 15:47	CWH0163	CH31208
C19-C36 Aliphatics1	**1730** (89.9)		MADEP-EPH		1	VSC	08/13/13 15:47	CWH0163	CH31208
C11-C22 Unadjusted Aromatics1	**1370** (89.9)		EPH8270		1	VSC	08/15/13 0:52	CWH0181	CH31208
C11-C22 Aromatics1,2	**1350** (89.9)		EPH8270			VSC	08/15/13 0:52		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*80 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*103 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*93 %*		*40-140*
Surrogate: O-Terphenyl	*91 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC9 4-5ft2in
Date Sampled: 08/05/13 15:35
Percent Solids: 49

ESS Laboratory Work Order: 1308110
ESS Laboratory Sample ID: 1308110-11
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (1.9)		6020A		50	SVD	08/12/13 21:14	5.46	100	CH30857
Arsenic	**36.4** (1.9)		6010B		1	JP	08/10/13 22:07	5.46	100	CH30857
Barium	**78.4** (1.9)		6010B		1	JP	08/10/13 22:07	5.46	100	CH30857
Beryllium	**0.60** (0.08)		6010B		1	JP	08/10/13 22:07	5.46	100	CH30857
Cadmium	**2.89** (0.38)		6010B		1	JP	08/10/13 22:07	5.46	100	CH30857
Chromium	**79.0** (0.7)		6010B		1	JP	08/10/13 22:07	5.46	100	CH30857
Lead	**232** (3.7)		6010B		1	JP	08/10/13 22:07	5.46	100	CH30857
Mercury	**0.971** (0.135)		7471B		5	JP	08/12/13 21:37	1.5	40	CH30932
Nickel	**20.6** (1.9)		6010B		1	JP	08/10/13 22:07	5.46	100	CH30857
Selenium	ND (1.88)		6020A		50	SVD	08/12/13 21:14	5.46	100	CH30857
Silver	**1.66** (0.38)		6010B		1	JP	08/10/13 22:07	5.46	100	CH30857
Thallium	ND (1.88)		6020A		50	SVD	08/12/13 21:14	5.46	100	CH30857
Vanadium	**75.2** (0.7)		6010B		1	JP	08/10/13 22:07	5.46	100	CH30857
Zinc	**483** (9.3)		6010B		5	SVD	08/11/13 21:43	5.46	100	CH30857

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC9 4-5ft2in
Date Sampled: 08/05/13 15:35
Percent Solids: 49
Initial Volume: 19.5
Final Volume: 5
Extraction Method: 3540

ESS Laboratory Work Order: 1308110
ESS Laboratory Sample ID: 1308110-11
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 8/9/13 17:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0524)		8082A		1	08/14/13 19:27		CH30937
Aroclor 1221	ND (0.0524)		8082A		1	08/14/13 19:27		CH30937
Aroclor 1232	ND (0.0524)		8082A		1	08/14/13 19:27		CH30937
Aroclor 1242	ND (0.0524)		8082A		1	08/14/13 19:27		CH30937
Aroclor 1248	**1.25** (0.262)		8082A		5	08/15/13 13:00		CH30937
Aroclor 1254	**1.41** (0.262)		8082A		5	08/15/13 13:00		CH30937
Aroclor 1260	**0.456** (0.0524)		8082A		1	08/14/13 19:27		CH30937
Aroclor 1262	ND (0.0524)		8082A		1	08/14/13 19:27		CH30937
Aroclor 1268	ND (0.0524)		8082A		1	08/14/13 19:27		CH30937

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*93 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*100 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*71 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*69 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC9 4-5ft2in
Date Sampled: 08/05/13 15:35
Percent Solids: 49
Initial Volume: 15.6
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308110
ESS Laboratory Sample ID: 1308110-11
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 8/12/13 15:30

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.654)		8270D		1	08/13/13 4:52	CWH0158	CH31223
1,2-Dichlorobenzene	ND (0.654)		8270D		1	08/13/13 4:52	CWH0158	CH31223
1,3-Dichlorobenzene	ND (0.654)		8270D		1	08/13/13 4:52	CWH0158	CH31223
1,4-Dichlorobenzene	ND (0.654)		8270D		1	08/13/13 4:52	CWH0158	CH31223
2-Methylnaphthalene	ND (0.654)		8270D		1	08/13/13 4:52	CWH0158	CH31223
2-Methylphenol	ND (0.654)		8270D		1	08/13/13 4:52	CWH0158	CH31223
Acenaphthene	ND (0.654)		8270D		1	08/13/13 4:52	CWH0158	CH31223
Acenaphthylene	ND (0.654)		8270D		1	08/13/13 4:52	CWH0158	CH31223
Anthracene	ND (0.654)		8270D		1	08/13/13 4:52	CWH0158	CH31223
Benzo(a)anthracene	**1.29** (0.654)		8270D		1	08/13/13 4:52	CWH0158	CH31223
Benzo(a)pyrene	**1.14** (0.328)		8270D		1	08/13/13 4:52	CWH0158	CH31223
Benzo(b)fluoranthene	**1.34** (0.654)		8270D		1	08/13/13 4:52	CWH0158	CH31223
Benzo(g,h,i)perylene	ND (0.654)		8270D		1	08/13/13 4:52	CWH0158	CH31223
Benzo(k)fluoranthene	ND (0.654)		8270D		1	08/13/13 4:52	CWH0158	CH31223
bis(2-Ethylhexyl)phthalate	**232** (65.4)		8270D		100	08/13/13 14:37	CWH0158	CH31223
Butylbenzylphthalate	ND (0.654)		8270D		1	08/13/13 4:52	CWH0158	CH31223
Carbazole	ND (0.654)		8270D		1	08/13/13 4:52	CWH0158	CH31223
Chrysene	**1.35** (0.328)		8270D		1	08/13/13 4:52	CWH0158	CH31223
Dibenzo(a,h)Anthracene	ND (0.328)		8270D		1	08/13/13 4:52	CWH0158	CH31223
Dibenzofuran	ND (0.654)		8270D		1	08/13/13 4:52	CWH0158	CH31223
Diethylphthalate	ND (0.654)		8270D		1	08/13/13 4:52	CWH0158	CH31223
Dimethylphthalate	ND (0.654)		8270D		1	08/13/13 4:52	CWH0158	CH31223
Di-n-butylphthalate	ND (0.654)		8270D		1	08/13/13 4:52	CWH0158	CH31223
Di-n-octylphthalate	**3.17** (0.654)		8270D		1	08/13/13 4:52	CWH0158	CH31223
Fluoranthene	**2.61** (0.654)		8270D		1	08/13/13 4:52	CWH0158	CH31223
Fluorene	ND (0.654)		8270D		1	08/13/13 4:52	CWH0158	CH31223
Hexachlorobenzene	ND (0.654)		8270D		1	08/13/13 4:52	CWH0158	CH31223
Hexachlorocyclopentadiene	ND (3.28)		8270D		1	08/13/13 4:52	CWH0158	CH31223
Indeno(1,2,3-cd)Pyrene	ND (0.654)		8270D		1	08/13/13 4:52	CWH0158	CH31223
Naphthalene	**0.702** (0.654)		8270D		1	08/13/13 4:52	CWH0158	CH31223
Phenanthrene	ND (0.654)		8270D		1	08/13/13 4:52	CWH0158	CH31223

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC9 4-5ft2in
Date Sampled: 08/05/13 15:35
Percent Solids: 49
Initial Volume: 15.6
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308110
ESS Laboratory Sample ID: 1308110-11
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 8/12/13 15:30

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Phenol	ND (0.654)		8270D		1	08/13/13 4:52	CWH0158	CH31223
Pyrene	**2.68** (0.654)		8270D		1	08/13/13 4:52	CWH0158	CH31223

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*62 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*49 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*65 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*69 %*		*30-130*
Surrogate: 2-Fluorophenol	*59 %*		*30-130*
Surrogate: Nitrobenzene-d5	*62 %*		*30-130*
Surrogate: Phenol-d6	*63 %*		*30-130*
Surrogate: p-Terphenyl-d14	*78 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC9 4-5ft2in
Date Sampled: 08/05/13 15:35
Percent Solids: 49
Initial Volume: 15.4
Final Volume: 0.5
Extraction Method: 3541

ESS Laboratory Work Order: 1308110
ESS Laboratory Sample ID: 1308110-11
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 8/10/13 9:00

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	ND (0.083)		8270D		5	08/14/13 12:29	CWH0174	CH31001
Acenaphthene	ND (0.083)		8270D		5	08/14/13 12:29	CWH0174	CH31001
Acenaphthylene	**0.318** (0.083)		8270D		5	08/14/13 12:29	CWH0174	CH31001
Anthracene	**0.325** (0.083)		8270D		5	08/14/13 12:29	CWH0174	CH31001
Benzo(a)anthracene	**0.554** (0.083)		8270D		5	08/14/13 12:29	CWH0174	CH31001
Benzo(a)pyrene	**0.557** (0.083)		8270D		5	08/14/13 12:29	CWH0174	CH31001
Benzo(b)fluoranthene	**0.663** (0.083)		8270D		5	08/14/13 12:29	CWH0174	CH31001
Benzo(g,h,i)perylene	**0.292** (0.083)		8270D		5	08/14/13 12:29	CWH0174	CH31001
Benzo(k)fluoranthene	**0.196** (0.083)		8270D		5	08/14/13 12:29	CWH0174	CH31001
Chrysene	**0.620** (0.083)		8270D		5	08/14/13 12:29	CWH0174	CH31001
Dibenzo(a,h)Anthracene	**0.093** (0.083)		8270D		5	08/14/13 12:29	CWH0174	CH31001
Fluoranthene	**0.948** (0.083)		8270D		5	08/14/13 12:29	CWH0174	CH31001
Fluorene	ND (0.083)		8270D		5	08/14/13 12:29	CWH0174	CH31001
Indeno(1,2,3-cd)Pyrene	**0.308** (0.083)		8270D		5	08/14/13 12:29	CWH0174	CH31001
Naphthalene	**0.288** (0.083)		8270D		5	08/14/13 12:29	CWH0174	CH31001
Phenanthrene	**0.312** (0.083)		8270D		5	08/14/13 12:29	CWH0174	CH31001
Pyrene	**1.22** (0.083)		8270D		5	08/14/13 12:29	CWH0174	CH31001

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*38 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*51 %*		*30-130*
Surrogate: Nitrobenzene-d5	*38 %*		*30-130*
Surrogate: p-Terphenyl-d14	*86 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC9 4-5ft2in
Date Sampled: 08/05/13 15:35
Percent Solids: 49
Initial Volume: 14.9
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1308110
ESS Laboratory Sample ID: 1308110-11
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 8/12/13 10:00

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	**309** (51.4)		MADEP-EPH		1	VSC	08/13/13 16:37	CWH0163	CH31208
C19-C36 Aliphatics1	**658** (51.4)		MADEP-EPH		1	VSC	08/13/13 16:37	CWH0163	CH31208
C11-C22 Unadjusted Aromatics1	**887** (51.4)		EPH8270		1	VSC	08/14/13 16:45	CWH0181	CH31208
C11-C22 Aromatics1,2	**872** (51.4)		EPH8270			VSC	08/14/13 16:45		[CALC]

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1-Chlorooctadecane	*79 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*93 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*89 %*		*40-140*
Surrogate: O-Terphenyl	*82 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC10 0-0.5ft
Date Sampled: 08/05/13 15:45
Percent Solids: 27

ESS Laboratory Work Order: 1308110
ESS Laboratory Sample ID: 1308110-12
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (3.7)		6020A		50	SVD	08/12/13 21:32	5.06	100	CH30857
Arsenic	**27.2** (3.6)		6010B		1	JP	08/10/13 22:12	5.06	100	CH30857
Barium	**77.0** (3.6)		6010B		1	JP	08/10/13 22:12	5.06	100	CH30857
Beryllium	**0.65** (0.15)		6010B		1	JP	08/10/13 22:12	5.06	100	CH30857
Cadmium	**3.42** (0.73)		6010B		1	JP	08/10/13 22:12	5.06	100	CH30857
Chromium	**73.2** (1.5)		6010B		1	JP	08/10/13 22:12	5.06	100	CH30857
Lead	**275** (7.3)		6010B		1	JP	08/10/13 22:12	5.06	100	CH30857
Mercury	**0.890** (0.361)		7471B		5	JP	08/12/13 21:39	1.01	40	CH30932
Nickel	**31.5** (3.6)		6010B		1	JP	08/10/13 22:12	5.06	100	CH30857
Selenium	ND (3.66)		6020A		50	SVD	08/12/13 21:32	5.06	100	CH30857
Silver	**1.62** (0.73)		6010B		1	JP	08/10/13 22:12	5.06	100	CH30857
Thallium	ND (3.66)		6020A		50	SVD	08/12/13 21:32	5.06	100	CH30857
Vanadium	**58.4** (1.5)		6010B		1	JP	08/10/13 22:12	5.06	100	CH30857
Zinc	**709** (3.6)		6010B		1	SVD	08/11/13 21:47	5.06	100	CH30857

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC10 0-0.5ft
Date Sampled: 08/05/13 15:45
Percent Solids: 27
Initial Volume: 19.3
Final Volume: 5
Extraction Method: 3540

ESS Laboratory Work Order: 1308110
ESS Laboratory Sample ID: 1308110-12
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 8/9/13 17:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0955)		8082A		1	08/14/13 13:48		CH31434
Aroclor 1221	ND (0.0955)		8082A		1	08/14/13 13:48		CH31434
Aroclor 1232	ND (0.0955)		8082A		1	08/14/13 13:48		CH31434
Aroclor 1242	ND (0.0955)		8082A		1	08/14/13 13:48		CH31434
Aroclor 1248	**0.391** (0.0955)		8082A		1	08/14/13 13:48		CH31434
Aroclor 1254	**0.670** (0.0955)		8082A		1	08/14/13 13:48		CH31434
Aroclor 1260	**0.608** (0.0955)		8082A		1	08/14/13 13:48		CH31434
Aroclor 1262	ND (0.0955)		8082A		1	08/14/13 13:48		CH31434
Aroclor 1268	ND (0.0955)		8082A		1	08/14/13 13:48		CH31434

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*95 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*77 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*71 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*62 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC10 0-0.5ft
Date Sampled: 08/05/13 15:45
Percent Solids: 27
Initial Volume: 15.9
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308110
ESS Laboratory Sample ID: 1308110-12
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 8/12/13 15:30

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (1.16)		8270D		1	08/13/13 9:01	CWH0143	CH31223
1,2-Dichlorobenzene	ND (1.16)		8270D		1	08/13/13 9:01	CWH0143	CH31223
1,3-Dichlorobenzene	ND (1.16)		8270D		1	08/13/13 9:01	CWH0143	CH31223
1,4-Dichlorobenzene	ND (1.16)		8270D		1	08/13/13 9:01	CWH0143	CH31223
2-Methylnaphthalene	ND (1.16)		8270D		1	08/13/13 9:01	CWH0143	CH31223
2-Methylphenol	ND (1.16)		8270D		1	08/13/13 9:01	CWH0143	CH31223
Acenaphthene	ND (1.16)		8270D		1	08/13/13 9:01	CWH0143	CH31223
Acenaphthylene	ND (1.16)		8270D		1	08/13/13 9:01	CWH0143	CH31223
Anthracene	ND (1.16)		8270D		1	08/13/13 9:01	CWH0143	CH31223
Benzo(a)anthracene	ND (1.16)		8270D		1	08/13/13 9:01	CWH0143	CH31223
Benzo(a)pyrene	**1.54** (0.580)		8270D		1	08/13/13 9:01	CWH0143	CH31223
Benzo(b)fluoranthene	**2.54** (1.16)		8270D		1	08/13/13 9:01	CWH0143	CH31223
Benzo(g,h,i)perylene	**1.24** (1.16)		8270D		1	08/13/13 9:01	CWH0143	CH31223
Benzo(k)fluoranthene	ND (1.16)		8270D		1	08/13/13 9:01	CWH0143	CH31223
bis(2-Ethylhexyl)phthalate	**27.2** (1.16)		8270D		1	08/13/13 9:01	CWH0143	CH31223
Butylbenzylphthalate	ND (1.16)		8270D		1	08/13/13 9:01	CWH0143	CH31223
Carbazole	ND (1.16)		8270D		1	08/13/13 9:01	CWH0143	CH31223
Chrysene	**1.54** (0.580)		8270D		1	08/13/13 9:01	CWH0143	CH31223
Dibenzo(a,h)Anthracene	ND (0.580)		8270D		1	08/13/13 9:01	CWH0143	CH31223
Dibenzofuran	ND (1.16)		8270D		1	08/13/13 9:01	CWH0143	CH31223
Diethylphthalate	ND (1.16)		8270D		1	08/13/13 9:01	CWH0143	CH31223
Dimethylphthalate	ND (1.16)		8270D		1	08/13/13 9:01	CWH0143	CH31223
Di-n-butylphthalate	ND (1.16)		8270D		1	08/13/13 9:01	CWH0143	CH31223
Di-n-octylphthalate	ND (1.16)		8270D		1	08/13/13 9:01	CWH0143	CH31223
Fluoranthene	**1.81** (1.16)		8270D		1	08/13/13 9:01	CWH0143	CH31223
Fluorene	ND (1.16)		8270D		1	08/13/13 9:01	CWH0143	CH31223
Hexachlorobenzene	ND (1.16)		8270D		1	08/13/13 9:01	CWH0143	CH31223
Hexachlorocyclopentadiene	ND (5.80)		8270D		1	08/13/13 9:01	CWH0143	CH31223
Indeno(1,2,3-cd)Pyrene	ND (1.16)		8270D		1	08/13/13 9:01	CWH0143	CH31223
Naphthalene	ND (1.16)		8270D		1	08/13/13 9:01	CWH0143	CH31223
Phenanthrene	ND (1.16)		8270D		1	08/13/13 9:01	CWH0143	CH31223

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC10 0-0.5ft
Date Sampled: 08/05/13 15:45
Percent Solids: 27
Initial Volume: 15.9
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308110
ESS Laboratory Sample ID: 1308110-12
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 8/12/13 15:30

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Phenol	ND (1.16)		8270D		1	08/13/13 9:01	CWH0143	CH31223
Pyrene	**2.06** (1.16)		8270D		1	08/13/13 9:01	CWH0143	CH31223

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*47 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*99 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*54 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*63 %*		*30-130*
Surrogate: 2-Fluorophenol	*56 %*		*30-130*
Surrogate: Nitrobenzene-d5	*56 %*		*30-130*
Surrogate: Phenol-d6	*56 %*		*30-130*
Surrogate: p-Terphenyl-d14	*85 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC10 0-0.5ft
Date Sampled: 08/05/13 15:45
Percent Solids: 27
Initial Volume: 15.7
Final Volume: 0.5
Extraction Method: 3541

ESS Laboratory Work Order: 1308110
ESS Laboratory Sample ID: 1308110-12
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 8/10/13 9:00

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	ND (0.147)		8270D		5	08/11/13 22:55	CWH0139	CH31001
Acenaphthene	ND (0.147)		8270D		5	08/11/13 22:55	CWH0139	CH31001
Acenaphthylene	**0.593** (0.147)		8270D		5	08/11/13 22:55	CWH0139	CH31001
Anthracene	**0.452** (0.147)		8270D		5	08/11/13 22:55	CWH0139	CH31001
Benzo(a)anthracene	**0.886** (0.147)		8270D		5	08/11/13 22:55	CWH0139	CH31001
Benzo(a)pyrene	**1.26** (0.147)		8270D		5	08/11/13 22:55	CWH0139	CH31001
Benzo(b)fluoranthene	**1.86** (0.147)		8270D		5	08/11/13 22:55	CWH0139	CH31001
Benzo(g,h,i)perylene	**0.915** (0.147)		8270D		5	08/11/13 22:55	CWH0139	CH31001
Benzo(k)fluoranthene	**0.499** (0.147)		8270D		5	08/11/13 22:55	CWH0139	CH31001
Chrysene	**1.17** (0.147)		8270D		5	08/11/13 22:55	CWH0139	CH31001
Dibenzo(a,h)Anthracene	**0.252** (0.147)		8270D		5	08/11/13 22:55	CWH0139	CH31001
Fluoranthene	**1.63** (0.147)		8270D		5	08/11/13 22:55	CWH0139	CH31001
Fluorene	ND (0.147)		8270D		5	08/11/13 22:55	CWH0139	CH31001
Indeno(1,2,3-cd)Pyrene	**0.962** (0.147)		8270D		5	08/11/13 22:55	CWH0139	CH31001
Naphthalene	**0.464** (0.147)		8270D		5	08/11/13 22:55	CWH0139	CH31001
Phenanthrene	**0.569** (0.147)		8270D		5	08/11/13 22:55	CWH0139	CH31001
Pyrene	**1.71** (0.147)		8270D		5	08/11/13 22:55	CWH0139	CH31001

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*38 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*52 %*		*30-130*
Surrogate: Nitrobenzene-d5	*47 %*		*30-130*
Surrogate: p-Terphenyl-d14	*86 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC10 0-0.5ft
Date Sampled: 08/05/13 15:45
Percent Solids: 27

ESS Laboratory Work Order: 1308110
ESS Laboratory Sample ID: 1308110-12
Sample Matrix: Soil

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**111000** (3970)		TOC-LK		1	SUB	08/20/13 18:17	mg/kg	CH32011

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC10 0-0.5ft
Date Sampled: 08/05/13 15:45
Percent Solids: 27
Initial Volume: 14.9
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1308110
ESS Laboratory Sample ID: 1308110-12
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 8/12/13 10:00

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (92.7)		MADEP-EPH		1	VSC	08/13/13 17:28	CWH0163	CH31208
C19-C36 Aliphatics1	**390** (92.7)		MADEP-EPH		1	VSC	08/13/13 17:28	CWH0163	CH31208
C11-C22 Unadjusted Aromatics1	**229** (92.7)		EPH8270		1	VSC	08/14/13 11:16	CWH0181	CH31208
C11-C22 Aromatics1,2	**229** (92.7)		EPH8270			VSC	08/14/13 11:16		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*77 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*90 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*80 %*		*40-140*
Surrogate: O-Terphenyl	*78 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC10 2-4ft
Date Sampled: 08/05/13 15:45
Percent Solids: 72

ESS Laboratory Work Order: 1308110
ESS Laboratory Sample ID: 1308110-13
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (1.4)		6020A		50	SVD	08/12/13 21:38	5	100	CH30857
Arsenic	**4.1** (1.4)		6010B		1	JP	08/10/13 22:18	5	100	CH30857
Barium	**11.1** (1.4)		6010B		1	JP	08/10/13 22:18	5	100	CH30857
Beryllium	**0.21** (0.06)		6010B		1	JP	08/10/13 22:18	5	100	CH30857
Cadmium	ND (0.28)		6010B		1	JP	08/10/13 22:18	5	100	CH30857
Chromium	**11.6** (0.6)		6010B		1	JP	08/10/13 22:18	5	100	CH30857
Lead	ND (2.8)		6010B		1	JP	08/10/13 22:18	5	100	CH30857
Mercury	ND (0.018)		7471B		1	JP	08/12/13 21:47	1.5	40	CH30932
Nickel	**6.9** (1.4)		6010B		1	JP	08/10/13 22:18	5	100	CH30857
Selenium	ND (1.40)		6020A		50	SVD	08/12/13 21:38	5	100	CH30857
Silver	ND (0.28)		6010B		1	JP	08/10/13 22:18	5	100	CH30857
Thallium	ND (1.40)		6020A		50	SVD	08/12/13 21:38	5	100	CH30857
Vanadium	**14.7** (0.6)		6010B		1	JP	08/10/13 22:18	5	100	CH30857
Zinc	**21.0** (1.4)		6010B		1	SVD	08/11/13 21:53	5	100	CH30857

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC10 2-4ft
Date Sampled: 08/05/13 15:45
Percent Solids: 72
Initial Volume: 19.6
Final Volume: 5
Extraction Method: 3540

ESS Laboratory Work Order: 1308110
ESS Laboratory Sample ID: 1308110-13
Sample Matrix: Soil
Units: mg/kg dry
Analyst: ML
Prepared: 8/9/13 17:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0356)		8082A		1	08/12/13 23:33		CH30937
Aroclor 1221	ND (0.0356)		8082A		1	08/12/13 23:33		CH30937
Aroclor 1232	ND (0.0356)		8082A		1	08/12/13 23:33		CH30937
Aroclor 1242	ND (0.0356)		8082A		1	08/12/13 23:33		CH30937
Aroclor 1248	ND (0.0356)		8082A		1	08/12/13 23:33		CH30937
Aroclor 1254	ND (0.0356)		8082A		1	08/12/13 23:33		CH30937
Aroclor 1260	ND (0.0356)		8082A		1	08/12/13 23:33		CH30937
Aroclor 1262	ND (0.0356)		8082A		1	08/12/13 23:33		CH30937
Aroclor 1268	ND (0.0356)		8082A		1	08/12/13 23:33		CH30937

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*105 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*90 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*106 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*91 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC10 2-4ft
Date Sampled: 08/05/13 15:45
Percent Solids: 72
Initial Volume: 15.6
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308110
ESS Laboratory Sample ID: 1308110-13
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 8/12/13 15:30

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.446)		8270D		1	08/13/13 9:35	CWH0143	CH31223
1,2-Dichlorobenzene	ND (0.446)		8270D		1	08/13/13 9:35	CWH0143	CH31223
1,3-Dichlorobenzene	ND (0.446)		8270D		1	08/13/13 9:35	CWH0143	CH31223
1,4-Dichlorobenzene	ND (0.446)		8270D		1	08/13/13 9:35	CWH0143	CH31223
2-Methylnaphthalene	ND (0.446)		8270D		1	08/13/13 9:35	CWH0143	CH31223
2-Methylphenol	ND (0.446)		8270D		1	08/13/13 9:35	CWH0143	CH31223
Acenaphthene	ND (0.446)		8270D		1	08/13/13 9:35	CWH0143	CH31223
Acenaphthylene	ND (0.446)		8270D		1	08/13/13 9:35	CWH0143	CH31223
Anthracene	ND (0.446)		8270D		1	08/13/13 9:35	CWH0143	CH31223
Benzo(a)anthracene	ND (0.446)		8270D		1	08/13/13 9:35	CWH0143	CH31223
Benzo(a)pyrene	ND (0.224)		8270D		1	08/13/13 9:35	CWH0143	CH31223
Benzo(b)fluoranthene	ND (0.446)		8270D		1	08/13/13 9:35	CWH0143	CH31223
Benzo(g,h,i)perylene	ND (0.446)		8270D		1	08/13/13 9:35	CWH0143	CH31223
Benzo(k)fluoranthene	ND (0.446)		8270D		1	08/13/13 9:35	CWH0143	CH31223
bis(2-Ethylhexyl)phthalate	ND (0.446)		8270D		1	08/13/13 9:35	CWH0143	CH31223
Butylbenzylphthalate	ND (0.446)		8270D		1	08/13/13 9:35	CWH0143	CH31223
Carbazole	ND (0.446)		8270D		1	08/13/13 9:35	CWH0143	CH31223
Chrysene	ND (0.224)		8270D		1	08/13/13 9:35	CWH0143	CH31223
Dibenzo(a,h)Anthracene	ND (0.224)		8270D		1	08/13/13 9:35	CWH0143	CH31223
Dibenzofuran	ND (0.446)		8270D		1	08/13/13 9:35	CWH0143	CH31223
Diethylphthalate	ND (0.446)		8270D		1	08/13/13 9:35	CWH0143	CH31223
Dimethylphthalate	ND (0.446)		8270D		1	08/13/13 9:35	CWH0143	CH31223
Di-n-butylphthalate	ND (0.446)		8270D		1	08/13/13 9:35	CWH0143	CH31223
Di-n-octylphthalate	ND (0.446)		8270D		1	08/13/13 9:35	CWH0143	CH31223
Fluoranthene	ND (0.446)		8270D		1	08/13/13 9:35	CWH0143	CH31223
Fluorene	ND (0.446)		8270D		1	08/13/13 9:35	CWH0143	CH31223
Hexachlorobenzene	ND (0.446)		8270D		1	08/13/13 9:35	CWH0143	CH31223
Hexachlorocyclopentadiene	ND (2.24)		8270D		1	08/13/13 9:35	CWH0143	CH31223
Indeno(1,2,3-cd)Pyrene	ND (0.446)		8270D		1	08/13/13 9:35	CWH0143	CH31223
Naphthalene	ND (0.446)		8270D		1	08/13/13 9:35	CWH0143	CH31223
Phenanthrene	ND (0.446)		8270D		1	08/13/13 9:35	CWH0143	CH31223

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC10 2-4ft
Date Sampled: 08/05/13 15:45
Percent Solids: 72
Initial Volume: 15.6
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308110
ESS Laboratory Sample ID: 1308110-13
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 8/12/13 15:30

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Phenol	ND (0.446)		8270D		1	08/13/13 9:35	CWH0143	CH31223
Pyrene	ND (0.446)		8270D		1	08/13/13 9:35	CWH0143	CH31223

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*74 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*102 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*80 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*76 %*		*30-130*
Surrogate: 2-Fluorophenol	*83 %*		*30-130*
Surrogate: Nitrobenzene-d5	*80 %*		*30-130*
Surrogate: Phenol-d6	*77 %*		*30-130*
Surrogate: p-Terphenyl-d14	*93 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC10 2-4ft
Date Sampled: 08/05/13 15:45
Percent Solids: 72
Initial Volume: 15.1
Final Volume: 0.5
Extraction Method: 3541

ESS Laboratory Work Order: 1308110
ESS Laboratory Sample ID: 1308110-13
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 8/10/13 9:00

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	ND (0.012)		8270D		1	08/15/13 0:04	CWH0193	CH31001
Acenaphthene	ND (0.012)		8270D		1	08/15/13 0:04	CWH0193	CH31001
Acenaphthylene	ND (0.012)		8270D		1	08/15/13 0:04	CWH0193	CH31001
Anthracene	ND (0.012)		8270D		1	08/15/13 0:04	CWH0193	CH31001
Benzo(a)anthracene	ND (0.012)		8270D		1	08/15/13 0:04	CWH0193	CH31001
Benzo(a)pyrene	ND (0.012)		8270D		1	08/15/13 0:04	CWH0193	CH31001
Benzo(b)fluoranthene	ND (0.012)		8270D		1	08/15/13 0:04	CWH0193	CH31001
Benzo(g,h,i)perylene	ND (0.012)		8270D		1	08/15/13 0:04	CWH0193	CH31001
Benzo(k)fluoranthene	ND (0.012)		8270D		1	08/15/13 0:04	CWH0193	CH31001
Chrysene	ND (0.012)		8270D		1	08/15/13 0:04	CWH0193	CH31001
Dibenzo(a,h)Anthracene	ND (0.012)		8270D		1	08/15/13 0:04	CWH0193	CH31001
Fluoranthene	ND (0.012)		8270D		1	08/15/13 0:04	CWH0193	CH31001
Fluorene	ND (0.012)		8270D		1	08/15/13 0:04	CWH0193	CH31001
Indeno(1,2,3-cd)Pyrene	ND (0.012)		8270D		1	08/15/13 0:04	CWH0193	CH31001
Naphthalene	ND (0.012)		8270D		1	08/15/13 0:04	CWH0193	CH31001
Phenanthrene	ND (0.012)		8270D		1	08/15/13 0:04	CWH0193	CH31001
Pyrene	ND (0.012)		8270D		1	08/15/13 0:04	CWH0193	CH31001

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*68 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*61 %*		*30-130*
Surrogate: Nitrobenzene-d5	*75 %*		*30-130*
Surrogate: p-Terphenyl-d14	*88 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC10 2-4ft
Date Sampled: 08/05/13 15:45
Percent Solids: 72
Initial Volume: 15
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1308110
ESS Laboratory Sample ID: 1308110-13
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 8/12/13 10:00

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (34.9)		MADEP-EPH		1	VSC	08/13/13 18:19	CWH0163	CH31208
C19-C36 Aliphatics1	ND (34.9)		MADEP-EPH		1	VSC	08/13/13 18:19	CWH0163	CH31208
C11-C22 Unadjusted Aromatics1	ND (34.9)		EPH8270		1	VSC	08/14/13 18:19	CWH0181	CH31208
C11-C22 Aromatics1,2	ND (34.9)		EPH8270			VSC	08/14/13 18:19		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*79 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*85 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*79 %*		*40-140*
Surrogate: O-Terphenyl	*77 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308110

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Total Metals Solid										
Batch CH30857 - 3050B										
Blank										
Antimony	ND	2.5	mg/kg wet							
Arsenic	ND	2.5	mg/kg wet							
Barium	ND	2.5	mg/kg wet							
Beryllium	ND	0.10	mg/kg wet							
Cadmium	ND	0.50	mg/kg wet							
Chromium	ND	1.0	mg/kg wet							
Lead	ND	5.0	mg/kg wet							
Nickel	ND	2.5	mg/kg wet							
Selenium	ND	2.51	mg/kg wet							
Silver	ND	0.50	mg/kg wet							
Thallium	ND	2.51	mg/kg wet							
Vanadium	ND	1.0	mg/kg wet							
Zinc	ND	2.5	mg/kg wet							
LCS										
Antimony	105	8.8	mg/kg wet	106.0		99	80-120			
Arsenic	156	8.8	mg/kg wet	182.0		86	80-120			
Barium	129	8.8	mg/kg wet	143.0		90	80-120			
Beryllium	87.9	0.37	mg/kg wet	98.30		89	80-120			
Cadmium	56.5	1.76	mg/kg wet	60.40		94	80-120			
Chromium	114	3.5	mg/kg wet	125.0		91	80-120			
Lead	122	17.6	mg/kg wet	136.0		90	80-120			
Nickel	117	8.8	mg/kg wet	128.0		92	80-120			
Selenium	89.1	8.82	mg/kg wet	85.90		104	80-120			
Silver	59.6	1.76	mg/kg wet	61.30		97	80-120			
Thallium	157	8.82	mg/kg wet	144.0		109	80-120			
Vanadium	99.4	3.5	mg/kg wet	104.0		96	80-120			
Zinc	177	8.8	mg/kg wet	204.0		87	80-120			
LCS Dup										
Antimony	113	9.7	mg/kg wet	106.0		106	80-120	7	20	
Arsenic	156	9.6	mg/kg wet	182.0		85	80-120	0.4	20	
Barium	127	9.6	mg/kg wet	143.0		89	80-120	2	20	
Beryllium	87.6	0.40	mg/kg wet	98.30		89	80-120	0.4	20	
Cadmium	55.3	1.93	mg/kg wet	60.40		92	80-120	2	20	
Chromium	112	3.8	mg/kg wet	125.0		90	80-120	2	20	
Lead	122	19.2	mg/kg wet	136.0		90	80-120	0.1	20	
Nickel	115	9.6	mg/kg wet	128.0		90	80-120	2	20	
Selenium	87.8	9.66	mg/kg wet	85.90		102	80-120	2	20	
Silver	59.3	1.93	mg/kg wet	61.30		97	80-120	0.4	20	
Thallium	157	9.66	mg/kg wet	144.0		109	80-120	0.02	20	
Vanadium	97.8	3.8	mg/kg wet	104.0		94	80-120	2	20	
Zinc	178	9.6	mg/kg wet	204.0		87	80-120	0.2	20	
Batch CH30932 - 7471A										
Blank										

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308110

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Total Metals Solid										
Batch CH30932 - 7471A										
Mercury	ND	0.033	mg/kg wet							
LCS										
Mercury	10.9	0.786	mg/kg wet	9.250		118	80-120			
LCS Dup										
Mercury	10.6	0.762	mg/kg wet	9.250		115	80-120	2	20	
8082A Polychlorinated Biphenyls (PCB)										
Batch CH30937 - 3540										
Blank										
Aroclor 1016	ND	0.0250	mg/kg wet							
Aroclor 1016 (1)	ND	0.0250	mg/kg wet							
Aroclor 1016 (1) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1016 (2)	ND	0.0250	mg/kg wet							
Aroclor 1016 (2) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1016 (3)	ND	0.0250	mg/kg wet							
Aroclor 1016 (3) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1016 (4)	ND	0.0250	mg/kg wet							
Aroclor 1016 (4) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1016 (5)	ND	0.0250	mg/kg wet							
Aroclor 1016 (5) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1221	ND	0.0250	mg/kg wet							
Aroclor 1221 (1)	ND	0.0250	mg/kg wet							
Aroclor 1221 (1) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1221 (2)	ND	0.0250	mg/kg wet							
Aroclor 1221 (2) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1221 (3)	ND	0.0250	mg/kg wet							
Aroclor 1221 (3) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1221 (4)	ND	0.0250	mg/kg wet							
Aroclor 1221 (4) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1221 (5)	ND	0.0250	mg/kg wet							
Aroclor 1221 (5) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1232	ND	0.0250	mg/kg wet							
Aroclor 1232 (1)	ND	0.0250	mg/kg wet							
Aroclor 1232 (1) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1232 (2)	ND	0.0250	mg/kg wet							
Aroclor 1232 (2) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1232 (3)	ND	0.0250	mg/kg wet							
Aroclor 1232 (3) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1232 (4)	ND	0.0250	mg/kg wet							
Aroclor 1232 (4) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1232 (5)	ND	0.0250	mg/kg wet							
Aroclor 1232 (5) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1242	ND	0.0250	mg/kg wet							
Aroclor 1242 (1)	ND	0.0250	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308110

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CH30937 - 3540										
Aroclor 1242 (1) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1242 (2)	ND	0.0250	mg/kg wet							
Aroclor 1242 (2) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1242 (3)	ND	0.0250	mg/kg wet							
Aroclor 1242 (3) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1242 (4)	ND	0.0250	mg/kg wet							
Aroclor 1242 (4) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1242 (5)	ND	0.0250	mg/kg wet							
Aroclor 1242 (5) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1248	ND	0.0250	mg/kg wet							
Aroclor 1248 (1)	ND	0.0250	mg/kg wet							
Aroclor 1248 (1) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1248 (2)	ND	0.0250	mg/kg wet							
Aroclor 1248 (2) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1248 (3)	ND	0.0250	mg/kg wet							
Aroclor 1248 (3) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1248 (4)	ND	0.0250	mg/kg wet							
Aroclor 1248 (4) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1248 (5)	ND	0.0250	mg/kg wet							
Aroclor 1248 (5) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1254	ND	0.0250	mg/kg wet							
Aroclor 1254 (1)	ND	0.0250	mg/kg wet							
Aroclor 1254 (1) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1254 (2)	ND	0.0250	mg/kg wet							
Aroclor 1254 (2) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1254 (3)	ND	0.0250	mg/kg wet							
Aroclor 1254 (3) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1254 (4)	ND	0.0250	mg/kg wet							
Aroclor 1254 (4) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1254 (5)	ND	0.0250	mg/kg wet							
Aroclor 1254 (5) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1260	ND	0.0250	mg/kg wet							
Aroclor 1260 (1)	ND	0.0250	mg/kg wet							
Aroclor 1260 (1) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1260 (2)	ND	0.0250	mg/kg wet							
Aroclor 1260 (2) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1260 (3)	ND	0.0250	mg/kg wet							
Aroclor 1260 (3) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1260 (4)	ND	0.0250	mg/kg wet							
Aroclor 1260 (4) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1260 (5)	ND	0.0250	mg/kg wet							
Aroclor 1260 (5) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1262	ND	0.0250	mg/kg wet							
Aroclor 1262 (1)	ND	0.0250	mg/kg wet							
Aroclor 1262 (1) [2C]	ND	0.0250	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308110

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CH30937 - 3540										
Aroclor 1262 (2)	ND	0.0250	mg/kg wet							
Aroclor 1262 (2) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1262 (3)	ND	0.0250	mg/kg wet							
Aroclor 1262 (3) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1262 (4)	ND	0.0250	mg/kg wet							
Aroclor 1262 (4) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1262 (5)	ND	0.0250	mg/kg wet							
Aroclor 1262 (5) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1268	ND	0.0250	mg/kg wet							
Aroclor 1268 (1)	ND	0.0250	mg/kg wet							
Aroclor 1268 (1) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1268 (2)	ND	0.0250	mg/kg wet							
Aroclor 1268 (2) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1268 (3)	ND	0.0250	mg/kg wet							
Aroclor 1268 (3) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1268 (4)	ND	0.0250	mg/kg wet							
Aroclor 1268 (4) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1268 (5)	ND	0.0250	mg/kg wet							
Aroclor 1268 (5) [2C]	ND	0.0250	mg/kg wet							
Surrogate: Decachlorobiphenyl	*0.0127*		mg/kg wet	*0.01250*		*101*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0108*		mg/kg wet	*0.01250*		*87*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0119*		mg/kg wet	*0.01250*		*95*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0100*		mg/kg wet	*0.01250*		*80*	*30-150*			
LCS										
Aroclor 1016	0.279	0.0250	mg/kg wet	0.2500		111	40-140			
Aroclor 1260	0.291	0.0250	mg/kg wet	0.2500		117	40-140			
Surrogate: Decachlorobiphenyl	*0.0142*		mg/kg wet	*0.01250*		*114*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0116*		mg/kg wet	*0.01250*		*93*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0145*		mg/kg wet	*0.01250*		*116*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0116*		mg/kg wet	*0.01250*		*93*	*30-150*			
LCS Dup										
Aroclor 1016	0.267	0.0250	mg/kg wet	0.2500		107	40-140	4	30	
Aroclor 1260	0.281	0.0250	mg/kg wet	0.2500		112	40-140	4	30	
Surrogate: Decachlorobiphenyl	*0.0134*		mg/kg wet	*0.01250*		*107*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0110*		mg/kg wet	*0.01250*		*88*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0131*		mg/kg wet	*0.01250*		*105*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0106*		mg/kg wet	*0.01250*		*84*	*30-150*			
Batch CH31434 - 3540										
Blank										
Aroclor 1016	ND	0.0250	mg/kg wet							
Aroclor 1016 (1)	ND	0.0250	mg/kg wet							
Aroclor 1016 (1) [2C]	ND	0.0250	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308110

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CH31434 - 3540										
Aroclor 1016 (2)	ND	0.0250	mg/kg wet							
Aroclor 1016 (2) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1016 (3)	ND	0.0250	mg/kg wet							
Aroclor 1016 (3) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1016 (4)	ND	0.0250	mg/kg wet							
Aroclor 1016 (4) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1016 (5)	ND	0.0250	mg/kg wet							
Aroclor 1016 (5) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1221	ND	0.0250	mg/kg wet							
Aroclor 1221 (1)	ND	0.0250	mg/kg wet							
Aroclor 1221 (1) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1221 (2)	ND	0.0250	mg/kg wet							
Aroclor 1221 (2) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1221 (3)	ND	0.0250	mg/kg wet							
Aroclor 1221 (3) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1221 (4)	ND	0.0250	mg/kg wet							
Aroclor 1221 (4) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1221 (5)	ND	0.0250	mg/kg wet							
Aroclor 1221 (5) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1232	ND	0.0250	mg/kg wet							
Aroclor 1232 (1)	ND	0.0250	mg/kg wet							
Aroclor 1232 (1) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1232 (2)	ND	0.0250	mg/kg wet							
Aroclor 1232 (2) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1232 (3)	ND	0.0250	mg/kg wet							
Aroclor 1232 (3) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1232 (4)	ND	0.0250	mg/kg wet							
Aroclor 1232 (4) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1232 (5)	ND	0.0250	mg/kg wet							
Aroclor 1232 (5) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1242	ND	0.0250	mg/kg wet							
Aroclor 1242 (1)	ND	0.0250	mg/kg wet							
Aroclor 1242 (1) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1242 (2)	ND	0.0250	mg/kg wet							
Aroclor 1242 (2) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1242 (3)	ND	0.0250	mg/kg wet							
Aroclor 1242 (3) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1242 (4)	ND	0.0250	mg/kg wet							
Aroclor 1242 (4) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1242 (5)	ND	0.0250	mg/kg wet							
Aroclor 1242 (5) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1248	ND	0.0250	mg/kg wet							
Aroclor 1248 (1)	ND	0.0250	mg/kg wet							
Aroclor 1248 (1) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1248 (2)	ND	0.0250	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308110

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CH31434 - 3540										
Aroclor 1248 (2) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1248 (3)	ND	0.0250	mg/kg wet							
Aroclor 1248 (3) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1248 (4)	ND	0.0250	mg/kg wet							
Aroclor 1248 (4) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1248 (5)	ND	0.0250	mg/kg wet							
Aroclor 1248 (5) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1254	ND	0.0250	mg/kg wet							
Aroclor 1254 (1)	ND	0.0250	mg/kg wet							
Aroclor 1254 (1) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1254 (2)	ND	0.0250	mg/kg wet							
Aroclor 1254 (2) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1254 (3)	ND	0.0250	mg/kg wet							
Aroclor 1254 (3) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1254 (4)	ND	0.0250	mg/kg wet							
Aroclor 1254 (4) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1254 (5)	ND	0.0250	mg/kg wet							
Aroclor 1254 (5) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1260	ND	0.0250	mg/kg wet							
Aroclor 1260 (1)	ND	0.0250	mg/kg wet							
Aroclor 1260 (1) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1260 (2)	ND	0.0250	mg/kg wet							
Aroclor 1260 (2) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1260 (3)	ND	0.0250	mg/kg wet							
Aroclor 1260 (3) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1260 (4)	ND	0.0250	mg/kg wet							
Aroclor 1260 (4) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1260 (5)	ND	0.0250	mg/kg wet							
Aroclor 1260 (5) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1262	ND	0.0250	mg/kg wet							
Aroclor 1262 (1)	ND	0.0250	mg/kg wet							
Aroclor 1262 (1) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1262 (2)	ND	0.0250	mg/kg wet							
Aroclor 1262 (2) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1262 (3)	ND	0.0250	mg/kg wet							
Aroclor 1262 (3) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1262 (4)	ND	0.0250	mg/kg wet							
Aroclor 1262 (4) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1262 (5)	ND	0.0250	mg/kg wet							
Aroclor 1262 (5) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1268	ND	0.0250	mg/kg wet							
Aroclor 1268 (1)	ND	0.0250	mg/kg wet							
Aroclor 1268 (1) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1268 (2)	ND	0.0250	mg/kg wet							
Aroclor 1268 (2) [2C]	ND	0.0250	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308110

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CH31434 - 3540										
Aroclor 1268 (3)	ND	0.0250	mg/kg wet							
Aroclor 1268 (3) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1268 (4)	ND	0.0250	mg/kg wet							
Aroclor 1268 (4) [2C]	ND	0.0250	mg/kg wet							
Aroclor 1268 (5)	ND	0.0250	mg/kg wet							
Aroclor 1268 (5) [2C]	ND	0.0250	mg/kg wet							
Surrogate: Decachlorobiphenyl	*0.0162*		mg/kg wet	*0.01250*		*129*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0131*		mg/kg wet	*0.01250*		*105*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0111*		mg/kg wet	*0.01250*		*89*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0106*		mg/kg wet	*0.01250*		*85*	*30-150*			
LCS										
Aroclor 1016	0.294	0.0250	mg/kg wet	0.2500		118	40-140			
Aroclor 1260	0.318	0.0250	mg/kg wet	0.2500		127	40-140			
Surrogate: Decachlorobiphenyl	*0.0181*		mg/kg wet	*0.01250*		*145*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0147*		mg/kg wet	*0.01250*		*117*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0139*		mg/kg wet	*0.01250*		*111*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0129*		mg/kg wet	*0.01250*		*103*	*30-150*			
LCS Dup										
Aroclor 1016	0.291	0.0250	mg/kg wet	0.2500		116	40-140	1	30	
Aroclor 1260	0.306	0.0250	mg/kg wet	0.2500		122	40-140	4	30	
Surrogate: Decachlorobiphenyl	*0.0171*		mg/kg wet	*0.01250*		*137*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0137*		mg/kg wet	*0.01250*		*110*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0128*		mg/kg wet	*0.01250*		*103*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0117*		mg/kg wet	*0.01250*		*93*	*30-150*			
8270D Semi-Volatile Organic Compounds										
Batch CH30921 - 3546										
Blank										
1,2,4-Trichlorobenzene	ND	0.333	mg/kg wet							
1,2-Dichlorobenzene	ND	0.333	mg/kg wet							
1,3-Dichlorobenzene	ND	0.333	mg/kg wet							
1,4-Dichlorobenzene	ND	0.333	mg/kg wet							
2-Methylnaphthalene	ND	0.333	mg/kg wet							
2-Methylphenol	ND	0.333	mg/kg wet							
Acenaphthene	ND	0.333	mg/kg wet							
Acenaphthylene	ND	0.333	mg/kg wet							
Anthracene	ND	0.333	mg/kg wet							
Benzo(a)anthracene	ND	0.333	mg/kg wet							
Benzo(a)pyrene	ND	0.167	mg/kg wet							
Benzo(b)fluoranthene	ND	0.333	mg/kg wet							
Benzo(g,h,i)perylene	ND	0.333	mg/kg wet							
Benzo(k)fluoranthene	ND	0.333	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308110

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D Semi-Volatile Organic Compounds										
Batch CH30921 - 3546										
bis(2-Ethylhexyl)phthalate	ND	0.333	mg/kg wet							
Butylbenzylphthalate	ND	0.333	mg/kg wet							
Carbazole	ND	0.333	mg/kg wet							
Chrysene	ND	0.167	mg/kg wet							
Dibenzo(a,h)Anthracene	ND	0.167	mg/kg wet							
Dibenzofuran	ND	0.333	mg/kg wet							
Diethylphthalate	ND	0.333	mg/kg wet							
Dimethylphthalate	ND	0.333	mg/kg wet							
Di-n-butylphthalate	ND	0.333	mg/kg wet							
Di-n-octylphthalate	ND	0.333	mg/kg wet							
Fluoranthene	ND	0.333	mg/kg wet							
Fluorene	ND	0.333	mg/kg wet							
Hexachlorobenzene	ND	0.333	mg/kg wet							
Hexachlorocyclopentadiene	ND	1.67	mg/kg wet							
Indeno(1,2,3-cd)Pyrene	ND	0.333	mg/kg wet							
Naphthalene	ND	0.333	mg/kg wet							
Phenanthrene	ND	0.333	mg/kg wet							
Phenol	ND	0.333	mg/kg wet							
Pyrene	ND	0.333	mg/kg wet							
Surrogate: 1,2-Dichlorobenzene-d4	*2.83*		mg/kg wet	*3.333*		*85*	*30-130*			
Surrogate: 2,4,6-Tribromophenol	*4.52*		mg/kg wet	*5.000*		*90*	*30-130*			
Surrogate: 2-Chlorophenol-d4	*4.20*		mg/kg wet	*5.000*		*84*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*2.96*		mg/kg wet	*3.333*		*89*	*30-130*			
Surrogate: 2-Fluorophenol	*2.87*		mg/kg wet	*5.000*		*57*	*30-130*			
Surrogate: Nitrobenzene-d5	*2.96*		mg/kg wet	*3.333*		*89*	*30-130*			
Surrogate: Phenol-d6	*4.36*		mg/kg wet	*5.000*		*87*	*30-130*			
Surrogate: p-Terphenyl-d14	*2.87*		mg/kg wet	*3.333*		*86*	*30-130*			
LCS										
1,2,4-Trichlorobenzene	2.55	0.333	mg/kg wet	3.333		77	40-140			
1,2-Dichlorobenzene	2.62	0.333	mg/kg wet	3.333		79	40-140			
1,3-Dichlorobenzene	2.55	0.333	mg/kg wet	3.333		77	40-140			
1,4-Dichlorobenzene	2.47	0.333	mg/kg wet	3.333		74	40-140			
2-Methylnaphthalene	2.76	0.333	mg/kg wet	3.333		83	40-140			
2-Methylphenol	2.97	0.333	mg/kg wet	3.333		89	30-130			
Acenaphthene	2.61	0.333	mg/kg wet	3.333		78	40-140			
Acenaphthylene	2.65	0.333	mg/kg wet	3.333		79	40-140			
Anthracene	2.94	0.333	mg/kg wet	3.333		88	40-140			
Benzo(a)anthracene	3.10	0.333	mg/kg wet	3.333		93	40-140			
Benzo(a)pyrene	3.01	0.167	mg/kg wet	3.333		90	40-140			
Benzo(b)fluoranthene	3.06	0.333	mg/kg wet	3.333		92	40-140			
Benzo(g,h,i)perylene	3.36	0.333	mg/kg wet	3.333		101	40-140			
Benzo(k)fluoranthene	3.31	0.333	mg/kg wet	3.333		99	40-140			
bis(2-Ethylhexyl)phthalate	3.29	0.333	mg/kg wet	3.333		99	40-140			
Butylbenzylphthalate	3.34	0.333	mg/kg wet	3.333		100	40-140			
Carbazole	2.80	0.333	mg/kg wet	3.333		84	40-140			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308110

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D Semi-Volatile Organic Compounds										
Batch CH30921 - 3546										
Chrysene	3.02	0.167	mg/kg wet	3.333		91	40-140			
Dibenzo(a,h)Anthracene	3.36	0.167	mg/kg wet	3.333		101	40-140			
Dibenzofuran	2.77	0.333	mg/kg wet	3.333		83	40-140			
Diethylphthalate	2.61	0.333	mg/kg wet	3.333		78	40-140			
Dimethylphthalate	2.96	0.333	mg/kg wet	3.333		89	40-140			
Di-n-butylphthalate	2.78	0.333	mg/kg wet	3.333		84	40-140			
Di-n-octylphthalate	3.58	0.333	mg/kg wet	3.333		107	40-140			
Fluoranthene	2.57	0.333	mg/kg wet	3.333		77	40-140			
Fluorene	2.85	0.333	mg/kg wet	3.333		85	40-140			
Hexachlorobenzene	2.81	0.333	mg/kg wet	3.333		84	40-140			
Hexachlorocyclopentadiene	1.86	1.67	mg/kg wet	3.333		56	40-140			
Indeno(1,2,3-cd)Pyrene	3.28	0.333	mg/kg wet	3.333		98	40-140			
Naphthalene	2.63	0.333	mg/kg wet	3.333		79	40-140			
Phenanthrene	2.93	0.333	mg/kg wet	3.333		88	40-140			
Phenol	2.58	0.333	mg/kg wet	3.333		77	30-130			
Pyrene	3.33	0.333	mg/kg wet	3.333		100	40-140			
Surrogate: 1,2-Dichlorobenzene-d4	*2.72*		mg/kg wet	*3.333*		*82*	*30-130*			
Surrogate: 2,4,6-Tribromophenol	*4.75*		mg/kg wet	*5.000*		*95*	*30-130*			
Surrogate: 2-Chlorophenol-d4	*4.17*		mg/kg wet	*5.000*		*83*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*2.83*		mg/kg wet	*3.333*		*85*	*30-130*			
Surrogate: 2-Fluorophenol	*2.78*		mg/kg wet	*5.000*		*56*	*30-130*			
Surrogate: Nitrobenzene-d5	*2.73*		mg/kg wet	*3.333*		*82*	*30-130*			
Surrogate: Phenol-d6	*4.26*		mg/kg wet	*5.000*		*85*	*30-130*			
Surrogate: p-Terphenyl-d14	*3.32*		mg/kg wet	*3.333*		*100*	*30-130*			
LCS Dup										
1,2,4-Trichlorobenzene	2.76	0.333	mg/kg wet	3.333		83	40-140	8	30	
1,2-Dichlorobenzene	2.74	0.333	mg/kg wet	3.333		82	40-140	4	30	
1,3-Dichlorobenzene	2.58	0.333	mg/kg wet	3.333		77	40-140	1	30	
1,4-Dichlorobenzene	2.62	0.333	mg/kg wet	3.333		79	40-140	6	30	
2-Methylnaphthalene	2.90	0.333	mg/kg wet	3.333		87	40-140	5	30	
2-Methylphenol	3.12	0.333	mg/kg wet	3.333		94	30-130	5	30	
Acenaphthene	3.04	0.333	mg/kg wet	3.333		91	40-140	15	30	
Acenaphthylene	2.67	0.333	mg/kg wet	3.333		80	40-140	0.9	30	
Anthracene	3.16	0.333	mg/kg wet	3.333		95	40-140	7	30	
Benzo(a)anthracene	3.17	0.333	mg/kg wet	3.333		95	40-140	2	30	
Benzo(a)pyrene	3.14	0.167	mg/kg wet	3.333		94	40-140	4	30	
Benzo(b)fluoranthene	3.48	0.333	mg/kg wet	3.333		104	40-140	13	30	
Benzo(g,h,i)perylene	3.64	0.333	mg/kg wet	3.333		109	40-140	8	30	
Benzo(k)fluoranthene	3.15	0.333	mg/kg wet	3.333		95	40-140	5	30	
bis(2-Ethylhexyl)phthalate	3.64	0.333	mg/kg wet	3.333		109	40-140	10	30	
Butylbenzylphthalate	3.58	0.333	mg/kg wet	3.333		107	40-140	7	30	
Carbazole	3.10	0.333	mg/kg wet	3.333		93	40-140	10	30	
Chrysene	3.56	0.167	mg/kg wet	3.333		107	40-140	16	30	
Dibenzo(a,h)Anthracene	3.60	0.167	mg/kg wet	3.333		108	40-140	7	30	
Dibenzofuran	2.85	0.333	mg/kg wet	3.333		85	40-140	3	30	

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308110

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D Semi-Volatile Organic Compounds										
Batch CH30921 - 3546										
Diethylphthalate	2.66	0.333	mg/kg wet	3.333		80	40-140	2	30	
Dimethylphthalate	2.76	0.333	mg/kg wet	3.333		83	40-140	7	30	
Di-n-butylphthalate	2.96	0.333	mg/kg wet	3.333		89	40-140	6	30	
Di-n-octylphthalate	3.68	0.333	mg/kg wet	3.333		110	40-140	3	30	
Fluoranthene	2.80	0.333	mg/kg wet	3.333		84	40-140	9	30	
Fluorene	2.99	0.333	mg/kg wet	3.333		90	40-140	5	30	
Hexachlorobenzene	3.04	0.333	mg/kg wet	3.333		91	40-140	8	30	
Hexachlorocyclopentadiene	2.06	1.67	mg/kg wet	3.333		62	40-140	10	30	
Indeno(1,2,3-cd)Pyrene	3.61	0.333	mg/kg wet	3.333		108	40-140	9	30	
Naphthalene	2.77	0.333	mg/kg wet	3.333		83	40-140	5	30	
Phenanthrene	3.14	0.333	mg/kg wet	3.333		94	40-140	7	30	
Phenol	2.62	0.333	mg/kg wet	3.333		79	30-130	2	30	
Pyrene	3.69	0.333	mg/kg wet	3.333		111	40-140	10	30	
Surrogate: 1,2-Dichlorobenzene-d4	*2.69*		mg/kg wet	*3.333*		*81*	*30-130*			
Surrogate: 2,4,6-Tribromophenol	*4.96*		mg/kg wet	*5.000*		*99*	*30-130*			
Surrogate: 2-Chlorophenol-d4	*4.21*		mg/kg wet	*5.000*		*84*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*2.96*		mg/kg wet	*3.333*		*89*	*30-130*			
Surrogate: 2-Fluorophenol	*2.70*		mg/kg wet	*5.000*		*54*	*30-130*			
Surrogate: Nitrobenzene-d5	*2.80*		mg/kg wet	*3.333*		*84*	*30-130*			
Surrogate: Phenol-d6	*4.29*		mg/kg wet	*5.000*		*86*	*30-130*			
Surrogate: p-Terphenyl-d14	*3.56*		mg/kg wet	*3.333*		*107*	*30-130*			
Batch CH31223 - 3546										
Blank										
1,2,4-Trichlorobenzene	ND	0.333	mg/kg wet							
1,2-Dichlorobenzene	ND	0.333	mg/kg wet							
1,3-Dichlorobenzene	ND	0.333	mg/kg wet							
1,4-Dichlorobenzene	ND	0.333	mg/kg wet							
2-Methylnaphthalene	ND	0.333	mg/kg wet							
2-Methylphenol	ND	0.333	mg/kg wet							
Acenaphthene	ND	0.333	mg/kg wet							
Acenaphthylene	ND	0.333	mg/kg wet							
Anthracene	ND	0.333	mg/kg wet							
Benzo(a)anthracene	ND	0.333	mg/kg wet							
Benzo(a)pyrene	ND	0.167	mg/kg wet							
Benzo(b)fluoranthene	ND	0.333	mg/kg wet							
Benzo(g,h,i)perylene	ND	0.333	mg/kg wet							
Benzo(k)fluoranthene	ND	0.333	mg/kg wet							
bis(2-Ethylhexyl)phthalate	ND	0.333	mg/kg wet							
Butylbenzylphthalate	ND	0.333	mg/kg wet							
Carbazole	ND	0.333	mg/kg wet							
Chrysene	ND	0.167	mg/kg wet							
Dibenzo(a,h)Anthracene	ND	0.167	mg/kg wet							
Dibenzofuran	ND	0.333	mg/kg wet							
Diethylphthalate	ND	0.333	mg/kg wet							
Dimethylphthalate	ND	0.333	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308110

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D Semi-Volatile Organic Compounds										
Batch CH31223 - 3546										
Di-n-butylphthalate	ND	0.333	mg/kg wet							
Di-n-octylphthalate	ND	0.333	mg/kg wet							
Fluoranthene	ND	0.333	mg/kg wet							
Fluorene	ND	0.333	mg/kg wet							
Hexachlorobenzene	ND	0.333	mg/kg wet							
Hexachlorocyclopentadiene	ND	1.67	mg/kg wet							
Indeno(1,2,3-cd)Pyrene	ND	0.333	mg/kg wet							
Naphthalene	ND	0.333	mg/kg wet							
Phenanthrene	ND	0.333	mg/kg wet							
Phenol	ND	0.333	mg/kg wet							
Pyrene	ND	0.333	mg/kg wet							
Surrogate: 1,2-Dichlorobenzene-d4	*2.60*		mg/kg wet	*3.333*		*78*	*30-130*			
Surrogate: 2,4,6-Tribromophenol	*1.92*		mg/kg wet	*5.000*		*38*	*30-130*			
Surrogate: 2-Chlorophenol-d4	*4.08*		mg/kg wet	*5.000*		*82*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*2.87*		mg/kg wet	*3.333*		*86*	*30-130*			
Surrogate: 2-Fluorophenol	*4.00*		mg/kg wet	*5.000*		*80*	*30-130*			
Surrogate: Nitrobenzene-d5	*3.00*		mg/kg wet	*3.333*		*90*	*30-130*			
Surrogate: Phenol-d6	*4.34*		mg/kg wet	*5.000*		*87*	*30-130*			
Surrogate: p-Terphenyl-d14	*3.52*		mg/kg wet	*3.333*		*106*	*30-130*			
LCS										
1,2,4-Trichlorobenzene	2.68	0.333	mg/kg wet	3.333		80	40-140			
1,2-Dichlorobenzene	2.71	0.333	mg/kg wet	3.333		81	40-140			
1,3-Dichlorobenzene	2.64	0.333	mg/kg wet	3.333		79	40-140			
1,4-Dichlorobenzene	2.68	0.333	mg/kg wet	3.333		80	40-140			
2-Methylnaphthalene	3.00	0.333	mg/kg wet	3.333		90	40-140			
2-Methylphenol	2.98	0.333	mg/kg wet	3.333		89	30-130			
Acenaphthene	2.92	0.333	mg/kg wet	3.333		87	40-140			
Acenaphthylene	2.76	0.333	mg/kg wet	3.333		83	40-140			
Anthracene	3.18	0.333	mg/kg wet	3.333		95	40-140			
Benzo(a)anthracene	3.01	0.333	mg/kg wet	3.333		90	40-140			
Benzo(a)pyrene	2.77	0.167	mg/kg wet	3.333		83	40-140			
Benzo(b)fluoranthene	3.23	0.333	mg/kg wet	3.333		97	40-140			
Benzo(g,h,i)perylene	3.00	0.333	mg/kg wet	3.333		90	40-140			
Benzo(k)fluoranthene	3.16	0.333	mg/kg wet	3.333		95	40-140			
bis(2-Ethylhexyl)phthalate	3.40	0.333	mg/kg wet	3.333		102	40-140			
Butylbenzylphthalate	3.24	0.333	mg/kg wet	3.333		97	40-140			
Carbazole	3.12	0.333	mg/kg wet	3.333		94	40-140			
Chrysene	3.12	0.167	mg/kg wet	3.333		94	40-140			
Dibenzo(a,h)Anthracene	3.31	0.167	mg/kg wet	3.333		99	40-140			
Dibenzofuran	2.89	0.333	mg/kg wet	3.333		87	40-140			
Diethylphthalate	3.09	0.333	mg/kg wet	3.333		93	40-140			
Dimethylphthalate	2.97	0.333	mg/kg wet	3.333		89	40-140			
Di-n-butylphthalate	3.37	0.333	mg/kg wet	3.333		101	40-140			
Di-n-octylphthalate	3.13	0.333	mg/kg wet	3.333		94	40-140			
Fluoranthene	3.16	0.333	mg/kg wet	3.333		95	40-140			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308110

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D Semi-Volatile Organic Compounds										
Batch CH31223 - 3546										
Fluorene	3.06	0.333	mg/kg wet	3.333		92	40-140			
Hexachlorobenzene	3.01	0.333	mg/kg wet	3.333		90	40-140			
Hexachlorocyclopentadiene	1.19	1.67	mg/kg wet	3.333		36	40-140			B-
Indeno(1,2,3-cd)Pyrene	3.15	0.333	mg/kg wet	3.333		94	40-140			
Naphthalene	3.00	0.333	mg/kg wet	3.333		90	40-140			
Phenanthrene	3.14	0.333	mg/kg wet	3.333		94	40-140			
Phenol	3.68	0.333	mg/kg wet	3.333		110	30-130			
Pyrene	3.18	0.333	mg/kg wet	3.333		95	40-140			
Surrogate: 1,2-Dichlorobenzene-d4	*2.85*		mg/kg wet	*3.333*		*86*	*30-130*			
Surrogate: 2,4,6-Tribromophenol	*4.27*		mg/kg wet	*5.000*		*85*	*30-130*			
Surrogate: 2-Chlorophenol-d4	*4.55*		mg/kg wet	*5.000*		*91*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*2.98*		mg/kg wet	*3.333*		*90*	*30-130*			
Surrogate: 2-Fluorophenol	*4.31*		mg/kg wet	*5.000*		*86*	*30-130*			
Surrogate: Nitrobenzene-d5	*3.34*		mg/kg wet	*3.333*		*100*	*30-130*			
Surrogate: Phenol-d6	*4.66*		mg/kg wet	*5.000*		*93*	*30-130*			
Surrogate: p-Terphenyl-d14	*3.11*		mg/kg wet	*3.333*		*93*	*30-130*			
LCS Dup										
1,2,4-Trichlorobenzene	2.74	0.333	mg/kg wet	3.333		82	40-140	2	30	
1,2-Dichlorobenzene	2.76	0.333	mg/kg wet	3.333		83	40-140	2	30	
1,3-Dichlorobenzene	2.72	0.333	mg/kg wet	3.333		82	40-140	3	30	
1,4-Dichlorobenzene	2.76	0.333	mg/kg wet	3.333		83	40-140	3	30	
2-Methylnaphthalene	2.96	0.333	mg/kg wet	3.333		89	40-140	2	30	
2-Methylphenol	2.84	0.333	mg/kg wet	3.333		85	30-130	5	30	
Acenaphthene	3.07	0.333	mg/kg wet	3.333		92	40-140	5	30	
Acenaphthylene	2.91	0.333	mg/kg wet	3.333		87	40-140	5	30	
Anthracene	3.36	0.333	mg/kg wet	3.333		101	40-140	6	30	
Benzo(a)anthracene	3.42	0.333	mg/kg wet	3.333		103	40-140	13	30	
Benzo(a)pyrene	3.04	0.167	mg/kg wet	3.333		91	40-140	9	30	
Benzo(b)fluoranthene	3.28	0.333	mg/kg wet	3.333		98	40-140	1	30	
Benzo(g,h,i)perylene	3.15	0.333	mg/kg wet	3.333		95	40-140	5	30	
Benzo(k)fluoranthene	3.03	0.333	mg/kg wet	3.333		91	40-140	4	30	
bis(2-Ethylhexyl)phthalate	3.77	0.333	mg/kg wet	3.333		113	40-140	10	30	
Butylbenzylphthalate	3.34	0.333	mg/kg wet	3.333		100	40-140	3	30	
Carbazole	3.34	0.333	mg/kg wet	3.333		100	40-140	7	30	
Chrysene	3.29	0.167	mg/kg wet	3.333		99	40-140	5	30	
Dibenzo(a,h)Anthracene	3.70	0.167	mg/kg wet	3.333		111	40-140	11	30	
Dibenzofuran	2.97	0.333	mg/kg wet	3.333		89	40-140	3	30	
Diethylphthalate	3.17	0.333	mg/kg wet	3.333		95	40-140	3	30	
Dimethylphthalate	3.02	0.333	mg/kg wet	3.333		91	40-140	2	30	
Di-n-butylphthalate	3.61	0.333	mg/kg wet	3.333		108	40-140	7	30	
Di-n-octylphthalate	3.00	0.333	mg/kg wet	3.333		90	40-140	4	30	
Fluoranthene	3.32	0.333	mg/kg wet	3.333		99	40-140	5	30	
Fluorene	3.15	0.333	mg/kg wet	3.333		94	40-140	3	30	
Hexachlorobenzene	2.87	0.333	mg/kg wet	3.333		86	40-140	5	30	
Hexachlorocyclopentadiene	1.20	1.67	mg/kg wet	3.333		36	40-140	1	30	B-

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308110

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D Semi-Volatile Organic Compounds										
Batch CH31223 - 3546										
Indeno(1,2,3-cd)Pyrene	2.93	0.333	mg/kg wet	3.333		88	40-140	7	30	
Naphthalene	3.08	0.333	mg/kg wet	3.333		92	40-140	3	30	
Phenanthrene	3.36	0.333	mg/kg wet	3.333		101	40-140	7	30	
Phenol	3.21	0.333	mg/kg wet	3.333		96	30-130	14	30	
Pyrene	3.17	0.333	mg/kg wet	3.333		95	40-140	0.3	30	
Surrogate: 1,2-Dichlorobenzene-d4	*2.80*		mg/kg wet	*3.333*		*84*	*30-130*			
Surrogate: 2,4,6-Tribromophenol	*3.80*		mg/kg wet	*5.000*		*76*	*30-130*			
Surrogate: 2-Chlorophenol-d4	*4.26*		mg/kg wet	*5.000*		*85*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*3.05*		mg/kg wet	*3.333*		*92*	*30-130*			
Surrogate: 2-Fluorophenol	*4.34*		mg/kg wet	*5.000*		*87*	*30-130*			
Surrogate: Nitrobenzene-d5	*3.32*		mg/kg wet	*3.333*		*100*	*30-130*			
Surrogate: Phenol-d6	*4.42*		mg/kg wet	*5.000*		*88*	*30-130*			
Surrogate: p-Terphenyl-d14	*3.06*		mg/kg wet	*3.333*		*92*	*30-130*			
8270D(SIM) Polynuclear Aromatic Hydrocarbons										
Batch CH31001 - 3541										
Blank										
2-Methylnaphthalene	ND	0.008	mg/kg wet							
Acenaphthene	ND	0.008	mg/kg wet							
Acenaphthylene	ND	0.008	mg/kg wet							
Anthracene	ND	0.008	mg/kg wet							
Benzo(a)anthracene	ND	0.008	mg/kg wet							
Benzo(a)pyrene	ND	0.008	mg/kg wet							
Benzo(b)fluoranthene	ND	0.008	mg/kg wet							
Benzo(g,h,i)perylene	ND	0.008	mg/kg wet							
Benzo(k)fluoranthene	ND	0.008	mg/kg wet							
Chrysene	ND	0.008	mg/kg wet							
Dibenzo(a,h)Anthracene	ND	0.008	mg/kg wet							
Fluoranthene	ND	0.008	mg/kg wet							
Fluorene	ND	0.008	mg/kg wet							
Indeno(1,2,3-cd)Pyrene	ND	0.008	mg/kg wet							
Naphthalene	ND	0.008	mg/kg wet							
Phenanthrene	ND	0.008	mg/kg wet							
Pyrene	ND	0.008	mg/kg wet							
Surrogate: 1,2-Dichlorobenzene-d4	*0.202*		mg/kg wet	*0.3333*		*61*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*0.193*		mg/kg wet	*0.3333*		*58*	*30-130*			
Surrogate: Nitrobenzene-d5	*0.217*		mg/kg wet	*0.3333*		*65*	*30-130*			
Surrogate: p-Terphenyl-d14	*0.268*		mg/kg wet	*0.3333*		*80*	*30-130*			
LCS Dup										
2-Methylnaphthalene	0.210	0.017	mg/kg wet	0.2667		79	40-140	200	30	
Acenaphthene	0.193	0.017	mg/kg wet	0.2667		72	40-140	200	30	
Acenaphthylene	0.174	0.017	mg/kg wet	0.2667		65	40-140	200	30	
Anthracene	0.204	0.017	mg/kg wet	0.2667		77	40-140	200	30	
Benzo(a)anthracene	0.209	0.017	mg/kg wet	0.2667		78	40-140	200	30	
Benzo(a)pyrene	0.188	0.017	mg/kg wet	0.2667		70	40-140	200	30	

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308110

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D(SIM) Polynuclear Aromatic Hydrocarbons										
Batch CH31001 - 3541										
Benzo(b)fluoranthene	0.193	0.017	mg/kg wet	0.2667		72	40-140	200	30	
Benzo(g,h,i)perylene	0.167	0.017	mg/kg wet	0.2667		63	40-140	200	30	
Benzo(k)fluoranthene	0.199	0.017	mg/kg wet	0.2667		75	40-140	200	30	
Chrysene	0.204	0.017	mg/kg wet	0.2667		77	40-140	200	30	
Dibenzo(a,h)Anthracene	0.210	0.017	mg/kg wet	0.2667		79	40-140	200	30	
Fluoranthene	0.187	0.017	mg/kg wet	0.2667		70	40-140	200	30	
Fluorene	0.199	0.017	mg/kg wet	0.2667		75	40-140	200	30	
Indeno(1,2,3-cd)Pyrene	0.183	0.017	mg/kg wet	0.2667		69	40-140	200	30	
Naphthalene	0.190	0.017	mg/kg wet	0.2667		71	40-140	200	30	
Phenanthrene	0.201	0.017	mg/kg wet	0.2667		75	40-140	200	30	
Pyrene	0.206	0.017	mg/kg wet	0.2667		77	40-140	200	30	
Surrogate: 1,2-Dichlorobenzene-d4	*0.233*		mg/kg wet	*0.3333*		*70*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*0.223*		mg/kg wet	*0.3333*		*67*	*30-130*			
Surrogate: Nitrobenzene-d5	*0.238*		mg/kg wet	*0.3333*		*71*	*30-130*			
Surrogate: p-Terphenyl-d14	*0.320*		mg/kg wet	*0.3333*		*96*	*30-130*			
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CH31208 - 3546										
Blank										
C19-C36 Aliphatics1	ND	15.0	mg/kg wet							
C9-C18 Aliphatics1	ND	15.0	mg/kg wet							
Decane (C10)	ND	0.5	mg/kg wet							
Docosane (C22)	ND	0.5	mg/kg wet							
Dodecane (C12)	ND	0.5	mg/kg wet							
Eicosane (C20)	ND	0.5	mg/kg wet							
Hexacosane (C26)	ND	0.5	mg/kg wet							
Hexadecane (C16)	ND	0.5	mg/kg wet							
Hexatriacontane (C36)	ND	0.5	mg/kg wet							
Nonadecane (C19)	ND	0.5	mg/kg wet							
Nonane (C9)	ND	0.5	mg/kg wet							
Octacosane (C28)	ND	0.5	mg/kg wet							
Octadecane (C18)	ND	0.5	mg/kg wet							
Tetracosane (C24)	ND	0.5	mg/kg wet							
Tetradecane (C14)	ND	0.5	mg/kg wet							
Triacontane (C30)	ND	0.5	mg/kg wet							
Surrogate: 1-Chlorooctadecane	*1.52*		mg/kg wet	*2.000*		*76*	*40-140*			
Blank										
2-Methylnaphthalene	ND	0.20	mg/kg wet							
Acenaphthene	ND	0.40	mg/kg wet							
Acenaphthylene	ND	0.20	mg/kg wet							
Anthracene	ND	0.40	mg/kg wet							
Benzo(a)anthracene	ND	0.40	mg/kg wet							
Benzo(a)pyrene	ND	0.40	mg/kg wet							
Benzo(b)fluoranthene	ND	0.40	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308110

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CH31208 - 3546										
Benzo(g,h,i)perylene	ND	0.40	mg/kg wet							
Benzo(k)fluoranthene	ND	0.40	mg/kg wet							
C11-C22 Unadjusted Aromatics1	ND	15.0	mg/kg wet							
Chrysene	ND	0.40	mg/kg wet							
Dibenzo(a,h)Anthracene	ND	0.20	mg/kg wet							
Fluoranthene	ND	0.40	mg/kg wet							
Fluorene	ND	0.40	mg/kg wet							
Indeno(1,2,3-cd)Pyrene	ND	0.40	mg/kg wet							
Naphthalene	ND	0.40	mg/kg wet							
Phenanthrene	ND	0.40	mg/kg wet							
Pyrene	ND	0.40	mg/kg wet							
Surrogate: 2-Bromonaphthalene	*1.72*		mg/kg wet	*2.000*		*86*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*1.63*		mg/kg wet	*2.000*		*82*	*40-140*			
Surrogate: O-Terphenyl	*1.46*		mg/kg wet	*2.000*		*73*	*40-140*			
LCS										
C19-C36 Aliphatics1	18.7	15.0	mg/kg wet	16.00		117	40-140			
C9-C18 Aliphatics1	9.7	15.0	mg/kg wet	12.00		81	40-140			
Decane (C10)	0.9	0.5	mg/kg wet	2.000		44	40-140			
Docosane (C22)	1.8	0.5	mg/kg wet	2.000		90	40-140			
Dodecane (C12)	1.1	0.5	mg/kg wet	2.000		53	40-140			
Eicosane (C20)	1.7	0.5	mg/kg wet	2.000		86	40-140			
Hexacosane (C26)	1.8	0.5	mg/kg wet	2.000		89	40-140			
Hexadecane (C16)	1.6	0.5	mg/kg wet	2.000		78	40-140			
Hexatriacontane (C36)	1.7	0.5	mg/kg wet	2.000		87	40-140			
Nonadecane (C19)	1.7	0.5	mg/kg wet	2.000		85	40-140			
Nonane (C9)	0.6	0.5	mg/kg wet	2.000		32	30-140			
Octacosane (C28)	1.8	0.5	mg/kg wet	2.000		89	40-140			
Octadecane (C18)	1.7	0.5	mg/kg wet	2.000		84	40-140			
Tetracosane (C24)	1.8	0.5	mg/kg wet	2.000		89	40-140			
Tetradecane (C14)	1.3	0.5	mg/kg wet	2.000		67	40-140			
Triacontane (C30)	1.8	0.5	mg/kg wet	2.000		88	40-140			
Surrogate: 1-Chlorooctadecane	*1.74*		mg/kg wet	*2.000*		*87*	*40-140*			
LCS										
2-Methylnaphthalene	0.93	0.20	mg/kg wet	2.000		47	40-140			
Acenaphthene	1.16	0.40	mg/kg wet	2.000		58	40-140			
Acenaphthylene	0.99	0.20	mg/kg wet	2.000		50	40-140			
Anthracene	1.13	0.40	mg/kg wet	2.000		57	40-140			
Benzo(a)anthracene	1.22	0.40	mg/kg wet	2.000		61	40-140			
Benzo(a)pyrene	1.38	0.40	mg/kg wet	2.000		69	40-140			
Benzo(b)fluoranthene	1.42	0.40	mg/kg wet	2.000		71	40-140			
Benzo(g,h,i)perylene	1.29	0.40	mg/kg wet	2.000		65	40-140			
Benzo(k)fluoranthene	1.34	0.40	mg/kg wet	2.000		67	40-140			
C11-C22 Unadjusted Aromatics1	27.0	15.0	mg/kg wet	34.00		80	40-140			
Chrysene	1.36	0.40	mg/kg wet	2.000		68	40-140			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308110

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CH31208 - 3546										
Dibenzo(a,h)Anthracene	1.33	0.20	mg/kg wet	2.000		67	40-140			
Fluoranthene	1.17	0.40	mg/kg wet	2.000		58	40-140			
Fluorene	1.07	0.40	mg/kg wet	2.000		54	40-140			
Indeno(1,2,3-cd)Pyrene	1.09	0.40	mg/kg wet	2.000		54	40-140			
Naphthalene	0.85	0.40	mg/kg wet	2.000		43	40-140			
Phenanthrene	1.20	0.40	mg/kg wet	2.000		60	40-140			
Pyrene	1.19	0.40	mg/kg wet	2.000		60	40-140			
Surrogate: 2-Bromonaphthalene	*1.57*		mg/kg wet	*2.000*		*79*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*1.64*		mg/kg wet	*2.000*		*82*	*40-140*			
Surrogate: O-Terphenyl	*1.56*		mg/kg wet	*2.000*		*78*	*40-140*			
LCS										
2-Methylnaphthalene Breakthrough	0.0		%				0-5			
Naphthalene Breakthrough	0.0		%				0-5			
LCS Dup										
C19-C36 Aliphatics1	16.1	15.0	mg/kg wet	16.00		101	40-140	15	25	
C9-C18 Aliphatics1	9.1	15.0	mg/kg wet	12.00		76	40-140	6	25	
Decane (C10)	0.9	0.5	mg/kg wet	2.000		44	40-140	2	25	
Docosane (C22)	1.7	0.5	mg/kg wet	2.000		85	40-140	5	25	
Dodecane (C12)	1.1	0.5	mg/kg wet	2.000		53	40-140	0.2	25	
Eicosane (C20)	1.7	0.5	mg/kg wet	2.000		83	40-140	4	25	
Hexacosane (C26)	1.7	0.5	mg/kg wet	2.000		85	40-140	4	25	
Hexadecane (C16)	1.5	0.5	mg/kg wet	2.000		77	40-140	2	25	
Hexatriacontane (C36)	1.7	0.5	mg/kg wet	2.000		83	40-140	4	25	
Nonadecane (C19)	1.7	0.5	mg/kg wet	2.000		83	40-140	3	25	
Nonane (C9)	0.6	0.5	mg/kg wet	2.000		32	30-140	0.3	25	
Octacosane (C28)	1.7	0.5	mg/kg wet	2.000		85	40-140	4	25	
Octadecane (C18)	1.6	0.5	mg/kg wet	2.000		82	40-140	3	25	
Tetracosane (C24)	1.7	0.5	mg/kg wet	2.000		84	40-140	5	25	
Tetradecane (C14)	1.3	0.5	mg/kg wet	2.000		67	40-140	0.09	25	
Triacontane (C30)	1.7	0.5	mg/kg wet	2.000		85	40-140	4	25	
Surrogate: 1-Chlorooctadecane	*1.72*		mg/kg wet	*2.000*		*86*	*40-140*			
LCS Dup										
2-Methylnaphthalene	0.89	0.20	mg/kg wet	2.000		44	40-140	5	20	
Acenaphthene	1.04	0.40	mg/kg wet	2.000		52	40-140	11	20	
Acenaphthylene	0.90	0.20	mg/kg wet	2.000		45	40-140	10	20	
Anthracene	1.09	0.40	mg/kg wet	2.000		54	40-140	4	20	
Benzo(a)anthracene	1.18	0.40	mg/kg wet	2.000		59	40-140	3	20	
Benzo(a)pyrene	1.31	0.40	mg/kg wet	2.000		66	40-140	5	20	
Benzo(b)fluoranthene	1.29	0.40	mg/kg wet	2.000		65	40-140	9	20	
Benzo(g,h,i)perylene	1.20	0.40	mg/kg wet	2.000		60	40-140	7	20	
Benzo(k)fluoranthene	1.30	0.40	mg/kg wet	2.000		65	40-140	3	20	
C11-C22 Unadjusted Aromatics1	23.6	15.0	mg/kg wet	34.00		69	40-140	13	25	
Chrysene	1.31	0.40	mg/kg wet	2.000		65	40-140	4	20	

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308110

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CH31208 - 3546										
Dibenzo(a,h)Anthracene	1.25	0.20	mg/kg wet	2.000		62	40-140	7	20	
Fluoranthene	1.14	0.40	mg/kg wet	2.000		57	40-140	3	20	
Fluorene	0.98	0.40	mg/kg wet	2.000		49	40-140	9	20	
Indeno(1,2,3-cd)Pyrene	1.01	0.40	mg/kg wet	2.000		50	40-140	8	20	
Naphthalene	0.80	0.40	mg/kg wet	2.000		40	40-140	6	20	
Phenanthrene	1.11	0.40	mg/kg wet	2.000		56	40-140	8	20	
Pyrene	1.14	0.40	mg/kg wet	2.000		57	40-140	5	20	
Surrogate: 2-Bromonaphthalene	*1.51*		mg/kg wet	*2.000*		*76*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*1.55*		mg/kg wet	*2.000*		*78*	*40-140*			
Surrogate: O-Terphenyl	*1.48*		mg/kg wet	*2.000*		*74*	*40-140*			
LCS Dup										
2-Methylnaphthalene Breakthrough	0.0		%				0-5		200	
Naphthalene Breakthrough	0.0		%				0-5		200	
Batch CH31405 - 3546										
Blank										
C19-C36 Aliphatics1	ND	15.0	mg/kg wet							
C9-C18 Aliphatics1	ND	15.0	mg/kg wet							
Decane (C10)	ND	0.5	mg/kg wet							
Docosane (C22)	ND	0.5	mg/kg wet							
Dodecane (C12)	ND	0.5	mg/kg wet							
Eicosane (C20)	ND	0.5	mg/kg wet							
Hexacosane (C26)	ND	0.5	mg/kg wet							
Hexadecane (C16)	ND	0.5	mg/kg wet							
Hexatriacontane (C36)	ND	0.5	mg/kg wet							
Nonadecane (C19)	ND	0.5	mg/kg wet							
Nonane (C9)	ND	0.5	mg/kg wet							
Octacosane (C28)	ND	0.5	mg/kg wet							
Octadecane (C18)	ND	0.5	mg/kg wet							
Tetracosane (C24)	ND	0.5	mg/kg wet							
Tetradecane (C14)	ND	0.5	mg/kg wet							
Triacontane (C30)	ND	0.5	mg/kg wet							
Surrogate: 1-Chlorooctadecane	*1.47*		mg/kg wet	*2.000*		*74*	*40-140*			
Blank										
2-Methylnaphthalene	ND	0.20	mg/kg wet							
Acenaphthene	ND	0.40	mg/kg wet							
Acenaphthylene	ND	0.20	mg/kg wet							
Anthracene	ND	0.40	mg/kg wet							
Benzo(a)anthracene	ND	0.40	mg/kg wet							
Benzo(a)pyrene	ND	0.40	mg/kg wet							
Benzo(b)fluoranthene	ND	0.40	mg/kg wet							
Benzo(g,h,i)perylene	ND	0.40	mg/kg wet							
Benzo(k)fluoranthene	ND	0.40	mg/kg wet							
C11-C22 Unadjusted Aromatics1	ND	15.0	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308110

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CH31405 - 3546										
Chrysene	ND	0.40	mg/kg wet							
Dibenzo(a,h)Anthracene	ND	0.20	mg/kg wet							
Fluoranthene	ND	0.40	mg/kg wet							
Fluorene	ND	0.40	mg/kg wet							
Indeno(1,2,3-cd)Pyrene	ND	0.40	mg/kg wet							
Naphthalene	ND	0.40	mg/kg wet							
Phenanthrene	ND	0.40	mg/kg wet							
Pyrene	ND	0.40	mg/kg wet							
Surrogate: 2-Bromonaphthalene	*1.71*		mg/kg wet	*2.000*		*86*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*1.63*		mg/kg wet	*2.000*		*81*	*40-140*			
Surrogate: O-Terphenyl	*1.53*		mg/kg wet	*2.000*		*77*	*40-140*			
LCS										
C19-C36 Aliphatics1	14.0	15.0	mg/kg wet	16.00		88	40-140			
C9-C18 Aliphatics1	9.0	15.0	mg/kg wet	12.00		75	40-140			
Decane (C10)	1.0	0.5	mg/kg wet	2.000		49	40-140			
Docosane (C22)	1.5	0.5	mg/kg wet	2.000		74	40-140			
Dodecane (C12)	1.1	0.5	mg/kg wet	2.000		55	40-140			
Eicosane (C20)	1.4	0.5	mg/kg wet	2.000		71	40-140			
Hexacosane (C26)	1.5	0.5	mg/kg wet	2.000		73	40-140			
Hexadecane (C16)	1.4	0.5	mg/kg wet	2.000		68	40-140			
Hexatriacontane (C36)	1.5	0.5	mg/kg wet	2.000		76	40-140			
Nonadecane (C19)	1.4	0.5	mg/kg wet	2.000		71	40-140			
Nonane (C9)	0.8	0.5	mg/kg wet	2.000		38	30-140			
Octacosane (C28)	1.5	0.5	mg/kg wet	2.000		74	40-140			
Octadecane (C18)	1.4	0.5	mg/kg wet	2.000		70	40-140			
Tetracosane (C24)	1.5	0.5	mg/kg wet	2.000		73	40-140			
Tetradecane (C14)	1.3	0.5	mg/kg wet	2.000		63	40-140			
Triacontane (C30)	1.5	0.5	mg/kg wet	2.000		74	40-140			
Surrogate: 1-Chlorooctadecane	*1.53*		mg/kg wet	*2.000*		*76*	*40-140*			
LCS										
2-Methylnaphthalene	0.98	0.20	mg/kg wet	2.000		49	40-140			
Acenaphthene	1.13	0.40	mg/kg wet	2.000		56	40-140			
Acenaphthylene	0.97	0.20	mg/kg wet	2.000		48	40-140			
Anthracene	1.03	0.40	mg/kg wet	2.000		52	40-140			
Benzo(a)anthracene	1.11	0.40	mg/kg wet	2.000		56	40-140			
Benzo(a)pyrene	1.25	0.40	mg/kg wet	2.000		62	40-140			
Benzo(b)fluoranthene	1.22	0.40	mg/kg wet	2.000		61	40-140			
Benzo(g,h,i)perylene	1.06	0.40	mg/kg wet	2.000		53	40-140			
Benzo(k)fluoranthene	1.23	0.40	mg/kg wet	2.000		61	40-140			
C11-C22 Unadjusted Aromatics1	23.5	15.0	mg/kg wet	34.00		69	40-140			
Chrysene	1.22	0.40	mg/kg wet	2.000		61	40-140			
Dibenzo(a,h)Anthracene	1.15	0.20	mg/kg wet	2.000		57	40-140			
Fluoranthene	1.08	0.40	mg/kg wet	2.000		54	40-140			
Fluorene	1.01	0.40	mg/kg wet	2.000		50	40-140			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308110

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CH31405 - 3546										
Indeno(1,2,3-cd)Pyrene	0.93	0.40	mg/kg wet	2.000		47	40-140			
Naphthalene	0.91	0.40	mg/kg wet	2.000		45	40-140			
Phenanthrene	1.07	0.40	mg/kg wet	2.000		54	40-140			
Pyrene	1.08	0.40	mg/kg wet	2.000		54	40-140			
Surrogate: 2-Bromonaphthalene	*1.52*		mg/kg wet	*2.000*		*76*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*1.52*		mg/kg wet	*2.000*		*76*	*40-140*			
Surrogate: O-Terphenyl	*1.46*		mg/kg wet	*2.000*		*73*	*40-140*			
LCS										
2-Methylnaphthalene Breakthrough	0.0		%				0-5			
Naphthalene Breakthrough	0.0		%				0-5			
LCS Dup										
C19-C36 Aliphatics1	14.3	15.0	mg/kg wet	16.00		90	40-140	2	25	
C9-C18 Aliphatics1	9.5	15.0	mg/kg wet	12.00		79	40-140	5	25	
Decane (C10)	1.0	0.5	mg/kg wet	2.000		51	40-140	4	25	
Docosane (C22)	1.5	0.5	mg/kg wet	2.000		76	40-140	3	25	
Dodecane (C12)	1.2	0.5	mg/kg wet	2.000		58	40-140	4	25	
Eicosane (C20)	1.5	0.5	mg/kg wet	2.000		74	40-140	4	25	
Hexacosane (C26)	1.5	0.5	mg/kg wet	2.000		74	40-140	2	25	
Hexadecane (C16)	1.4	0.5	mg/kg wet	2.000		69	40-140	2	25	
Hexatriacontane (C36)	1.5	0.5	mg/kg wet	2.000		74	40-140	3	25	
Nonadecane (C19)	1.5	0.5	mg/kg wet	2.000		73	40-140	3	25	
Nonane (C9)	0.8	0.5	mg/kg wet	2.000		39	30-140	3	25	
Octacosane (C28)	1.5	0.5	mg/kg wet	2.000		75	40-140	1	25	
Octadecane (C18)	1.4	0.5	mg/kg wet	2.000		72	40-140	3	25	
Tetracosane (C24)	1.5	0.5	mg/kg wet	2.000		74	40-140	2	25	
Tetradecane (C14)	1.3	0.5	mg/kg wet	2.000		64	40-140	3	25	
Triacontane (C30)	1.5	0.5	mg/kg wet	2.000		74	40-140	0.3	25	
Surrogate: 1-Chlorooctadecane	*1.53*		mg/kg wet	*2.000*		*77*	*40-140*			
LCS Dup										
2-Methylnaphthalene	0.91	0.20	mg/kg wet	2.000		46	40-140	7	20	
Acenaphthene	1.02	0.40	mg/kg wet	2.000		51	40-140	10	20	
Acenaphthylene	0.89	0.20	mg/kg wet	2.000		44	40-140	9	20	
Anthracene	0.99	0.40	mg/kg wet	2.000		50	40-140	4	20	
Benzo(a)anthracene	1.12	0.40	mg/kg wet	2.000		56	40-140	0.3	20	
Benzo(a)pyrene	1.26	0.40	mg/kg wet	2.000		63	40-140	0.6	20	
Benzo(b)fluoranthene	1.22	0.40	mg/kg wet	2.000		61	40-140	0.3	20	
Benzo(g,h,i)perylene	1.08	0.40	mg/kg wet	2.000		54	40-140	1	20	
Benzo(k)fluoranthene	1.24	0.40	mg/kg wet	2.000		62	40-140	1	20	
C11-C22 Unadjusted Aromatics1	22.9	15.0	mg/kg wet	34.00		67	40-140	3	25	
Chrysene	1.21	0.40	mg/kg wet	2.000		61	40-140	0.6	20	
Dibenzo(a,h)Anthracene	1.15	0.20	mg/kg wet	2.000		58	40-140	0.3	20	
Fluoranthene	1.06	0.40	mg/kg wet	2.000		53	40-140	2	20	
Fluorene	0.92	0.40	mg/kg wet	2.000		46	40-140	9	20	

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308110

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CH31405 - 3546										
Indeno(1,2,3-cd)Pyrene	0.94	0.40	mg/kg wet	2.000		47	40-140	0.7	20	
Naphthalene	0.85	0.40	mg/kg wet	2.000		43	40-140	6	20	
Phenanthrene	1.02	0.40	mg/kg wet	2.000		51	40-140	5	20	
Pyrene	1.06	0.40	mg/kg wet	2.000		53	40-140	1	20	
Surrogate: 2-Bromonaphthalene	*1.32*		mg/kg wet	*2.000*		*66*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*1.39*		mg/kg wet	*2.000*		*70*	*40-140*			
Surrogate: O-Terphenyl	*1.38*		mg/kg wet	*2.000*		*69*	*40-140*			
LCS Dup										
2-Methylnaphthalene Breakthrough	0.0		%				0-5		200	
Naphthalene Breakthrough	0.0		%				0-5		200	

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308110

Notes and Definitions

U	Analyte included in the analysis, but not detected
Q	Calibration required quadratic regression (Q).
PT	Pentachlorophenol tailing factor > 2.
ICV-	Initial Calibration Verification recovery is below lower control limit (ICV-).
ICV	Initial Calibration Verification recovery is outside of control limit (ICV).
D	Diluted.
C+	Continuing Calibration recovery is above upper control limit (C+).
C-	Continuing Calibration recovery is below lower control limit (C-).
B-	Blank Spike recovery is below lower control limit (B-).
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	Detection Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308110

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Department of Defense (DoD) Environmental Laboratory Accreditation Program (ELAP)
A2LA Accredited: Testing Cert# 2864.01
http://www.a2la.org/scopepdf/2864-01.pdf

Rhode Island Potable and Non Potable Water: LAI00179
http://www.health.ri.gov/labs/waterlabs-instate.php

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750
http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI0002
http://www.maine.gov/dep/blwq/topic/vessel/lab_list.pdf

Massachusetts Potable and Non Potable Water: M-RI002
http://public.dep.state.ma.us/labcert/labcert.aspx

New Hampshire (NELAP accredited) Potable and Non PotableWater, Solid and Hazardous Waste: 2424
http://www4.egov.nh.gov/des/nhelap/namesearch.asp

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313
http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006
http://datamine2.state.nj.us/dep/DEP_OPRA/

United States Department of Agriculture Soil Permit: S-54210

Maryland Potable Water: 301
http://www.mde.state.md.us/assets/document/WSP_labs-2009apr20.pdf

CHEMISTRY

A2LA Accredited: Testing Cert # 2864.01
Lead in Paint, Phthalates, Lead in Children's Metals Products (Including Jewelry)
http://www.A2LA.org/dirsearchnew/newsearch.cfm

CPSC ID# 1141
Lead Paint, Lead in Children's Metals Jewelry
http://www.cpsc.gov/cgi-bin/labapplist.aspx

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Burlington
30 Community Drive
Suite 11
South Burlington, VT 05403
Tel: (802)660-1990

TestAmerica Job ID: 200-17862-4
TestAmerica Sample Delivery Group: 200-17862-4
Client Project/Site: Soil Analysis

For:
ESS Laboratory
185 Frances Ave.
Cranston, Rhode Island 02910

Attn: Ms. Christine Taylor

Authorized for release by:
8/19/2013 4:51:39 PM

Kathryn Kelly, Project Manager I
kathryn.kelly@testamericainc.com

LINKS

Review your project results through TotalAccess

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Definitions/Glossary 3
Case Narrative 4
Detection Summary 5
Client Sample Results 6
QC Sample Results 7
QC Association Summary 8
Lab Chronicle 9
Certification Summary 10
Method Summary 11
Sample Summary 12
Chain of Custody 13
Receipt Checklists 18

Qualifiers

General Chemistry

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 200-17862-4

Laboratory: TestAmerica Burlington

Narrative

CASE NARRATIVE

Client: ESS Laboratory

Project: Soil Analysis

Report Number: 200-17862-4

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 08/09/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 1.4 C.

TOTAL ORGANIC CARBON

Samples 1308110-2, 1308110-5, 1308110-6, 1308110-9 and 1308110-12 were analyzed for total organic carbon in accordance with Lloyd Kahn Method. The samples were analyzed on 08/14/2013.

TOC Result 2 was detected in method blank MB 200-59843/31 at a level exceeding the reporting limit. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

No other difficulties were encountered during the TOC analysis.

All other quality control parameters were within the acceptance limits.

Detection Summary

Client: ESS Laboratory
Project/Site: Soil Analysis

TestAmerica Job ID: 200-17862-4
SDG: 200-17862-4

Client Sample ID: 1308110-2 — Lab Sample ID: 200-17862-29

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	160000		6210	6210	mg/Kg	1	☼	Lloyd Kahn	Total/NA

Client Sample ID: 1308110-5 — Lab Sample ID: 200-17862-30

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	163000		6340	6340	mg/Kg	1	☼	Lloyd Kahn	Total/NA

Client Sample ID: 1308110-6 — Lab Sample ID: 200-17862-31

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	105000		4310	4310	mg/Kg	1	☼	Lloyd Kahn	Total/NA

Client Sample ID: 1308110-9 — Lab Sample ID: 200-17862-32

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	145000		6320	6320	mg/Kg	1	☼	Lloyd Kahn	Total/NA

Client Sample ID: 1308110-12 — Lab Sample ID: 200-17862-33

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	111000		3970	3970	mg/Kg	1	☼	Lloyd Kahn	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 1308110-2 — **Lab Sample ID: 200-17862-29**
Date Collected: 08/05/13 00:00 — **Matrix: Sediment**
Date Received: 08/09/13 10:00 — **Percent Solids: 16.1**

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	160000		6210	6210	mg/Kg	☼		08/14/13 17:47	1
Percent Solids	16.1		0.25	0.25	%			08/12/13 15:49	1

Client Sample ID: 1308110-5 — **Lab Sample ID: 200-17862-30**
Date Collected: 08/05/13 00:00 — **Matrix: Sediment**
Date Received: 08/09/13 10:00 — **Percent Solids: 15.8**

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	163000		6340	6340	mg/Kg	☼		08/14/13 17:54	1
Percent Solids	15.8		0.25	0.25	%			08/12/13 15:49	1

Client Sample ID: 1308110-6 — **Lab Sample ID: 200-17862-31**
Date Collected: 08/05/13 00:00 — **Matrix: Sediment**
Date Received: 08/09/13 10:00 — **Percent Solids: 23.2**

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	105000		4310	4310	mg/Kg	☼		08/14/13 18:02	1
Percent Solids	23.2		0.25	0.25	%			08/12/13 15:49	1

Client Sample ID: 1308110-9 — **Lab Sample ID: 200-17862-32**
Date Collected: 08/05/13 00:00 — **Matrix: Sediment**
Date Received: 08/09/13 10:00 — **Percent Solids: 15.8**

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	145000		6320	6320	mg/Kg	☼		08/14/13 18:09	1
Percent Solids	15.8		0.25	0.25	%			08/12/13 15:49	1

Client Sample ID: 1308110-12 — **Lab Sample ID: 200-17862-33**
Date Collected: 08/05/13 00:00 — **Matrix: Sediment**
Date Received: 08/09/13 10:00 — **Percent Solids: 25.2**

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	111000		3970	3970	mg/Kg	☼		08/14/13 18:17	1
Percent Solids	25.2		0.25	0.25	%			08/12/13 15:49	1

Method: Lloyd Kahn - Organic Carbon, Total (TOC)

Lab Sample ID: MB 200-59843/31
Matrix: Sediment
Analysis Batch: 59843

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	1000	U	1000	1000	mg/Kg			08/14/13 16:18	1

Lab Sample ID: MB 200-59843/5
Matrix: Sediment
Analysis Batch: 59843

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	1000	U	1000	1000	mg/Kg			08/14/13 12:45	1

Lab Sample ID: LCS 200-59843/32
Matrix: Sediment
Analysis Batch: 59843

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	20100	22010		mg/Kg		110	75 - 125

Lab Sample ID: LCS 200-59843/6
Matrix: Sediment
Analysis Batch: 59843

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	20100	20500		mg/Kg		102	75 - 125

QC Association Summary

Client: ESS Laboratory
Project/Site: Soil Analysis

TestAmerica Job ID: 200-17862-4
SDG: 200-17862-4

General Chemistry

Analysis Batch: 59672

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-17862-29	1308110-2	Total/NA	Sediment	Moisture	
200-17862-30	1308110-5	Total/NA	Sediment	Moisture	
200-17862-31	1308110-6	Total/NA	Sediment	Moisture	
200-17862-32	1308110-9	Total/NA	Sediment	Moisture	
200-17862-33	1308110-12	Total/NA	Sediment	Moisture	

Analysis Batch: 59843

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-17862-29	1308110-2	Total/NA	Sediment	Lloyd Kahn	
200-17862-30	1308110-5	Total/NA	Sediment	Lloyd Kahn	
200-17862-31	1308110-6	Total/NA	Sediment	Lloyd Kahn	
200-17862-32	1308110-9	Total/NA	Sediment	Lloyd Kahn	
200-17862-33	1308110-12	Total/NA	Sediment	Lloyd Kahn	
LCS 200-59843/32	Lab Control Sample	Total/NA	Sediment	Lloyd Kahn	
LCS 200-59843/6	Lab Control Sample	Total/NA	Sediment	Lloyd Kahn	
MB 200-59843/31	Method Blank	Total/NA	Sediment	Lloyd Kahn	
MB 200-59843/5	Method Blank	Total/NA	Sediment	Lloyd Kahn	

Lab Chronicle

Client: ESS Laboratory
Project/Site: Soil Analysis

TestAmerica Job ID: 200-17862-4
SDG: 200-17862-4

Client Sample ID: 1308110-2
Lab Sample ID: 200-17862-29
Date Collected: 08/05/13 00:00
Matrix: Sediment
Date Received: 08/09/13 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	59672	08/12/13 15:49	VTP	TAL BUR
Total/NA	Analysis	Lloyd Kahn		1	59843	08/14/13 17:47	VTP	TAL BUR

Client Sample ID: 1308110-5
Lab Sample ID: 200-17862-30
Date Collected: 08/05/13 00:00
Matrix: Sediment
Date Received: 08/09/13 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	59672	08/12/13 15:49	VTP	TAL BUR
Total/NA	Analysis	Lloyd Kahn		1	59843	08/14/13 17:54	VTP	TAL BUR

Client Sample ID: 1308110-6
Lab Sample ID: 200-17862-31
Date Collected: 08/05/13 00:00
Matrix: Sediment
Date Received: 08/09/13 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	59672	08/12/13 15:49	VTP	TAL BUR
Total/NA	Analysis	Lloyd Kahn		1	59843	08/14/13 18:02	VTP	TAL BUR

Client Sample ID: 1308110-9
Lab Sample ID: 200-17862-32
Date Collected: 08/05/13 00:00
Matrix: Sediment
Date Received: 08/09/13 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	59672	08/12/13 15:49	VTP	TAL BUR
Total/NA	Analysis	Lloyd Kahn		1	59843	08/14/13 18:09	VTP	TAL BUR

Client Sample ID: 1308110-12
Lab Sample ID: 200-17862-33
Date Collected: 08/05/13 00:00
Matrix: Sediment
Date Received: 08/09/13 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	59672	08/12/13 15:49	VTP	TAL BUR
Total/NA	Analysis	Lloyd Kahn		1	59843	08/14/13 18:17	VTP	TAL BUR

Laboratory References:

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Certification Summary

Client: ESS Laboratory
Project/Site: Soil Analysis

TestAmerica Job ID: 200-17862-4
SDG: 200-17862-4

Laboratory: TestAmerica Burlington

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Connecticut	State Program	1	PH-0751	09-30-13
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	NA	02-13-15
Florida	NELAP	4	E87467	06-30-14
L-A-B	DoD ELAP		L2336	10-26-13
Louisiana	NELAP	6	176292	06-30-14
Maine	State Program	1	VT00008	04-17-15
Minnesota	NELAP	5	050-999-436	12-31-13
New Hampshire	NELAP	1	2006	12-18-13
New Jersey	NELAP	2	VT972	06-30-14
New York	NELAP	2	10391	04-01-14
Pennsylvania	NELAP	3	68-00489	04-30-14
Rhode Island	State Program	1	LAO00298	12-30-13
US Fish & Wildlife	Federal		LE-058448-0	02-28-14
USDA	Federal		P330-11-00093	02-17-14
Vermont	State Program	1	VT-4000	12-31-13
Virginia	NELAP	3	460209	12-14-13

Method Summary

Client: ESS Laboratory
Project/Site: Soil Analysis

TestAmerica Job ID: 200-17862-4
SDG: 200-17862-4

Method	Method Description	Protocol	Laboratory
Lloyd Kahn	Organic Carbon, Total (TOC)	EPA	TAL BUR
Moisture	Percent Moisture	EPA	TAL BUR

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Sample Summary

Client: ESS Laboratory
Project/Site: Soil Analysis

TestAmerica Job ID: 200-17862-4
SDG: 200-17862-4

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
200-17862-29	1308110-2	Sediment	08/05/13 00:00	08/09/13 10:00
200-17862-30	1308110-5	Sediment	08/05/13 00:00	08/09/13 10:00
200-17862-31	1308110-6	Sediment	08/05/13 00:00	08/09/13 10:00
200-17862-32	1308110-9	Sediment	08/05/13 00:00	08/09/13 10:00
200-17862-33	1308110-12	Sediment	08/05/13 00:00	08/09/13 10:00

ESS Laboratory

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CHAIN OF CUSTODY

Page ____ of ____

Turn Time ___ Standard Other 4 day
If faster than 5 days, prior approval by laboratory is required # ____

State where samples were collected from:
MA RI CT NH NJ NY ME Other ____

Is this project for any of the following:
MA-MCP Navy USACE Other ____

Reporting Limits

ESS LAB PROJECT ID

Electronic Deliverable Yes ✓ No ___
Format: Excel __ Access __ PDF __ Other ✓

Co. Name: ESS
Project #: 1308108
Project Name (20 Char. or less):
Contact Person: Christine Taylor
Address:
City State Zip
PO# 1308108
Telephone #
Fax #
Email Address: ctaylor@thielsch.com

Write Required Analysis: TOC Lloyd Kahn

ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers
	8/6			✓	Sed	1308108-1	1	1	6
	8/2			↓	↓	-2	↓	↓	↓
	8/2					-4			
	8/6					-5			
	8/5					-9			
	8/5					-12			
	8/6					-13			
	8/5			↓	↓	-16			
	8/2					-18	↓	↓	↓
	8/2								

200-17862 COC

Container Type: P-Poly G-Glass S-Sterile V-VOA
Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present ___ Yes ___ No
Seals Intact ___ Yes ___ No NA: ___
Cooler Temp: ____

Internal Use Only
[ ] Pickup
[ ] Technicians ____

Preservation Code 1- NP, 2- HCl, 3- H_2SO_4, 4- HNO_3, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9- ____

Sampled by:

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	8/9/13 1800						
		Stephanie Fowler	8/9/13 1000				

*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt

10/26/04 A

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CHAIN OF CUSTODY

Page_____ of_____

Turn Time ___ Standard Other 4 day
If faster than 5 days, prior approval by laboratory is required #

State where samples were collected from:
(MA) RI CT NH NJ NY ME Other _____

Is this project for any of the following:
(MA-MCP) Navy USACE Other _____

Reporting Limits

ESS LAB PROJECT ID

Electronic Deliverable Yes ___ No ___
Format: Excel __ Access __ PDF ✓ Other _____

Co. Name: ESS	Project #: 1308109	Project Name (20 Char. or less):	
Contact Person: C. Taylor	Address:		
City:	State:	Zip:	PO#: 1308109
Telephone #:	Fax #:	Email Address: ctaylor@thielsch.com	

ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	HC Hold Klein	Write Required Analysis
	8/5			✓	Sed	1308109-1	1	1	6	X	
	8/5					-3					
	8/5					-6					
	8/6					-7					
	8/6					~~-8~~ -9 (8/5)					
	8/6					-11					
	8/5					-12					
	8/5					-14					
	8/5					-17					
	8/5			↓	↓	-20	↓	↓	↓	↓	

Container Type: P-Poly G-Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present ___ Yes ___ No Internal Use Only

Seals Intact ___ Yes ___ No NA: ___ [ ] Pickup

Cooler Temp: _____ [ ] Technicians _____

Preservation Code 1- NP, 2- HCl, 3- H_2SO_4, 4- HNO_3, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9-_____

Sampled by:

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	3/8/13 1800	Fed ex					
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
			8/9/13 1000				

*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt

10/26/04 A

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CHAIN OF CUSTODY

Page ____ of ____

Turn Time: Standard (5-7 days) Other 4 day
If faster than 5 days, prior approval by laboratory is required #

State where samples were collected from: MA RI CT NH NJ NY ME Other

Is this project for any of the following: MA-MCP Navy USACE Other

Reporting Limits

ESS LAB PROJECT ID

Electronic Deliverable Yes ✓ No ___
Format: Excel ___ Access ___ PDF ✓ Other ___

Co. Name	Project #	Project Name (20 Char. or less)
ESS	1308110	

Contact Person	Address
C Taylor	

City	State	Zip	PO#

Telephone #	Fax #	Email Address
		ctaylor@thielsch.com

ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	Write Required Analysis: BC (Cyc/Kan)
	8/5			✓	Sed	1308110-2	1	1	6	X
	8/5			↓	↓	-5	↓	↓	↓	↓
	8/5					-6				
	8/5					-9				
	8/5			↓	↓	-12	↓	↓	↓	↓

Container Type: P-Poly G-Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present ___ Yes ___ No

Seals Intact ___ Yes ___ No NA: ___

Cooler Temp: ___

Internal Use Only
[ ] Pickup
[ ] Technicians ___

Preservation Code 1- NP, 2- HCl, 3- H_2SO_4, 4- HNO_3, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9- ___

Sampled by:

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	8/8/13 1800	Fed ex					
		Steph Tucker	8/9/13 1000				

*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt

10/26/04 A

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CHAIN OF CUSTODY

Page_____ of_____

Turn Time ___ Standard Other 4 day
If faster than 5 days, prior approval by laboratory is required # _____

State where samples were collected from:
(MA) RI CT NH NJ NY ME Other _____

Is this project for any of the following:
(MA-MCP) Navy USACE Other _____

Reporting Limits

ESS LAB PROJECT ID

Electronic Deliverable Yes ✓ No ___
Format: Excel __ Access __ PDF ✓ Other _____

Co. Name	Project #	Project Name (20 Char. or less)
ESS	1308107	

Contact Person	Address
Christine Taylor	

City	State	Zip	PO#

Telephone #	Fax #	Email Address
		ctaylor@thielsch.com

ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	Write Required Analysis: TOC (Lloyd Kahn)
	8/6	0837		✓	Sed	1308107-4	1	1	6	X
	8/1	1443		↓	↓	-6	↓	↓	↓	↓
	8/2	1232				-9				
	8/2	1232				-10				
	8/5	1250				-12				
	↓	1250				-13				
		1250				-16				
	↓	1350				-18	↓	↓	↓	↓
				↓	↓					

Container Type: P-Poly G-Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present ___ Yes ___ No Internal Use Only

Seals Intact ___ Yes ___ No NA: ___ [ ] Pickup

Cooler Temp: _____ [ ] Technicians _____

Preservation Code 1- NP, 2- HCl, 3- H_2SO_4, 4- HNO_3, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9- _____

Sampled by:

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
[signature]	8/8/13 1800	Fed Ex	8/8/13	[signature]			
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
		[signature]	8/9/13 1000				

*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt

10/26/04 A

From: (401) 467-6454
Sample Receiving
ESS Lab
185 Frances Ave

Cranston, RI 02910

Origin ID: PVDA

FedEx Express

J13201306260326

Ship Date: 08AUG13
ActWgt: 47.0 LB
CAD: 105103550/INET3430

Delivery Address Bar Code

SHIP TO: (802) 660-1990 BILL SENDER

Sample Receiving
Test America
30 Community Dr
Ste 11
S BURLINGTON, VT 05403

Ref #
Invoice #
PO #
Dept #

FRI - 09 AUG 10:30A
PRIORITY OVERNIGHT

TRK# 0201 7964 2397 6923

EK BTVA

05403
VT-US
BTV

51AG1/09B9/1A9E

After printing this label:
1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.
Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com.FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery,misdelivery,or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim.Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental,consequential, or special is limited to the greater of $100 or the authorized declared value. Recovery cannot exceed actual documented loss.Maximum for items of extraordinary value is $1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

Login Sample Receipt Checklist

Client: ESS Laboratory

Job Number: 200-17862-4
SDG Number: 200-17862-4

Login Number: 17862
List Number: 1
Creator: Marion, Greg T

List Source: TestAmerica Burlington

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.4ºC IR GUN ID 181/CF=-0.2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	Refer to Job Narrative for details.
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Received extra samples not listed on COC.
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	False	Refer to Job Narrative for details.
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

Sample and Cooler Receipt Checklist

Client: GZA GeoEnvironmental, Inc.
Client Project ID: _____
Shipped/Delivered Via: ESS Courier

ESS Project ID: 13080110
Date Project Due: 8/13/13
Days For Project: 4 Day

Items to be checked upon receipt:

1. Air Bill Manifest Present?	* No	10. Are the samples properly preserved?	Yes
Air No.:		11. Proper sample containers used?	Yes
2. Were Custody Seals Present?	No	12. Any air bubbles in the VOA vials?	N/A
3. Were Custody Seals Intact?	N/A	13. Holding times exceeded?	No
4. Is Radiation count < 100 CPM?	Yes	14. Sufficient sample volumes?	Yes
5. Is a cooler present?	Yes	15. Any Subcontracting needed?	* Yes
Cooler Temp: **4.1**		16. Are ESS labels on correct containers?	**Yes|No**
Iced With: **Ice**		17. Were samples received intact?	**Yes|No**
6. Was COC included with samples?	Yes	ESS Sample IDs: 1,3,6,7,9,11,12,14,18,no	
7. Was COC signed and dated by client?	Yes	Sub Lab: ~~Stuliy~~ NA	
8. Does the COC match the sample	Yes	Analysis: TOC	
9. Is COC complete and correct?	Yes	TAT: 4 day	

18. Was there need to call project manager to discuss status? If yes, please explain.

_____

_____

_____

Who was called?:_____ By whom? _____

Sample Number	Properly Preserved	Container Type	# of Containers	Preservative
1	Yes	4 oz Soil Jar	1	NP
1	Yes	8 oz Soil Jar	1	NP
2	Yes	2 oz Soil Jar	1	NP
2	Yes	4 oz Soil Jar	1	NP
2	Yes	8 oz Soil Jar	1	NP
3	Yes	4 oz Soil Jar	1	NP
3	Yes	8 oz Soil Jar	1	NP
4	Yes	4 oz Soil Jar	1	NP
4	Yes	8 oz Soil Jar	1	NP
5	Yes	2 oz Soil Jar	1	NP
5	Yes	4 oz Soil Jar	1	NP
5	Yes	8 oz Soil Jar	1	NP
6	Yes	2 oz Soil Jar	1	NP
6	Yes	4 oz Soil Jar	1	NP
6	Yes	8 oz Soil Jar	1	NP
7	Yes	4 oz Soil Jar	1	NP
7	Yes	8 oz Soil Jar	1	NP
8	Yes	4 oz Soil Jar	1	NP
8	Yes	8 oz Soil Jar	1	NP
9	Yes	2 oz Soil Jar	1	NP
9	Yes	4 oz Soil Jar	1	NP
9	Yes	8 oz Soil Jar	1	NP
10	Yes	4 oz Soil Jar	1	NP
10	Yes	8 oz Soil Jar	1	NP
11	Yes	4 oz Soil Jar	1	NP

Sample and Cooler Receipt Checklist

Client: GZA GeoEnvironmental, Inc. ESS Project ID: 13080110

11	Yes	8 oz Soil Jar	1	NP
12	Yes	2 oz Soil Jar	1	NP
12	Yes	4 oz Soil Jar	1	NP
12	Yes	8 oz Soil Jar	1	NP
13	Yes	4 oz Soil Jar	1	NP
13	Yes	8 oz Soil Jar	1	NP

Completed By: _____ Date/Time: 8/8/13 11:55

Reviewed By: _____ Date/Time: 8/8/13 1155

1 of 2

ESS Laboratory

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185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

ESS LAB PROJECT ID: 1308110

Turn Time ___x___Standard Rush_____ Approved By: _____

Reporting Limits - see prev. email correspondence

State where samples were collected: MA RI CT NH NJ NY ME Other_____

Is this project for any of the following: (please circle)
MA-MCP CT-RCP RGP DOD Other_____

Electonic Deliverable Yes__x__ No____
Format: Excel_x__ Access___ PDF___ Other_____

GZA Project Manager: David E. Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Avenue
Norwood, MA 02062
(781) 278-3700
PRESUMPTIVE CERTAINTY REQUIRED

Project # 171521.02
Project Name: Former Everett Staging Yard
Contract Pricing _____
Special Pricing WO#: _____

ESS Lab Sample ID	Date	Collection Time	Grab -G Composite-C	Matrix	Sample Identification	# of Containers	MCP 14 metals	B/N Phthalates Esters 8270	PAH 8270 SIM	EPH Fractions	PCBs	TOC by Lloyd Kahn					Comment #
						Analysis											
1	8/5/13	15:05	G	Sed	GZ-LC6 2-4'	2	X	X	X	X	X						
2	8/5/13	15:15	G	Sed	GZ-LC7 0-0.5'	2	X	X	X	X	X	X					
3	8/5/13	15:15	G	Sed	GZ-LC7 2-4'	2	X	X	X	X	X						
4	8/5/13	15:15	G	Sed	GZ-LC7 4-5'4"	2	X	X	X	X	X						
5	8/5/13	15:25	G	Sed	GZ-LC8 0-0.5'	2	X	X	X	X	X	X					
6	8/5/13	15:25	G	Sed	GZ-LC8 2-4'	2	X	X	X	X	X	X					
7	8/5/13	15:25	G	Sed	GZ-LC8 4-6'	2	X	X	X	X	X						
8	8/5/13	15:25	G	Sed	GZ-LC8 6-7'3"	2	X	X	X	X	X						
9	8/5/13	15:35	G	Sed	GZ-LC9 0-0.5'	2	X	X	X	X	X	X					
10 DUP	8/5/13	15:35	G	Sed	GZ-LC9 2-4'	2	X	X	X	X	X						
Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-_____																	
Container Type: P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA							AG	AG	AG	AG	AG	AG					

Matrix: S-Soil SD-Solid D-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filter

Cooler Present ✓ Yes ____ No
Seals Intact ✓ Yes ____ No NA: BD
Cooler Temperature: 4.1 3 6 4.8 3 2 2.6

Sampled by : Dan Scanlon

Comments: Contract Price - 10%

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Walkin	8/6/13 20:0	Bill Rocan 8/7/13 0530	Bill Rocan 8/7/13	1120	8/7/13 1300
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)

Please E-mail all changes to Chain of Custody in writing.

Page 15 of 16

ESS Laboratory
Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

ESS LAB PROJECT ID: 1308110

Turn Time ___x___ Standard Rush _____ Approved By: _____

Reporting Limits - see prev. email correspondence

State where samples were collected: MA RI CT NH NJ NY ME Other_____

Is this project for any of the following: (please circle)
MA-MCP CT-RCP RGP DOD Other_____

Electonic Deliverable Yes__x__ No____
Format: Excel_x__ Access___ PDF___ Other_____

GZA Project Manager: David E. Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Avenue
Norwood, MA 02062
(781) 278-3700
PRESUMPTIVE CERTAINTY REQUIRED

Project # 171521.02
Project Name: Former Everett Staging Yard
Contract Pricing _____
Special Pricing WO#: _____

ESS Lab Sample ID	Date	Collection Time	Grab -G Composite-C	Matrix	Sample Identification	# of Containers	MCP 14 metals	B/N Phthalates Esters 8270	PAH 8270 SIM	EPH Fractions	PCBs	TOC by Lloyd Kahn					Comment #
						Analysis											
11	8/5/13	15:35	G	Sed	GZ-LC9 4-5'2"	2	X	X	X	X	X						
12	8/5/13	15:45	G	Sed	GZ-LC10 0-0.5'	2	X	X	X	X	X	X					
13	8/5/13	15:45	G	Sed	GZ-LC10 2-4'	2	X	X	X	X	X						

Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-_____

Container Type: P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA — AG AG AG AG AG AG

Matrix: S-Soil SD-Solid D-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filter

Cooler Present ___Yes ___No
Seals Intact ___Yes ___No NA: BP
Cooler Temperature: 4-13.6 4.8 3226
5 coolers

Sampled by : Dan Scanlon

Comments: Contract Price - 10%

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	5/6/13 0210	Bud Bedrosian 8/7/13 1030	Bud Bedrosian 8/7/13	1120	8/7/13 1800

Please E-mail all changes to Chain of Custody in writing.

CERTIFICATE OF ANALYSIS

David E Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Avenue
Norwood, MA 02062

RE: Everett (01.0171521.02)
ESS Laboratory Work Order Number: 1308242

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard
Laboratory Director

REVIEWED
By ESS Laboratory at 4:51 pm, Aug 16, 2013

Analytical Summary
The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with NELAC Standards, A2LA and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibratins, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308242

SAMPLE RECEIPT

The following samples were received on August 14, 2013 for the analyses specified on the enclosed Chain of Custody Record.

To achieve CAM compliance for MCP data, ESS Laboratory has performed and reviewed all QA/QC Requirements and Performance Standards listed in each method. Holding times and preservation have also been reviewed. All CAM requirements have been achieved unless noted in the project narrative.

Each method has been set-up in the laboratory to reach required MCP standards. The methods for aqueous VOA and Soil Methanol VOA have known limitations for certain analytes. The regulatory standards may not be achieved due to these limitations. In addition, for all methods, matrix interferences, dilutions, and %Solids may elevate method reporting limits above regulatory standards. ESS Laboratory can provide, upon request, a Data Checker (regulatory standard comparison spreadsheet) electronic deliverable which will highlight these exceedances.

For EPH soil samples, the aromatic range results have been corrected for identified cartridge contaminant in accordance with the CAM protocol.

These samples were originally received on 7/31/13 as ESS Laboratory Sample IDs 1308004-03 & 1308004-04.

Lab Number	SampleName	Matrix	Analysis
1308242-01	Comp GZ-15 17 18	Soil	1311, 1311/7470A
1308242-02	Comp GZ-4 5B 6	Soil	1311, 1311/6010B

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308242

PROJECT NARRATIVE

No unusual observations noted.

End of Project Narrative.

DATA USABILITY LINKS

Definitions of Quality Control Parameters

Semivolatile Organics Internal Standard Information

Semivolatile Organics Surrogate Information

Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308242

CURRENT SW-846 METHODOLOGY VERSIONS

Analytical Methods

1010A - Flashpoint
6010C - ICP
6020A - ICP MS
7010 - Graphite Furnace
7196A - Hexavalent Chromium
7470A - Aqueous Mercury
7471B - Solid Mercury
8011 - EDB/DBCP/TCP
8015C - GRO/DRO
8081B - Pesticides
8082A - PCB
8100M - TPH
8151A - Herbicides
8260B - VOA
8270D - SVOA
8270D SIM - SVOA Low Level
9014 - Cyanide
9038 - Sulfate
9040C - Aqueous pH
9045D - Solid pH (Corrosivity)
9050A - Specific Conductance
9056A - Anions (IC)
9060A - TOC
9095B - Paint Filter
MADEP 04-1.1 - EPH / VPH

Prep Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5035 - Solid Purge and Trap

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: Comp GZ-15 17 18
Date Sampled: 07/31/13 13:53
Percent Solids: N/A

ESS Laboratory Work Order: 1308242
ESS Laboratory Sample ID: 1308242-01
Sample Matrix: Soil
Units: mg/L

Extraction Method: 245.1/7470A

TCLP Extraction Date: 8/5/13 17:15

1311 TCLP Metals

Analyte	Results (MRL)	MDL	Method	TCLP Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Mercury	ND (0.00050)		1311/7470A	0.2	1	KJK	08/15/13 13:03	20	40	CH31412

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: Comp GZ-15 17 18
Date Sampled: 07/31/13 13:53
Percent Solids: N/A
Initial Volume: 100
Final Volume: 2000
Extraction Method: 1311

ESS Laboratory Work Order: 1308242
ESS Laboratory Sample ID: 1308242-01
Sample Matrix: Soil
Units: °C
Analyst: BJV
Prepared: 8/5/13 17:15

TCLP Extraction by 1311

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Batch
Temperature (Min C)	**21.5** (N/A)		1311		1	BJV	08/06/13 9:22	CH30535
Temperature (Max C)	**23.5** (N/A)		1311		1	BJV	08/06/13 9:22	CH30535
Temperature (Range)	**Temperature is within 23 +/-2 ºC.** (N/A)							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: Comp GZ-4 5B 6
Date Sampled: 07/31/13 09:04
Percent Solids: N/A

ESS Laboratory Work Order: 1308242
ESS Laboratory Sample ID: 1308242-02
Sample Matrix: Soil
Units: mg/L

Extraction Method: 3005A TCLP

TCLP Extraction Date: 8/5/13 17:15

1311 TCLP Metals

Analyte	Results (MRL)	MDL	Method	TCLP Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Arsenic	**0.207** (0.050)		1311/6010B	5	1	SVD	08/06/13 23:17	50	50	CH30625

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: Comp GZ-4 5B 6
Date Sampled: 07/31/13 09:04
Percent Solids: N/A
Initial Volume: 100
Final Volume: 2000
Extraction Method: 1311

ESS Laboratory Work Order: 1308242
ESS Laboratory Sample ID: 1308242-02
Sample Matrix: Soil
Units: °C
Analyst: BJV
Prepared: 8/5/13 17:15

TCLP Extraction by 1311

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Batch
Temperature (Min C)	**21.5** (N/A)		1311		1	BJV	08/06/13 9:22	CH30535
Temperature (Max C)	**23.5** (N/A)		1311		1	BJV	08/06/13 9:22	CH30535
Temperature (Range)	**Temperature is within 23 +/-2 ºC.** (N/A)							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308242

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
1311 TCLP Metals										
Batch CH30625 - 3005A_TCLP										
Blank										
Arsenic	ND	0.050	mg/L							
LCS										
Arsenic	0.466	0.050	mg/L	0.5000		93	80-120			
LCS Dup										
Arsenic	0.476	0.050	mg/L	0.5000		95	80-120	2	20	
Batch CH31412 - 245.1/7470A										
Blank										
Mercury	ND	0.00050	mg/L							
Blank										
Mercury	ND	0.00050	mg/L							
LCS										
Mercury	0.00560	0.00050	mg/L	0.006000		93	80-120			
LCS Dup										
Mercury	0.00541	0.00050	mg/L	0.006000		90	80-120	4	20	

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308242

Notes and Definitions

Z17	Temperature is within 23 +/-2 ºC.
U	Analyte included in the analysis, but not detected
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	Detection Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308242

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Department of Defense (DoD) Environmental Laboratory Accreditation Program (ELAP)
A2LA Accredited: Testing Cert# 2864.01
http://www.a2la.org/scopepdf/2864-01.pdf

Rhode Island Potable and Non Potable Water: LAI00179
http://www.health.ri.gov/labs/waterlabs-instate.php

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750
http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI0002
http://www.maine.gov/dep/blwq/topic/vessel/lab_list.pdf

Massachusetts Potable and Non Potable Water: M-RI002
http://public.dep.state.ma.us/labcert/labcert.aspx

New Hampshire (NELAP accredited) Potable and Non PotableWater, Solid and Hazardous Waste: 2424
http://www4.egov.nh.gov/des/nhelap/namesearch.asp

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313
http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006
http://datamine2.state.nj.us/dep/DEP_OPRA/

United States Department of Agriculture Soil Permit: S-54210

Maryland Potable Water: 301
http://www.mde.state.md.us/assets/document/WSP_labs-2009apr20.pdf

CHEMISTRY

A2LA Accredited: Testing Cert # 2864.01
Lead in Paint, Phthalates, Lead in Children's Metals Products (Including Jewelry)
http://www.A2LA.org/dirsearchnew/newsearch.cfm

CPSC ID# 1141
Lead Paint, Lead in Children's Metals Jewelry
http://www.cpsc.gov/cgi-bin/labapplist.aspx

Sample and Cooler Receipt Checklist

Client: GZA GeoEnvironmental, Inc.
Client Project ID: _____
Shipped/Delivered Via: Client

ESS Project ID: 13080242
Date Project Due: 8/16/13
Days For Project: 2 Day

Items to be checked upon receipt:

1. Air Bill Manifest Present?	* No	10. Are the samples properly preserved?	Yes
Air No.:		11. Proper sample containers used?	Yes
2. Were Custody Seals Present?	No	12. Any air bubbles in the VOA vials?	N/A
3. Were Custody Seals Intact?	N/A	13. Holding times exceeded?	No
4. Is Radiation count < 100 CPM?	Yes	14. Sufficient sample volumes?	Yes
5. Is a cooler present?	Yes	15. Any Subcontracting needed?	No
Cooler Temp: **1.3**		16. Are ESS labels on correct containers?	(Yes) No
Iced With: **Ice**		17. Were samples received intact?	(Yes) No
6. Was COC included with samples?	Yes	ESS Sample IDs:	
7. Was COC signed and dated by client?	Yes	Sub Lab:	
8. Does the COC match the sample	Yes	Analysis:	
9. Is COC complete and correct?	Yes	TAT:	

18. Was there need to call project manager to discuss status? If yes, please explain.

Relog of B8004-03 + -04 cas 8/14/13

Who was called?:_____ By whom? _____

Sample Number	Properly Preserved	Container Type	# of Containers	Preservative
1	Yes	8 oz Soil Jar	1	NP
2	Yes	8 oz Soil Jar	1	NP

Completed By: _____ Date/Time: 8/14/13 1245
Reviewed By: _____ Date/Time: 8/14/13 13:10.

013080004-3
Preservative: NP
0100000000543291

013080004-4
Preservative: NP
0100000000543296

1308242

ESS Laboratory

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

1308004 2 3 Page 3 of 3 CCJ 8/1/13

Turn Time X Standard Other ____
If faster than 5 days, prior approval by laboratory is required # ____

State where samples were collected from:
MA RI CT NH NJ NY ME Other ____

Is this project for any of the following:
MA-MCP Navy USACE Other ____

Reporting Limits: Detection limits on G2A-ESS Emails

ESS LAB PROJECT ID: ~~1308002~~ 1308004 CCJ 8/1/13

Electronic Deliverable Yes ___ No ___ CAT 8/2/13

Format Excel Access PDF Other ____

Co. Name	Project #	Project Name (20 Char. or less)
G2A GeoEnvironmental, Co	01.0171521.02	Everett

Contract Person	Address
Jason Chrzanowski Josh Zall David Cleone	249 Vanderbilt

City	State	Zip	PO#
Norwood	MA	02062	

Telephone #	Fax #	Email Address
781-278-3700		Joshua.Zall@g2a.com David.Leone@g2a.com

ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	~~Semivolatiles~~	TCLP Hg	TCLP As	Write Required Analysis
1) 22(8)	7-31-13	1353	X		SED	Comp G2-15, 17, 18	1	8	6	X	X		
2) 22(9)	↓	0904	↓		↓	Comp G2-4, 5B, 6	↓	↓	↓	↓		X	
23(5)	↓	0955	↓		↓	~~Comp G2-1, 2, 3B~~	↓	↓	↓	↓			
24(6)	~~7-31~~ 8-1-13	1147	X		SED	~~Comp G2-7, 9, 12~~	1	8	6	X			
~~8/1/13~~	8-1-13												
						Relog per client request 8/14/13 CAT 2 DAY TAT							Relog

Container Type: P-Poly G-Glass S-Sterile V-VOA | Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present ✓ Yes ___ No Internal Use Only

Seals Intact ___ Yes ___ No NA: ___ [ ] Pickup

Cooler Temp: ✓ 1.3 & 4.8 ice [ ] Technicians ____

Preservation Code 1- NP, 2- HCl, 3- H_2SO_4, 4- HNO_3, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9- ____

Sampled by: J. Chrzanowski, D. Scanlon

Comments: LL's frozen 0956 8/1/13 CCJ

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
Jason Chrzanowski G2A	7-31-13 1745		7/31/13 1820				
	7/31/13 1925		7/31/13 1932				

*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt

10/26/04 A

CERTIFICATE OF ANALYSIS

David E Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Avenue
Norwood, MA 02062

RE: Everett (01.0171521.02)
ESS Laboratory Work Order Number: 1308485

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard
Laboratory Director

REVIEWED
By ESS Laboratory at 9:33 am, Aug 30, 2013

Analytical Summary
The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with NELAC Standards, A2LA and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibratins, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308485

SAMPLE RECEIPT

The following samples were received on August 22, 2013 for the analyses specified on the enclosed Chain of Custody Record.

To achieve CAM compliance for MCP data, ESS Laboratory has performed and reviewed all QA/QC Requirements and Performance Standards listed in each method. Holding times and preservation have also been reviewed. All CAM requirements have been achieved unless noted in the project narrative.

Each method has been set-up in the laboratory to reach required MCP standards. The methods for aqueous VOA and Soil Methanol VOA have known limitations for certain analytes. The regulatory standards may not be achieved due to these limitations. In addition, for all methods, matrix interferences, dilutions, and %Solids may elevate method reporting limits above regulatory standards. ESS Laboratory can provide, upon request, a Data Checker (regulatory standard comparison spreadsheet) electronic deliverable which will highlight these exceedances.

For EPH soil samples, the aromatic range results have been corrected for identified cartridge contaminant in accordance with the CAM protocol.

Sample 1308485-01 was originally received on August 7, 2013 as ESS Laboratory Sample ID 1308098-12. Samples 1308485-02 and 1308485-03 were originally received on August 7, 2013 as ESS Laboratory Sample IDs 1308105-01 and 1308105-07. Sample 1308485-04 was originally received on August 7, 2013 as ESS Laboratory Sample ID 1308106-17. Samples 1308485-05 and 1308485-06 were originally received on August 7, 2013 as ESS Laboratory Sample IDs 1308108-05 and 1308108-13. Samples 1308485-07, 1308485-08 and 1308485-09 were originally received on August 7, 2013 as ESS Laboratory Sample IDs 1308109-07, 1308109-09 and 1308109-09.

Question I: All samples for SVOA were analyzed for a subset of the required MCP list per the client's request.

Lab Number	SampleName	Matrix	Analysis
1308485-01	GZ-104T 0-0.5ft	Soil	8081B
1308485-02	GZ-114T 0-0.5ft	Soil	8081B
1308485-03	GZ-116T 0-0.5ft	Soil	8081B
1308485-04	GZ-126T 0-0.5ft	Soil	8081B
1308485-05	GZ-135T 0-0.5ft	Soil	8081B, 8082A, 8270D, EPH8270, MADEP-EPH
1308485-06	GZ-137T 0-0.5ft	Soil	8081B
1308485-07	GZ-LC1 T 0-0.5ft	Soil	8081B
1308485-08	GZ-LC2 T 0-0.5ft	Soil	8081B
1308485-09	GZ-LC3 T 0-0.5ft	Soil	8081B

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308485

PROJECT NARRATIVE

8081A Organochlorine Pesticides

1308485-01	**Estimated value. Sample hold times were exceeded (H).**
1308485-01	**Lower value is used due to matrix interferences (LC).**
	4,4′-DDE [2C] , 4,4′-DDT , Endrin Ketone
1308485-01	**Percent difference between primary and confirmation results exceeds 40% (P).**
	4,4′-DDE [2C] , 4,4′-DDT , Endrin Ketone
1308485-02	**Estimated value. Sample hold times were exceeded (H).**
1308485-02	**Lower value is used due to matrix interferences (LC).**
	4,4′-DDE [2C] , 4,4′-DDT , Endrin Ketone
1308485-02	**Percent difference between primary and confirmation results exceeds 40% (P).**
	4,4′-DDE [2C] , 4,4′-DDT , Endrin Ketone
1308485-03	**Estimated value. Sample hold times were exceeded (H).**
1308485-03	**Lower value is used due to matrix interferences (LC).**
	4,4′-DDE [2C] , 4,4′-DDT , Endrin Ketone
1308485-03	**Percent difference between primary and confirmation results exceeds 40% (P).**
	4,4′-DDE [2C] , 4,4′-DDT , Endrin Ketone
1308485-04	**Estimated value. Sample hold times were exceeded (H).**
1308485-05	**Estimated value. Sample hold times were exceeded (H).**
1308485-06	**Estimated value. Sample hold times were exceeded (H).**
1308485-06	**Lower value is used due to matrix interferences (LC).**
	4,4′-DDE [2C] , 4,4′-DDT , Endrin Ketone
1308485-06	**Percent difference between primary and confirmation results exceeds 40% (P).**
	4,4′-DDE [2C] , 4,4′-DDT , Endrin Ketone
1308485-07	**Estimated value. Sample hold times were exceeded (H).**
1308485-07	**Lower value is used due to matrix interferences (LC).**
	4,4′-DDE [2C] , 4,4′-DDT , Endrin Ketone
1308485-07	**Percent difference between primary and confirmation results exceeds 40% (P).**
	4,4′-DDE [2C] , 4,4′-DDT , Endrin Ketone
1308485-07	**Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).**
	Decachlorobiphenyl (206% @ 30-150%), Decachlorobiphenyl [2C] (236% @ 30-150%)
1308485-08	**Estimated value. Sample hold times were exceeded (H).**
1308485-08	**Lower value is used due to matrix interferences (LC).**
	4,4′-DDD [2C] , 4,4′-DDT , Endosulfan II , Endosulfan Sulfate , Heptachlor
1308485-08	**Percent difference between primary and confirmation results exceeds 40% (P).**
	4,4′-DDD [2C] , 4,4′-DDT , Endosulfan II , Endosulfan Sulfate , Heptachlor
1308485-08	**Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).**
	Decachlorobiphenyl (1950% @ 30-150%), Decachlorobiphenyl [2C] (4310% @ 30-150%)
1308485-09	**Estimated value. Sample hold times were exceeded (H).**
1308485-09	**Lower value is used due to matrix interferences (LC).**
	4,4′-DDE [2C] , 4,4′-DDT , Endosulfan II , Endosulfan Sulfate , Endrin Ketone
1308485-09	**Percent difference between primary and confirmation results exceeds 40% (P).**

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett ESS Laboratory Work Order: 1308485

4,4′-DDE [2C] , 4,4′-DDT , Endosulfan II , Endosulfan Sulfate , Endrin Ketone

1308485-09 **Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).**
Decachlorobiphenyl (177% @ 30-150%), Decachlorobiphenyl [2C] (203% @ 30-150%)

CWH0375-CCV5 **Continuing Calibration recovery is above upper control limit (C+).**
4,4′-DDT [2C] (130% @ 80-120%), Methoxychlor (127% @ 80-120%), Methoxychlor [2C] (128% @ 80-120%)

8270D Semi-Volatile Organic Compounds

1308485-05 **Estimated value. Sample hold times were exceeded (H).**

CWH0311-CCV1 **Calibration required quadratic regression (Q).**
Benzoic Acid (110% @ 70-130%), Hexachlorocyclopentadiene (91% @ 70-130%), Pentachlorophenol (111% @ 80-120%)

CWH0311-CCV1 **Initial Calibration Verification recovery is outside of control limit (ICV).**
Benzidine , Benzoic Acid

8270D(SIM) Polynuclear Aromatic Hydrocarbons

1308485-05 **Elevated Method Reporting Limits due to sample matrix (EL).**

1308485-05 **Estimated value. Sample hold times were exceeded (H).**

CH32307-BSD1 **Relative percent difference for duplicate is outside of criteria (D+).**
Benzo(b)fluoranthene (32%), Benzo(g,h,i)perylene (32%), Fluoranthene (31%)

MADEP-EPH Extractable Petroleum Hydrocarbons

1308485-05 **Estimated value. Sample hold times were exceeded (H).**

No other observations noted.

End of Project Narrative.

DATA USABILITY LINKS

Definitions of Quality Control Parameters

Semivolatile Organics Internal Standard Information

Semivolatile Organics Surrogate Information

Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308485

CURRENT SW-846 METHODOLOGY VERSIONS

Analytical Methods

1010A - Flashpoint
6010C - ICP
6020A - ICP MS
7010 - Graphite Furnace
7196A - Hexavalent Chromium
7470A - Aqueous Mercury
7471B - Solid Mercury
8011 - EDB/DBCP/TCP
8015C - GRO/DRO
8081B - Pesticides
8082A - PCB
8100M - TPH
8151A - Herbicides
8260B - VOA
8270D - SVOA
8270D SIM - SVOA Low Level
9014 - Cyanide
9038 - Sulfate
9040C - Aqueous pH
9045D - Solid pH (Corrosivity)
9050A - Specific Conductance
9056A - Anions (IC)
9060A - TOC
9095B - Paint Filter
MADEP 04-1.1 - EPH / VPH

Prep Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5035 - Solid Purge and Trap

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308485

MassDEP Analytical Protocol Certification Form

MADEP RTN: _____

This form provides certification for the following data set: **1308485-01 through 1308485-09**

Matrices: ( ) Ground Water/Surface Water (X) Soil/Sediment ( ) Drinking Water ( ) Air ( ) Other:_____

CAM Protocol (check all that apply below):

( ) 8260 VOC CAM II A	( ) 7470/7471 Hg CAM III B	( ) MassDEP VPH CAM IV A	(X) 8081 Pesticides CAM V B	( ) 7196 Hex Cr CAM VI B	( ) MassDEP APH CAM IX A
(X) 8270 SVOC CAM II B	( ) 7010 Metals CAM III C	(X) MassDEP EPH CAM IV B	( ) 8151 Herbicides CAM V C	( ) 8330 Explosives CAM VIII A	( ) TO-15 VOC CAM IX B
( ) 6010 Metals CAM III A	( ) 6020 Metals CAM III D	(X) 8082 PCB CAM V A	( ) 6860 Perchlorate CAM VIII B	( ) 9014 Total Cyanide/PAC CAM VI A	

Affirmative responses to questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	Yes ( ) No (X)
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	Yes (X) No ( )
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	Yes (X) No ( )
D	Does the laboratory report comply with all the reporting requirements specified in the CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	Yes (X) No ( )
E	a. VPH, EPH, APH and TO-15 only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	Yes (X) No ( )
	b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	Yes ( ) No ( )
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	Yes (X) No ( )

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocols(s)?	Yes (X) No ( )*
	***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**	
H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	Yes ( ) No (X)*
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	Yes ( ) No (X)*

All negative responses must be addressed in an attached laboratory narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: _____ Date: August 30, 2013

Printed Name: Laurel Stoddard Position: Laboratory Director

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-104T 0-0.5ft
Date Sampled: 08/06/13 09:12
Percent Solids: 43
Initial Volume: 19.8
Final Volume: 5
Extraction Method: 3546

ESS Laboratory Work Order: 1308485
ESS Laboratory Sample ID: 1308485-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 8/23/13 10:45

8081A Organochlorine Pesticides

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
4,4´-DDD	ND (0.0058)		8081B		1	08/27/13 15:30	CWH0348	CH32304
4,4´-DDE [2C]	**LC, P 0.0101** (0.0058)		8081B		1	08/27/13 15:30	CWH0348	CH32304
4,4´-DDT	**LC, P 0.0082** (0.0058)		8081B		1	08/27/13 15:30	CWH0348	CH32304
Aldrin	ND (0.0058)		8081B		1	08/27/13 15:30	CWH0348	CH32304
alpha-BHC	ND (0.0058)		8081B		1	08/27/13 15:30	CWH0348	CH32304
alpha-Chlordane [2C]	ND (0.0058)		8081B		1	08/27/13 15:30	CWH0348	CH32304
beta-BHC	ND (0.0058)		8081B		1	08/27/13 15:30	CWH0348	CH32304
Chlordane (Total)	ND (0.0465)		8081B		1	08/27/13 15:30	CWH0348	CH32304
delta-BHC	ND (0.0058)		8081B		1	08/27/13 15:30	CWH0348	CH32304
Dieldrin	ND (0.0058)		8081B		1	08/27/13 15:30	CWH0348	CH32304
Endosulfan I	ND (0.0058)		8081B		1	08/27/13 15:30	CWH0348	CH32304
Endosulfan II	ND (0.0058)		8081B		1	08/27/13 15:30	CWH0348	CH32304
Endosulfan Sulfate	ND (0.0058)		8081B		1	08/27/13 15:30	CWH0348	CH32304
Endrin	ND (0.0058)		8081B		1	08/27/13 15:30	CWH0348	CH32304
Endrin Ketone	**LC, P 0.0089** (0.0058)		8081B		1	08/27/13 15:30	CWH0348	CH32304
gamma-BHC (Lindane)	ND (0.0035)		8081B		1	08/27/13 15:30	CWH0348	CH32304
gamma-Chlordane	ND (0.0058)		8081B		1	08/27/13 15:30	CWH0348	CH32304
Heptachlor	ND (0.0058)		8081B		1	08/27/13 15:30	CWH0348	CH32304
Heptachlor Epoxide	ND (0.0058)		8081B		1	08/27/13 15:30	CWH0348	CH32304
Hexachlorobenzene	ND (0.0058)		8081B		1	08/27/13 15:30	CWH0348	CH32304
Methoxychlor	ND (0.0058)		8081B		1	08/27/13 15:30	CWH0348	CH32304
Toxaphene	ND (0.291)		8081B		1	08/27/13 15:30	CWH0348	CH32304
Toxaphene [2C]	ND (0.291)		8081B		1	08/27/13 15:30	CWH0348	CH32304

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*103 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*119 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*80 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*82 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-114T 0-0.5ft
Date Sampled: 08/06/13 09:55
Percent Solids: 31
Initial Volume: 19.7
Final Volume: 5
Extraction Method: 3546

ESS Laboratory Work Order: 1308485
ESS Laboratory Sample ID: 1308485-02
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 8/23/13 10:45

8081A Organochlorine Pesticides

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
4,4´-DDD	**0.0172** (0.0082)		8081B		1	08/27/13 16:00	CWH0348	CH32304
4,4´-DDE [2C]	**LC, P 0.0098** (0.0082)		8081B		1	08/27/13 16:00	CWH0348	CH32304
4,4´-DDT	**LC, P 0.0124** (0.0082)		8081B		1	08/27/13 16:00	CWH0348	CH32304
Aldrin	ND (0.0082)		8081B		1	08/27/13 16:00	CWH0348	CH32304
alpha-BHC	ND (0.0082)		8081B		1	08/27/13 16:00	CWH0348	CH32304
alpha-Chlordane	ND (0.0082)		8081B		1	08/27/13 16:00	CWH0348	CH32304
beta-BHC	ND (0.0082)		8081B		1	08/27/13 16:00	CWH0348	CH32304
Chlordane (Total)	ND (0.0658)		8081B		1	08/27/13 16:00	CWH0348	CH32304
delta-BHC	ND (0.0082)		8081B		1	08/27/13 16:00	CWH0348	CH32304
Dieldrin [2C]	ND (0.0082)		8081B		1	08/27/13 16:00	CWH0348	CH32304
Endosulfan I	ND (0.0082)		8081B		1	08/27/13 16:00	CWH0348	CH32304
Endosulfan II	ND (0.0082)		8081B		1	08/27/13 16:00	CWH0348	CH32304
Endosulfan Sulfate	ND (0.0082)		8081B		1	08/27/13 16:00	CWH0348	CH32304
Endrin	ND (0.0082)		8081B		1	08/27/13 16:00	CWH0348	CH32304
Endrin Ketone	**LC, P 0.0105** (0.0082)		8081B		1	08/27/13 16:00	CWH0348	CH32304
gamma-BHC (Lindane)	ND (0.0049)		8081B		1	08/27/13 16:00	CWH0348	CH32304
gamma-Chlordane	ND (0.0082)		8081B		1	08/27/13 16:00	CWH0348	CH32304
Heptachlor	ND (0.0082)		8081B		1	08/27/13 16:00	CWH0348	CH32304
Heptachlor Epoxide	ND (0.0082)		8081B		1	08/27/13 16:00	CWH0348	CH32304
Hexachlorobenzene	ND (0.0082)		8081B		1	08/27/13 16:00	CWH0348	CH32304
Methoxychlor	ND (0.0082)		8081B		1	08/27/13 16:00	CWH0348	CH32304
Toxaphene	ND (0.411)		8081B		1	08/27/13 16:00	CWH0348	CH32304
Toxaphene [2C]	ND (0.411)		8081B		1	08/27/13 16:00	CWH0348	CH32304

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*102 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*135 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*79 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*83 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-116T 0-0.5ft
Date Sampled: 08/06/13 10:55
Percent Solids: 49
Initial Volume: 20.3
Final Volume: 5
Extraction Method: 3546

ESS Laboratory Work Order: 1308485
ESS Laboratory Sample ID: 1308485-03
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 8/23/13 10:45

8081A Organochlorine Pesticides

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
4,4´-DDD	ND (0.0050)		8081B		1	08/27/13 16:30	CWH0348	CH32304
4,4´-DDE [2C]	**LC, P 0.0093** (0.0050)		8081B		1	08/27/13 16:30	CWH0348	CH32304
4,4´-DDT	**LC, P 0.0235** (0.0050)		8081B		1	08/27/13 16:30	CWH0348	CH32304
Aldrin	ND (0.0050)		8081B		1	08/27/13 16:30	CWH0348	CH32304
alpha-BHC	ND (0.0050)		8081B		1	08/27/13 16:30	CWH0348	CH32304
alpha-Chlordane	ND (0.0050)		8081B		1	08/27/13 16:30	CWH0348	CH32304
beta-BHC	ND (0.0050)		8081B		1	08/27/13 16:30	CWH0348	CH32304
Chlordane (Total)	ND (0.0401)		8081B		1	08/27/13 16:30	CWH0348	CH32304
delta-BHC	ND (0.0050)		8081B		1	08/27/13 16:30	CWH0348	CH32304
Dieldrin	ND (0.0050)		8081B		1	08/27/13 16:30	CWH0348	CH32304
Endosulfan I	ND (0.0050)		8081B		1	08/27/13 16:30	CWH0348	CH32304
Endosulfan II	ND (0.0050)		8081B		1	08/27/13 16:30	CWH0348	CH32304
Endosulfan Sulfate	ND (0.0050)		8081B		1	08/27/13 16:30	CWH0348	CH32304
Endrin	ND (0.0050)		8081B		1	08/27/13 16:30	CWH0348	CH32304
Endrin Ketone	**LC, P 0.0072** (0.0050)		8081B		1	08/27/13 16:30	CWH0348	CH32304
gamma-BHC (Lindane)	ND (0.0030)		8081B		1	08/27/13 16:30	CWH0348	CH32304
gamma-Chlordane	ND (0.0050)		8081B		1	08/27/13 16:30	CWH0348	CH32304
Heptachlor	**0.0100** (0.0050)		8081B		1	08/27/13 16:30	CWH0348	CH32304
Heptachlor Epoxide	ND (0.0050)		8081B		1	08/27/13 16:30	CWH0348	CH32304
Hexachlorobenzene	ND (0.0050)		8081B		1	08/27/13 16:30	CWH0348	CH32304
Methoxychlor	ND (0.0050)		8081B		1	08/27/13 16:30	CWH0348	CH32304
Toxaphene	ND (0.251)		8081B		1	08/27/13 16:30	CWH0348	CH32304
Toxaphene [2C]	ND (0.251)		8081B		1	08/27/13 16:30	CWH0348	CH32304

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*105 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*134 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*83 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*85 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-126T 0-0.5ft
Date Sampled: 08/06/13 10:15
Percent Solids: 67
Initial Volume: 19.9
Final Volume: 5
Extraction Method: 3546

ESS Laboratory Work Order: 1308485
ESS Laboratory Sample ID: 1308485-04
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 8/23/13 10:45

8081A Organochlorine Pesticides

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
4,4´-DDD	ND (0.0038)		8081B		1	08/27/13 17:01	CWH0348	CH32304
4,4´-DDE	ND (0.0038)		8081B		1	08/27/13 17:01	CWH0348	CH32304
4,4´-DDT	ND (0.0038)		8081B		1	08/27/13 17:01	CWH0348	CH32304
Aldrin	ND (0.0038)		8081B		1	08/27/13 17:01	CWH0348	CH32304
alpha-BHC	ND (0.0038)		8081B		1	08/27/13 17:01	CWH0348	CH32304
alpha-Chlordane	ND (0.0038)		8081B		1	08/27/13 17:01	CWH0348	CH32304
beta-BHC	ND (0.0038)		8081B		1	08/27/13 17:01	CWH0348	CH32304
Chlordane (Total)	ND (0.0300)		8081B		1	08/27/13 17:01	CWH0348	CH32304
delta-BHC	ND (0.0038)		8081B		1	08/27/13 17:01	CWH0348	CH32304
Dieldrin	ND (0.0038)		8081B		1	08/27/13 17:01	CWH0348	CH32304
Endosulfan I	ND (0.0038)		8081B		1	08/27/13 17:01	CWH0348	CH32304
Endosulfan II	ND (0.0038)		8081B		1	08/27/13 17:01	CWH0348	CH32304
Endosulfan Sulfate	ND (0.0038)		8081B		1	08/27/13 17:01	CWH0348	CH32304
Endrin	ND (0.0038)		8081B		1	08/27/13 17:01	CWH0348	CH32304
Endrin Ketone	ND (0.0038)		8081B		1	08/27/13 17:01	CWH0348	CH32304
gamma-BHC (Lindane)	ND (0.0023)		8081B		1	08/27/13 17:01	CWH0348	CH32304
gamma-Chlordane	ND (0.0038)		8081B		1	08/27/13 17:01	CWH0348	CH32304
Heptachlor	ND (0.0038)		8081B		1	08/27/13 17:01	CWH0348	CH32304
Heptachlor Epoxide	ND (0.0038)		8081B		1	08/27/13 17:01	CWH0348	CH32304
Hexachlorobenzene	ND (0.0038)		8081B		1	08/27/13 17:01	CWH0348	CH32304
Methoxychlor	ND (0.0038)		8081B		1	08/27/13 17:01	CWH0348	CH32304
Toxaphene	ND (0.188)		8081B		1	08/27/13 17:01	CWH0348	CH32304
Toxaphene [2C]	ND (0.188)		8081B		1	08/27/13 17:01	CWH0348	CH32304

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*100 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*106 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*80 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*72 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-135T 0-0.5ft
Date Sampled: 08/06/13 08:23
Percent Solids: 66
Initial Volume: 20.5
Final Volume: 5
Extraction Method: 3546

ESS Laboratory Work Order: 1308485
ESS Laboratory Sample ID: 1308485-05
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 8/23/13 10:45

8081A Organochlorine Pesticides

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
4,4´-DDD	ND (0.0037)		8081B		1	08/26/13 3:34	CWH0327	CH32304
4,4´-DDE [2C]	ND (0.0037)		8081B		1	08/26/13 3:34	CWH0327	CH32304
4,4´-DDT	ND (0.0037)		8081B		1	08/26/13 3:34	CWH0327	CH32304
Aldrin	ND (0.0037)		8081B		1	08/26/13 3:34	CWH0327	CH32304
alpha-BHC	ND (0.0037)		8081B		1	08/26/13 3:34	CWH0327	CH32304
alpha-Chlordane	ND (0.0037)		8081B		1	08/26/13 3:34	CWH0327	CH32304
beta-BHC	ND (0.0037)		8081B		1	08/26/13 3:34	CWH0327	CH32304
Chlordane (Total)	ND (0.0295)		8081B		1	08/26/13 3:34	CWH0327	CH32304
delta-BHC	ND (0.0037)		8081B		1	08/26/13 3:34	CWH0327	CH32304
Dieldrin	ND (0.0037)		8081B		1	08/26/13 3:34	CWH0327	CH32304
Endosulfan I	ND (0.0037)		8081B		1	08/26/13 3:34	CWH0327	CH32304
Endosulfan II	ND (0.0037)		8081B		1	08/26/13 3:34	CWH0327	CH32304
Endosulfan Sulfate	ND (0.0037)		8081B		1	08/26/13 3:34	CWH0327	CH32304
Endrin	ND (0.0037)		8081B		1	08/26/13 3:34	CWH0327	CH32304
Endrin Ketone	ND (0.0037)		8081B		1	08/26/13 3:34	CWH0327	CH32304
gamma-BHC (Lindane)	ND (0.0022)		8081B		1	08/26/13 3:34	CWH0327	CH32304
gamma-Chlordane	ND (0.0037)		8081B		1	08/26/13 3:34	CWH0327	CH32304
Heptachlor	ND (0.0037)		8081B		1	08/26/13 3:34	CWH0327	CH32304
Heptachlor Epoxide	ND (0.0037)		8081B		1	08/26/13 3:34	CWH0327	CH32304
Hexachlorobenzene	ND (0.0037)		8081B		1	08/26/13 3:34	CWH0327	CH32304
Methoxychlor	ND (0.0037)		8081B		1	08/26/13 3:34	CWH0327	CH32304
Toxaphene	ND (0.185)		8081B		1	08/26/13 3:34	CWH0327	CH32304
Toxaphene [2C]	ND (0.185)		8081B		1	08/26/13 3:34	CWH0327	CH32304

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*95 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*95 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*74 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*72 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-135T 0-0.5ft
Date Sampled: 08/06/13 08:23
Percent Solids: 66
Initial Volume: 19.5
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1308485
ESS Laboratory Sample ID: 1308485-05
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 8/23/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0776)		8082A		1	08/29/13 13:44		CH32939
Aroclor 1221	ND (0.0776)		8082A		1	08/29/13 13:44		CH32939
Aroclor 1232	ND (0.0776)		8082A		1	08/29/13 13:44		CH32939
Aroclor 1242	ND (0.0776)		8082A		1	08/29/13 13:44		CH32939
Aroclor 1248	**0.107** (0.0776)		8082A		1	08/29/13 13:44		CH32939
Aroclor 1254	**0.170** (0.0776)		8082A		1	08/29/13 13:44		CH32939
Aroclor 1260	**0.0862** (0.0776)		8082A		1	08/29/13 13:44		CH32939
Aroclor 1262	ND (0.0776)		8082A		1	08/29/13 13:44		CH32939
Aroclor 1268	ND (0.0776)		8082A		1	08/29/13 13:44		CH32939

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*104 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*104 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*94 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*106 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-135T 0-0.5ft
Date Sampled: 08/06/13 08:23
Percent Solids: 66
Initial Volume: 15.5
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308485
ESS Laboratory Sample ID: 1308485-05
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 8/23/13 8:50

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.488)		8270D		1	08/23/13 11:47	CWH0311	CH32305
1,2-Dichlorobenzene	ND (0.488)		8270D		1	08/23/13 11:47	CWH0311	CH32305
1,3-Dichlorobenzene	ND (0.488)		8270D		1	08/23/13 11:47	CWH0311	CH32305
1,4-Dichlorobenzene	ND (0.488)		8270D		1	08/23/13 11:47	CWH0311	CH32305
2-Methylnaphthalene	ND (0.488)		8270D		1	08/23/13 11:47	CWH0311	CH32305
2-Methylphenol	ND (0.488)		8270D		1	08/23/13 11:47	CWH0311	CH32305
Acenaphthene	ND (0.488)		8270D		1	08/23/13 11:47	CWH0311	CH32305
Acenaphthylene	ND (0.488)		8270D		1	08/23/13 11:47	CWH0311	CH32305
Anthracene	ND (0.488)		8270D		1	08/23/13 11:47	CWH0311	CH32305
Benzo(a)anthracene	ND (0.488)		8270D		1	08/23/13 11:47	CWH0311	CH32305
Benzo(a)pyrene	ND (0.245)		8270D		1	08/23/13 11:47	CWH0311	CH32305
Benzo(b)fluoranthene	ND (0.488)		8270D		1	08/23/13 11:47	CWH0311	CH32305
Benzo(g,h,i)perylene	ND (0.488)		8270D		1	08/23/13 11:47	CWH0311	CH32305
Benzo(k)fluoranthene	ND (0.488)		8270D		1	08/23/13 11:47	CWH0311	CH32305
bis(2-Ethylhexyl)phthalate	**0.506** (0.488)		8270D		1	08/23/13 11:47	CWH0311	CH32305
Butylbenzylphthalate	ND (0.488)		8270D		1	08/23/13 11:47	CWH0311	CH32305
Carbazole	ND (0.488)		8270D		1	08/23/13 11:47	CWH0311	CH32305
Chrysene	ND (0.245)		8270D		1	08/23/13 11:47	CWH0311	CH32305
Dibenzo(a,h)Anthracene	ND (0.245)		8270D		1	08/23/13 11:47	CWH0311	CH32305
Dibenzofuran	ND (0.488)		8270D		1	08/23/13 11:47	CWH0311	CH32305
Diethylphthalate	ND (0.488)		8270D		1	08/23/13 11:47	CWH0311	CH32305
Dimethylphthalate	ND (0.488)		8270D		1	08/23/13 11:47	CWH0311	CH32305
Di-n-butylphthalate	ND (0.488)		8270D		1	08/23/13 11:47	CWH0311	CH32305
Di-n-octylphthalate	ND (0.488)		8270D		1	08/23/13 11:47	CWH0311	CH32305
Fluoranthene	ND (0.488)		8270D		1	08/23/13 11:47	CWH0311	CH32305
Fluorene	ND (0.488)		8270D		1	08/23/13 11:47	CWH0311	CH32305
Hexachlorobenzene	ND (0.488)		8270D		1	08/23/13 11:47	CWH0311	CH32305
Hexachlorocyclopentadiene	ND (2.45)		8270D		1	08/23/13 11:47	CWH0311	CH32305
Indeno(1,2,3-cd)Pyrene	ND (0.488)		8270D		1	08/23/13 11:47	CWH0311	CH32305
Naphthalene	ND (0.488)		8270D		1	08/23/13 11:47	CWH0311	CH32305
Phenanthrene	ND (0.488)		8270D		1	08/23/13 11:47	CWH0311	CH32305

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-135T 0-0.5ft
Date Sampled: 08/06/13 08:23
Percent Solids: 66
Initial Volume: 15.5
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1308485
ESS Laboratory Sample ID: 1308485-05
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 8/23/13 8:50

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Phenol	ND (0.488)		8270D		1	08/23/13 11:47	CWH0311	CH32305
Pyrene	ND (0.488)		8270D		1	08/23/13 11:47	CWH0311	CH32305

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*58 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*86 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*60 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*69 %*		*30-130*
Surrogate: 2-Fluorophenol	*57 %*		*30-130*
Surrogate: Nitrobenzene-d5	*61 %*		*30-130*
Surrogate: Phenol-d6	*61 %*		*30-130*
Surrogate: p-Terphenyl-d14	*83 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-135T 0-0.5ft
Date Sampled: 08/06/13 08:23
Percent Solids: 66
Initial Volume: 15
Final Volume: 0.5
Extraction Method: 3510C

ESS Laboratory Work Order: 1308485
ESS Laboratory Sample ID: 1308485-05
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 8/23/13 9:00

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	ND (0.063)		8270D		5	08/26/13 10:27	CWH0331	CH32307
Acenaphthene	ND (0.063)		8270D		5	08/26/13 10:27	CWH0331	CH32307
Acenaphthylene	ND (0.063)		8270D		5	08/26/13 10:27	CWH0331	CH32307
Anthracene	ND (0.063)		8270D		5	08/26/13 10:27	CWH0331	CH32307
Benzo(a)anthracene	**0.114** (0.063)		8270D		5	08/26/13 10:27	CWH0331	CH32307
Benzo(a)pyrene	**0.124** (0.063)		8270D		5	08/26/13 10:27	CWH0331	CH32307
Benzo(b)fluoranthene	**0.202** (0.063)		8270D		5	08/26/13 10:27	CWH0331	CH32307
Benzo(g,h,i)perylene	**0.101** (0.063)		8270D		5	08/26/13 10:27	CWH0331	CH32307
Benzo(k)fluoranthene	**0.071** (0.063)		8270D		5	08/26/13 10:27	CWH0331	CH32307
Chrysene	**0.154** (0.063)		8270D		5	08/26/13 10:27	CWH0331	CH32307
Dibenzo(a,h)Anthracene	ND (0.063)		8270D		5	08/26/13 10:27	CWH0331	CH32307
Fluoranthene	**0.237** (0.063)		8270D		5	08/26/13 10:27	CWH0331	CH32307
Fluorene	ND (0.063)		8270D		5	08/26/13 10:27	CWH0331	CH32307
Indeno(1,2,3-cd)Pyrene	**0.116** (0.063)		8270D		5	08/26/13 10:27	CWH0331	CH32307
Naphthalene	ND (0.063)		8270D		5	08/26/13 10:27	CWH0331	CH32307
Phenanthrene	**0.093** (0.063)		8270D		5	08/26/13 10:27	CWH0331	CH32307
Pyrene	**0.212** (0.063)		8270D		5	08/26/13 10:27	CWH0331	CH32307

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*52 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*68 %*		*30-130*
Surrogate: Nitrobenzene-d5	*56 %*		*30-130*
Surrogate: p-Terphenyl-d14	*84 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-135T 0-0.5ft
Date Sampled: 08/06/13 08:23
Percent Solids: 66
Initial Volume: 24.8
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1308485
ESS Laboratory Sample ID: 1308485-05
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 8/23/13 9:30

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (22.9)		MADEP-EPH		1	TAJ	08/23/13 17:29	CWH0314	CH32306
C19-C36 Aliphatics1	ND (22.9)		MADEP-EPH		1	TAJ	08/23/13 17:29	CWH0314	CH32306
C11-C22 Unadjusted Aromatics1	ND (22.9)		EPH8270		1	VSC	08/23/13 17:01	CWH0313	CH32306
C11-C22 Aromatics1,2	ND (22.9)		EPH8270			VSC	08/23/13 17:01		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*72 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*55 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*75 %*		*40-140*
Surrogate: O-Terphenyl	*72 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-137T 0-0.5ft
Date Sampled: 08/06/13 08:30
Percent Solids: 49
Initial Volume: 20
Final Volume: 5
Extraction Method: 3546

ESS Laboratory Work Order: 1308485
ESS Laboratory Sample ID: 1308485-06
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 8/23/13 10:45

8081A Organochlorine Pesticides

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
4,4´-DDD	ND (0.0051)		8081B		1	08/27/13 17:31	CWH0348	CH32304
4,4´-DDE [2C]	**LC, P 0.0129** (0.0051)		8081B		1	08/27/13 17:31	CWH0348	CH32304
4,4´-DDT	**LC, P 0.0121** (0.0051)		8081B		1	08/27/13 17:31	CWH0348	CH32304
Aldrin	ND (0.0051)		8081B		1	08/27/13 17:31	CWH0348	CH32304
alpha-BHC	ND (0.0051)		8081B		1	08/27/13 17:31	CWH0348	CH32304
alpha-Chlordane	**0.0075** (0.0051)		8081B		1	08/27/13 17:31	CWH0348	CH32304
beta-BHC	ND (0.0051)		8081B		1	08/27/13 17:31	CWH0348	CH32304
Chlordane (Total)	ND (0.0408)		8081B		1	08/27/13 17:31	CWH0348	CH32304
delta-BHC	ND (0.0051)		8081B		1	08/27/13 17:31	CWH0348	CH32304
Dieldrin	ND (0.0051)		8081B		1	08/27/13 17:31	CWH0348	CH32304
Endosulfan I	ND (0.0051)		8081B		1	08/27/13 17:31	CWH0348	CH32304
Endosulfan II	ND (0.0051)		8081B		1	08/27/13 17:31	CWH0348	CH32304
Endosulfan Sulfate	ND (0.0051)		8081B		1	08/27/13 17:31	CWH0348	CH32304
Endrin	ND (0.0051)		8081B		1	08/27/13 17:31	CWH0348	CH32304
Endrin Ketone	**LC, P 0.0134** (0.0051)		8081B		1	08/27/13 17:31	CWH0348	CH32304
gamma-BHC (Lindane)	ND (0.0031)		8081B		1	08/27/13 17:31	CWH0348	CH32304
gamma-Chlordane	ND (0.0051)		8081B		1	08/27/13 17:31	CWH0348	CH32304
Heptachlor	ND (0.0051)		8081B		1	08/27/13 17:31	CWH0348	CH32304
Heptachlor Epoxide	ND (0.0051)		8081B		1	08/27/13 17:31	CWH0348	CH32304
Hexachlorobenzene [2C]	ND (0.0051)		8081B		1	08/27/13 17:31	CWH0348	CH32304
Methoxychlor	ND (0.0051)		8081B		1	08/27/13 17:31	CWH0348	CH32304
Toxaphene	ND (0.255)		8081B		1	08/27/13 17:31	CWH0348	CH32304
Toxaphene [2C]	ND (0.255)		8081B		1	08/27/13 17:31	CWH0348	CH32304

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*114 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*138 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*84 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*87 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC1 T 0-0.5ft
Date Sampled: 08/06/13 11:20
Percent Solids: 56
Initial Volume: 20.3
Final Volume: 5
Extraction Method: 3546

ESS Laboratory Work Order: 1308485
ESS Laboratory Sample ID: 1308485-07
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 8/23/13 10:45

8081A Organochlorine Pesticides

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
4,4´-DDD	ND (0.0044)		8081B		1	08/29/13 9:50	CWH0375	CH32304
4,4´-DDE [2C]	**LC, P 0.0123** (0.0044)		8081B		1	08/29/13 9:50	CWH0375	CH32304
4,4´-DDT	**LC, P 0.0085** (0.0044)		8081B		1	08/29/13 9:50	CWH0375	CH32304
Aldrin	ND (0.0044)		8081B		1	08/29/13 9:50	CWH0375	CH32304
alpha-BHC	ND (0.0044)		8081B		1	08/29/13 9:50	CWH0375	CH32304
alpha-Chlordane	ND (0.0044)		8081B		1	08/29/13 9:50	CWH0375	CH32304
beta-BHC	ND (0.0044)		8081B		1	08/29/13 9:50	CWH0375	CH32304
Chlordane (Total)	ND (0.0351)		8081B		1	08/29/13 9:50	CWH0375	CH32304
delta-BHC	ND (0.0044)		8081B		1	08/29/13 9:50	CWH0375	CH32304
Dieldrin	ND (0.0044)		8081B		1	08/29/13 9:50	CWH0375	CH32304
Endosulfan I	ND (0.0044)		8081B		1	08/29/13 9:50	CWH0375	CH32304
Endosulfan II	ND (0.0044)		8081B		1	08/29/13 9:50	CWH0375	CH32304
Endosulfan Sulfate	ND (0.0044)		8081B		1	08/29/13 9:50	CWH0375	CH32304
Endrin	ND (0.0044)		8081B		1	08/29/13 9:50	CWH0375	CH32304
Endrin Ketone	**LC, P 0.0053** (0.0044)		8081B		1	08/29/13 9:50	CWH0375	CH32304
gamma-BHC (Lindane)	ND (0.0026)		8081B		1	08/29/13 9:50	CWH0375	CH32304
gamma-Chlordane	ND (0.0044)		8081B		1	08/29/13 9:50	CWH0375	CH32304
Heptachlor	ND (0.0044)		8081B		1	08/29/13 9:50	CWH0375	CH32304
Heptachlor Epoxide	ND (0.0044)		8081B		1	08/29/13 9:50	CWH0375	CH32304
Hexachlorobenzene	ND (0.0044)		8081B		1	08/29/13 9:50	CWH0375	CH32304
Methoxychlor	ND (0.0044)		8081B		1	08/29/13 9:50	CWH0375	CH32304
Toxaphene	ND (0.219)		8081B		1	08/29/13 9:50	CWH0375	CH32304
Toxaphene [2C]	ND (0.219)		8081B		1	08/29/13 9:50	CWH0375	CH32304

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*206 %*	*SM*	*30-150*
Surrogate: Decachlorobiphenyl [2C]	*236 %*	*SM*	*30-150*
Surrogate: Tetrachloro-m-xylene	*133 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*143 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC2 T 0-0.5ft
Date Sampled: 08/06/13 11:26
Percent Solids: 26
Initial Volume: 19.6
Final Volume: 5
Extraction Method: 3546

ESS Laboratory Work Order: 1308485
ESS Laboratory Sample ID: 1308485-08
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 8/23/13 10:45

8081A Organochlorine Pesticides

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
4,4´-DDD [2C]	**LC, P 0.0446** (0.0097)		8081B		1	08/29/13 9:20	CWH0375	CH32304
4,4´-DDE	ND (0.0097)		8081B		1	08/29/13 9:20	CWH0375	CH32304
4,4´-DDT	**LC, P 0.261** (0.0484)		8081B		5	08/29/13 15:51	CWH0375	CH32304
Aldrin	ND (0.0097)		8081B		1	08/29/13 9:20	CWH0375	CH32304
alpha-BHC	ND (0.0097)		8081B		1	08/29/13 9:20	CWH0375	CH32304
alpha-Chlordane [2C]	ND (0.0097)		8081B		1	08/29/13 9:20	CWH0375	CH32304
beta-BHC	ND (0.0097)		8081B		1	08/29/13 9:20	CWH0375	CH32304
Chlordane (Total)	ND (0.0774)		8081B		1	08/29/13 9:20	CWH0375	CH32304
delta-BHC	ND (0.0097)		8081B		1	08/29/13 9:20	CWH0375	CH32304
Dieldrin	ND (0.0097)		8081B		1	08/29/13 9:20	CWH0375	CH32304
Endosulfan I	ND (0.0097)		8081B		1	08/29/13 9:20	CWH0375	CH32304
Endosulfan II	**LC, P 0.143** (0.0484)		8081B		5	08/29/13 15:51	CWH0375	CH32304
Endosulfan Sulfate	**LC, P 0.0324** (0.0097)		8081B		1	08/29/13 9:20	CWH0375	CH32304
Endrin	ND (0.0097)		8081B		1	08/29/13 9:20	CWH0375	CH32304
Endrin Ketone	ND (0.0097)		8081B		1	08/29/13 9:20	CWH0375	CH32304
gamma-BHC (Lindane)	ND (0.0058)		8081B		1	08/29/13 9:20	CWH0375	CH32304
gamma-Chlordane	ND (0.0097)		8081B		1	08/29/13 9:20	CWH0375	CH32304
Heptachlor	**LC, P 0.0435** (0.0097)		8081B		1	08/29/13 9:20	CWH0375	CH32304
Heptachlor Epoxide	ND (0.0097)		8081B		1	08/29/13 9:20	CWH0375	CH32304
Hexachlorobenzene	**0.0097** (0.0097)		8081B		1	08/29/13 9:20	CWH0375	CH32304
Methoxychlor	ND (0.0097)		8081B		1	08/29/13 9:20	CWH0375	CH32304
Toxaphene	ND (0.484)		8081B		1	08/29/13 9:20	CWH0375	CH32304
Toxaphene [2C]	ND (0.484)		8081B		1	08/29/13 9:20	CWH0375	CH32304

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*1950 %*	*SM*	*30-150*
Surrogate: Decachlorobiphenyl [2C]	*4310 %*	*SM*	*30-150*
Surrogate: Tetrachloro-m-xylene	*113 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*118 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett
Client Sample ID: GZ-LC3 T 0-0.5ft
Date Sampled: 08/06/13 11:36
Percent Solids: 55
Initial Volume: 20.1
Final Volume: 5
Extraction Method: 3546

ESS Laboratory Work Order: 1308485
ESS Laboratory Sample ID: 1308485-09
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 8/23/13 10:45

8081A Organochlorine Pesticides

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
4,4´-DDD	ND (0.0045)		8081B		1	08/29/13 14:21	CWH0375	CH32304
4,4´-DDE [2C]	**LC, P 0.0101** (0.0045)		8081B		1	08/29/13 14:21	CWH0375	CH32304
4,4´-DDT	**LC, P 0.0147** (0.0045)		8081B		1	08/29/13 14:21	CWH0375	CH32304
Aldrin	ND (0.0045)		8081B		1	08/29/13 14:21	CWH0375	CH32304
alpha-BHC	ND (0.0045)		8081B		1	08/29/13 14:21	CWH0375	CH32304
alpha-Chlordane	**0.0058** (0.0045)		8081B		1	08/29/13 14:21	CWH0375	CH32304
beta-BHC	ND (0.0045)		8081B		1	08/29/13 14:21	CWH0375	CH32304
Chlordane (Total)	ND (0.0360)		8081B		1	08/29/13 14:21	CWH0375	CH32304
delta-BHC	ND (0.0045)		8081B		1	08/29/13 14:21	CWH0375	CH32304
Dieldrin	ND (0.0045)		8081B		1	08/29/13 14:21	CWH0375	CH32304
Endosulfan I	ND (0.0045)		8081B		1	08/29/13 14:21	CWH0375	CH32304
Endosulfan II	**LC, P 0.0050** (0.0045)		8081B		1	08/29/13 14:21	CWH0375	CH32304
Endosulfan Sulfate	**LC, P** ND (0.0045)		8081B		1	08/29/13 14:21	CWH0375	CH32304
Endrin	ND (0.0045)		8081B		1	08/29/13 14:21	CWH0375	CH32304
Endrin Ketone	**LC, P 0.0093** (0.0045)		8081B		1	08/29/13 14:21	CWH0375	CH32304
gamma-BHC (Lindane)	ND (0.0027)		8081B		1	08/29/13 14:21	CWH0375	CH32304
gamma-Chlordane	ND (0.0045)		8081B		1	08/29/13 14:21	CWH0375	CH32304
Heptachlor	ND (0.0045)		8081B		1	08/29/13 14:21	CWH0375	CH32304
Heptachlor Epoxide	ND (0.0045)		8081B		1	08/29/13 14:21	CWH0375	CH32304
Hexachlorobenzene	ND (0.0045)		8081B		1	08/29/13 14:21	CWH0375	CH32304
Methoxychlor	ND (0.0045)		8081B		1	08/29/13 14:21	CWH0375	CH32304
Toxaphene	ND (0.225)		8081B		1	08/29/13 14:21	CWH0375	CH32304
Toxaphene [2C]	ND (0.225)		8081B		1	08/29/13 14:21	CWH0375	CH32304

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*177 %*	*SM*	*30-150*
Surrogate: Decachlorobiphenyl [2C]	*203 %*	*SM*	*30-150*
Surrogate: Tetrachloro-m-xylene	*119 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*120 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308485

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8081A Organochlorine Pesticides										
Batch CH32304 - 3546										
Blank										
4,4´-DDD	ND	0.0025	mg/kg wet							
4,4´-DDD [2C]	ND	0.0025	mg/kg wet							
4,4´-DDE	ND	0.0025	mg/kg wet							
4,4´-DDE [2C]	ND	0.0025	mg/kg wet							
4,4´-DDT	ND	0.0025	mg/kg wet							
4,4´-DDT [2C]	ND	0.0025	mg/kg wet							
Aldrin	ND	0.0025	mg/kg wet							
Aldrin [2C]	ND	0.0025	mg/kg wet							
alpha-BHC	ND	0.0025	mg/kg wet							
alpha-BHC [2C]	ND	0.0025	mg/kg wet							
alpha-Chlordane	ND	0.0025	mg/kg wet							
alpha-Chlordane [2C]	ND	0.0025	mg/kg wet							
beta-BHC	ND	0.0025	mg/kg wet							
beta-BHC [2C]	ND	0.0025	mg/kg wet							
Chlordane (Total)	ND	0.0200	mg/kg wet							
Chlordane (Total) [2C]	ND	0.0200	mg/kg wet							
delta-BHC	ND	0.0025	mg/kg wet							
delta-BHC [2C]	ND	0.0025	mg/kg wet							
Dieldrin	ND	0.0025	mg/kg wet							
Dieldrin [2C]	ND	0.0025	mg/kg wet							
Endosulfan I	ND	0.0025	mg/kg wet							
Endosulfan I [2C]	ND	0.0025	mg/kg wet							
Endosulfan II	ND	0.0025	mg/kg wet							
Endosulfan II [2C]	ND	0.0025	mg/kg wet							
Endosulfan Sulfate	ND	0.0025	mg/kg wet							
Endosulfan Sulfate [2C]	ND	0.0025	mg/kg wet							
Endrin	ND	0.0025	mg/kg wet							
Endrin [2C]	ND	0.0025	mg/kg wet							
Endrin Ketone	ND	0.0025	mg/kg wet							
Endrin Ketone [2C]	ND	0.0025	mg/kg wet							
gamma-BHC (Lindane)	ND	0.0015	mg/kg wet							
gamma-BHC (Lindane) [2C]	ND	0.0015	mg/kg wet							
gamma-Chlordane	ND	0.0025	mg/kg wet							
gamma-Chlordane [2C]	ND	0.0025	mg/kg wet							
Heptachlor	ND	0.0025	mg/kg wet							
Heptachlor [2C]	ND	0.0025	mg/kg wet							
Heptachlor Epoxide	ND	0.0025	mg/kg wet							
Heptachlor Epoxide [2C]	ND	0.0025	mg/kg wet							
Hexachlorobenzene	ND	0.0025	mg/kg wet							
Hexachlorobenzene [2C]	ND	0.0025	mg/kg wet							
Methoxychlor	ND	0.0025	mg/kg wet							
Methoxychlor [2C]	ND	0.0025	mg/kg wet							
Toxaphene	ND	0.125	mg/kg wet							
Toxaphene [2C]	ND	0.125	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308485

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8081A Organochlorine Pesticides										
Batch CH32304 - 3546										
Surrogate: Decachlorobiphenyl	*0.0121*		mg/kg wet	*0.01250*		*96*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0116*		mg/kg wet	*0.01250*		*93*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0107*		mg/kg wet	*0.01250*		*85*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0108*		mg/kg wet	*0.01250*		*87*	*30-150*			
LCS										
4,4´-DDD	0.0124	0.0025	mg/kg wet	0.01250		100	40-140			
4,4´-DDD [2C]	0.0124	0.0025	mg/kg wet	0.01250		99	40-140			
4,4´-DDE	0.0126	0.0025	mg/kg wet	0.01250		101	40-140			
4,4´-DDE [2C]	0.0129	0.0025	mg/kg wet	0.01250		103	40-140			
4,4´-DDT	0.0145	0.0025	mg/kg wet	0.01250		116	40-140			
4,4´-DDT [2C]	0.0149	0.0025	mg/kg wet	0.01250		119	40-140			
Aldrin	0.0127	0.0025	mg/kg wet	0.01250		102	40-140			
Aldrin [2C]	0.0130	0.0025	mg/kg wet	0.01250		104	40-140			
alpha-BHC	0.0123	0.0025	mg/kg wet	0.01250		98	40-140			
alpha-BHC [2C]	0.0125	0.0025	mg/kg wet	0.01250		100	40-140			
alpha-Chlordane	0.0123	0.0025	mg/kg wet	0.01250		99	40-140			
alpha-Chlordane [2C]	0.0129	0.0025	mg/kg wet	0.01250		103	40-140			
beta-BHC	0.0125	0.0025	mg/kg wet	0.01250		100	40-140			
beta-BHC [2C]	0.0127	0.0025	mg/kg wet	0.01250		101	40-140			
Chlordane (Total) [2C]	ND	0.0200	mg/kg wet				0-200			
delta-BHC	0.0125	0.0025	mg/kg wet	0.01250		100	40-140			
delta-BHC [2C]	0.0128	0.0025	mg/kg wet	0.01250		102	40-140			
Dieldrin	0.0129	0.0025	mg/kg wet	0.01250		103	40-140			
Dieldrin [2C]	0.0130	0.0025	mg/kg wet	0.01250		104	40-140			
Endosulfan I	0.0124	0.0025	mg/kg wet	0.01250		99	40-140			
Endosulfan I [2C]	0.0127	0.0025	mg/kg wet	0.01250		101	40-140			
Endosulfan II	0.0121	0.0025	mg/kg wet	0.01250		97	40-140			
Endosulfan II [2C]	0.0123	0.0025	mg/kg wet	0.01250		98	40-140			
Endosulfan Sulfate	0.0119	0.0025	mg/kg wet	0.01250		95	40-140			
Endosulfan Sulfate [2C]	0.0120	0.0025	mg/kg wet	0.01250		96	40-140			
Endrin	0.0145	0.0025	mg/kg wet	0.01250		116	40-140			
Endrin [2C]	0.0147	0.0025	mg/kg wet	0.01250		117	40-140			
Endrin Ketone	0.0125	0.0025	mg/kg wet	0.01250		100	40-140			
Endrin Ketone [2C]	0.0119	0.0025	mg/kg wet	0.01250		95	40-140			
gamma-BHC (Lindane)	0.0126	0.0015	mg/kg wet	0.01250		101	40-140			
gamma-BHC (Lindane) [2C]	0.0128	0.0015	mg/kg wet	0.01250		103	40-140			
gamma-Chlordane	0.0127	0.0025	mg/kg wet	0.01250		101	40-140			
gamma-Chlordane [2C]	0.0130	0.0025	mg/kg wet	0.01250		104	40-140			
Heptachlor	0.0122	0.0025	mg/kg wet	0.01250		98	40-140			
Heptachlor [2C]	0.0126	0.0025	mg/kg wet	0.01250		101	40-140			
Heptachlor Epoxide	0.0125	0.0025	mg/kg wet	0.01250		100	40-140			
Heptachlor Epoxide [2C]	0.0128	0.0025	mg/kg wet	0.01250		102	40-140			
Hexachlorobenzene	0.0116	0.0025	mg/kg wet	0.01250		93	40-140			
Hexachlorobenzene [2C]	0.0118	0.0025	mg/kg wet	0.01250		94	40-140			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308485

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8081A Organochlorine Pesticides										
Batch CH32304 - 3546										
Methoxychlor	0.0133	0.0025	mg/kg wet	0.01250		107	40-140			
Methoxychlor [2C]	0.0137	0.0025	mg/kg wet	0.01250		109	40-140			
Surrogate: Decachlorobiphenyl	*0.0148*		mg/kg wet	*0.01250*		*118*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0140*		mg/kg wet	*0.01250*		*112*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0118*		mg/kg wet	*0.01250*		*95*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0121*		mg/kg wet	*0.01250*		*97*	*30-150*			
LCS Dup										
4,4´-DDD	0.0137	0.0025	mg/kg wet	0.01250		110	40-140	10	30	
4,4´-DDD [2C]	0.0136	0.0025	mg/kg wet	0.01250		108	40-140	9	30	
4,4´-DDE	0.0135	0.0025	mg/kg wet	0.01250		108	40-140	7	30	
4,4´-DDE [2C]	0.0137	0.0025	mg/kg wet	0.01250		110	40-140	6	30	
4,4´-DDT	0.0161	0.0025	mg/kg wet	0.01250		129	40-140	10	30	
4,4´-DDT [2C]	0.0166	0.0025	mg/kg wet	0.01250		133	40-140	11	30	
Aldrin	0.0129	0.0025	mg/kg wet	0.01250		103	40-140	1	30	
Aldrin [2C]	0.0131	0.0025	mg/kg wet	0.01250		105	40-140	1	30	
alpha-BHC	0.0125	0.0025	mg/kg wet	0.01250		100	40-140	2	30	
alpha-BHC [2C]	0.0128	0.0025	mg/kg wet	0.01250		103	40-140	2	30	
alpha-Chlordane	0.0122	0.0025	mg/kg wet	0.01250		98	40-140	1	30	
alpha-Chlordane [2C]	0.0128	0.0025	mg/kg wet	0.01250		103	40-140	0.3	30	
beta-BHC	0.0129	0.0025	mg/kg wet	0.01250		103	40-140	3	30	
beta-BHC [2C]	0.0130	0.0025	mg/kg wet	0.01250		104	40-140	3	30	
Chlordane (Total) [2C]	ND	0.0200	mg/kg wet				0-200		200	
delta-BHC	0.0131	0.0025	mg/kg wet	0.01250		104	40-140	4	30	
delta-BHC [2C]	0.0133	0.0025	mg/kg wet	0.01250		106	40-140	4	30	
Dieldrin	0.0132	0.0025	mg/kg wet	0.01250		106	40-140	2	30	
Dieldrin [2C]	0.0134	0.0025	mg/kg wet	0.01250		107	40-140	3	30	
Endosulfan I	0.0127	0.0025	mg/kg wet	0.01250		101	40-140	2	30	
Endosulfan I [2C]	0.0129	0.0025	mg/kg wet	0.01250		103	40-140	2	30	
Endosulfan II	0.0130	0.0025	mg/kg wet	0.01250		104	40-140	8	30	
Endosulfan II [2C]	0.0132	0.0025	mg/kg wet	0.01250		105	40-140	7	30	
Endosulfan Sulfate	0.0129	0.0025	mg/kg wet	0.01250		103	40-140	8	30	
Endosulfan Sulfate [2C]	0.0132	0.0025	mg/kg wet	0.01250		105	40-140	9	30	
Endrin	0.0151	0.0025	mg/kg wet	0.01250		121	40-140	4	30	
Endrin [2C]	0.0153	0.0025	mg/kg wet	0.01250		123	40-140	4	30	
Endrin Ketone	0.0141	0.0025	mg/kg wet	0.01250		113	40-140	12	30	
Endrin Ketone [2C]	0.0134	0.0025	mg/kg wet	0.01250		107	40-140	12	30	
gamma-BHC (Lindane)	0.0128	0.0015	mg/kg wet	0.01250		103	40-140	2	30	
gamma-BHC (Lindane) [2C]	0.0130	0.0015	mg/kg wet	0.01250		104	40-140	2	30	
gamma-Chlordane	0.0128	0.0025	mg/kg wet	0.01250		103	40-140	1	30	
gamma-Chlordane [2C]	0.0132	0.0025	mg/kg wet	0.01250		105	40-140	1	30	
Heptachlor	0.0125	0.0025	mg/kg wet	0.01250		100	40-140	2	30	
Heptachlor [2C]	0.0128	0.0025	mg/kg wet	0.01250		103	40-140	2	30	
Heptachlor Epoxide	0.0126	0.0025	mg/kg wet	0.01250		101	40-140	1	30	
Heptachlor Epoxide [2C]	0.0129	0.0025	mg/kg wet	0.01250		103	40-140	1	30	

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308485

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8081A Organochlorine Pesticides										
Batch CH32304 - 3546										
Hexachlorobenzene	0.0118	0.0025	mg/kg wet	0.01250		94	40-140	2	30	
Hexachlorobenzene [2C]	0.0121	0.0025	mg/kg wet	0.01250		97	40-140	3	30	
Methoxychlor	0.0154	0.0025	mg/kg wet	0.01250		123	40-140	14	30	
Methoxychlor [2C]	0.0156	0.0025	mg/kg wet	0.01250		125	40-140	13	30	
Surrogate: Decachlorobiphenyl	*0.0162*		mg/kg wet	*0.01250*		*129*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0155*		mg/kg wet	*0.01250*		*124*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0118*		mg/kg wet	*0.01250*		*94*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0121*		mg/kg wet	*0.01250*		*97*	*30-150*			
8082A Polychlorinated Biphenyls (PCB)										
Batch CH32939 - 3540										
Blank										
Aroclor 1016	ND	0.0500	mg/kg wet							
Aroclor 1016 (1)	ND	0.0500	mg/kg wet							
Aroclor 1016 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (2)	ND	0.0500	mg/kg wet							
Aroclor 1016 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (3)	ND	0.0500	mg/kg wet							
Aroclor 1016 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (4)	ND	0.0500	mg/kg wet							
Aroclor 1016 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (5)	ND	0.0500	mg/kg wet							
Aroclor 1016 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221	ND	0.0500	mg/kg wet							
Aroclor 1221 (1)	ND	0.0500	mg/kg wet							
Aroclor 1221 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (2)	ND	0.0500	mg/kg wet							
Aroclor 1221 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (3)	ND	0.0500	mg/kg wet							
Aroclor 1221 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (4)	ND	0.0500	mg/kg wet							
Aroclor 1221 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (5)	ND	0.0500	mg/kg wet							
Aroclor 1221 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232	ND	0.0500	mg/kg wet							
Aroclor 1232 (1)	ND	0.0500	mg/kg wet							
Aroclor 1232 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (2)	ND	0.0500	mg/kg wet							
Aroclor 1232 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (3)	ND	0.0500	mg/kg wet							
Aroclor 1232 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (4)	ND	0.0500	mg/kg wet							
Aroclor 1232 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (5)	ND	0.0500	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308485

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CH32939 - 3540										
Aroclor 1232 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242	ND	0.0500	mg/kg wet							
Aroclor 1242 (1)	ND	0.0500	mg/kg wet							
Aroclor 1242 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (2)	ND	0.0500	mg/kg wet							
Aroclor 1242 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (3)	ND	0.0500	mg/kg wet							
Aroclor 1242 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (4)	ND	0.0500	mg/kg wet							
Aroclor 1242 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (5)	ND	0.0500	mg/kg wet							
Aroclor 1242 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248	ND	0.0500	mg/kg wet							
Aroclor 1248 (1)	ND	0.0500	mg/kg wet							
Aroclor 1248 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (2)	ND	0.0500	mg/kg wet							
Aroclor 1248 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (3)	ND	0.0500	mg/kg wet							
Aroclor 1248 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (4)	ND	0.0500	mg/kg wet							
Aroclor 1248 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (5)	ND	0.0500	mg/kg wet							
Aroclor 1248 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254	ND	0.0500	mg/kg wet							
Aroclor 1254 (1)	ND	0.0500	mg/kg wet							
Aroclor 1254 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (2)	ND	0.0500	mg/kg wet							
Aroclor 1254 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (3)	ND	0.0500	mg/kg wet							
Aroclor 1254 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (4)	ND	0.0500	mg/kg wet							
Aroclor 1254 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (5)	ND	0.0500	mg/kg wet							
Aroclor 1254 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260	ND	0.0500	mg/kg wet							
Aroclor 1260 (1)	ND	0.0500	mg/kg wet							
Aroclor 1260 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (2)	ND	0.0500	mg/kg wet							
Aroclor 1260 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (3)	ND	0.0500	mg/kg wet							
Aroclor 1260 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (4)	ND	0.0500	mg/kg wet							
Aroclor 1260 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (5)	ND	0.0500	mg/kg wet							
Aroclor 1260 (5) [2C]	ND	0.0500	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308485

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CH32939 - 3540										
Aroclor 1262	ND	0.0500	mg/kg wet							
Aroclor 1262 (1)	ND	0.0500	mg/kg wet							
Aroclor 1262 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (2)	ND	0.0500	mg/kg wet							
Aroclor 1262 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (3)	ND	0.0500	mg/kg wet							
Aroclor 1262 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (4)	ND	0.0500	mg/kg wet							
Aroclor 1262 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (5)	ND	0.0500	mg/kg wet							
Aroclor 1262 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268	ND	0.0500	mg/kg wet							
Aroclor 1268 (1)	ND	0.0500	mg/kg wet							
Aroclor 1268 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (2)	ND	0.0500	mg/kg wet							
Aroclor 1268 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (3)	ND	0.0500	mg/kg wet							
Aroclor 1268 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (4)	ND	0.0500	mg/kg wet							
Aroclor 1268 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (5)	ND	0.0500	mg/kg wet							
Aroclor 1268 (5) [2C]	ND	0.0500	mg/kg wet							
Surrogate: Decachlorobiphenyl	*0.0266*		mg/kg wet	*0.02500*		*107*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0253*		mg/kg wet	*0.02500*		*101*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0215*		mg/kg wet	*0.02500*		*86*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0254*		mg/kg wet	*0.02500*		*102*	*30-150*			
LCS										
Aroclor 1016	0.557	0.0500	mg/kg wet	0.5000		111	40-140			
Aroclor 1260	0.554	0.0500	mg/kg wet	0.5000		111	40-140			
Surrogate: Decachlorobiphenyl	*0.0277*		mg/kg wet	*0.02500*		*111*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0264*		mg/kg wet	*0.02500*		*106*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0230*		mg/kg wet	*0.02500*		*92*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0263*		mg/kg wet	*0.02500*		*105*	*30-150*			
LCS Dup										
Aroclor 1016	0.541	0.0500	mg/kg wet	0.5000		108	40-140	3	30	
Aroclor 1260	0.556	0.0500	mg/kg wet	0.5000		111	40-140	0.3	30	
Surrogate: Decachlorobiphenyl	*0.0274*		mg/kg wet	*0.02500*		*110*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0261*		mg/kg wet	*0.02500*		*104*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0211*		mg/kg wet	*0.02500*		*84*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0237*		mg/kg wet	*0.02500*		*95*	*30-150*			
8270D Semi-Volatile Organic Compounds										
Batch CH32305 - 3546										

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308485

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D Semi-Volatile Organic Compounds										
Batch CH32305 - 3546										
Blank										
1,2,4-Trichlorobenzene	ND	0.333	mg/kg wet							
1,2-Dichlorobenzene	ND	0.333	mg/kg wet							
1,3-Dichlorobenzene	ND	0.333	mg/kg wet							
1,4-Dichlorobenzene	ND	0.333	mg/kg wet							
2-Methylnaphthalene	ND	0.333	mg/kg wet							
2-Methylphenol	ND	0.333	mg/kg wet							
Acenaphthene	ND	0.333	mg/kg wet							
Acenaphthylene	ND	0.333	mg/kg wet							
Anthracene	ND	0.333	mg/kg wet							
Benzo(a)anthracene	ND	0.333	mg/kg wet							
Benzo(a)pyrene	ND	0.167	mg/kg wet							
Benzo(b)fluoranthene	ND	0.333	mg/kg wet							
Benzo(g,h,i)perylene	ND	0.333	mg/kg wet							
Benzo(k)fluoranthene	ND	0.333	mg/kg wet							
bis(2-Ethylhexyl)phthalate	ND	0.333	mg/kg wet							
Butylbenzylphthalate	ND	0.333	mg/kg wet							
Carbazole	ND	0.333	mg/kg wet							
Chrysene	ND	0.167	mg/kg wet							
Dibenzo(a,h)Anthracene	ND	0.167	mg/kg wet							
Dibenzofuran	ND	0.333	mg/kg wet							
Diethylphthalate	ND	0.333	mg/kg wet							
Dimethylphthalate	ND	0.333	mg/kg wet							
Di-n-butylphthalate	ND	0.333	mg/kg wet							
Di-n-octylphthalate	ND	0.333	mg/kg wet							
Fluoranthene	ND	0.333	mg/kg wet							
Fluorene	ND	0.333	mg/kg wet							
Hexachlorobenzene	ND	0.333	mg/kg wet							
Hexachlorocyclopentadiene	ND	1.67	mg/kg wet							
Indeno(1,2,3-cd)Pyrene	ND	0.333	mg/kg wet							
Naphthalene	ND	0.333	mg/kg wet							
Phenanthrene	ND	0.333	mg/kg wet							
Phenol	ND	0.333	mg/kg wet							
Pyrene	ND	0.333	mg/kg wet							
Surrogate: 1,2-Dichlorobenzene-d4	*2.55*		mg/kg wet	*3.333*		*77*	*30-130*			
Surrogate: 2,4,6-Tribromophenol	*3.92*		mg/kg wet	*5.000*		*78*	*30-130*			
Surrogate: 2-Chlorophenol-d4	*3.84*		mg/kg wet	*5.000*		*77*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*2.62*		mg/kg wet	*3.333*		*79*	*30-130*			
Surrogate: 2-Fluorophenol	*3.74*		mg/kg wet	*5.000*		*75*	*30-130*			
Surrogate: Nitrobenzene-d5	*2.55*		mg/kg wet	*3.333*		*77*	*30-130*			
Surrogate: Phenol-d6	*3.96*		mg/kg wet	*5.000*		*79*	*30-130*			
Surrogate: p-Terphenyl-d14	*3.08*		mg/kg wet	*3.333*		*92*	*30-130*			
LCS										
1,2,4-Trichlorobenzene	2.36	0.333	mg/kg wet	3.333		71	40-140			
1,2-Dichlorobenzene	2.17	0.333	mg/kg wet	3.333		65	40-140			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308485

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D Semi-Volatile Organic Compounds										
Batch CH32305 - 3546										
1,3-Dichlorobenzene	2.16	0.333	mg/kg wet	3.333		65	40-140			
1,4-Dichlorobenzene	2.20	0.333	mg/kg wet	3.333		66	40-140			
2-Methylnaphthalene	2.49	0.333	mg/kg wet	3.333		75	40-140			
2-Methylphenol	2.23	0.333	mg/kg wet	3.333		67	30-130			
Acenaphthene	2.51	0.333	mg/kg wet	3.333		75	40-140			
Acenaphthylene	2.29	0.333	mg/kg wet	3.333		69	40-140			
Anthracene	2.82	0.333	mg/kg wet	3.333		84	40-140			
Benzo(a)anthracene	2.78	0.333	mg/kg wet	3.333		84	40-140			
Benzo(a)pyrene	2.68	0.167	mg/kg wet	3.333		81	40-140			
Benzo(b)fluoranthene	2.67	0.333	mg/kg wet	3.333		80	40-140			
Benzo(g,h,i)perylene	2.77	0.333	mg/kg wet	3.333		83	40-140			
Benzo(k)fluoranthene	2.99	0.333	mg/kg wet	3.333		90	40-140			
bis(2-Ethylhexyl)phthalate	2.63	0.333	mg/kg wet	3.333		79	40-140			
Butylbenzylphthalate	2.85	0.333	mg/kg wet	3.333		85	40-140			
Carbazole	2.77	0.333	mg/kg wet	3.333		83	40-140			
Chrysene	2.87	0.167	mg/kg wet	3.333		86	40-140			
Dibenzo(a,h)Anthracene	2.73	0.167	mg/kg wet	3.333		82	40-140			
Dibenzofuran	2.50	0.333	mg/kg wet	3.333		75	40-140			
Diethylphthalate	2.64	0.333	mg/kg wet	3.333		79	40-140			
Dimethylphthalate	2.55	0.333	mg/kg wet	3.333		76	40-140			
Di-n-butylphthalate	2.81	0.333	mg/kg wet	3.333		84	40-140			
Di-n-octylphthalate	2.79	0.333	mg/kg wet	3.333		84	40-140			
Fluoranthene	2.81	0.333	mg/kg wet	3.333		84	40-140			
Fluorene	2.60	0.333	mg/kg wet	3.333		78	40-140			
Hexachlorobenzene	2.76	0.333	mg/kg wet	3.333		83	40-140			
Hexachlorocyclopentadiene	1.58	1.67	mg/kg wet	3.333		47	40-140			
Indeno(1,2,3-cd)Pyrene	2.79	0.333	mg/kg wet	3.333		84	40-140			
Naphthalene	2.42	0.333	mg/kg wet	3.333		73	40-140			
Phenanthrene	2.83	0.333	mg/kg wet	3.333		85	40-140			
Phenol	2.20	0.333	mg/kg wet	3.333		66	30-130			
Pyrene	3.01	0.333	mg/kg wet	3.333		90	40-140			
Surrogate: 1,2-Dichlorobenzene-d4	*2.41*		mg/kg wet	*3.333*		*72*	*30-130*			
Surrogate: 2,4,6-Tribromophenol	*4.73*		mg/kg wet	*5.000*		*95*	*30-130*			
Surrogate: 2-Chlorophenol-d4	*3.59*		mg/kg wet	*5.000*		*72*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*2.67*		mg/kg wet	*3.333*		*80*	*30-130*			
Surrogate: 2-Fluorophenol	*3.51*		mg/kg wet	*5.000*		*70*	*30-130*			
Surrogate: Nitrobenzene-d5	*2.53*		mg/kg wet	*3.333*		*76*	*30-130*			
Surrogate: Phenol-d6	*3.72*		mg/kg wet	*5.000*		*74*	*30-130*			
Surrogate: p-Terphenyl-d14	*2.92*		mg/kg wet	*3.333*		*87*	*30-130*			
LCS Dup										
1,2,4-Trichlorobenzene	2.13	0.333	mg/kg wet	3.333		64	40-140	10	30	
1,2-Dichlorobenzene	2.00	0.333	mg/kg wet	3.333		60	40-140	8	30	
1,3-Dichlorobenzene	1.98	0.333	mg/kg wet	3.333		59	40-140	9	30	
1,4-Dichlorobenzene	2.04	0.333	mg/kg wet	3.333		61	40-140	8	30	
2-Methylnaphthalene	2.35	0.333	mg/kg wet	3.333		71	40-140	6	30	

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308485

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D Semi-Volatile Organic Compounds										
Batch CH32305 - 3546										
2-Methylphenol	1.99	0.333	mg/kg wet	3.333		60	30-130	11	30	
Acenaphthene	2.34	0.333	mg/kg wet	3.333		70	40-140	7	30	
Acenaphthylene	2.16	0.333	mg/kg wet	3.333		65	40-140	6	30	
Anthracene	2.81	0.333	mg/kg wet	3.333		84	40-140	0.2	30	
Benzo(a)anthracene	2.87	0.333	mg/kg wet	3.333		86	40-140	3	30	
Benzo(a)pyrene	2.52	0.167	mg/kg wet	3.333		76	40-140	6	30	
Benzo(b)fluoranthene	2.79	0.333	mg/kg wet	3.333		84	40-140	5	30	
Benzo(g,h,i)perylene	2.73	0.333	mg/kg wet	3.333		82	40-140	1	30	
Benzo(k)fluoranthene	2.70	0.333	mg/kg wet	3.333		81	40-140	10	30	
bis(2-Ethylhexyl)phthalate	2.57	0.333	mg/kg wet	3.333		77	40-140	2	30	
Butylbenzylphthalate	2.73	0.333	mg/kg wet	3.333		82	40-140	4	30	
Carbazole	3.05	0.333	mg/kg wet	3.333		91	40-140	10	30	
Chrysene	2.82	0.167	mg/kg wet	3.333		85	40-140	2	30	
Dibenzo(a,h)Anthracene	2.64	0.167	mg/kg wet	3.333		79	40-140	4	30	
Dibenzofuran	2.36	0.333	mg/kg wet	3.333		71	40-140	6	30	
Diethylphthalate	2.59	0.333	mg/kg wet	3.333		78	40-140	2	30	
Dimethylphthalate	2.49	0.333	mg/kg wet	3.333		75	40-140	2	30	
Di-n-butylphthalate	3.02	0.333	mg/kg wet	3.333		91	40-140	7	30	
Di-n-octylphthalate	2.68	0.333	mg/kg wet	3.333		81	40-140	4	30	
Fluoranthene	3.10	0.333	mg/kg wet	3.333		93	40-140	10	30	
Fluorene	2.48	0.333	mg/kg wet	3.333		75	40-140	5	30	
Hexachlorobenzene	3.06	0.333	mg/kg wet	3.333		92	40-140	10	30	
Hexachlorocyclopentadiene	1.40	1.67	mg/kg wet	3.333		42	40-140	12	30	
Indeno(1,2,3-cd)Pyrene	2.81	0.333	mg/kg wet	3.333		84	40-140	0.5	30	
Naphthalene	2.18	0.333	mg/kg wet	3.333		65	40-140	10	30	
Phenanthrene	2.76	0.333	mg/kg wet	3.333		83	40-140	2	30	
Phenol	2.00	0.333	mg/kg wet	3.333		60	30-130	9	30	
Pyrene	2.76	0.333	mg/kg wet	3.333		83	40-140	9	30	
Surrogate: 1,2-Dichlorobenzene-d4	*2.12*		mg/kg wet	*3.333*		*64*	*30-130*			
Surrogate: 2,4,6-Tribromophenol	*4.94*		mg/kg wet	*5.000*		*99*	*30-130*			
Surrogate: 2-Chlorophenol-d4	*3.16*		mg/kg wet	*5.000*		*63*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*2.11*		mg/kg wet	*3.333*		*63*	*30-130*			
Surrogate: 2-Fluorophenol	*2.97*		mg/kg wet	*5.000*		*59*	*30-130*			
Surrogate: Nitrobenzene-d5	*2.34*		mg/kg wet	*3.333*		*70*	*30-130*			
Surrogate: Phenol-d6	*3.22*		mg/kg wet	*5.000*		*64*	*30-130*			
Surrogate: p-Terphenyl-d14	*2.80*		mg/kg wet	*3.333*		*84*	*30-130*			
8270D(SIM) Polynuclear Aromatic Hydrocarbons										
Batch CH32307 - 3510C										
Blank										
2-Methylnaphthalene	ND	0.017	mg/kg wet							
Acenaphthene	ND	0.017	mg/kg wet							
Acenaphthylene	ND	0.017	mg/kg wet							
Anthracene	ND	0.017	mg/kg wet							
Benzo(a)anthracene	ND	0.017	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308485

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D(SIM) Polynuclear Aromatic Hydrocarbons										
Batch CH32307 - 3510C										
Benzo(a)pyrene	ND	0.017	mg/kg wet							
Benzo(b)fluoranthene	ND	0.017	mg/kg wet							
Benzo(g,h,i)perylene	ND	0.017	mg/kg wet							
Benzo(k)fluoranthene	ND	0.017	mg/kg wet							
Chrysene	ND	0.017	mg/kg wet							
Dibenzo(a,h)Anthracene	ND	0.017	mg/kg wet							
Fluoranthene	ND	0.017	mg/kg wet							
Fluorene	ND	0.017	mg/kg wet							
Indeno(1,2,3-cd)Pyrene	ND	0.017	mg/kg wet							
Naphthalene	ND	0.017	mg/kg wet							
Phenanthrene	ND	0.017	mg/kg wet							
Pyrene	ND	0.017	mg/kg wet							
Surrogate: 1,2-Dichlorobenzene-d4	*0.199*		mg/kg wet	*0.3333*		*60*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*0.243*		mg/kg wet	*0.3333*		*73*	*30-130*			
Surrogate: Nitrobenzene-d5	*0.211*		mg/kg wet	*0.3333*		*63*	*30-130*			
Surrogate: p-Terphenyl-d14	*0.309*		mg/kg wet	*0.3333*		*93*	*30-130*			
LCS										
2-Methylnaphthalene	0.195	0.017	mg/kg wet	0.2667		73	40-140			
Acenaphthene	0.206	0.017	mg/kg wet	0.2667		77	40-140			
Acenaphthylene	0.194	0.017	mg/kg wet	0.2667		73	40-140			
Anthracene	0.222	0.017	mg/kg wet	0.2667		83	40-140			
Benzo(a)anthracene	0.223	0.017	mg/kg wet	0.2667		84	40-140			
Benzo(a)pyrene	0.224	0.017	mg/kg wet	0.2667		84	40-140			
Benzo(b)fluoranthene	0.243	0.017	mg/kg wet	0.2667		91	40-140			
Benzo(g,h,i)perylene	0.240	0.017	mg/kg wet	0.2667		90	40-140			
Benzo(k)fluoranthene	0.234	0.017	mg/kg wet	0.2667		88	40-140			
Chrysene	0.234	0.017	mg/kg wet	0.2667		88	40-140			
Dibenzo(a,h)Anthracene	0.258	0.017	mg/kg wet	0.2667		97	40-140			
Fluoranthene	0.235	0.017	mg/kg wet	0.2667		88	40-140			
Fluorene	0.214	0.017	mg/kg wet	0.2667		80	40-140			
Indeno(1,2,3-cd)Pyrene	0.242	0.017	mg/kg wet	0.2667		91	40-140			
Naphthalene	0.186	0.017	mg/kg wet	0.2667		70	40-140			
Phenanthrene	0.218	0.017	mg/kg wet	0.2667		82	40-140			
Pyrene	0.234	0.017	mg/kg wet	0.2667		88	40-140			
Surrogate: 1,2-Dichlorobenzene-d4	*0.224*		mg/kg wet	*0.3333*		*67*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*0.272*		mg/kg wet	*0.3333*		*82*	*30-130*			
Surrogate: Nitrobenzene-d5	*0.242*		mg/kg wet	*0.3333*		*73*	*30-130*			
Surrogate: p-Terphenyl-d14	*0.322*		mg/kg wet	*0.3333*		*97*	*30-130*			
LCS Dup										
2-Methylnaphthalene	0.148	0.017	mg/kg wet	0.2667		56	40-140	27	30	
Acenaphthene	0.159	0.017	mg/kg wet	0.2667		60	40-140	25	30	
Acenaphthylene	0.149	0.017	mg/kg wet	0.2667		56	40-140	26	30	
Anthracene	0.175	0.017	mg/kg wet	0.2667		66	40-140	24	30	
Benzo(a)anthracene	0.168	0.017	mg/kg wet	0.2667		63	40-140	28	30	
Benzo(a)pyrene	0.165	0.017	mg/kg wet	0.2667		62	40-140	30	30	

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308485

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D(SIM) Polynuclear Aromatic Hydrocarbons										
Batch CH32307 - 3510C										
Benzo(b)fluoranthene	0.176	0.017	mg/kg wet	0.2667		66	40-140	32	30	D+
Benzo(g,h,i)perylene	0.174	0.017	mg/kg wet	0.2667		65	40-140	32	30	D+
Benzo(k)fluoranthene	0.181	0.017	mg/kg wet	0.2667		68	40-140	25	30	
Chrysene	0.173	0.017	mg/kg wet	0.2667		65	40-140	30	30	
Dibenzo(a,h)Anthracene	0.190	0.017	mg/kg wet	0.2667		71	40-140	30	30	
Fluoranthene	0.173	0.017	mg/kg wet	0.2667		65	40-140	31	30	D+
Fluorene	0.168	0.017	mg/kg wet	0.2667		63	40-140	24	30	
Indeno(1,2,3-cd)Pyrene	0.182	0.017	mg/kg wet	0.2667		68	40-140	28	30	
Naphthalene	0.141	0.017	mg/kg wet	0.2667		53	40-140	27	30	
Phenanthrene	0.170	0.017	mg/kg wet	0.2667		64	40-140	25	30	
Pyrene	0.176	0.017	mg/kg wet	0.2667		66	40-140	28	30	
Surrogate: 1,2-Dichlorobenzene-d4	*0.158*		mg/kg wet	*0.3333*		*47*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*0.197*		mg/kg wet	*0.3333*		*59*	*30-130*			
Surrogate: Nitrobenzene-d5	*0.174*		mg/kg wet	*0.3333*		*52*	*30-130*			
Surrogate: p-Terphenyl-d14	*0.233*		mg/kg wet	*0.3333*		*70*	*30-130*			
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CH32306 - 3546										
Blank										
C19-C36 Aliphatics1	ND	15.0	mg/kg wet							
C9-C18 Aliphatics1	ND	15.0	mg/kg wet							
Decane (C10)	ND	0.5	mg/kg wet							
Docosane (C22)	ND	0.5	mg/kg wet							
Dodecane (C12)	ND	0.5	mg/kg wet							
Eicosane (C20)	ND	0.5	mg/kg wet							
Hexacosane (C26)	ND	0.5	mg/kg wet							
Hexadecane (C16)	ND	0.5	mg/kg wet							
Hexatriacontane (C36)	ND	0.5	mg/kg wet							
Nonadecane (C19)	ND	0.5	mg/kg wet							
Nonane (C9)	ND	0.5	mg/kg wet							
Octacosane (C28)	ND	0.5	mg/kg wet							
Octadecane (C18)	ND	0.5	mg/kg wet							
Tetracosane (C24)	ND	0.5	mg/kg wet							
Tetradecane (C14)	ND	0.5	mg/kg wet							
Triacontane (C30)	ND	0.5	mg/kg wet							
Surrogate: 1-Chlorooctadecane	*1.33*		mg/kg wet	*2.000*		*67*	*40-140*			
Blank										
2-Methylnaphthalene	ND	0.20	mg/kg wet							
Acenaphthene	ND	0.40	mg/kg wet							
Acenaphthylene	ND	0.20	mg/kg wet							
Anthracene	ND	0.40	mg/kg wet							
Benzo(a)anthracene	ND	0.40	mg/kg wet							
Benzo(a)pyrene	ND	0.40	mg/kg wet							
Benzo(b)fluoranthene	ND	0.40	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308485

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CH32306 - 3546										
Benzo(g,h,i)perylene	ND	0.40	mg/kg wet							
Benzo(k)fluoranthene	ND	0.40	mg/kg wet							
C11-C22 Unadjusted Aromatics1	ND	15.0	mg/kg wet							
Chrysene	ND	0.40	mg/kg wet							
Dibenzo(a,h)Anthracene	ND	0.20	mg/kg wet							
Fluoranthene	ND	0.40	mg/kg wet							
Fluorene	ND	0.40	mg/kg wet							
Indeno(1,2,3-cd)Pyrene	ND	0.40	mg/kg wet							
Naphthalene	ND	0.40	mg/kg wet							
Phenanthrene	ND	0.40	mg/kg wet							
Pyrene	ND	0.40	mg/kg wet							
Surrogate: 2-Bromonaphthalene	*1.25*		mg/kg wet	*2.000*		*63*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*1.36*		mg/kg wet	*2.000*		*68*	*40-140*			
Surrogate: O-Terphenyl	*1.17*		mg/kg wet	*2.000*		*58*	*40-140*			
LCS										
C19-C36 Aliphatics1	13.2	15.0	mg/kg wet	16.00		83	40-140			
C9-C18 Aliphatics1	8.1	15.0	mg/kg wet	12.00		67	40-140			
Decane (C10)	0.9	0.5	mg/kg wet	2.000		44	40-140			
Docosane (C22)	1.6	0.5	mg/kg wet	2.000		79	40-140			
Dodecane (C12)	1.0	0.5	mg/kg wet	2.000		49	40-140			
Eicosane (C20)	1.5	0.5	mg/kg wet	2.000		77	40-140			
Hexacosane (C26)	1.6	0.5	mg/kg wet	2.000		79	40-140			
Hexadecane (C16)	1.3	0.5	mg/kg wet	2.000		64	40-140			
Hexatriacontane (C36)	1.5	0.5	mg/kg wet	2.000		77	40-140			
Nonadecane (C19)	1.5	0.5	mg/kg wet	2.000		75	40-140			
Nonane (C9)	0.7	0.5	mg/kg wet	2.000		35	30-140			
Octacosane (C28)	1.6	0.5	mg/kg wet	2.000		80	40-140			
Octadecane (C18)	1.4	0.5	mg/kg wet	2.000		72	40-140			
Tetracosane (C24)	1.6	0.5	mg/kg wet	2.000		79	40-140			
Tetradecane (C14)	1.1	0.5	mg/kg wet	2.000		55	40-140			
Triacontane (C30)	1.6	0.5	mg/kg wet	2.000		79	40-140			
Surrogate: 1-Chlorooctadecane	*1.54*		mg/kg wet	*2.000*		*77*	*40-140*			
LCS										
2-Methylnaphthalene	0.99	0.20	mg/kg wet	2.000		49	40-140			
Acenaphthene	1.19	0.40	mg/kg wet	2.000		60	40-140			
Acenaphthylene	1.02	0.20	mg/kg wet	2.000		51	40-140			
Anthracene	1.15	0.40	mg/kg wet	2.000		57	40-140			
Benzo(a)anthracene	1.23	0.40	mg/kg wet	2.000		61	40-140			
Benzo(a)pyrene	1.39	0.40	mg/kg wet	2.000		69	40-140			
Benzo(b)fluoranthene	1.38	0.40	mg/kg wet	2.000		69	40-140			
Benzo(g,h,i)perylene	1.29	0.40	mg/kg wet	2.000		64	40-140			
Benzo(k)fluoranthene	1.39	0.40	mg/kg wet	2.000		69	40-140			
C11-C22 Unadjusted Aromatics1	23.2	15.0	mg/kg wet	34.00		68	40-140			
Chrysene	1.37	0.40	mg/kg wet	2.000		68	40-140			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308485

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CH32306 - 3546										
Dibenzo(a,h)Anthracene	1.34	0.20	mg/kg wet	2.000		67	40-140			
Fluoranthene	1.22	0.40	mg/kg wet	2.000		61	40-140			
Fluorene	1.09	0.40	mg/kg wet	2.000		54	40-140			
Indeno(1,2,3-cd)Pyrene	1.10	0.40	mg/kg wet	2.000		55	40-140			
Naphthalene	0.87	0.40	mg/kg wet	2.000		43	40-140			
Phenanthrene	1.17	0.40	mg/kg wet	2.000		59	40-140			
Pyrene	1.21	0.40	mg/kg wet	2.000		61	40-140			
Surrogate: 2-Bromonaphthalene	*0.861*		mg/kg wet	*2.000*		*43*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*1.44*		mg/kg wet	*2.000*		*72*	*40-140*			
Surrogate: O-Terphenyl	*1.57*		mg/kg wet	*2.000*		*78*	*40-140*			
LCS										
2-Methylnaphthalene Breakthrough	0.0		%				0-5			
Naphthalene Breakthrough	0.0		%				0-5			
LCS Dup										
C19-C36 Aliphatics1	14.1	15.0	mg/kg wet	16.00		88	40-140	6	25	
C9-C18 Aliphatics1	8.6	15.0	mg/kg wet	12.00		72	40-140	7	25	
Decane (C10)	1.0	0.5	mg/kg wet	2.000		49	40-140	11	25	
Docosane (C22)	1.7	0.5	mg/kg wet	2.000		84	40-140	6	25	
Dodecane (C12)	1.1	0.5	mg/kg wet	2.000		54	40-140	10	25	
Eicosane (C20)	1.6	0.5	mg/kg wet	2.000		82	40-140	6	25	
Hexacosane (C26)	1.7	0.5	mg/kg wet	2.000		85	40-140	7	25	
Hexadecane (C16)	1.4	0.5	mg/kg wet	2.000		69	40-140	8	25	
Hexatriacontane (C36)	1.7	0.5	mg/kg wet	2.000		83	40-140	8	25	
Nonadecane (C19)	1.6	0.5	mg/kg wet	2.000		81	40-140	7	25	
Nonane (C9)	0.8	0.5	mg/kg wet	2.000		39	30-140	11	25	
Octacosane (C28)	1.7	0.5	mg/kg wet	2.000		85	40-140	7	25	
Octadecane (C18)	1.6	0.5	mg/kg wet	2.000		78	40-140	7	25	
Tetracosane (C24)	1.7	0.5	mg/kg wet	2.000		84	40-140	7	25	
Tetradecane (C14)	1.2	0.5	mg/kg wet	2.000		61	40-140	10	25	
Triacontane (C30)	1.7	0.5	mg/kg wet	2.000		85	40-140	7	25	
Surrogate: 1-Chlorooctadecane	*1.56*		mg/kg wet	*2.000*		*78*	*40-140*			
LCS Dup										
2-Methylnaphthalene	1.02	0.20	mg/kg wet	2.000		51	40-140	3	20	
Acenaphthene	1.16	0.40	mg/kg wet	2.000		58	40-140	3	20	
Acenaphthylene	1.01	0.20	mg/kg wet	2.000		50	40-140	1	20	
Anthracene	1.14	0.40	mg/kg wet	2.000		57	40-140	0.7	20	
Benzo(a)anthracene	1.22	0.40	mg/kg wet	2.000		61	40-140	0.7	20	
Benzo(a)pyrene	1.39	0.40	mg/kg wet	2.000		69	40-140	0.03	20	
Benzo(b)fluoranthene	1.36	0.40	mg/kg wet	2.000		68	40-140	1	20	
Benzo(g,h,i)perylene	1.31	0.40	mg/kg wet	2.000		66	40-140	2	20	
Benzo(k)fluoranthene	1.37	0.40	mg/kg wet	2.000		69	40-140	1	20	
C11-C22 Unadjusted Aromatics1	24.2	15.0	mg/kg wet	34.00		71	40-140	4	25	
Chrysene	1.34	0.40	mg/kg wet	2.000		67	40-140	2	20	

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308485

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CH32306 - 3546										
Dibenzo(a,h)Anthracene	1.35	0.20	mg/kg wet	2.000		68	40-140	1	20	
Fluoranthene	1.17	0.40	mg/kg wet	2.000		58	40-140	4	20	
Fluorene	1.06	0.40	mg/kg wet	2.000		53	40-140	3	20	
Indeno(1,2,3-cd)Pyrene	1.11	0.40	mg/kg wet	2.000		55	40-140	0.4	20	
Naphthalene	0.92	0.40	mg/kg wet	2.000		46	40-140	6	20	
Phenanthrene	1.15	0.40	mg/kg wet	2.000		58	40-140	2	20	
Pyrene	1.19	0.40	mg/kg wet	2.000		60	40-140	2	20	
Surrogate: 2-Bromonaphthalene	*1.05*		mg/kg wet	*2.000*		*53*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*1.40*		mg/kg wet	*2.000*		*70*	*40-140*			
Surrogate: O-Terphenyl	*1.43*		mg/kg wet	*2.000*		*71*	*40-140*			
LCS Dup										
2-Methylnaphthalene Breakthrough	0.0		%				0-5		200	
Naphthalene Breakthrough	0.0		%				0-5		200	

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308485

Notes and Definitions

U	Analyte included in the analysis, but not detected
SM	Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).
Q	Calibration required quadratic regression (Q).
P	Percent difference between primary and confirmation results exceeds 40% (P).
LC	Lower value is used due to matrix interferences (LC).
ICV	Initial Calibration Verification recovery is outside of control limit (ICV).
H	Estimated value. Sample hold times were exceeded (H).
EL	Elevated Method Reporting Limits due to sample matrix (EL).
D+	Relative percent difference for duplicate is outside of criteria (D+).
D	Diluted.
C+	Continuing Calibration recovery is above upper control limit (C+).
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	Detection Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Everett

ESS Laboratory Work Order: 1308485

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Department of Defense (DoD) Environmental Laboratory Accreditation Program (ELAP)
A2LA Accredited: Testing Cert# 2864.01
http://www.a2la.org/scopepdf/2864-01.pdf

Rhode Island Potable and Non Potable Water: LAI00179
http://www.health.ri.gov/labs/waterlabs-instate.php

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750
http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI0002
http://www.maine.gov/dep/blwq/topic/vessel/lab_list.pdf

Massachusetts Potable and Non Potable Water: M-RI002
http://public.dep.state.ma.us/labcert/labcert.aspx

New Hampshire (NELAP accredited) Potable and Non PotableWater, Solid and Hazardous Waste: 2424
http://www4.egov.nh.gov/des/nhelap/namesearch.asp

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313
http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006
http://datamine2.state.nj.us/dep/DEP_OPRA/

United States Department of Agriculture Soil Permit: S-54210

Maryland Potable Water: 301
http://www.mde.state.md.us/assets/document/WSP_labs-2009apr20.pdf

CHEMISTRY

A2LA Accredited: Testing Cert # 2864.01
Lead in Paint, Phthalates, Lead in Children's Metals Products (Including Jewelry)
http://www.A2LA.org/dirsearchnew/newsearch.cfm

CPSC ID# 1141
Lead Paint, Lead in Children's Metals Jewelry
http://www.cpsc.gov/cgi-bin/labapplist.aspx

Sample and Cooler Receipt Checklist

Client: GZA GeoEnvironmental, Inc.
Client Project ID: _____
Shipped/Delivered Via: ESS Courier

ESS Project ID: 13080485
Date Project Due: 8/29/13
Days For Project: 5 Day

Items to be checked upon receipt:

1. Air Bill Manifest Present?	* No	10. Are the samples properly preserved?	Yes
Air No.:		11. Proper sample containers used?	Yes
2. Were Custody Seals Present?	No	12. Any air bubbles in the VOA vials?	N/A
3. Were Custody Seals Intact?	N/A	13. Holding times exceeded?	No
4. Is Radiation count < 100 CPM?	Yes	14. Sufficient sample volumes?	Yes
5. Is a cooler present?	Yes	15. Any Subcontracting needed?	No
Cooler Temp: **4.1**		16. Are ESS labels on correct containers?	Yes | No
Iced With: **Ice**		17. Were samples received intact?	Yes | No
6. Was COC included with samples?	Yes	ESS Sample IDs: _____	
7. Was COC signed and dated by client?	Yes	Sub Lab: _____	
8. Does the COC match the sample	Yes	Analysis: _____	
9. Is COC complete and correct?	Yes	TAT: _____	

18. Was there need to call project manager to discuss status? If yes, please explain.

OK to run samples past holdtimes per client. See email relog of 1308098, 1308105, 1308106, 1308108 and 1308109. 8/22/13

Who was called?: _____ By whom? _____

Sample Number	Properly Preserved	Container Type	# of Containers	Preservative
1	Yes	8 oz Soil Jar	1	NP
2	Yes	8 oz Soil Jar	1	NP
3	Yes	8 oz Soil Jar	1	NP
4	Yes	4 oz Soil Jar	1	NP
5	Yes	8 oz Soil Jar	1	NP
6	Yes	8 oz Soil Jar	1	NP
7	Yes	8 oz Soil Jar	1	NP
8	Yes	8 oz Soil Jar	1	NP
9	Yes	8 oz Soil Jar	1	NP

Completed By: [signature] Date/Time: 8/22/13 2215
Reviewed By: [signature] Date/Time: 8/23/13 1045

1308485 8/6/13 (2a) 2 of 2 (1a) 1-2 1-7

ESS Laboratory

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

ESS LAB PROJECT ID 1308485

Turn Time ___x___ Standard Rush _____ Approved By: _____

Reporting Limits - see prev. email correspondence

State where samples were collected: MA RI CT NH NJ NY ME Other_____

Is this project for any of the following: (please circle)
MA-MCP CT-RCP RGP DOD Other_____

Electonic Deliverable Yes__x__ No____
Format: Excel_x__ Access___ PDF___ Other_____

GZA Project Manager: David E. Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Avenue
Norwood, MA 02062
(781) 278-3700
PRESUMPTIVE CERTAINTY REQUIRED

Project # 171521.02
Project Name: Former Everett Staging Yard
Contract Pricing ____
Special Pricing WO#: _____

ESS Lab Sample ID	Date	Collection Time	Grab -G Composite-C	Matrix	Sample Identification	# of Containers	MCP 14 metals	B/N Phthalates Esters 8270	PAH 8270 SIM	EPH Fractions	PCBs	TOC by Lloyd Kahn	Pesticides	Comment #
11	8/1/13	9:05	G	Sed	~~GZ-103 6-7'~~	2	X							
12	8/6/13	9:12	G	Sed	GZ-104 T 0-0.5'	2	X	X	X	X	X	X	X	
13	8/1/13	9:50	G	Sed	~~GZ-104 2-4'~~	2	X	X	X	X	X	X		
14	8/1/13	9:50	G	Sed	~~GZ-104 4-6'~~	2	X					X		
15	8/1/13	9:50	G	Sed	~~GZ-104 6-8'~~	2	X							
16	8/1/13	10:06	G	Sed	~~GZ-105 2-4'~~	2	X							
17	8/1/13	10:06	G	Sed	~~GZ-105 4-6'~~	2	X	X	X	X	X	X		
18	8/1/13	10:06	G	Sed	~~GZ-105 8-9'~~	2	X							
19	8/1/13	10:41	G	Sed	~~GZ-106 2-4'~~	2	X					X		
20	8/1/13	10:41	G	Sed	~~GZ-106 4-6'~~	2	X							

Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-_____ — AG AG AG AG AG AG

Container Type: P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filter

8/6/13 (1a)

Cooler Present ___✓___ Yes _____ No
Seals Intact Yes ✓ No NA: ~~Loose Ice~~ BP
Cooler Temperature: ~~5 Coolers~~ 4.1-3.6 4.8 2.6 3.2

Sampled by : Dan Scanlon
Comments: Contract Price - 10%

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
[signature]	8/6/13 2000	[signature] 8/7/13 1030	[signature] 1120	8/7/13	[signature] 8/7/13 11:30
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)

Please E-mail all changes to Chain of Custody in writing.

Page 2 of 16

130485

tot 2 2-7

ESS Laboratory

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

ESS LAB PROJECT ID: 130810

Turn Time __x__ Standard Rush _____ Approved By: _____

Reporting Limits - see prev. email correspondence

State where samples were collected: MA RI CT NH NJ NY ME Other_____

Is this project for any of the following: (please circle)
MA-MCP CT-RCP RGP DOD Other_____

Electonic Deliverable Yes__x__ No____
Format: Excel_x__ Access___ PDF___ Other_____

GZA Project Manager: David E. Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Avenue
Norwood, MA 02062
(781) 278-3700
PRESUMPTIVE CERTAINTY REQUIRED

Project # 171521.02
Project Name: Former Everett Staging Yard
Contract Pricing _____
Special Pricing WO#: _____

ESS Lab Sample ID	Date	Collection Time	Grab -G Composite-C	Matrix	Sample Identification	# of Containers	MCP 14 metals	B/N Phthalates Esters 8270	PAH 8270 SIM	EPH Fractions	PCBs	TOC by Lloyd Kahn	X Pesticides				Comment #
						Analysis											
(2) 1	8/6/13	9:55	G	Sed	GZ-114 T 0-0.5'	2	X	X	X	X	X	X	X				
2	8/1/13	12:51	G	Sed	~~GZ-114 2-5~~	2	X	X	X	X	X	X					
3	8/1/13	12:51	G	Sed	~~GZ-114 5-7'~~	2	X										
4	8/6/13	10:09	G	Sed	~~GZ-115 T 0-0.5'~~	2	X					X					
5	8/1/13	13:05	G	Sed	~~GZ-115 2-5'~~	2	X										
6	8/1/13	13:05	G	Sed	~~GZ-115 5-7'~~	2	X										
(3) 7	8/6/13	10:55	G	Sed	GZ-116 T 0-0.5'	2	X	X	X	X	X	X	X				
8	8/2/13	8:28	G	Sed	~~GZ-116 0.5-2'~~	2	X	X	X	X	X	X					
9	8/2/13	8:28	G	Sed	GZ-116 2-4'	2	X	X	X	X	X	X					
10	8/2/13	8:28	G	Sed	~~GZ-116 4-6'~~	2	X										

9/6/13 (10)

Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-_____ — AG AG AG AG AG AG

Container Type: P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filter

Cooler Present ✓ Yes ____ No
Seals Intact ✓ Yes ____ No NA: BB
Cooler Temperature: 4-13-6-4-8-2-6-3-5

Sampled by : Dan Scanlon

Comments: Contract Price - 10%

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
1 Wolfgang	8/6/13 22:00	Rick Russo 8/7/13 1030	Rick Russo 8/7/13	1120	8/7/13 11:30
2					

Please E-mail all changes to Chain of Custody in writing.

1308485 3-7

ESS Laboratory

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

ESS LAB PROJECT ID: ~~1308106~~ 1308485

Turn Time ___x___ Standard Rush _____ Approved By: _____

Reporting Limits - see prev. email correspondence

State where samples were collected: MA RI CT NH NJ NY ME Other_____

Is this project for any of the following: (please circle)
MA-MCP CT-RCP RGP DOD Other_____

Electonic Deliverable Yes__x__ No____
Format: Excel_x__ Access___ PDF___ Other_____

GZA Project Manager: David E. Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Avenue
Norwood, MA 02062
(781) 278-3700
PRESUMPTIVE CERTAINTY REQUIRED

Project # 171521.02

Project Name: Former Everett Staging Yard

Contract Pricing ____
Special Pricing WO#: _____

ESS Lab Sample ID	Date	Collection Time	Grab -G Composite-C	Matrix	Sample Identification	# of Containers	MCP 14 metals	B/N Phthalates Esters 8270	PAH 8270 SIM	EPH Fractions	PCBs	TOC by Lloyd Kahn	Pesticides					Comment #
					Analysis													
11	8/2/13	11:44	G	Sed	~~GZ-124 0-0.5'~~	2	X					X						
12	8/2/13	11:44	G	Sed	~~GZ-124 2-4~~	2	X											
13	8/5/13	11:10	G	Sed	~~GZ-125A 0-0.5'~~	2	X					X						
14	8/5/13	11:10	G	Sed	~~GZ-125A 2-4'~~	2	X											
15	8/5/13	11:10	G	Sed	~~GZ-125A 4-6'~~	2	X											
16	8/5/13	11:10	G	Sed	~~GZ-125A 8-9'~~	2	X											
(4) 17	8/6/13	10:15	G	Sed	GZ-126 T 0-0.5'	2	X	X	X	X	X	X	X					
18	8/5/13	10:50	G	Sed	~~GZ-126 0.5-2'~~	2	X	X	X	X	X	X						
19	8/5/13	10:50	G	Sed	~~GZ-126 2-4'~~	2	X	X	X	X	X	X						
8/2/13 (11) 20	8/5/13	10:35	G	Sed	~~GZ-127 0-0.5'~~	2	X					X						

Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-_____

Container Type: P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA

						AG	AG	AG	AG	AG	AG							

Matrix: S-Soil SD-Solid D-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filter

Cooler Present ___✓___Yes ____No
Seals Intact ___✓___Yes ____No NA: ~~✓~~
Cooler Temperature: 4.1 3.6 4.8 2.6 3.2

Sampled by : Dan Scanlon

Comments: Contract Price - 10%

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Wallace	8/6/13 23:59	Rick Barron 8/7/13 1030	Bill Barron 8/7/13	H2O	8/7/13 1654
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)

Please E-mail all changes to Chain of Custody in writing.

Page 8 of 16

1308485 4-7

ESS Laboratory

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Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

ESS LAB PROJECT ID: ~~1308108~~

Turn Time ___x___ Standard Rush_____ Approved By: _____

State where samples were collected: MA RI CT NH NJ NY ME Other_____

Is this project for any of the following: (please circle)
MA-MCP CT-RCP RGP DOD Other_____

Reporting Limits - see prev. email correspondence

Electonic Deliverable Yes__x__ No____
Format: Excel_x__ Access___ PDF___ Other_____

GZA Project Manager: David E. Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Avenue
Norwood, MA 02062
(781) 278-3700
PRESUMPTIVE CERTAINTY REQUIRED

Project # 171521.02

Project Name: Former Everett Staging Yard

Contract Pricing____
Special Pricing WO#: _____

ESS Lab Sample ID	Date	Collection Time	Grab -G Composite-C	Matrix	Sample Identification	# of Containers	MCP 14 metals	B/N Phthalates Esters 8270	PAH 8270 SIM	EPH Fractions	PCBs	TOC by Lloyd Kahn	Pesticides					Comment #
						Analysis												
1	8/6/13	10:45	G	Sed	~~GZ-134 T 0-0.5'~~	2	X	X	X	X	X	X						
2	8/2/13	13:53	G	Sed	~~GZ-134 2-3~~	2	X	X	X	X	X	X						
3	8/2/13	13:53	G	Sed	~~GZ-134 4-6~~	2	X											
4	8/2/13	13:53	G	Sed	~~GZ-134 6-8~~	2	X	X	X	X	X	X						
(5) 5	8/6/13	8:23	G	Sed	GZ-135 T 0-0.5'	2	X	X	X	X	X	X						
6	8/2/13	14:15	G	Sed	~~GZ-135 2-4'~~	2	X											
7	8/2/13	14:15	G	Sed	~~GZ-135 4-6~~	2	X											
8	8/5/13	8:50	G	Sed	~~GZ-136 0-0.5~~	2	X											
9	8/5/13	8:50	G	Sed	~~GZ-136 0.5-2'~~	2	X	X	X	X	X	X						
8/22/13 (10)	8/5/13	8:50	G	Sed	~~GZ-136 2-4'~~	2	X											

Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-_____

Container Type: P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA

	AG	AG	AG	AG	AG	AG							

Matrix: S-Soil SD-Solid D-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filter

Cooler Present ___✓___ Yes _____ No
Seals Intact ___✓___ Yes _____ No NA: ~~RP~~
Cooler Temperature: 4.1 3.6 4.8 2.6 3.2

Sampled by : Dan Scanlon

Comments: Contract Price - 10%

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
W Addeo	8/6/13	Brad Bacon	8/7/13 1030 Bill Bacon	8/7/13 1120	8/7/13 1635
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)

Please E-mail all changes to Chain of Custody in writing.

Page 11 of 16

1308495 S-7

ESS Laboratory

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185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

ESS LAB PROJECT ID: ~~130810~~ 130810S

Turn Time ___x___ Standard Rush_____ Approved By: _____

Reporting Limits - see prev. email correspondence

State where samples were collected: MA RI CT NH NJ NY ME Other_____

Is this project for any of the following: (please circle)
MA-MCP CT-RCP RGP DOD Other_____

Electonic Deliverable Yes__x__ No____
Format: Excel_x__ Access___ PDF___ Other_____

GZA Project Manager: David E. Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Avenue
Norwood, MA 02062
(781) 278-3700
PRESUMPTIVE CERTAINTY REQUIRED

Project # 171521.02
Project Name: Former Everett Staging Yard
Contract Pricing ____
Special Pricing WO#: _____

ESS Lab Sample ID	Date	Collection Time	Grab -G Composite-C	Matrix	Sample Identification	# of Containers	MCP 14 metals	B/N Phthalates Esters 8270	PAH 8270 SIM	EPH Fractions	PCBs	TOC by Lloyd Kahn	Pesticides					Comment #
						Analysis												
11	8/5/13	8:50	G	Sed	~~GZ-136 4-6'~~	2	X											
12	8/5/13	8:50	G	Sed	~~GZ-136 8-10'~~	2	X					X						
13	8/6/13	8:30	G	Sed	GZ-137 T 0-0.5'	2	X	X	X	X	X	X	X					
14	8/5/13	9:16	G	Sed	~~GZ-137 2-4'~~	2	X	X	X	X	X	X						
15	8/5/13	9:16	G	Sed	~~GZ-137 4.5-5'~~	2	X											
16	8/2/13	14:25	G	Sed	~~GZ-138 0-0.5'~~	2	X					X						
17	8/2/13	14:25	G	Sed	~~GZ-138 0.5-2'~~	2	X											
18	8/2/13	14:25	G	Sed	~~GZ-138 2-4'~~	2	X					X						
19	8/2/13	14:25	G	Sed	~~GZ-138 4-6'~~	2	X											
20	8/2/13	14:25	G	Sed	~~GZ-138 6-8'~~	2	X											
					Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-_____		AG	AG	AG	AG	AG	AG						

Container Type: P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filter

Cooler Present ___Yes ___No
Seals Intact ___Yes ___No NA: BB
Cooler Temperature: 4.1 3.6 4.8 263-2

Sampled by : Dan Scanlon
Comments: Contract Price - 10%

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
[signature]	8/6/13 20:0	[signature] 8/7/13 1030	[signature] 8/7/13	1120	[signature] 8/7/13 16:35

Please E-mail all changes to Chain of Custody in writing.

Page 12 of 16

Page 42 of 44

130485 6-7

ESS Laboratory

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

ESS LAB PROJECT ID: 130 8109

8/22/13 (W)

Turn Time ___x___ Standard Rush _____ Approved By: _____

Reporting Limits - see prev. email correspondence

State where samples were collected: MA RI CT NH NJ NY ME Other_____

Is this project for any of the following: (please circle)
MA-MCP CT-RCP RGP DOD Other_____

Electonic Deliverable Yes__x__ No____
Format: Excel_x__ Access___ PDF___ Other_____

GZA Project Manager: David E. Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Avenue
Norwood, MA 02062
(781) 278-3700
PRESUMPTIVE CERTAINTY REQUIRED

Project # 171521.02
Project Name: Former Everett Staging Yard
Contract Pricing _____
Special Pricing WO#: _____

ESS Lab Sample ID	Date	Collection Time	Grab -G Composite-C	Matrix	Sample Identification	Analysis: # of Containers	MCP 14 metals	B/N Phthalates Esters 8270	PAH 8270 SIM	EPH Fractions	PCBs	TOC by Lloyd Kahn	Residues				Comment #
1	8/5/13	8:20	G	Sed	~~GZ-139 0-0.5~~	2	X					X					
2	8/5/13	8:20	G	Sed	~~GZ-139 2-4'~~	2	X										
3	8/5/13	8:20	G	Sed	~~GZ-139 6-8'~~	2	X					X					
4	8/5/13	8:45	G	Sed	~~GZ-140A 0-0.5'~~	2	X										
5	8/5/13	8:45	G	Sed	~~GZ-140A 0.5-2'~~	2	X										
6	8/5/13	8:45	G	Sed	~~GZ-140A 2-3~~	2	X	X	X	X	X	X					
(7) 7	8/6/13	11:20	G	Sed	GZ-LC1 T 0-0.5'	2	X	X	X	X	X	X	X				
8	8/5/13	13:30	G	Sed	~~GZ-LC1 2-4'~~	2	X	X	X	X	X						
(8) 9	8/6/13	11:26	G	Sed	GZ-LC2 T 0-0.5'	2	X	X	X	X	X	X	X				
10	8/5/13	14:05	G	Sed	~~GZ-LC2 2-4'~~	2	X	X	X	X	X						

8/22/13 (W)

Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-_____

	AG	AG	AG	AG	AG	AG											

Container Type: P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filter

Cooler Present ✓ Yes ____ No
Seals Intact ✓ Yes ____ No NA: BB
Cooler Temperature: 4.1 3.6 4.6 2.6 3.2

Sampled by : Dan Scanlon
Comments: Contract Price - 10%

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Dan Scanlon	8/6/13 3:30	Bob Burson 8/7/13 1030	Bob Burson 8/7/13	1120	8/7/13 (800
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)

Please E-mail all changes to Chain of Custody in writing.

1308485 7-7

ESS Laboratory

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

ESS LAB PROJECT ID: ~~1308485~~ 1308109

8/22/13 (LC)

Turn Time ___x___ Standard Rush_____ Approved By: _____

Reporting Limits - see prev. email correspondence

State where samples were collected: **MA RI CT NH NJ NY ME** Other_____

Is this project for any of the following: (please circle)
MA-MCP CT-RCP RGP DOD Other_____

Electonic Deliverable Yes__x__ No____
Format: Excel_x__ Access___ PDF___ Other_____

GZA Project Manager: David ~~E. Leone~~
GZA GeoEnvironmental, Inc.
249 Vanderbilt Avenue
Norwood, MA 02062
(781) 278-3700
PRESUMPTIVE CERTAINTY REQUIRED

Project # 171521.02

Project Name: Former Everett Staging Yard

Contract Pricing ____
Special Pricing WO#: _____

ESS Lab Sample ID	Date	Collection Time	Grab -G Composite-C	Matrix	Sample Identification	# of Containers	MCP 14 metals	B/N Phthalates Esters 8270	PAH 8270 SIM	EPH Fractions	PCBs	TOC by Lloyd Kahn	X Peroxide			Comment #
11	8/6/13	11:36	G	Sed	GZ-LC3 T 0-0.5'	2	X	X	X	X	X	X	X			
12	8/5/13	14:15	G	Sed	~~GZ-LC-3 0.5-2~~	2	X	X	X	X	X	X				
13	8/5/13	14:15	G	Sed	~~GZ-LC-3 4-6~~	2	X	X	X	X	X					
14	8/6/13	11:42	G	Sed	~~GZ-LC4 T 0-0.5'~~	2	X	X	X	X	X	X				
15	8/5/13	14:25	G	Sed	~~GZ-LC4 0.5-2'~~	2	X	X	X	X	X					
16	8/5/13	14:25	G	Sed	~~GZ-LC4 2-4'~~	2	X	X	X	X	X					
17	8/5/13	14:25	G	Sed	~~GZ-LC4 4-6'~~	2	X	X	X	X	X					
18	8/5/13	14:50	G	Sed	~~GZ-LC5 0-0.5'~~	2	X	X	X	X	X	X				
19	8/5/13	14:50	G	Sed	~~GZ-LC5 2-4'~~	2	X	X	X	X	X					
20	8/5/13	15:05	G	Sed	~~GZ-LC6 0-0.5'~~	2	X	X	X	X	X	X				

8/22/13 (LC)

Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-_____

Container Type: P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA — AG AG AG AG AG AG

Matrix: S-Soil SD-Solid D-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filter

Cooler Present ✓ Yes ___ No
Seals Intact ___ Yes ___ No NA: BB
Cooler Temperature: 4.1 3.6 4.8 2.6 3.2

Sampled by : Dan Scanlon

Comments: Contract Price - 10%

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Walsh	8/6/13 0820	Bob Brogan 8/7/13 1050	Bob Brogan 8/7/13	1120	8/7/13 1820

Please E-mail all changes to Chain of Custody in writing.

Page 19 of 20

CERTIFICATE OF ANALYSIS

David E Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Avenue
Norwood, MA 02062

RE: Wynn Everett Sediment Phase (01.0171521.13 Task 001)
ESS Laboratory Work Order Number: 1503414

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard
Laboratory Director

REVIEWED
By ESS Laboratory at 3:09 pm, Apr 01, 2015

Analytical Summary
The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with NELAC Standards, A2LA and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.

Subcontracted Analyses

TestAmerica Laboratories, Inc. - Burlington, VT	Total Organic Carbon

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503414

SAMPLE RECEIPT

The following samples were received on March 25, 2015 for the analyses specified on the enclosed Chain of Custody Record.

To achieve CAM compliance for MCP data, ESS Laboratory has performed and reviewed all QA/QC Requirements and Performance Standards listed in each method. Holding times and preservation have also been reviewed. All CAM requirements have been achieved unless noted in the project narrative.

Each method has been set-up in the laboratory to reach required MCP standards. The methods for aqueous VOA and Soil Methanol VOA have known limitations for certain analytes. The regulatory standards may not be achieved due to these limitations. In addition, for all methods, matrix interferences, dilutions, and %Solids may elevate method reporting limits above regulatory standards. ESS Laboratory can provide, upon request, a Data Checker (regulatory standard comparison spreadsheet) electronic deliverable which will highlight these exceedances.

For EPH soil samples, the aromatic range results have been corrected for identified cartridge contaminant in accordance with the CAM protocol.

Lab Number	Sample Name	Matrix	Analysis
1503414-01	GZ-202 0ft-0.5ft	Soil	TOC-LK
1503414-02	GZ-203 0ft-0.5ft	Soil	TOC-LK
1503414-03	GZ-203 0ft-3ft	Soil	TOC-LK
1503414-04	GZ-204 0ft-0.5ft	Soil	TOC-LK
1503414-05	GZ-204 2ft-4ft	Soil	TOC-LK
1503414-06	GZ-212 0ft-0.5ft	Soil	TOC-LK
1503414-07	GZ-216 0ft-0.5ft	Soil	TOC-LK
1503414-08	GZ-216 2ft-4ft	Soil	TOC-LK
1503414-09	GZ-217 0ft-0.5ft	Soil	TOC-LK
1503414-10	GZ-217 0ft-3ft	Soil	TOC-LK

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503414

PROJECT NARRATIVE

No unusual observations noted.

End of Project Narrative.

DATA USABILITY LINKS

Definitions of Quality Control Parameters

Semivolatile Organics Internal Standard Information

Semivolatile Organics Surrogate Information

Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503414

CURRENT SW-846 METHODOLOGY VERSIONS

Analytical Methods

1010A - Flashpoint
6010C - ICP
6020A - ICP MS
7010 - Graphite Furnace
7196A - Hexavalent Chromium
7470A - Aqueous Mercury
7471B - Solid Mercury
8011 - EDB/DBCP/TCP
8015D - GRO/DRO
8081B - Pesticides
8082A - PCB
8100M - TPH
8151A - Herbicides
8260B - VOA
8270D - SVOA
8270D SIM - SVOA Low Level
9014 - Cyanide
9038 - Sulfate
9040C - Aqueous pH
9045D - Solid pH (Corrosivity)
9050A - Specific Conductance
9056A - Anions (IC)
9060A - TOC
9095B - Paint Filter
MADEP 04-1.1 - EPH / VPH

Prep Methods

3005A - Aqueous ICP and Graphite Furnace Digestion
3020A - Aqueous ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3546 - Microwave Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5030C - Aqueous Purge and Trap
5035 - Solid Purge and Trap

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-202 0ft-0.5ft
Date Sampled: 03/24/15 11:30
Percent Solids: N/A

ESS Laboratory Work Order: 1503414
ESS Laboratory Sample ID: 1503414-01
Sample Matrix: Soil

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**53200** (N/A)		TOC-LK		1	SUB	03/30/15 0:46	mg/kg	CC53023

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-203 0ft-0.5ft
Date Sampled: 03/24/15 12:30
Percent Solids: N/A

ESS Laboratory Work Order: 1503414
ESS Laboratory Sample ID: 1503414-02
Sample Matrix: Soil

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**43900** (N/A)		TOC-LK		1	SUB	03/30/15 0:52	mg/kg	CC53023

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-203 0ft-3ft
Date Sampled: 03/24/15 12:30
Percent Solids: N/A

ESS Laboratory Work Order: 1503414
ESS Laboratory Sample ID: 1503414-03
Sample Matrix: Soil

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**76200** (N/A)		TOC-LK		1	SUB	03/30/15 0:59	mg/kg	CC53023

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-204 0ft-0.5ft
Date Sampled: 03/24/15 12:50
Percent Solids: N/A

ESS Laboratory Work Order: 1503414
ESS Laboratory Sample ID: 1503414-04
Sample Matrix: Soil

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**51000** (N/A)		TOC-LK		1	SUB	03/30/15 1:05	mg/kg	CC53023

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-204 2ft-4ft
Date Sampled: 03/24/15 12:50
Percent Solids: N/A

ESS Laboratory Work Order: 1503414
ESS Laboratory Sample ID: 1503414-05
Sample Matrix: Soil

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**50900** (N/A)		TOC-LK		1	SUB	03/30/15 1:11	mg/kg	CC53023

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-212 0ft-0.5ft
Date Sampled: 03/24/15 14:20
Percent Solids: N/A

ESS Laboratory Work Order: 1503414
ESS Laboratory Sample ID: 1503414-06
Sample Matrix: Soil

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**17600** (N/A)		TOC-LK		1	SUB	03/30/15 1:18	mg/kg	CC53023

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-216 0ft-0.5ft
Date Sampled: 03/24/15 15:15
Percent Solids: N/A

ESS Laboratory Work Order: 1503414
ESS Laboratory Sample ID: 1503414-07
Sample Matrix: Soil

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**31800** (N/A)		TOC-LK		1	SUB	03/30/15 0:08	mg/kg	CC53023

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-216 2ft-4ft
Date Sampled: 03/24/15 15:15
Percent Solids: N/A

ESS Laboratory Work Order: 1503414
ESS Laboratory Sample ID: 1503414-08
Sample Matrix: Soil

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**35100** (N/A)		TOC-LK		1	SUB	03/30/15 1:30	mg/kg	CC53023

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-217 0ft-0.5ft
Date Sampled: 03/24/15 16:10
Percent Solids: N/A

ESS Laboratory Work Order: 1503414
ESS Laboratory Sample ID: 1503414-09
Sample Matrix: Soil

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**44400** (N/A)		TOC-LK		1	SUB	03/30/15 1:37	mg/kg	CC53023

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-217 0ft-3ft
Date Sampled: 03/24/15 16:10
Percent Solids: N/A

ESS Laboratory Work Order: 1503414
ESS Laboratory Sample ID: 1503414-10
Sample Matrix: Soil

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**73100** (N/A)		TOC-LK		1	SUB	03/30/15 1:43	mg/kg	CC53023

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503414

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase ESS Laboratory Work Order: 1503414

Notes and Definitions

ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	Detection Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report
[2C]	Result was taken from the second column. Dual column analysis.

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503414

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Department of Defense (DoD) Environmental Laboratory Accreditation Program (ELAP)
A2LA Accredited: Testing Cert# 2864.01
http://www.a2la.org/scopepdf/2864-01.pdf

Rhode Island Potable and Non Potable Water: LAI00179
http://www.health.ri.gov/find/labs/analytical/ESS.pdf

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750
http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI0002
http://www.maine.gov/dhhs/mecdc/environmental-health/water/dwp-services/labcert/documents/AllLabs.xls

Massachusetts Potable and Non Potable Water: M-RI002
http://public.dep.state.ma.us/Labcert/Labcert.aspx

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424
http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313
http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006
http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

United States Department of Agriculture Soil Permit: P330-12-00139

Pennsylvania: 68-01752
http://www.depweb.state.pa.us/portal/server.pt/community/labs/13780/laboratory_accreditation_program/590095

CHEMISTRY

A2LA Accredited: Testing Cert # 2864.01
Lead in Paint, Phthalates, Lead in Children's Metals Products (Including Jewelry)
http://www.A2LA.org/dirsearchnew/newsearch.cfm

CPSC ID# 1141
Lead Paint, Lead in Children's Metals Jewelry
http://www.cpsc.gov/cgi-bin/labapplist.aspx

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Burlington
30 Community Drive
Suite 11
South Burlington, VT 05403
Tel: (802)660-1990

TestAmerica Job ID: 200-27247-1
TestAmerica Sample Delivery Group: 1503414
Client Project/Site: 1503414

For:
ESS Laboratory
185 Frances Ave.
Cranston, Rhode Island 02910

Attn: Ms. Elizabeth Ouk

Authorized for release by:
3/30/2015 1:26:19 PM

Kathryn Kelly, Project Manager I
(802)660-1990
kathryn.kelly@testamericainc.com

LINKS
Review your project results through TotalAccess
Have a Question? Ask The Expert
Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Definitions/Glossary 3
Case Narrative 4
Detection Summary 5
Client Sample Results 6
QC Sample Results 8
QC Association Summary 9
Lab Chronicle 10
Certification Summary 12
Method Summary 13
Sample Summary 14
Chain of Custody 15
Receipt Checklists 17

Qualifiers

General Chemistry

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 200-27247-1

Laboratory: TestAmerica Burlington

Narrative

CASE NARRATIVE

Client: ESS Laboratory

Project: 1503414

Report Number: 200-27247-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 03/26/2015; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.2 C.

TOTAL ORGANIC CARBON

Samples 1503414-01, 1503414-02, 1503414-03, 1503414-04, 1503414-05, 1503414-06, 1503414-07, 1503414-08, 1503414-09 and 1503414-10 were analyzed for total organic carbon in accordance with Lloyd Kahn Method. The samples were analyzed on 03/27/2015.

Total Organic Carbon was detected in method blank MB 200-86185/5 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: ESS Laboratory
Project/Site: 1503414

TestAmerica Job ID: 200-27247-1
SDG: 1503414

Client Sample ID: 1503414-01 — Lab Sample ID: 200-27247-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	53200	B	1000	120	mg/Kg	1		Lloyd Kahn	Total/NA

Client Sample ID: 1503414-02 — Lab Sample ID: 200-27247-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	43900	B	1000	120	mg/Kg	1		Lloyd Kahn	Total/NA

Client Sample ID: 1503414-03 — Lab Sample ID: 200-27247-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	76200	B	1000	120	mg/Kg	1		Lloyd Kahn	Total/NA

Client Sample ID: 1503414-04 — Lab Sample ID: 200-27247-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	51000	B	1000	120	mg/Kg	1		Lloyd Kahn	Total/NA

Client Sample ID: 1503414-05 — Lab Sample ID: 200-27247-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	50900	B	1000	120	mg/Kg	1		Lloyd Kahn	Total/NA

Client Sample ID: 1503414-06 — Lab Sample ID: 200-27247-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	17600	B	1000	120	mg/Kg	1		Lloyd Kahn	Total/NA

Client Sample ID: 1503414-07 — Lab Sample ID: 200-27247-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	31800	B	1000	120	mg/Kg	1		Lloyd Kahn	Total/NA

Client Sample ID: 1503414-08 — Lab Sample ID: 200-27247-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	35100	B	1000	120	mg/Kg	1		Lloyd Kahn	Total/NA

Client Sample ID: 1503414-09 — Lab Sample ID: 200-27247-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	44400	B	1000	120	mg/Kg	1		Lloyd Kahn	Total/NA

Client Sample ID: 1503414-10 — Lab Sample ID: 200-27247-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	73100	B	1000	120	mg/Kg	1		Lloyd Kahn	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 1503414-01
Date Collected: 03/24/15 11:30
Date Received: 03/26/15 10:05

Lab Sample ID: 200-27247-1
Matrix: Sediment

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	53200	B	1000	120	mg/Kg			03/27/15 00:46	1

Client Sample ID: 1503414-02
Date Collected: 03/24/15 12:30
Date Received: 03/26/15 10:05

Lab Sample ID: 200-27247-2
Matrix: Sediment

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	43900	B	1000	120	mg/Kg			03/27/15 00:52	1

Client Sample ID: 1503414-03
Date Collected: 03/24/15 12:30
Date Received: 03/26/15 10:05

Lab Sample ID: 200-27247-3
Matrix: Sediment

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	76200	B	1000	120	mg/Kg			03/27/15 00:59	1

Client Sample ID: 1503414-04
Date Collected: 03/24/15 12:50
Date Received: 03/26/15 10:05

Lab Sample ID: 200-27247-4
Matrix: Sediment

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	51000	B	1000	120	mg/Kg			03/27/15 01:05	1

Client Sample ID: 1503414-05
Date Collected: 03/24/15 12:50
Date Received: 03/26/15 10:05

Lab Sample ID: 200-27247-5
Matrix: Sediment

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	50900	B	1000	120	mg/Kg			03/27/15 01:11	1

Client Sample ID: 1503414-06
Date Collected: 03/24/15 14:20
Date Received: 03/26/15 10:05

Lab Sample ID: 200-27247-6
Matrix: Sediment

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	17600	B	1000	120	mg/Kg			03/27/15 01:18	1

Client Sample ID: 1503414-07
Date Collected: 03/24/15 15:15
Date Received: 03/26/15 10:05

Lab Sample ID: 200-27247-7
Matrix: Sediment

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	31800	B	1000	120	mg/Kg			03/27/15 00:08	1

Client: ESS Laboratory
Project/Site: 1503414

TestAmerica Job ID: 200-27247-1
SDG: 1503414

Client Sample ID: 1503414-08 — **Lab Sample ID: 200-27247-8**
Date Collected: 03/24/15 15:15 — **Matrix: Sediment**
Date Received: 03/26/15 10:05

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	35100	B	1000	120	mg/Kg			03/27/15 01:30	1

Client Sample ID: 1503414-09 — **Lab Sample ID: 200-27247-9**
Date Collected: 03/24/15 16:10 — **Matrix: Sediment**
Date Received: 03/26/15 10:05

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	44400	B	1000	120	mg/Kg			03/27/15 01:37	1

Client Sample ID: 1503414-10 — **Lab Sample ID: 200-27247-10**
Date Collected: 03/24/15 16:10 — **Matrix: Sediment**
Date Received: 03/26/15 10:05

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	73100	B	1000	120	mg/Kg			03/27/15 01:43	1

QC Sample Results

Client: ESS Laboratory
Project/Site: 1503414

TestAmerica Job ID: 200-27247-1
SDG: 1503414

Method: Lloyd Kahn - Organic Carbon, Total (TOC)

Lab Sample ID: MB 200-86185/5
Matrix: Sediment
Analysis Batch: 86185

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	230.0	J	1000	120	mg/Kg			03/26/15 22:53	1

Lab Sample ID: LCS 200-86185/6
Matrix: Sediment
Analysis Batch: 86185

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	20100	19720		mg/Kg		98	75 - 125

QC Association Summary

Client: ESS Laboratory
Project/Site: 1503414

TestAmerica Job ID: 200-27247-1
SDG: 1503414

General Chemistry

Analysis Batch: 86185

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-27247-1	1503414-01	Total/NA	Sediment	Lloyd Kahn	
200-27247-2	1503414-02	Total/NA	Sediment	Lloyd Kahn	
200-27247-3	1503414-03	Total/NA	Sediment	Lloyd Kahn	
200-27247-4	1503414-04	Total/NA	Sediment	Lloyd Kahn	
200-27247-5	1503414-05	Total/NA	Sediment	Lloyd Kahn	
200-27247-6	1503414-06	Total/NA	Sediment	Lloyd Kahn	
200-27247-7	1503414-07	Total/NA	Sediment	Lloyd Kahn	
200-27247-8	1503414-08	Total/NA	Sediment	Lloyd Kahn	
200-27247-9	1503414-09	Total/NA	Sediment	Lloyd Kahn	
200-27247-10	1503414-10	Total/NA	Sediment	Lloyd Kahn	
LCS 200-86185/6	Lab Control Sample	Total/NA	Sediment	Lloyd Kahn	
MB 200-86185/5	Method Blank	Total/NA	Sediment	Lloyd Kahn	

Lab Chronicle

Client: ESS Laboratory
Project/Site: 1503414

TestAmerica Job ID: 200-27247-1
SDG: 1503414

Client Sample ID: 1503414-01
Lab Sample ID: 200-27247-1

Date Collected: 03/24/15 11:30
Matrix: Sediment
Date Received: 03/26/15 10:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	86185	03/27/15 00:46	MDK	TAL BUR

Client Sample ID: 1503414-02
Lab Sample ID: 200-27247-2

Date Collected: 03/24/15 12:30
Matrix: Sediment
Date Received: 03/26/15 10:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	86185	03/27/15 00:52	MDK	TAL BUR

Client Sample ID: 1503414-03
Lab Sample ID: 200-27247-3

Date Collected: 03/24/15 12:30
Matrix: Sediment
Date Received: 03/26/15 10:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	86185	03/27/15 00:59	MDK	TAL BUR

Client Sample ID: 1503414-04
Lab Sample ID: 200-27247-4

Date Collected: 03/24/15 12:50
Matrix: Sediment
Date Received: 03/26/15 10:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	86185	03/27/15 01:05	MDK	TAL BUR

Client Sample ID: 1503414-05
Lab Sample ID: 200-27247-5

Date Collected: 03/24/15 12:50
Matrix: Sediment
Date Received: 03/26/15 10:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	86185	03/27/15 01:11	MDK	TAL BUR

Client Sample ID: 1503414-06
Lab Sample ID: 200-27247-6

Date Collected: 03/24/15 14:20
Matrix: Sediment
Date Received: 03/26/15 10:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	86185	03/27/15 01:18	MDK	TAL BUR

Lab Chronicle

Client: ESS Laboratory
Project/Site: 1503414

TestAmerica Job ID: 200-27247-1
SDG: 1503414

Client Sample ID: 1503414-07
Date Collected: 03/24/15 15:15
Date Received: 03/26/15 10:05

Lab Sample ID: 200-27247-7
Matrix: Sediment

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	86185	03/27/15 00:08	MDK	TAL BUR

Client Sample ID: 1503414-08
Date Collected: 03/24/15 15:15
Date Received: 03/26/15 10:05

Lab Sample ID: 200-27247-8
Matrix: Sediment

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	86185	03/27/15 01:30	MDK	TAL BUR

Client Sample ID: 1503414-09
Date Collected: 03/24/15 16:10
Date Received: 03/26/15 10:05

Lab Sample ID: 200-27247-9
Matrix: Sediment

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	86185	03/27/15 01:37	MDK	TAL BUR

Client Sample ID: 1503414-10
Date Collected: 03/24/15 16:10
Date Received: 03/26/15 10:05

Lab Sample ID: 200-27247-10
Matrix: Sediment

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	86185	03/27/15 01:43	MDK	TAL BUR

Laboratory References:

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Certification Summary

Client: ESS Laboratory
Project/Site: 1503414

TestAmerica Job ID: 200-27247-1
SDG: 1503414

Laboratory: TestAmerica Burlington

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Connecticut	State Program	1	PH-0751	09-30-15
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	NA	02-13-16
Florida	NELAP	4	E87467	06-30-15
L-A-B	DoD ELAP		L2336	02-26-17
Maine	State Program	1	VT00008	04-17-15 *
Minnesota	NELAP	5	050-999-436	12-31-15
New Hampshire	NELAP	1	2006	12-18-15
New Jersey	NELAP	2	VT972	06-30-15
New York	NELAP	2	10391	03-31-15 *
Pennsylvania	NELAP	3	68-00489	04-30-15 *
Rhode Island	State Program	1	LAO00298	12-30-15
US Fish & Wildlife	Federal		LE-058448-0	02-28-16
USDA	Federal		P330-11-00093	10-28-16
Vermont	State Program	1	VT-4000	12-31-15
Virginia	NELAP	3	460209	12-14-15

* Certification renewal pending - certification considered valid.

Method Summary

Client: ESS Laboratory
Project/Site: 1503414

TestAmerica Job ID: 200-27247-1
SDG: 1503414

Method	Method Description	Protocol	Laboratory
Lloyd Kahn	Organic Carbon, Total (TOC)	EPA	TAL BUR

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Sample Summary

Client: ESS Laboratory
Project/Site: 1503414

TestAmerica Job ID: 200-27247-1
SDG: 1503414

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
200-27247-1	1503414-01	Sediment	03/24/15 11:30	03/26/15 10:05
200-27247-2	1503414-02	Sediment	03/24/15 12:30	03/26/15 10:05
200-27247-3	1503414-03	Sediment	03/24/15 12:30	03/26/15 10:05
200-27247-4	1503414-04	Sediment	03/24/15 12:50	03/26/15 10:05
200-27247-5	1503414-05	Sediment	03/24/15 12:50	03/26/15 10:05
200-27247-6	1503414-06	Sediment	03/24/15 14:20	03/26/15 10:05
200-27247-7	1503414-07	Sediment	03/24/15 15:15	03/26/15 10:05
200-27247-8	1503414-08	Sediment	03/24/15 15:15	03/26/15 10:05
200-27247-9	1503414-09	Sediment	03/24/15 16:10	03/26/15 10:05
200-27247-10	1503414-10	Sediment	03/24/15 16:10	03/26/15 10:05

ESS Laboratory — T. America — CHAIN OF CUSTODY

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston RI 02910-2211
Tel. (401)461-7181 Fax (401)461-4486
www.esslaboratory.com

ESS Lab # 1503414

Turn Time _____Standard Other **5 DAY**

Regulatory State: **MA** RI CT NH NJ NY ME Other_____

Is this project for any of the following:(please circle)
MA-MCP Navy USACE CT DEP Other_____

Reporting Limits - _____

Electonic Deliverables **Excel** Access **PDF** *

Co. Name: **ESS Laboratory**	Project #:	Project Name: **1503414**	
Contact Person: **Christine Taylor**	Proj. Location:		
Address:	City , State:	Zip:	PO #: B02192
Tel. ext. 3039	email: ctaylor@thielsch.com	email: smorrell@thielsch.com	

ESS Lab ID	Date	Collection Time	Grab -G Composite-C	Matrix	Sample ID	Pres Code	# of Containers	Type of Container	Vol of Container	Analysis: TOC Lloyd Kahn									
	3/24/15	1130	G	SED	1503414-01	1	1	G	2oz	X									
	3/24/15	1230	G	SED	1503414-02	1	1	G	2oz	X									
	3/24/15	1230	G	SED	1503414-03	1	1	G	2oz	X									
	3/24/15	1250	G	SED	1503414-04	1	1	G	2oz	X									
	3/24/15	1250	G	SED	1503414-05	1	1	G	2oz	X									
	3/24/15	1420	G	SED	1503414-06	1	1	G	2oz	X									
	3/24/15	1515	G	SED	1503414-07	1	1	G	2oz	X									
	3/24/15	1515	G	SED	1503414-08	1	1	G	2oz	X									
	3/24/15	1610	G	SED	1503414-09	1	1	G	2oz	X									
	3/24/15	1610	G	SED	1503414-10	1	1	G	2oz	X									

Container Type: P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filter

Cooler Present _____Yes _____No

Seals Intact ____ Yes _____No NA:____

Cooler Temperature: _____

Internal Use Only

[ ] Pickup

[ ] Technician____

Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-_____

Sampled by :

Comments:

Relinquished by: (Signature, Date & Time)	Received by: (Signature, Date & Time)	Relinquished by: (Signature, Date & Time)	Received by: (Signature, Date & Time)
3/25/15 1407	3-25-15 1407	1500 3-25-15	3/26/15 1005 TA-BUR
Relinquished by: (Signature, Date & Time)	Received by: (Signature, Date & Time)	Relinquished by: (Signature, Date & Time)	Received by: (Signature, Date & Time)

* By circling MA-MCP, client acknowledges sampels were collected in accordance with MADEP CAM VIIA

Please fax to the laboratory all changes to Chain of Custody

Report Method Blank & Laboratory Control Sample Results

200-27247 Chain of Custody


ORIGIN ID:BXCA (781) 466-6900
PAUL HOBART
TESTAMERICA
240 BEAR HILL ROAD
SUITE 104
WALTHAM, MA 02451
UNITED STATES US
SHIP DATE: 25MAR15
ACTWGT: 15.5 LB
CAD: 590687/CAFE2807
BILL RECIPIENT
TO SAMPLE RECEIVING
TESTAMERICA BURLINGTON
30 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403
(802) 660-1990
REF:
INV:
PO:
DEPT:
FedEx
Express
THU - 26 MAR AA
STANDARD OVERNIGHT
TRK# 0201 4258 8388 7463
EK BTVA
05403
VT-US BTV

Login Sample Receipt Checklist

Client: ESS Laboratory

Job Number: 200-27247-1
SDG Number: 1503414

Login Number: 27247
List Number: 1
Creator: Atherton, Joel E

List Source: TestAmerica Burlington

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	TAMPER EVIDENT TAPE
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.2ºC
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	IDs on containers do not match the COC. Logged in per COC.
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ESS Laboratory

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www.esslaboratory.com

CHAIN OF CUSTODY

ESS LAB PROJECT ID: 1503414

Turn Time ___X___ Standard Rush_____ Approved By: _____

Reporting Limits -

State where samples were collected: **MA** RI CT NH NJ NY ME Other_____

Is this project for any of the following: (please circle)
MA-MCP CT-RCP NJ-DKQP RGP DOD Other____

Electonic Deliverable Yes ✓ No____
Format: Excel ✓ Access___ PDF___ Other____

GZA Project Manager: David E. Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Ave
Norwood, MA 02062
(781) 278-3700

Project No.: 01.0171521.13 Task 001
Project Name: Wynn - Everett
Contract Pricing _____
Special Pricing WO#: _____

ESS Lab Sample ID	Date	Collection Time	Grab -G Composite-C	Matrix	Sample Identification	# of Containers	Analysis: MCP-14 Metals	PAHs by SIM	TOC	SVOCs	PCBs (Aroclors)	EPH	Hexavalent Chromium	Reactivity (Sulfide and Cyanide)	VOCs	% water	Grain Size Analysis	Comment #
1	3-24-15	1130	G	S	GZ-202 (0'-0.5')		X	X	X	X	X	X						
		1130	G	S	GZ-202 (2'-4')		X	X										
2		1230	G	S	GZ-203 (0'-0.5')		X	X	X	X	X	X						
		1230	G	S	GZ-203 (4'-6')		X	X										
3		1230	G	S	GZ-203 (0'-3')		X		X	X	X	X	X	X	X	X	X	(1)
4		1250	G	S	GZ-204 (0'-0.5')		X	X	X	X	X	X						
5		1250	G	S	GZ-204 (2'-4')		X	X	X	X	X	X						
		1250	G	S	GZ-204 (6'-8')		X	X										
6		1420	G	S	GZ-212 (0'-0.5')		X	X	X	X	X	X						
	↓	1420	G	S	GZ-212 (0.5'-2')		X	X										

Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-_____

Container Type: P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filter

Cooler Present ✓ Yes _____ No

Seals Intact _____ Yes _____ No NA: 0845

Cooler Temperature: 2-6°C 3.6°C 3/25/15

Sampled by : Daniel Scanlon (Daniel.Scanlon@gza.com)

Comments: (1) TCLP 20X Rule Applies
TOC only being reported for this WO - cmt 4/1/15

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	3-24-15 @ 18:20	3/25/15 C(3.6)	3/25/15 0845		3/25/15 1207

Page 1 of 2

ESS Laboratory

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

ESS LAB PROJECT ID: 1503414

Turn Time ___X___ Standard Rush_____ Approved By: _____

Reporting Limits -

State where samples were collected: **MA** RI CT NH NJ NY ME Other_____

Is this project for any of the following: (please circle)
MA-MCP CT-RCP NJ-DKQP RGP DOD Other____

Electonic Deliverable Yes_✓_ No____
Format: Excel_✓_ Access___ PDF___ Other_____

GZA Project Manager: David E. Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Ave
Norwood, MA 02062
(781) 278-3700

Project No.: 01.0171521.13 Task 001

Project Name: Wynn - Everett

Contract Pricing ____
Special Pricing WO#: _____

ESS Lab Sample ID	Date	Collection Time	Grab -G Composite-C	Matrix	Sample Identification	# of Containers	Analysis: MCP-14 Metals	PAHs by SIM	TOC	SVOCs	PCBs (Aroclors)	EPH	Hexavalent Chromium	Reactivity (Sulfide and Cyanide)	VOCs	% water	Grain Size Analysis	Comment #
7	3-24-15	1515	6	S	GZ-216 (0'-0.5')		X	X	X	X	X	X						
		1515	6	S	GZ-216 (4'-6')		X	X										
8		1515	6	S	GZ-216 (2'-4')		X	X	X	X	X	X						
9		16:10	6	S	GZ-217 (0'-0.5')		X	X	X	X	X	X						
10		16:10	6	S	GZ-217 (0'-3')		X		X	X	X	X	X	X	X	X	X	(1)
	✓	16:10	6	S	GZ-217 (6'-8')		X	X										

Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-_____

Container Type: P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filter

Cooler Present _____Yes _____No

Seals Intact 2 Coolers _____Yes _____No NA: 0845

Cooler Temperature: 2.8+3.6°C 3B 3/25/15

Sampled by : Daniel Scanlon (Daniel.Scanlon@gza.com)

Comments: (1) TCLP 20X Rule Applies

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	3-24-15	0845	3/25/15 0845		3/25/15 1207

C1820

ESS Laboratory
Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

ESS LAB PROJECT ID: 15034/4

Turn Time ___X___ Standard Rush_____ Approved By: _____

Reporting Limits -

State where samples were collected: **MA** RI CT NH NJ NY ME Other_____

Is this project for any of the following: (please circle)
MA-MCP CT-RCP NJ-DKQP RGP DOD Other____

Electonic Deliverable Yes ✓ No____
Format: Excel ✓ Access___ PDF___ Other____

GZA Project Manager: David E. Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Ave
Norwood, MA 02062
(781) 278-3700

Project No.: 01.0171521.13 Task 001
Project Name: Wynn - Everett
Contract Pricing _____
Special Pricing WO#: _____

ESS Lab Sample ID	Date	Collection Time	Grab -G Composite-C	Matrix	Sample Identification	# of Containers	Analysis: MCP-14 Metals	PAHs by SIM	TOC	SVOCs	PCBs (Aroclors)	EPH	Hexavalent Chromium	Reactivity (Sulfide and Cyanide)	VOCs	% water	Grain Size Analysis	Comment #
1	3-24-15	1130	G	S	GZ-202 (0'-0.5')		X	X	X	X	X	X						
		1130	G	S	GZ-202 (2'-4')		X	X										
2		1230	G	S	GZ-203 (0'-0.5')		X	X	X	X	X	X						
		1230	G	S	GZ-203 (4'-6')		X	X										
3		1230	G	S	GZ-203 (0'-3')		X		X	X	X	X	X	X	X	X	X	(1)
4		1250	G	S	GZ-204 (0'-0.5')		X	X	X	X	X	X						
5		1250	G	S	GZ-204 (2'-4')		X	X	X	X	X	X						
		1250	G	S	GZ-204 (6'-8')		X	X										
6		1420	G	S	GZ-212 (0'-0.5')		X	X	X	X	X	X						
	↓	1420	G	S	GZ-212 (0.5'-2')		X	X										

Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-_____

Container Type: P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filter

Cooler Present ✓ Yes _____ No

Seals Intact _____ Yes _____ No NA: 0845

Cooler Temperature: 2-6°C-3.6°C 3/25/15

Sampled by : Daniel Scanlon (Daniel.Scanlon@gza.com)

Comments: (1) TCLP 20X Rule Applies

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
[signature]	3-24-15 @ 18:20	[signature] 3/25/15 C(3.6)	[signature] 3/25/15 0845		[signature] 3/25/15 1207

Page 1 of 2

Page 37 of 38

ESS Laboratory

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

ESS LAB PROJECT ID: 1503414

Turn Time ___X___ Standard Rush_____ Approved By: _____

Reporting Limits -

State where samples were collected: **MA** RI CT NH NJ NY ME Other_____

Is this project for any of the following: (please circle)
MA-MCP CT-RCP NJ-DKQP RGP DOD Other____

Electonic Deliverable Yes ✓ No____
Format: Excel ✓ Access___ PDF___ Other_____

GZA Project Manager: David E. Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Ave
Norwood, MA 02062
(781) 278-3700

Project No.: 01.0171521.13 Task 001

Project Name: Wynn - Everett

Contract Pricing ____
Special Pricing WO#: _____

ESS Lab Sample ID	Date	Collection Time	Grab -G Composite-C	Matrix	Sample Identification	# of Containers	Analysis: MCP-14 Metals	PAHs by SIM	TOC	SVOCs	PCBs (Aroclors)	EPH	Hexavalent Chromium	Reactivity (Sulfide and Cyanide)	VOCs	% water	Grain Size Analysis	Comment #
7	3-24-15	1515	6	S	GZ-216 (0'-0.5')		X	X	X	X	X	X						
		1515	6	S	GZ-216 (4'-6')		X	X										
8		1515	6	S	GZ-216 (2'-4')		X	X	X	X	X	X						
9		16:10	6	S	GZ-217 (0'-0.5')		X	X	X	X	X	X						
10		16:10	6	S	GZ-217 (0'-3')		X		X	X	X	X	X	X	X	X	X	(1)
	✓	16:10	6	S	GZ-217 (6'-8')		X	X										

Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-_____

Container Type: P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filter

Cooler Present _____Yes _____No

Seals Intact 2 Coolers _____Yes _____No NA: 0845

Cooler Temperature: 2.8+3.6°C 3B 3/25/15

Sampled by : Daniel Scanlon (Daniel.Scanlon@gza.com)

Comments: (1) TCLP 20X Rule Applies

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	3-24-15	0845 3/25/15	3/25/15 0845		3/25/15 1207

C1820

CERTIFICATE OF ANALYSIS

David E Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Avenue
Norwood, MA 02062

RE: Wynn Everett Sediment Phase (01.0171521.13 Task 001)
ESS Laboratory Work Order Number: 1503415

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard
Laboratory Director

REVIEWED
By ESS Laboratory at 5:24 pm, Apr 07, 2015

Analytical Summary
The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with NELAC Standards, A2LA and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.

Subcontracted Analyses

CTS - Cranston, RI	Grain Size Analysis, Percent Water

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503415

SAMPLE RECEIPT

The following samples were received on March 25, 2015 for the analyses specified on the enclosed Chain of Custody Record.

To achieve CAM compliance for MCP data, ESS Laboratory has performed and reviewed all QA/QC Requirements and Performance Standards listed in each method. Holding times and preservation have also been reviewed. All CAM requirements have been achieved unless noted in the project narrative.

Each method has been set-up in the laboratory to reach required MCP standards. The methods for aqueous VOA and Soil Methanol VOA have known limitations for certain analytes. The regulatory standards may not be achieved due to these limitations. In addition, for all methods, matrix interferences, dilutions, and %Solids may elevate method reporting limits above regulatory standards. ESS Laboratory can provide, upon request, a Data Checker (regulatory standard comparison spreadsheet) electronic deliverable which will highlight these exceedances.

For EPH soil samples, the aromatic range results have been corrected for identified cartridge contaminant in accordance with the CAM protocol.

Low Level VOA vials were frozen by ESS Laboratory on March 25, 2105 at 1429.

Question I: Samples GZ-202 (2-4), GZ-203 (4-6), GZ-204 (6-8), GZ-212 (0.5-2), GZ-216 (4-6), and GZ-217 (6-8) samples for SVOC were analyzed for a subset of the required MCP list per the client's request.

Samples were decanted, per client request, upon receipt by ESS.

Lab Number	Sample Name	Matrix	Analysis
1503415-01	GZ-202 0ft-0.5ft	Soil	8270D, EPH8270, MADEP-EPH
1503415-02	GZ-202 2ft-4ft	Soil	8270D
1503415-03	GZ-203 0ft-0.5ft	Soil	8270D, EPH8270, MADEP-EPH
1503415-04	GZ-203 4ft-6ft	Soil	8270D
1503415-05	GZ-203 0ft-3ft	Soil	§, 2580, 7.3.3.2, 7.3.4.1, 7196A, 8260B, 8260B Low, 8270D, 9045, EPH8270, MADEP-EPH
1503415-06	GZ-204 0ft-0.5ft	Soil	8270D, EPH8270, MADEP-EPH
1503415-07	GZ-204 2ft-4ft	Soil	8270D, EPH8270, MADEP-EPH
1503415-08	GZ-204 6ft-8ft	Soil	8270D
1503415-09	GZ-212 0ft-0.5ft	Soil	8270D, EPH8270, MADEP-EPH
1503415-10	GZ-212 0.5ft-2ft	Soil	8270D
1503415-11	GZ-216 0ft-0.5ft	Soil	8270D, EPH8270, MADEP-EPH
1503415-12	GZ-216 4ft-6ft	Soil	8270D
1503415-13	GZ-216 2ft-4ft	Soil	8270D, EPH8270, MADEP-EPH
1503415-14	GZ-217 0ft-0.5ft	Soil	8270D, EPH8270, MADEP-EPH

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase ESS Laboratory Work Order: 1503415

1503415-15	GZ-217 0ft-3ft	Soil	§, 2580, 7.3.3.2, 7.3.4.1, 7196A, 8260B, 8260B Low, 8270D, 9045, EPH8270, MADEP-EPH
1503415-16	GZ-217 6ft-8ft	Soil	8270D
1503415-17	GZ-202 0ft-0.5ft	Soil	6010C, 7010, 7471B
1503415-18	GZ-202 2ft-4ft	Soil	6010C, 7010, 7471B
1503415-19	GZ-203 0ft-0.5ft	Soil	6010C, 7010, 7471B
1503415-20	GZ-203 4ft-6ft	Soil	6010C, 7010, 7471B
1503415-21	GZ-203 0ft-3ft	Soil	6010C, 7010, 7471B
1503415-22	GZ-204 0ft-0.5ft	Soil	6010C, 7010, 7471B
1503415-23	GZ-204 2ft-4ft	Soil	6010C, 7010, 7471B
1503415-24	GZ-204 6ft-8ft	Soil	6010C, 7010, 7471B
1503415-25	GZ-212 0ft-0.5ft	Soil	6010C, 7010, 7471B
1503415-26	GZ-212 0.5ft-2ft	Soil	6010C, 7010, 7471B
1503415-27	GZ-216 0ft-0.5ft	Soil	6010C, 7010, 7471B
1503415-28	GZ-216 4ft-6ft	Soil	6010C, 7010, 7471B
1503415-29	GZ-216 2ft-4ft	Soil	6010C, 7010, 7471B
1503415-30	GZ-217 0ft-0.5ft	Soil	6010C, 7010, 7471B
1503415-31	GZ-217 0ft-3ft	Soil	6010C, 7010, 7471B
1503415-32	GZ-217 6ft-8ft	Soil	6010C, 7010, 7471B
1503415-33	GZ-202 0ft-0.5ft	Soil	8082A
1503415-34	GZ-203 0ft-0.5ft	Soil	8082A
1503415-35	GZ-203 0ft-3ft	Soil	8082A
1503415-36	GZ-204 0ft-0.5ft	Soil	8082A
1503415-37	GZ-204 2ft-4ft	Soil	8082A
1503415-38	GZ-212 0ft-0.5ft	Soil	8082A
1503415-39	GZ-216 0ft-0.5ft	Soil	8082A
1503415-40	GZ-216 2ft-4ft	Soil	8082A
1503415-41	GZ-217 0ft-0.5ft	Soil	8082A
1503415-42	GZ-217 0ft-3ft	Soil	8082A

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase ESS Laboratory Work Order: 1503415

PROJECT NARRATIVE

5035/8260B Volatile Organic Compounds / Low Level

1503415-05	**Internal Standard(s) outside of criteria. Sample was reanalyzed to confirm (IC).**
	1,4-Dichlorobenzene-D4 (35% @ 50-200%)
1503415-05	**Reported above the quantitation limit; Estimated value (E).**
	2-Chlorotoluene , 4-Chlorotoluene , Naphthalene
1503415-05RE1	**Internal Standard(s) outside of criteria. Sample was reanalyzed to confirm (IC).**
	1,4-Dichlorobenzene-D4 (33% @ 50-200%), Chlorobenzene-d5 (47% @ 50-200%)
1503415-05RE1	**Reported above the quantitation limit; Estimated value (E).**
	2-Chlorotoluene , 4-Chlorotoluene , Naphthalene
1503415-15	**Internal Standard(s) outside of criteria (I).**
	1,4-Dichlorobenzene-D4 (43% @ 50-200%)
CC52627-BS1	**Blank Spike recovery is above upper control limit (B+).**
	Bromomethane (185% @ 70-130%)
CC52627-BSD1	**Blank Spike recovery is above upper control limit (B+).**
	Bromomethane (152% @ 70-130%)
CYC0308-CCV1	**Continuing Calibration recovery is above upper control limit (C+).**
	Bromomethane (171% @ 70-130%)

5035/8260B Volatile Organic Compounds / Methanol

1503415-05	**Present in Method Blank (B).**
	Acetone
1503415-15	**Present in Method Blank (B).**
	Acetone
1503415-15	**Surrogate recovery(ies) above upper control limit (S+).**
	Dibromofluoromethane (136% @ 70-130%)
CC52745-BS1	**Blank Spike recovery is above upper control limit (B+).**
	Acetone (141% @ 70-130%)
CC52745-BSD1	**Blank Spike recovery is above upper control limit (B+).**
	Acetone (140% @ 70-130%)

8082A Polychlorinated Biphenyls (PCB)

1503415-35	**Surrogate recovery(ies) diluted below the MRL (SD).**
	Decachlorobiphenyl (% @ 30-150%), Decachlorobiphenyl [2C] (% @ 30-150%), Tetrachloro-m-xylene (% @ 30-150%), Tetrachloro-m-xylene [2C] (% @ 30-150%)
1503415-37	**Surrogate recovery(ies) diluted below the MRL (SD).**
	Decachlorobiphenyl (% @ 30-150%), Decachlorobiphenyl [2C] (% @ 30-150%), Tetrachloro-m-xylene (% @ 30-150%), Tetrachloro-m-xylene [2C] (% @ 30-150%)

8270D Semi-Volatile Organic Compounds

1503415-13	**Surrogate recovery(ies) below lower control limit (S-).**
	2,4,6-Tribromophenol (21% @ 30-130%)
1503415-14	**Surrogate recovery(ies) below lower control limit (S-).**

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase ESS Laboratory Work Order: 1503415

2,4,6-Tribromophenol (17% @ 30-130%)

1503415-15 **Surrogate recovery(ies) below lower control limit (S-).**
2,4,6-Tribromophenol (5% @ 30-130%)

CC52608-BS1 **Blank Spike recovery is below lower control limit (B-).**
N-Nitrosodimethylamine (37% @ 40-140%)

CC52608-BSD1 **Blank Spike recovery is below lower control limit (B-).**
N-Nitrosodimethylamine (37% @ 40-140%)

CYC0313-CCV1 **Calibration required quadratic regression (Q).**
2,4-Dinitrophenol (93% @ 80-120%), bis(2-Ethylhexyl)phthalate (90% @ 80-120%), Di-n-octylphthalate (92% @ 80-120%)

CYC0313-CCV1 **Continuing Calibration recovery is below lower control limit (C-).**
N-Nitrosodimethylamine (75% @ 80-120%)

CYC0317-CCV1 **Calibration required quadratic regression (Q).**
2,4-Dinitrophenol (75% @ 80-120%), bis(2-Ethylhexyl)phthalate (91% @ 80-120%), Di-n-octylphthalate (92% @ 80-120%)

CYC0317-CCV1 **Continuing Calibration recovery is below lower control limit (C-).**
2,4-Dinitrophenol (75% @ 80-120%), 4-Nitrophenol (79% @ 80-120%), N-Nitrosodimethylamine (73% @ 80-120%)

8270D(SIM) Polynuclear Aromatic Hydrocarbons

1503415-07 **Elevated Method Reporting Limits due to sample matrix (EL).**
Acenaphthene , Hexachlorobenzene

1503415-14 **Surrogate recovery(ies) below lower control limit (S-).**
1,2-Dichlorobenzene-d4 (29% @ 30-130%)

CC52609-MS1 **Matrix Spike recovery is below lower control limit (M-).**
2-Methylnaphthalene (38% @ 40-140%), Naphthalene (31% @ 40-140%), Phenanthrene (34% @ 40-140%)

CC52609-MSD1 **Matrix Spike recovery is above upper control limit (M+).**

CC52609-MSD1 **Relative percent difference for duplicate is outside of criteria (D+).**

Classical Chemistry

1503415-05 **Estimated value. Sample hold times were exceeded (H).**
Corrosivity (pH) , Corrosivity (pH) Sample Temp , Eh (ORP)

1503415-15 **Estimated value. Sample hold times were exceeded (H).**
Corrosivity (pH) , Corrosivity (pH) Sample Temp , Eh (ORP)

Total Metals

CC52701-MS1 **Matrix Spike recovery is below lower control limit (M-).**
Antimony (24% @ 75-125%), Lead (64% @ 75-125%), Nickel (69% @ 75-125%), Selenium (72% @ 75-125%), Thallium (40% @ 75-125%), Zinc (59% @ 75-125%)

CC52701-MS2 **Matrix Spike recovery is below lower control limit (M-).**
Antimony (15% @ 75-125%)

CC52702-MS1 **Matrix Spike recovery is below lower control limit (M-).**
Mercury (11% @ 75-125%)

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503415

No other observations noted.

End of Project Narrative.

DATA USABILITY LINKS

Definitions of Quality Control Parameters

Semivolatile Organics Internal Standard Information

Semivolatile Organics Surrogate Information

Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists

CURRENT SW-846 METHODOLOGY VERSIONS

Analytical Methods

1010A - Flashpoint
6010C - ICP
6020A - ICP MS
7010 - Graphite Furnace
7196A - Hexavalent Chromium
7470A - Aqueous Mercury
7471B - Solid Mercury
8011 - EDB/DBCP/TCP
8015D - GRO/DRO
8081B - Pesticides
8082A - PCB
8100M - TPH
8151A - Herbicides
8260B - VOA
8270D - SVOA
8270D SIM - SVOA Low Level
9014 - Cyanide
9038 - Sulfate
9040C - Aqueous pH
9045D - Solid pH (Corrosivity)
9050A - Specific Conductance
9056A - Anions (IC)
9060A - TOC
9095B - Paint Filter
MADEP 04-1.1 - EPH / VPH

Prep Methods

3005A - Aqueous ICP and Graphite Furnace Digestion
3020A - Aqueous ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3546 - Microwave Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5030C - Aqueous Purge and Trap
5035 - Solid Purge and Trap

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503415

MassDEP Analytical Protocol Certification Form

MADEP RTN: _____

This form provides certification for the following data set: **1503415-01 through 1503415-42**

Matrices: ( ) Ground Water/Surface Water (X) Soil/Sediment ( ) Drinking Water ( ) Air ( ) Other:_____

CAM Protocol (check all that apply below):

(X) 8260 VOC CAM II A	(X) 7470/7471 Hg CAM III B	( ) MassDEP VPH CAM IV A	( ) 8081 Pesticides CAM V B	( ) 7196 Hex Cr CAM VI B	( ) MassDEP APH CAM IX A
(X) 8270 SVOC CAM II B	(X) 7010 Metals CAM III C	(X) MassDEP EPH CAM IV B	( ) 8151 Herbicides CAM V C	( ) 8330 Explosives CAM VIII A	( ) TO-15 VOC CAM IX B
(X) 6010 Metals CAM III A	( ) 6020 Metals CAM III D	(X) 8082 PCB CAM V A	( ) 6860 Perchlorate CAM VIII B	( ) 9014 Total Cyanide/PAC CAM VI A	

Affirmative responses to questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	Yes (X) No ( )
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	Yes (X) No ( )
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	Yes (X) No ( )
D	Does the laboratory report comply with all the reporting requirements specified in the CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	Yes (X) No ( )
E	a. VPH, EPH, APH and TO-15 only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	Yes (X) No ( )
	b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	Yes ( ) No ( )
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	Yes (X) No ( )

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocols(s)?	Yes (X) No ( )*
	***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**	
H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	Yes ( ) No (X)*
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	Yes ( ) No (X)*

All negative responses must be addressed in an attached laboratory narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: _____ Date: April 07, 2015

Printed Name: Laurel Stoddard Position: Laboratory Director

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-202 0ft-0.5ft
Date Sampled: 03/24/15 11:30
Percent Solids: 25
Initial Volume: 30.1
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503415
ESS Laboratory Sample ID: 1503415-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 3/26/15 15:21

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.663)		8270D		1	03/26/15 23:40	CYC0313	CC52608
1,2-Dichlorobenzene	ND (0.663)		8270D		1	03/26/15 23:40	CYC0313	CC52608
1,3-Dichlorobenzene	ND (0.663)		8270D		1	03/26/15 23:40	CYC0313	CC52608
1,4-Dichlorobenzene	ND (0.663)		8270D		1	03/26/15 23:40	CYC0313	CC52608
2,4,5-Trichlorophenol	ND (0.663)		8270D		1	03/26/15 23:40	CYC0313	CC52608
2,4,6-Trichlorophenol	ND (0.663)		8270D		1	03/26/15 23:40	CYC0313	CC52608
2,4-Dichlorophenol	ND (0.663)		8270D		1	03/26/15 23:40	CYC0313	CC52608
2,4-Dimethylphenol	ND (0.663)		8270D		1	03/26/15 23:40	CYC0313	CC52608
2,4-Dinitrophenol	ND (3.33)		8270D		1	03/26/15 23:40	CYC0313	CC52608
2,4-Dinitrotoluene	ND (0.663)		8270D		1	03/26/15 23:40	CYC0313	CC52608
2,6-Dinitrotoluene	ND (0.663)		8270D		1	03/26/15 23:40	CYC0313	CC52608
2-Chloronaphthalene	ND (0.663)		8270D		1	03/26/15 23:40	CYC0313	CC52608
2-Chlorophenol	ND (0.663)		8270D		1	03/26/15 23:40	CYC0313	CC52608
2-Methylphenol	ND (0.663)		8270D		1	03/26/15 23:40	CYC0313	CC52608
2-Nitrophenol	ND (0.663)		8270D		1	03/26/15 23:40	CYC0313	CC52608
3,3´-Dichlorobenzidine	ND (1.33)		8270D		1	03/26/15 23:40	CYC0313	CC52608
3+4-Methylphenol	ND (1.33)		8270D		1	03/26/15 23:40	CYC0313	CC52608
4-Bromophenyl-phenylether	ND (0.663)		8270D		1	03/26/15 23:40	CYC0313	CC52608
4-Chloroaniline	ND (1.33)		8270D		1	03/26/15 23:40	CYC0313	CC52608
4-Nitrophenol	ND (3.33)		8270D		1	03/26/15 23:40	CYC0313	CC52608
Acetophenone	ND (1.33)		8270D		1	03/26/15 23:40	CYC0313	CC52608
Aniline	ND (3.33)		8270D		1	03/26/15 23:40	CYC0313	CC52608
Azobenzene	ND (0.663)		8270D		1	03/26/15 23:40	CYC0313	CC52608
bis(2-Chloroethoxy)methane	ND (0.663)		8270D		1	03/26/15 23:40	CYC0313	CC52608
bis(2-Chloroethyl)ether	ND (0.663)		8270D		1	03/26/15 23:40	CYC0313	CC52608
bis(2-chloroisopropyl)Ether	ND (0.663)		8270D		1	03/26/15 23:40	CYC0313	CC52608
bis(2-Ethylhexyl)phthalate	**1.10** (0.663)		8270D		1	03/26/15 23:40	CYC0313	CC52608
Butylbenzylphthalate	ND (0.663)		8270D		1	03/26/15 23:40	CYC0313	CC52608
Dibenzofuran	ND (0.663)		8270D		1	03/26/15 23:40	CYC0313	CC52608
Diethylphthalate	ND (0.663)		8270D		1	03/26/15 23:40	CYC0313	CC52608
Dimethylphthalate	ND (0.663)		8270D		1	03/26/15 23:40	CYC0313	CC52608
Di-n-butylphthalate	ND (0.663)		8270D		1	03/26/15 23:40	CYC0313	CC52608

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-202 0ft-0.5ft
Date Sampled: 03/24/15 11:30
Percent Solids: 25
Initial Volume: 30.1
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503415
ESS Laboratory Sample ID: 1503415-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 3/26/15 15:21

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Di-n-octylphthalate	ND (0.663)		8270D		1	03/26/15 23:40	CYC0313	CC52608
Hexachlorobenzene	ND (0.663)		8270D		1	03/26/15 23:40	CYC0313	CC52608
Hexachlorobutadiene	ND (0.663)		8270D		1	03/26/15 23:40	CYC0313	CC52608
Hexachloroethane	ND (0.663)		8270D		1	03/26/15 23:40	CYC0313	CC52608
Isophorone	ND (0.663)		8270D		1	03/26/15 23:40	CYC0313	CC52608
Nitrobenzene	ND (0.663)		8270D		1	03/26/15 23:40	CYC0313	CC52608
N-Nitrosodimethylamine	ND (0.663)		8270D		1	03/26/15 23:40	CYC0313	CC52608
Pentachlorophenol	ND (3.33)		8270D		1	03/26/15 23:40	CYC0313	CC52608
Phenol	ND (0.663)		8270D		1	03/26/15 23:40	CYC0313	CC52608

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*41 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*69 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*43 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*48 %*		*30-130*
Surrogate: 2-Fluorophenol	*39 %*		*30-130*
Surrogate: Nitrobenzene-d5	*41 %*		*30-130*
Surrogate: Phenol-d6	*43 %*		*30-130*
Surrogate: p-Terphenyl-d14	*72 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-202 0ft-0.5ft
Date Sampled: 03/24/15 11:30
Percent Solids: 25
Initial Volume: 20.1
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503415
ESS Laboratory Sample ID: 1503415-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 3/26/15 16:45

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	ND (0.050)		8270D		1	03/28/15 21:14	CYC0341	CC52609
Acenaphthene	**0.049** (0.020)		8270D		1	03/28/15 21:14	CYC0341	CC52609
Acenaphthylene	**0.190** (0.050)		8270D		1	03/28/15 21:14	CYC0341	CC52609
Anthracene	**0.187** (0.050)		8270D		1	03/28/15 21:14	CYC0341	CC52609
Benzo(a)anthracene	**0.521** (0.050)		8270D		1	03/28/15 21:14	CYC0341	CC52609
Benzo(a)pyrene	**0.690** (0.050)		8270D		1	03/28/15 21:14	CYC0341	CC52609
Benzo(b)fluoranthene	**1.07** (0.050)		8270D		1	03/28/15 21:14	CYC0341	CC52609
Benzo(g,h,i)perylene	**0.581** (0.050)		8270D		1	03/28/15 21:14	CYC0341	CC52609
Benzo(k)fluoranthene	**0.337** (0.050)		8270D		1	03/28/15 21:14	CYC0341	CC52609
Chrysene	**0.693** (0.050)		8270D		1	03/28/15 21:14	CYC0341	CC52609
Dibenzo(a,h)Anthracene	**0.146** (0.050)		8270D		1	03/28/15 21:14	CYC0341	CC52609
Fluoranthene	**1.07** (0.050)		8270D		1	03/28/15 21:14	CYC0341	CC52609
Fluorene	**0.073** (0.050)		8270D		1	03/28/15 21:14	CYC0341	CC52609
Hexachlorobenzene	ND (0.020)		8270D		1	03/28/15 21:14	CYC0341	CC52609
Indeno(1,2,3-cd)Pyrene	**0.628** (0.050)		8270D		1	03/28/15 21:14	CYC0341	CC52609
Naphthalene	**0.223** (0.050)		8270D		1	03/28/15 21:14	CYC0341	CC52609
Phenanthrene	**0.442** (0.050)		8270D		1	03/28/15 21:14	CYC0341	CC52609
Pyrene	**1.09** (0.050)		8270D		1	03/28/15 21:14	CYC0341	CC52609

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*41 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*63 %*		*30-130*
Surrogate: Nitrobenzene-d5	*56 %*		*30-130*
Surrogate: p-Terphenyl-d14	*72 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-202 0ft-0.5ft
Date Sampled: 03/24/15 11:30
Percent Solids: 25
Initial Volume: 30.1
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1503415
ESS Laboratory Sample ID: 1503415-01
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 3/26/15 16:10

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (49.8)		MADEP-EPH		1	DPS	03/26/15 21:57	CYC0307	CC52536
C19-C36 Aliphatics1	**256** (49.8)		MADEP-EPH		1	DPS	03/26/15 21:57	CYC0307	CC52536
C11-C22 Unadjusted Aromatics1	**103** (49.8)		EPH8270		1	JXS	03/27/15 18:07	CYC0333	CC52536
C11-C22 Aromatics1,2	**97.3** (49.8)		EPH8270			JXS	03/27/15 18:07		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*57 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*106 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*102 %*		*40-140*
Surrogate: O-Terphenyl	*66 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-202 2ft-4ft
Date Sampled: 03/24/15 11:30
Percent Solids: 62
Initial Volume: 20.3
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503415
ESS Laboratory Sample ID: 1503415-02
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 3/26/15 16:45

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	ND (0.020)		8270D		1	03/30/15 21:42	CYC0345	CC52609
Acenaphthene	**0.027** (0.020)		8270D		1	03/30/15 21:42	CYC0345	CC52609
Acenaphthylene	**0.052** (0.020)		8270D		1	03/30/15 21:42	CYC0345	CC52609
Anthracene	**0.054** (0.020)		8270D		1	03/30/15 21:42	CYC0345	CC52609
Benzo(a)anthracene	**0.075** (0.020)		8270D		1	03/30/15 21:42	CYC0345	CC52609
Benzo(a)pyrene	**0.103** (0.020)		8270D		1	03/30/15 21:42	CYC0345	CC52609
Benzo(b)fluoranthene	**0.121** (0.020)		8270D		1	03/30/15 21:42	CYC0345	CC52609
Benzo(g,h,i)perylene	ND (0.020)		8270D		1	03/30/15 21:42	CYC0345	CC52609
Benzo(k)fluoranthene	**0.052** (0.020)		8270D		1	03/30/15 21:42	CYC0345	CC52609
Chrysene	**0.101** (0.020)		8270D		1	03/30/15 21:42	CYC0345	CC52609
Dibenzo(a,h)Anthracene	ND (0.020)		8270D		1	03/30/15 21:42	CYC0345	CC52609
Fluoranthene	**0.177** (0.020)		8270D		1	03/30/15 21:42	CYC0345	CC52609
Fluorene	**0.027** (0.020)		8270D		1	03/30/15 21:42	CYC0345	CC52609
Hexachlorobenzene	ND (0.008)		8270D		1	03/30/15 21:42	CYC0345	CC52609
Indeno(1,2,3-cd)Pyrene	ND (0.020)		8270D		1	03/30/15 21:42	CYC0345	CC52609
Naphthalene	**0.126** (0.020)		8270D		1	03/30/15 21:42	CYC0345	CC52609
Phenanthrene	**0.088** (0.020)		8270D		1	03/30/15 21:42	CYC0345	CC52609
Pyrene	**0.231** (0.020)		8270D		1	03/30/15 21:42	CYC0345	CC52609

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*51 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*64 %*		*30-130*
Surrogate: Nitrobenzene-d5	*75 %*		*30-130*
Surrogate: p-Terphenyl-d14	*70 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-203 0ft-0.5ft
Date Sampled: 03/24/15 12:30
Percent Solids: 36
Initial Volume: 30.2
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503415
ESS Laboratory Sample ID: 1503415-03
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 3/26/15 15:21

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.460)		8270D		1	03/27/15 0:16	CYC0313	CC52608
1,2-Dichlorobenzene	ND (0.460)		8270D		1	03/27/15 0:16	CYC0313	CC52608
1,3-Dichlorobenzene	ND (0.460)		8270D		1	03/27/15 0:16	CYC0313	CC52608
1,4-Dichlorobenzene	ND (0.460)		8270D		1	03/27/15 0:16	CYC0313	CC52608
2,4,5-Trichlorophenol	ND (0.460)		8270D		1	03/27/15 0:16	CYC0313	CC52608
2,4,6-Trichlorophenol	ND (0.460)		8270D		1	03/27/15 0:16	CYC0313	CC52608
2,4-Dichlorophenol	ND (0.460)		8270D		1	03/27/15 0:16	CYC0313	CC52608
2,4-Dimethylphenol	ND (0.460)		8270D		1	03/27/15 0:16	CYC0313	CC52608
2,4-Dinitrophenol	ND (2.31)		8270D		1	03/27/15 0:16	CYC0313	CC52608
2,4-Dinitrotoluene	ND (0.460)		8270D		1	03/27/15 0:16	CYC0313	CC52608
2,6-Dinitrotoluene	ND (0.460)		8270D		1	03/27/15 0:16	CYC0313	CC52608
2-Chloronaphthalene	ND (0.460)		8270D		1	03/27/15 0:16	CYC0313	CC52608
2-Chlorophenol	ND (0.460)		8270D		1	03/27/15 0:16	CYC0313	CC52608
2-Methylphenol	ND (0.460)		8270D		1	03/27/15 0:16	CYC0313	CC52608
2-Nitrophenol	ND (0.460)		8270D		1	03/27/15 0:16	CYC0313	CC52608
3,3´-Dichlorobenzidine	ND (0.922)		8270D		1	03/27/15 0:16	CYC0313	CC52608
3+4-Methylphenol	ND (0.922)		8270D		1	03/27/15 0:16	CYC0313	CC52608
4-Bromophenyl-phenylether	ND (0.460)		8270D		1	03/27/15 0:16	CYC0313	CC52608
4-Chloroaniline	ND (0.922)		8270D		1	03/27/15 0:16	CYC0313	CC52608
4-Nitrophenol	ND (2.31)		8270D		1	03/27/15 0:16	CYC0313	CC52608
Acetophenone	ND (0.922)		8270D		1	03/27/15 0:16	CYC0313	CC52608
Aniline	ND (2.31)		8270D		1	03/27/15 0:16	CYC0313	CC52608
Azobenzene	ND (0.460)		8270D		1	03/27/15 0:16	CYC0313	CC52608
bis(2-Chloroethoxy)methane	ND (0.460)		8270D		1	03/27/15 0:16	CYC0313	CC52608
bis(2-Chloroethyl)ether	ND (0.460)		8270D		1	03/27/15 0:16	CYC0313	CC52608
bis(2-chloroisopropyl)Ether	ND (0.460)		8270D		1	03/27/15 0:16	CYC0313	CC52608
bis(2-Ethylhexyl)phthalate	**2.04** (0.460)		8270D		1	03/27/15 0:16	CYC0313	CC52608
Butylbenzylphthalate	ND (0.460)		8270D		1	03/27/15 0:16	CYC0313	CC52608
Dibenzofuran	ND (0.460)		8270D		1	03/27/15 0:16	CYC0313	CC52608
Diethylphthalate	ND (0.460)		8270D		1	03/27/15 0:16	CYC0313	CC52608
Dimethylphthalate	ND (0.460)		8270D		1	03/27/15 0:16	CYC0313	CC52608
Di-n-butylphthalate	ND (0.460)		8270D		1	03/27/15 0:16	CYC0313	CC52608

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-203 0ft-0.5ft
Date Sampled: 03/24/15 12:30
Percent Solids: 36
Initial Volume: 30.2
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503415
ESS Laboratory Sample ID: 1503415-03
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 3/26/15 15:21

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Di-n-octylphthalate	ND (0.460)		8270D		1	03/27/15 0:16	CYC0313	CC52608
Hexachlorobenzene	ND (0.460)		8270D		1	03/27/15 0:16	CYC0313	CC52608
Hexachlorobutadiene	ND (0.460)		8270D		1	03/27/15 0:16	CYC0313	CC52608
Hexachloroethane	ND (0.460)		8270D		1	03/27/15 0:16	CYC0313	CC52608
Isophorone	ND (0.460)		8270D		1	03/27/15 0:16	CYC0313	CC52608
Nitrobenzene	ND (0.460)		8270D		1	03/27/15 0:16	CYC0313	CC52608
N-Nitrosodimethylamine	ND (0.460)		8270D		1	03/27/15 0:16	CYC0313	CC52608
Pentachlorophenol	ND (2.31)		8270D		1	03/27/15 0:16	CYC0313	CC52608
Phenol	ND (0.460)		8270D		1	03/27/15 0:16	CYC0313	CC52608

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*43 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*70 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*44 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*50 %*		*30-130*
Surrogate: 2-Fluorophenol	*40 %*		*30-130*
Surrogate: Nitrobenzene-d5	*42 %*		*30-130*
Surrogate: Phenol-d6	*44 %*		*30-130*
Surrogate: p-Terphenyl-d14	*67 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-203 0ft-0.5ft
Date Sampled: 03/24/15 12:30
Percent Solids: 36
Initial Volume: 20.3
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503415
ESS Laboratory Sample ID: 1503415-03
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 3/26/15 16:45

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	ND (0.034)		8270D		1	03/27/15 8:40	CYC0318	CC52609
Acenaphthene	**0.030** (0.014)		8270D		1	03/27/15 8:40	CYC0318	CC52609
Acenaphthylene	**0.103** (0.034)		8270D		1	03/27/15 8:40	CYC0318	CC52609
Anthracene	**0.111** (0.034)		8270D		1	03/27/15 8:40	CYC0318	CC52609
Benzo(a)anthracene	**0.321** (0.034)		8270D		1	03/27/15 8:40	CYC0318	CC52609
Benzo(a)pyrene	**0.451** (0.034)		8270D		1	03/27/15 8:40	CYC0318	CC52609
Benzo(b)fluoranthene	**0.655** (0.034)		8270D		1	03/27/15 8:40	CYC0318	CC52609
Benzo(g,h,i)perylene	**0.407** (0.034)		8270D		1	03/27/15 8:40	CYC0318	CC52609
Benzo(k)fluoranthene	**0.159** (0.034)		8270D		1	03/27/15 8:40	CYC0318	CC52609
Chrysene	**0.479** (0.034)		8270D		1	03/27/15 8:40	CYC0318	CC52609
Dibenzo(a,h)Anthracene	**0.096** (0.034)		8270D		1	03/27/15 8:40	CYC0318	CC52609
Fluoranthene	**0.682** (0.034)		8270D		1	03/27/15 8:40	CYC0318	CC52609
Fluorene	**0.040** (0.034)		8270D		1	03/27/15 8:40	CYC0318	CC52609
Hexachlorobenzene	ND (0.014)		8270D		1	03/27/15 8:40	CYC0318	CC52609
Indeno(1,2,3-cd)Pyrene	**0.416** (0.034)		8270D		1	03/27/15 8:40	CYC0318	CC52609
Naphthalene	**0.131** (0.034)		8270D		1	03/27/15 8:40	CYC0318	CC52609
Phenanthrene	**0.293** (0.034)		8270D		1	03/27/15 8:40	CYC0318	CC52609
Pyrene	**0.705** (0.034)		8270D		1	03/27/15 8:40	CYC0318	CC52609

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*36 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*56 %*		*30-130*
Surrogate: Nitrobenzene-d5	*42 %*		*30-130*
Surrogate: p-Terphenyl-d14	*66 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-203 0ft-0.5ft
Date Sampled: 03/24/15 12:30
Percent Solids: 36
Initial Volume: 30.1
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1503415
ESS Laboratory Sample ID: 1503415-03
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 3/26/15 16:10

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (34.7)		MADEP-EPH		1	DPS	03/26/15 22:48	CYC0307	CC52536
C19-C36 Aliphatics1	**106** (34.7)		MADEP-EPH		1	DPS	03/26/15 22:48	CYC0307	CC52536
C11-C22 Unadjusted Aromatics1	**63.1** (34.7)		EPH8270		1	JXS	03/27/15 18:42	CYC0333	CC52536
C11-C22 Aromatics1,2	**54.6** (34.7)		EPH8270			JXS	03/27/15 18:42		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*59 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*99 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*93 %*		*40-140*
Surrogate: O-Terphenyl	*72 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-203 4ft-6ft
Date Sampled: 03/24/15 12:30
Percent Solids: 62
Initial Volume: 20.5
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503415
ESS Laboratory Sample ID: 1503415-04
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 3/26/15 16:45

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	**0.022** (0.020)		8270D		1	03/26/15 21:15	CYC0319	CC52609
Acenaphthene	**0.021** (0.020)		8270D		1	03/26/15 21:15	CYC0319	CC52609
Acenaphthylene	ND (0.020)		8270D		1	03/26/15 21:15	CYC0319	CC52609
Anthracene	ND (0.020)		8270D		1	03/26/15 21:15	CYC0319	CC52609
Benzo(a)anthracene	ND (0.020)		8270D		1	03/26/15 21:15	CYC0319	CC52609
Benzo(a)pyrene	ND (0.020)		8270D		1	03/26/15 21:15	CYC0319	CC52609
Benzo(b)fluoranthene	ND (0.020)		8270D		1	03/26/15 21:15	CYC0319	CC52609
Benzo(g,h,i)perylene	ND (0.020)		8270D		1	03/26/15 21:15	CYC0319	CC52609
Benzo(k)fluoranthene	ND (0.020)		8270D		1	03/26/15 21:15	CYC0319	CC52609
Chrysene	ND (0.020)		8270D		1	03/26/15 21:15	CYC0319	CC52609
Dibenzo(a,h)Anthracene	ND (0.020)		8270D		1	03/26/15 21:15	CYC0319	CC52609
Fluoranthene	ND (0.020)		8270D		1	03/26/15 21:15	CYC0319	CC52609
Fluorene	ND (0.020)		8270D		1	03/26/15 21:15	CYC0319	CC52609
Hexachlorobenzene	ND (0.008)		8270D		1	03/26/15 21:15	CYC0319	CC52609
Indeno(1,2,3-cd)Pyrene	ND (0.020)		8270D		1	03/26/15 21:15	CYC0319	CC52609
Naphthalene	**0.202** (0.020)		8270D		1	03/26/15 21:15	CYC0319	CC52609
Phenanthrene	ND (0.020)		8270D		1	03/26/15 21:15	CYC0319	CC52609
Pyrene	ND (0.020)		8270D		1	03/26/15 21:15	CYC0319	CC52609

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*64 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*74 %*		*30-130*
Surrogate: Nitrobenzene-d5	*61 %*		*30-130*
Surrogate: p-Terphenyl-d14	*79 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-203 0ft-3ft
Date Sampled: 03/24/15 12:30
Percent Solids: 35
Initial Volume: 11.1
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1503415
ESS Laboratory Sample ID: 1503415-05
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.0063)		8260B Low		1	03/26/15 14:10	CYC0308	CC52627
1,1,1-Trichloroethane	ND (0.0063)		8260B Low		1	03/26/15 14:10	CYC0308	CC52627
1,1,2,2-Tetrachloroethane	ND (0.0025)		8260B Low		1	03/26/15 14:10	CYC0308	CC52627
1,1,2-Trichloroethane	ND (0.0063)		8260B Low		1	03/26/15 14:10	CYC0308	CC52627
1,1-Dichloroethane	ND (0.0063)		8260B Low		1	03/26/15 14:10	CYC0308	CC52627
1,1-Dichloroethene	ND (0.0063)		8260B Low		1	03/26/15 14:10	CYC0308	CC52627
1,1-Dichloropropene	ND (0.0063)		8260B Low		1	03/26/15 14:10	CYC0308	CC52627
1,2,3-Trichlorobenzene	ND (0.0063)		8260B Low		1	03/26/15 14:10	CYC0308	CC52627
1,2,3-Trichloropropane	ND (0.0063)		8260B Low		1	03/26/15 14:10	CYC0308	CC52627
1,2,4-Trichlorobenzene	ND (0.0063)		8260B Low		1	03/26/15 14:10	CYC0308	CC52627
1,2,4-Trimethylbenzene	**0.0382** (0.0063)		8260B Low		1	03/26/15 14:10	CYC0308	CC52627
1,2-Dibromo-3-Chloropropane	ND (0.0063)		8260B Low		1	03/26/15 14:10	CYC0308	CC52627
1,2-Dibromoethane	ND (0.0063)		8260B Low		1	03/26/15 14:10	CYC0308	CC52627
1,2-Dichlorobenzene	ND (0.0063)		8260B Low		1	03/26/15 14:10	CYC0308	CC52627
1,2-Dichloroethane	ND (0.0063)		8260B Low		1	03/26/15 14:10	CYC0308	CC52627
1,2-Dichloropropane	ND (0.0063)		8260B Low		1	03/26/15 14:10	CYC0308	CC52627
1,3,5-Trimethylbenzene	**0.0234** (0.0063)		8260B Low		1	03/26/15 14:10	CYC0308	CC52627
1,3-Dichlorobenzene	ND (0.0063)		8260B Low		1	03/26/15 14:10	CYC0308	CC52627
1,3-Dichloropropane	ND (0.0063)		8260B Low		1	03/26/15 14:10	CYC0308	CC52627
1,4-Dichlorobenzene	ND (0.0063)		8260B Low		1	03/26/15 14:10	CYC0308	CC52627
1,4-Dioxane	ND (0.127)		8260B Low		1	03/26/15 14:10	CYC0308	CC52627
2,2-Dichloropropane	ND (0.0063)		8260B Low		1	03/26/15 14:10	CYC0308	CC52627
2-Butanone	**0.205** (0.0127)		8260B Low		1	03/26/15 14:10	CYC0308	CC52627
2-Chlorotoluene	**E 2.12** (0.0063)		8260B Low		1	03/26/15 14:10	CYC0308	CC52627
2-Hexanone	ND (0.0127)		8260B Low		1	03/26/15 14:10	CYC0308	CC52627
4-Chlorotoluene	**E 0.825** (0.0063)		8260B Low		1	03/26/15 14:10	CYC0308	CC52627
4-Isopropyltoluene	ND (0.0063)		8260B Low		1	03/26/15 14:10	CYC0308	CC52627
4-Methyl-2-Pentanone	**0.0163** (0.0127)		8260B Low		1	03/26/15 14:10	CYC0308	CC52627
Acetone	**1.18** (0.0127)		8260B Low		1	03/26/15 14:10	CYC0308	CC52627
Benzene	**0.0366** (0.0063)		8260B Low		1	03/26/15 14:10	CYC0308	CC52627
Bromobenzene	ND (0.0063)		8260B Low		1	03/26/15 14:10	CYC0308	CC52627
Bromochloromethane	ND (0.0063)		8260B Low		1	03/26/15 14:10	CYC0308	CC52627

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-203 0ft-3ft
Date Sampled: 03/24/15 12:30
Percent Solids: 35
Initial Volume: 11.1
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1503415
ESS Laboratory Sample ID: 1503415-05
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Bromodichloromethane	ND (0.0063)		8260B Low		1	03/26/15 14:10	CYC0308	CC52627
Bromoform	ND (0.0063)		8260B Low		1	03/26/15 14:10	CYC0308	CC52627
Bromomethane	ND (0.0127)		8260B Low		1	03/26/15 14:10	CYC0308	CC52627
Carbon Disulfide	**0.0294** (0.0063)		8260B Low		1	03/26/15 14:10	CYC0308	CC52627
Carbon Tetrachloride	ND (0.0063)		8260B Low		1	03/26/15 14:10	CYC0308	CC52627
Chlorobenzene	**0.0324** (0.0063)		8260B Low		1	03/26/15 14:10	CYC0308	CC52627
Chloroethane	ND (0.0127)		8260B Low		1	03/26/15 14:10	CYC0308	CC52627
Chloroform	ND (0.0063)		8260B Low		1	03/26/15 14:10	CYC0308	CC52627
Chloromethane	ND (0.0127)		8260B Low		1	03/26/15 14:10	CYC0308	CC52627
cis-1,2-Dichloroethene	ND (0.0063)		8260B Low		1	03/26/15 14:10	CYC0308	CC52627
cis-1,3-Dichloropropene	ND (0.0063)		8260B Low		1	03/26/15 14:10	CYC0308	CC52627
Dibromochloromethane	ND (0.0025)		8260B Low		1	03/26/15 14:10	CYC0308	CC52627
Dibromomethane	ND (0.0063)		8260B Low		1	03/26/15 14:10	CYC0308	CC52627
Dichlorodifluoromethane	ND (0.0127)		8260B Low		1	03/26/15 14:10	CYC0308	CC52627
Diethyl Ether	**0.0102** (0.0063)		8260B Low		1	03/26/15 14:10	CYC0308	CC52627
Di-isopropyl ether	ND (0.0063)		8260B Low		1	03/26/15 14:10	CYC0308	CC52627
Ethyl tertiary-butyl ether	ND (0.0063)		8260B Low		1	03/26/15 14:10	CYC0308	CC52627
Ethylbenzene	**0.180** (0.0063)		8260B Low		1	03/26/15 14:10	CYC0308	CC52627
Hexachlorobutadiene	ND (0.0063)		8260B Low		1	03/26/15 14:10	CYC0308	CC52627
Isopropylbenzene	**0.0088** (0.0063)		8260B Low		1	03/26/15 14:10	CYC0308	CC52627
Methyl tert-Butyl Ether	ND (0.0063)		8260B Low		1	03/26/15 14:10	CYC0308	CC52627
Methylene Chloride	ND (0.0127)		8260B Low		1	03/26/15 14:10	CYC0308	CC52627
Naphthalene	**E 0.761** (0.0063)		8260B Low		1	03/26/15 14:10	CYC0308	CC52627
n-Butylbenzene	ND (0.0063)		8260B Low		1	03/26/15 14:10	CYC0308	CC52627
n-Propylbenzene	ND (0.0063)		8260B Low		1	03/26/15 14:10	CYC0308	CC52627
sec-Butylbenzene	**0.0069** (0.0063)		8260B Low		1	03/26/15 14:10	CYC0308	CC52627
Styrene	ND (0.0063)		8260B Low		1	03/26/15 14:10	CYC0308	CC52627
tert-Butylbenzene	ND (0.0063)		8260B Low		1	03/26/15 14:10	CYC0308	CC52627
Tertiary-amyl methyl ether	ND (0.0063)		8260B Low		1	03/26/15 14:10	CYC0308	CC52627
Tetrachloroethene	ND (0.0063)		8260B Low		1	03/26/15 14:10	CYC0308	CC52627
Tetrahydrofuran	ND (0.0063)		8260B Low		1	03/26/15 14:10	CYC0308	CC52627
Toluene	**0.0423** (0.0063)		8260B Low		1	03/26/15 14:10	CYC0308	CC52627

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-203 0ft-3ft
Date Sampled: 03/24/15 12:30
Percent Solids: 35
Initial Volume: 11.1
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1503415
ESS Laboratory Sample ID: 1503415-05
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
trans-1,2-Dichloroethene	ND (0.0063)		8260B Low		1	03/26/15 14:10	CYC0308	CC52627
trans-1,3-Dichloropropene	ND (0.0063)		8260B Low		1	03/26/15 14:10	CYC0308	CC52627
Trichloroethene	ND (0.0063)		8260B Low		1	03/26/15 14:10	CYC0308	CC52627
Trichlorofluoromethane	ND (0.0063)		8260B Low		1	03/26/15 14:10	CYC0308	CC52627
Vinyl Chloride	ND (0.0127)		8260B Low		1	03/26/15 14:10	CYC0308	CC52627
Xylene O	**0.0501** (0.0063)		8260B Low		1	03/26/15 14:10	CYC0308	CC52627
Xylene P,M	**0.0758** (0.0127)		8260B Low		1	03/26/15 14:10	CYC0308	CC52627
Xylenes (Total)	**0.126** (0.0127)		8260B Low		1	03/26/15 14:10		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*108 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*77 %*		*70-130*
Surrogate: Dibromofluoromethane	*104 %*		*70-130*
Surrogate: Toluene-d8	*104 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-203 0ft-3ft
Date Sampled: 03/24/15 12:30
Percent Solids: 35
Initial Volume: 19.1
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 1503415
ESS Laboratory Sample ID: 1503415-05
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Methanol

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.403)		8260B		1	03/27/15 20:40	CYC0336	CC52745
1,1,1-Trichloroethane	ND (0.202)		8260B		1	03/27/15 20:40	CYC0336	CC52745
1,1,2,2-Tetrachloroethane	ND (0.202)		8260B		1	03/27/15 20:40	CYC0336	CC52745
1,1,2-Trichloroethane	ND (0.202)		8260B		1	03/27/15 20:40	CYC0336	CC52745
1,1-Dichloroethane	ND (0.202)		8260B		1	03/27/15 20:40	CYC0336	CC52745
1,1-Dichloroethene	ND (0.202)		8260B		1	03/27/15 20:40	CYC0336	CC52745
1,1-Dichloropropene	ND (0.202)		8260B		1	03/27/15 20:40	CYC0336	CC52745
1,2,3-Trichlorobenzene	ND (0.202)		8260B		1	03/27/15 20:40	CYC0336	CC52745
1,2,3-Trichloropropane	ND (0.202)		8260B		1	03/27/15 20:40	CYC0336	CC52745
1,2,4-Trichlorobenzene	ND (0.202)		8260B		1	03/27/15 20:40	CYC0336	CC52745
1,2,4-Trimethylbenzene	ND (0.202)		8260B		1	03/27/15 20:40	CYC0336	CC52745
1,2-Dibromo-3-Chloropropane	ND (0.806)		8260B		1	03/27/15 20:40	CYC0336	CC52745
1,2-Dibromoethane	ND (0.202)		8260B		1	03/27/15 20:40	CYC0336	CC52745
1,2-Dichlorobenzene	ND (0.202)		8260B		1	03/27/15 20:40	CYC0336	CC52745
1,2-Dichloroethane	ND (0.202)		8260B		1	03/27/15 20:40	CYC0336	CC52745
1,2-Dichloropropane	ND (0.202)		8260B		1	03/27/15 20:40	CYC0336	CC52745
1,3,5-Trimethylbenzene	ND (0.202)		8260B		1	03/27/15 20:40	CYC0336	CC52745
1,3-Dichlorobenzene	ND (0.202)		8260B		1	03/27/15 20:40	CYC0336	CC52745
1,3-Dichloropropane	ND (0.202)		8260B		1	03/27/15 20:40	CYC0336	CC52745
1,4-Dichlorobenzene	ND (0.202)		8260B		1	03/27/15 20:40	CYC0336	CC52745
1,4-Dioxane - Screen	ND (20.2)		8260B		1	03/27/15 20:40	CYC0336	CC52745
2,2-Dichloropropane	ND (0.403)		8260B		1	03/27/15 20:40	CYC0336	CC52745
2-Butanone	ND (0.806)		8260B		1	03/27/15 20:40	CYC0336	CC52745
2-Chlorotoluene	**0.552** (0.202)		8260B		1	03/27/15 20:40	CYC0336	CC52745
2-Hexanone	ND (0.806)		8260B		1	03/27/15 20:40	CYC0336	CC52745
4-Chlorotoluene	ND (0.202)		8260B		1	03/27/15 20:40	CYC0336	CC52745
4-Isopropyltoluene	ND (0.202)		8260B		1	03/27/15 20:40	CYC0336	CC52745
4-Methyl-2-Pentanone	ND (0.806)		8260B		1	03/27/15 20:40	CYC0336	CC52745
Acetone	**B 1.31** (0.806)		8260B		1	03/27/15 20:40	CYC0336	CC52745
Benzene	ND (0.202)		8260B		1	03/27/15 20:40	CYC0336	CC52745
Bromobenzene	ND (0.202)		8260B		1	03/27/15 20:40	CYC0336	CC52745
Bromochloromethane	ND (0.202)		8260B		1	03/27/15 20:40	CYC0336	CC52745

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-203 0ft-3ft
Date Sampled: 03/24/15 12:30
Percent Solids: 35
Initial Volume: 19.1
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 1503415
ESS Laboratory Sample ID: 1503415-05
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Methanol

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Bromodichloromethane	ND (0.202)		8260B		1	03/27/15 20:40	CYC0336	CC52745
Bromoform	ND (0.202)		8260B		1	03/27/15 20:40	CYC0336	CC52745
Bromomethane	ND (0.403)		8260B		1	03/27/15 20:40	CYC0336	CC52745
Carbon Disulfide	ND (0.202)		8260B		1	03/27/15 20:40	CYC0336	CC52745
Carbon Tetrachloride	ND (0.202)		8260B		1	03/27/15 20:40	CYC0336	CC52745
Chlorobenzene	ND (0.202)		8260B		1	03/27/15 20:40	CYC0336	CC52745
Chloroethane	ND (0.403)		8260B		1	03/27/15 20:40	CYC0336	CC52745
Chloroform	ND (0.202)		8260B		1	03/27/15 20:40	CYC0336	CC52745
Chloromethane	ND (0.403)		8260B		1	03/27/15 20:40	CYC0336	CC52745
cis-1,2-Dichloroethene	ND (0.202)		8260B		1	03/27/15 20:40	CYC0336	CC52745
cis-1,3-Dichloropropene	ND (0.202)		8260B		1	03/27/15 20:40	CYC0336	CC52745
Dibromochloromethane	ND (0.202)		8260B		1	03/27/15 20:40	CYC0336	CC52745
Dibromomethane	ND (0.202)		8260B		1	03/27/15 20:40	CYC0336	CC52745
Dichlorodifluoromethane	ND (0.202)		8260B		1	03/27/15 20:40	CYC0336	CC52745
Diethyl Ether	ND (0.202)		8260B		1	03/27/15 20:40	CYC0336	CC52745
Di-isopropyl ether	ND (0.202)		8260B		1	03/27/15 20:40	CYC0336	CC52745
Ethyl tertiary-butyl ether	ND (0.202)		8260B		1	03/27/15 20:40	CYC0336	CC52745
Ethylbenzene	ND (0.202)		8260B		1	03/27/15 20:40	CYC0336	CC52745
Hexachlorobutadiene	ND (0.202)		8260B		1	03/27/15 20:40	CYC0336	CC52745
Isopropylbenzene	ND (0.202)		8260B		1	03/27/15 20:40	CYC0336	CC52745
Methyl tert-Butyl Ether	ND (0.202)		8260B		1	03/27/15 20:40	CYC0336	CC52745
Methylene Chloride	ND (0.806)		8260B		1	03/27/15 20:40	CYC0336	CC52745
Naphthalene	**0.637** (0.202)		8260B		1	03/27/15 20:40	CYC0336	CC52745
n-Butylbenzene	ND (0.202)		8260B		1	03/27/15 20:40	CYC0336	CC52745
n-Propylbenzene	ND (0.202)		8260B		1	03/27/15 20:40	CYC0336	CC52745
sec-Butylbenzene	ND (0.202)		8260B		1	03/27/15 20:40	CYC0336	CC52745
Styrene	ND (0.202)		8260B		1	03/27/15 20:40	CYC0336	CC52745
tert-Butylbenzene	ND (0.202)		8260B		1	03/27/15 20:40	CYC0336	CC52745
Tertiary-amyl methyl ether	ND (0.202)		8260B		1	03/27/15 20:40	CYC0336	CC52745
Tetrachloroethene	ND (0.202)		8260B		1	03/27/15 20:40	CYC0336	CC52745
Tetrahydrofuran	ND (0.806)		8260B		1	03/27/15 20:40	CYC0336	CC52745
Toluene	ND (0.202)		8260B		1	03/27/15 20:40	CYC0336	CC52745

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-203 0ft-3ft
Date Sampled: 03/24/15 12:30
Percent Solids: 35
Initial Volume: 19.1
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 1503415
ESS Laboratory Sample ID: 1503415-05
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Methanol

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
trans-1,2-Dichloroethene	ND (0.202)		8260B		1	03/27/15 20:40	CYC0336	CC52745
trans-1,3-Dichloropropene	ND (0.202)		8260B		1	03/27/15 20:40	CYC0336	CC52745
Trichloroethene	ND (0.202)		8260B		1	03/27/15 20:40	CYC0336	CC52745
Trichlorofluoromethane	ND (0.202)		8260B		1	03/27/15 20:40	CYC0336	CC52745
Vinyl Chloride	ND (0.202)		8260B		1	03/27/15 20:40	CYC0336	CC52745
Xylene O	ND (0.202)		8260B		1	03/27/15 20:40	CYC0336	CC52745
Xylene P,M	ND (0.403)		8260B		1	03/27/15 20:40	CYC0336	CC52745
Xylenes (Total)	ND (0.403)		8260B		1	03/27/15 20:40		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*102 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*86 %*		*70-130*
Surrogate: Dibromofluoromethane	*112 %*		*70-130*
Surrogate: Toluene-d8	*91 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-203 0ft-3ft
Date Sampled: 03/24/15 12:30
Percent Solids: 35
Initial Volume: 30.4
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503415
ESS Laboratory Sample ID: 1503415-05
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 3/26/15 15:21

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.463)		8270D		1	03/27/15 0:52	CYC0313	CC52608
1,2-Dichlorobenzene	ND (0.463)		8270D		1	03/27/15 0:52	CYC0313	CC52608
1,3-Dichlorobenzene	ND (0.463)		8270D		1	03/27/15 0:52	CYC0313	CC52608
1,4-Dichlorobenzene	ND (0.463)		8270D		1	03/27/15 0:52	CYC0313	CC52608
2,4,5-Trichlorophenol	ND (0.463)		8270D		1	03/27/15 0:52	CYC0313	CC52608
2,4,6-Trichlorophenol	ND (0.463)		8270D		1	03/27/15 0:52	CYC0313	CC52608
2,4-Dichlorophenol	ND (0.463)		8270D		1	03/27/15 0:52	CYC0313	CC52608
2,4-Dimethylphenol	ND (0.463)		8270D		1	03/27/15 0:52	CYC0313	CC52608
2,4-Dinitrophenol	ND (2.32)		8270D		1	03/27/15 0:52	CYC0313	CC52608
2,4-Dinitrotoluene	ND (0.463)		8270D		1	03/27/15 0:52	CYC0313	CC52608
2,6-Dinitrotoluene	ND (0.463)		8270D		1	03/27/15 0:52	CYC0313	CC52608
2-Chloronaphthalene	ND (0.463)		8270D		1	03/27/15 0:52	CYC0313	CC52608
2-Chlorophenol	ND (0.463)		8270D		1	03/27/15 0:52	CYC0313	CC52608
2-Methylphenol	ND (0.463)		8270D		1	03/27/15 0:52	CYC0313	CC52608
2-Nitrophenol	ND (0.463)		8270D		1	03/27/15 0:52	CYC0313	CC52608
3,3´-Dichlorobenzidine	ND (0.927)		8270D		1	03/27/15 0:52	CYC0313	CC52608
3+4-Methylphenol	ND (0.927)		8270D		1	03/27/15 0:52	CYC0313	CC52608
4-Bromophenyl-phenylether	ND (0.463)		8270D		1	03/27/15 0:52	CYC0313	CC52608
4-Chloroaniline	ND (0.927)		8270D		1	03/27/15 0:52	CYC0313	CC52608
4-Nitrophenol	ND (2.32)		8270D		1	03/27/15 0:52	CYC0313	CC52608
Acetophenone	ND (0.927)		8270D		1	03/27/15 0:52	CYC0313	CC52608
Aniline	ND (2.32)		8270D		1	03/27/15 0:52	CYC0313	CC52608
Azobenzene	ND (0.463)		8270D		1	03/27/15 0:52	CYC0313	CC52608
bis(2-Chloroethoxy)methane	ND (0.463)		8270D		1	03/27/15 0:52	CYC0313	CC52608
bis(2-Chloroethyl)ether	ND (0.463)		8270D		1	03/27/15 0:52	CYC0313	CC52608
bis(2-chloroisopropyl)Ether	ND (0.463)		8270D		1	03/27/15 0:52	CYC0313	CC52608
bis(2-Ethylhexyl)phthalate	**252** (46.3)		8270D		100	03/30/15 15:17	CYC0313	CC52608
Butylbenzylphthalate	ND (0.463)		8270D		1	03/27/15 0:52	CYC0313	CC52608
Dibenzofuran	ND (0.463)		8270D		1	03/27/15 0:52	CYC0313	CC52608
Diethylphthalate	ND (0.463)		8270D		1	03/27/15 0:52	CYC0313	CC52608
Dimethylphthalate	ND (0.463)		8270D		1	03/27/15 0:52	CYC0313	CC52608
Di-n-butylphthalate	ND (0.463)		8270D		1	03/27/15 0:52	CYC0313	CC52608

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-203 0ft-3ft
Date Sampled: 03/24/15 12:30
Percent Solids: 35
Initial Volume: 30.4
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503415
ESS Laboratory Sample ID: 1503415-05
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 3/26/15 15:21

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Di-n-octylphthalate	**5.25** (0.463)		8270D		1	03/27/15 0:52	CYC0313	CC52608
Hexachlorobenzene	ND (0.463)		8270D		1	03/27/15 0:52	CYC0313	CC52608
Hexachlorobutadiene	ND (0.463)		8270D		1	03/27/15 0:52	CYC0313	CC52608
Hexachloroethane	ND (0.463)		8270D		1	03/27/15 0:52	CYC0313	CC52608
Isophorone	ND (0.463)		8270D		1	03/27/15 0:52	CYC0313	CC52608
Nitrobenzene	ND (0.463)		8270D		1	03/27/15 0:52	CYC0313	CC52608
N-Nitrosodimethylamine	ND (0.463)		8270D		1	03/27/15 0:52	CYC0313	CC52608
Pentachlorophenol	ND (2.32)		8270D		1	03/27/15 0:52	CYC0313	CC52608
Phenol	ND (0.463)		8270D		1	03/27/15 0:52	CYC0313	CC52608

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*47 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*73 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*50 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*56 %*		*30-130*
Surrogate: 2-Fluorophenol	*43 %*		*30-130*
Surrogate: Nitrobenzene-d5	*48 %*		*30-130*
Surrogate: Phenol-d6	*51 %*		*30-130*
Surrogate: p-Terphenyl-d14	*69 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-203 0ft-3ft
Date Sampled: 03/24/15 12:30
Percent Solids: 35

ESS Laboratory Work Order: 1503415
ESS Laboratory Sample ID: 1503415-05
Sample Matrix: Soil

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Corrosivity (pH)	**H 7.83** (N/A)		9045		1	EEM	03/26/15 11:50	S.U.	CC52616
Corrosivity (pH) Sample Temp	**Soil pH measured in water at 16.8 °C.**								
Eh (ORP)	**H, WL 272** (N/A)		2580		1	EEM	03/26/15 11:50	mv	CC52617
Grain Size	**See Attached** (N/A)								
Hexavalent Chromium	ND (1.2)		7196A		1	JLK	03/28/15 11:00	mg/kg dry	CC52807
Percent Water	**See Attached** (N/A)								
Reactive Cyanide	ND (2.0)		7.3.3.2		1	JLK	03/26/15 11:50	mg/kg	CC52618
Reactive Sulfide	**29.2** (2.0)		7.3.4.1		1	JLK	03/26/15 11:50	mg/kg	CC52618

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-203 0ft-3ft
Date Sampled: 03/24/15 12:30
Percent Solids: 35
Initial Volume: 30.3
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1503415
ESS Laboratory Sample ID: 1503415-05
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 3/26/15 16:10

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	**170** (34.9)		MADEP-EPH		1	DPS	03/26/15 23:39	CYC0307	CC52536
C19-C36 Aliphatics1	**162** (34.9)		MADEP-EPH		1	DPS	03/26/15 23:39	CYC0307	CC52536
C11-C22 Unadjusted Aromatics1	**819** (34.9)		EPH8270		1	JXS	03/27/15 19:16	CYC0333	CC52536
C11-C22 Aromatics1,2	**818** (34.9)		EPH8270			JXS	03/27/15 19:16		[CALC]

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1-Chlorooctadecane	*56 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*104 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*100 %*		*40-140*
Surrogate: O-Terphenyl	*92 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-203 0ft-3ft
Date Sampled: 03/24/15 12:30
Percent Solids: 35
Initial Volume: 11.1
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1503415
ESS Laboratory Sample ID: 1503415-05RE1
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.0063)		8260B Low		1	03/27/15 8:34	CYC0308	CC52627
1,1,1-Trichloroethane	ND (0.0063)		8260B Low		1	03/27/15 8:34	CYC0308	CC52627
1,1,2,2-Tetrachloroethane	ND (0.0025)		8260B Low		1	03/27/15 8:34	CYC0308	CC52627
1,1,2-Trichloroethane	ND (0.0063)		8260B Low		1	03/27/15 8:34	CYC0308	CC52627
1,1-Dichloroethane	ND (0.0063)		8260B Low		1	03/27/15 8:34	CYC0308	CC52627
1,1-Dichloroethene	ND (0.0063)		8260B Low		1	03/27/15 8:34	CYC0308	CC52627
1,1-Dichloropropene	ND (0.0063)		8260B Low		1	03/27/15 8:34	CYC0308	CC52627
1,2,3-Trichlorobenzene	ND (0.0063)		8260B Low		1	03/27/15 8:34	CYC0308	CC52627
1,2,3-Trichloropropane	ND (0.0063)		8260B Low		1	03/27/15 8:34	CYC0308	CC52627
1,2,4-Trichlorobenzene	ND (0.0063)		8260B Low		1	03/27/15 8:34	CYC0308	CC52627
1,2,4-Trimethylbenzene	**0.0567** (0.0063)		8260B Low		1	03/27/15 8:34	CYC0308	CC52627
1,2-Dibromo-3-Chloropropane	ND (0.0063)		8260B Low		1	03/27/15 8:34	CYC0308	CC52627
1,2-Dibromoethane	ND (0.0063)		8260B Low		1	03/27/15 8:34	CYC0308	CC52627
1,2-Dichlorobenzene	ND (0.0063)		8260B Low		1	03/27/15 8:34	CYC0308	CC52627
1,2-Dichloroethane	ND (0.0063)		8260B Low		1	03/27/15 8:34	CYC0308	CC52627
1,2-Dichloropropane	ND (0.0063)		8260B Low		1	03/27/15 8:34	CYC0308	CC52627
1,3,5-Trimethylbenzene	**0.0358** (0.0063)		8260B Low		1	03/27/15 8:34	CYC0308	CC52627
1,3-Dichlorobenzene	ND (0.0063)		8260B Low		1	03/27/15 8:34	CYC0308	CC52627
1,3-Dichloropropane	ND (0.0063)		8260B Low		1	03/27/15 8:34	CYC0308	CC52627
1,4-Dichlorobenzene	ND (0.0063)		8260B Low		1	03/27/15 8:34	CYC0308	CC52627
1,4-Dioxane	ND (0.127)		8260B Low		1	03/27/15 8:34	CYC0308	CC52627
2,2-Dichloropropane	ND (0.0063)		8260B Low		1	03/27/15 8:34	CYC0308	CC52627
2-Butanone	**0.171** (0.0127)		8260B Low		1	03/27/15 8:34	CYC0308	CC52627
2-Chlorotoluene	**E 2.60** (0.0063)		8260B Low		1	03/27/15 8:34	CYC0308	CC52627
2-Hexanone	ND (0.0127)		8260B Low		1	03/27/15 8:34	CYC0308	CC52627
4-Chlorotoluene	**E 1.16** (0.0063)		8260B Low		1	03/27/15 8:34	CYC0308	CC52627
4-Isopropyltoluene	ND (0.0063)		8260B Low		1	03/27/15 8:34	CYC0308	CC52627
4-Methyl-2-Pentanone	**0.0155** (0.0127)		8260B Low		1	03/27/15 8:34	CYC0308	CC52627
Acetone	**0.827** (0.0127)		8260B Low		1	03/27/15 8:34	CYC0308	CC52627
Benzene	**0.0440** (0.0063)		8260B Low		1	03/27/15 8:34	CYC0308	CC52627
Bromobenzene	ND (0.0063)		8260B Low		1	03/27/15 8:34	CYC0308	CC52627
Bromochloromethane	ND (0.0063)		8260B Low		1	03/27/15 8:34	CYC0308	CC52627

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-203 0ft-3ft
Date Sampled: 03/24/15 12:30
Percent Solids: 35
Initial Volume: 11.1
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1503415
ESS Laboratory Sample ID: 1503415-05RE1
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Bromodichloromethane	ND (0.0063)		8260B Low		1	03/27/15 8:34	CYC0308	CC52627
Bromoform	ND (0.0063)		8260B Low		1	03/27/15 8:34	CYC0308	CC52627
Bromomethane	ND (0.0127)		8260B Low		1	03/27/15 8:34	CYC0308	CC52627
Carbon Disulfide	**0.0232** (0.0063)		8260B Low		1	03/27/15 8:34	CYC0308	CC52627
Carbon Tetrachloride	ND (0.0063)		8260B Low		1	03/27/15 8:34	CYC0308	CC52627
Chlorobenzene	**0.0439** (0.0063)		8260B Low		1	03/27/15 8:34	CYC0308	CC52627
Chloroethane	ND (0.0127)		8260B Low		1	03/27/15 8:34	CYC0308	CC52627
Chloroform	ND (0.0063)		8260B Low		1	03/27/15 8:34	CYC0308	CC52627
Chloromethane	ND (0.0127)		8260B Low		1	03/27/15 8:34	CYC0308	CC52627
cis-1,2-Dichloroethene	ND (0.0063)		8260B Low		1	03/27/15 8:34	CYC0308	CC52627
cis-1,3-Dichloropropene	ND (0.0063)		8260B Low		1	03/27/15 8:34	CYC0308	CC52627
Dibromochloromethane	ND (0.0025)		8260B Low		1	03/27/15 8:34	CYC0308	CC52627
Dibromomethane	ND (0.0063)		8260B Low		1	03/27/15 8:34	CYC0308	CC52627
Dichlorodifluoromethane	ND (0.0127)		8260B Low		1	03/27/15 8:34	CYC0308	CC52627
Diethyl Ether	**0.0104** (0.0063)		8260B Low		1	03/27/15 8:34	CYC0308	CC52627
Di-isopropyl ether	ND (0.0063)		8260B Low		1	03/27/15 8:34	CYC0308	CC52627
Ethyl tertiary-butyl ether	ND (0.0063)		8260B Low		1	03/27/15 8:34	CYC0308	CC52627
Ethylbenzene	**0.248** (0.0063)		8260B Low		1	03/27/15 8:34	CYC0308	CC52627
Hexachlorobutadiene	ND (0.0063)		8260B Low		1	03/27/15 8:34	CYC0308	CC52627
Isopropylbenzene	**0.0115** (0.0063)		8260B Low		1	03/27/15 8:34	CYC0308	CC52627
Methyl tert-Butyl Ether	ND (0.0063)		8260B Low		1	03/27/15 8:34	CYC0308	CC52627
Methylene Chloride	ND (0.0127)		8260B Low		1	03/27/15 8:34	CYC0308	CC52627
Naphthalene	**E 0.903** (0.0063)		8260B Low		1	03/27/15 8:34	CYC0308	CC52627
n-Butylbenzene	ND (0.0063)		8260B Low		1	03/27/15 8:34	CYC0308	CC52627
n-Propylbenzene	ND (0.0063)		8260B Low		1	03/27/15 8:34	CYC0308	CC52627
sec-Butylbenzene	**0.0092** (0.0063)		8260B Low		1	03/27/15 8:34	CYC0308	CC52627
Styrene	ND (0.0063)		8260B Low		1	03/27/15 8:34	CYC0308	CC52627
tert-Butylbenzene	ND (0.0063)		8260B Low		1	03/27/15 8:34	CYC0308	CC52627
Tertiary-amyl methyl ether	ND (0.0063)		8260B Low		1	03/27/15 8:34	CYC0308	CC52627
Tetrachloroethene	ND (0.0063)		8260B Low		1	03/27/15 8:34	CYC0308	CC52627
Tetrahydrofuran	ND (0.0063)		8260B Low		1	03/27/15 8:34	CYC0308	CC52627
Toluene	**0.0636** (0.0063)		8260B Low		1	03/27/15 8:34	CYC0308	CC52627

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-203 0ft-3ft
Date Sampled: 03/24/15 12:30
Percent Solids: 35
Initial Volume: 11.1
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1503415
ESS Laboratory Sample ID: 1503415-05RE1
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
trans-1,2-Dichloroethene	ND (0.0063)		8260B Low		1	03/27/15 8:34	CYC0308	CC52627
trans-1,3-Dichloropropene	ND (0.0063)		8260B Low		1	03/27/15 8:34	CYC0308	CC52627
Trichloroethene	ND (0.0063)		8260B Low		1	03/27/15 8:34	CYC0308	CC52627
Trichlorofluoromethane	ND (0.0063)		8260B Low		1	03/27/15 8:34	CYC0308	CC52627
Vinyl Chloride	ND (0.0127)		8260B Low		1	03/27/15 8:34	CYC0308	CC52627
Xylene O	**0.0669** (0.0063)		8260B Low		1	03/27/15 8:34	CYC0308	CC52627
Xylene P,M	**0.107** (0.0127)		8260B Low		1	03/27/15 8:34	CYC0308	CC52627
Xylenes (Total)	**0.174** (0.0127)		8260B Low		1	03/27/15 8:34		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*87 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*80 %*		*70-130*
Surrogate: Dibromofluoromethane	*75 %*		*70-130*
Surrogate: Toluene-d8	*105 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-204 0ft-0.5ft
Date Sampled: 03/24/15 12:50
Percent Solids: 36
Initial Volume: 30.4
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503415
ESS Laboratory Sample ID: 1503415-06
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 3/26/15 15:21

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.459)		8270D		1	03/27/15 1:29	CYC0313	CC52608
1,2-Dichlorobenzene	ND (0.459)		8270D		1	03/27/15 1:29	CYC0313	CC52608
1,3-Dichlorobenzene	ND (0.459)		8270D		1	03/27/15 1:29	CYC0313	CC52608
1,4-Dichlorobenzene	ND (0.459)		8270D		1	03/27/15 1:29	CYC0313	CC52608
2,4,5-Trichlorophenol	ND (0.459)		8270D		1	03/27/15 1:29	CYC0313	CC52608
2,4,6-Trichlorophenol	ND (0.459)		8270D		1	03/27/15 1:29	CYC0313	CC52608
2,4-Dichlorophenol	ND (0.459)		8270D		1	03/27/15 1:29	CYC0313	CC52608
2,4-Dimethylphenol	ND (0.459)		8270D		1	03/27/15 1:29	CYC0313	CC52608
2,4-Dinitrophenol	ND (2.30)		8270D		1	03/27/15 1:29	CYC0313	CC52608
2,4-Dinitrotoluene	ND (0.459)		8270D		1	03/27/15 1:29	CYC0313	CC52608
2,6-Dinitrotoluene	ND (0.459)		8270D		1	03/27/15 1:29	CYC0313	CC52608
2-Chloronaphthalene	ND (0.459)		8270D		1	03/27/15 1:29	CYC0313	CC52608
2-Chlorophenol	ND (0.459)		8270D		1	03/27/15 1:29	CYC0313	CC52608
2-Methylphenol	ND (0.459)		8270D		1	03/27/15 1:29	CYC0313	CC52608
2-Nitrophenol	ND (0.459)		8270D		1	03/27/15 1:29	CYC0313	CC52608
3,3´-Dichlorobenzidine	ND (0.920)		8270D		1	03/27/15 1:29	CYC0313	CC52608
3+4-Methylphenol	ND (0.920)		8270D		1	03/27/15 1:29	CYC0313	CC52608
4-Bromophenyl-phenylether	ND (0.459)		8270D		1	03/27/15 1:29	CYC0313	CC52608
4-Chloroaniline	ND (0.920)		8270D		1	03/27/15 1:29	CYC0313	CC52608
4-Nitrophenol	ND (2.30)		8270D		1	03/27/15 1:29	CYC0313	CC52608
Acetophenone	ND (0.920)		8270D		1	03/27/15 1:29	CYC0313	CC52608
Aniline	ND (2.30)		8270D		1	03/27/15 1:29	CYC0313	CC52608
Azobenzene	ND (0.459)		8270D		1	03/27/15 1:29	CYC0313	CC52608
bis(2-Chloroethoxy)methane	ND (0.459)		8270D		1	03/27/15 1:29	CYC0313	CC52608
bis(2-Chloroethyl)ether	ND (0.459)		8270D		1	03/27/15 1:29	CYC0313	CC52608
bis(2-chloroisopropyl)Ether	ND (0.459)		8270D		1	03/27/15 1:29	CYC0313	CC52608
bis(2-Ethylhexyl)phthalate	**1.84** (0.459)		8270D		1	03/27/15 1:29	CYC0313	CC52608
Butylbenzylphthalate	ND (0.459)		8270D		1	03/27/15 1:29	CYC0313	CC52608
Dibenzofuran	ND (0.459)		8270D		1	03/27/15 1:29	CYC0313	CC52608
Diethylphthalate	ND (0.459)		8270D		1	03/27/15 1:29	CYC0313	CC52608
Dimethylphthalate	ND (0.459)		8270D		1	03/27/15 1:29	CYC0313	CC52608
Di-n-butylphthalate	ND (0.459)		8270D		1	03/27/15 1:29	CYC0313	CC52608

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-204 0ft-0.5ft
Date Sampled: 03/24/15 12:50
Percent Solids: 36
Initial Volume: 30.4
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503415
ESS Laboratory Sample ID: 1503415-06
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 3/26/15 15:21

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Di-n-octylphthalate	ND (0.459)		8270D		1	03/27/15 1:29	CYC0313	CC52608
Hexachlorobenzene	ND (0.459)		8270D		1	03/27/15 1:29	CYC0313	CC52608
Hexachlorobutadiene	ND (0.459)		8270D		1	03/27/15 1:29	CYC0313	CC52608
Hexachloroethane	ND (0.459)		8270D		1	03/27/15 1:29	CYC0313	CC52608
Isophorone	ND (0.459)		8270D		1	03/27/15 1:29	CYC0313	CC52608
Nitrobenzene	ND (0.459)		8270D		1	03/27/15 1:29	CYC0313	CC52608
N-Nitrosodimethylamine	ND (0.459)		8270D		1	03/27/15 1:29	CYC0313	CC52608
Pentachlorophenol	ND (2.30)		8270D		1	03/27/15 1:29	CYC0313	CC52608
Phenol	ND (0.459)		8270D		1	03/27/15 1:29	CYC0313	CC52608

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*46 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*67 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*50 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*54 %*		*30-130*
Surrogate: 2-Fluorophenol	*44 %*		*30-130*
Surrogate: Nitrobenzene-d5	*49 %*		*30-130*
Surrogate: Phenol-d6	*51 %*		*30-130*
Surrogate: p-Terphenyl-d14	*67 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-204 0ft-0.5ft
Date Sampled: 03/24/15 12:50
Percent Solids: 36
Initial Volume: 20.2
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503415
ESS Laboratory Sample ID: 1503415-06
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 3/26/15 16:45

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	ND (0.035)		8270D		1	03/28/15 22:03	CYC0341	CC52609
Acenaphthene	**0.029** (0.014)		8270D		1	03/28/15 22:03	CYC0341	CC52609
Acenaphthylene	**0.071** (0.035)		8270D		1	03/28/15 22:03	CYC0341	CC52609
Anthracene	**0.104** (0.035)		8270D		1	03/28/15 22:03	CYC0341	CC52609
Benzo(a)anthracene	**0.291** (0.035)		8270D		1	03/28/15 22:03	CYC0341	CC52609
Benzo(a)pyrene	**0.350** (0.035)		8270D		1	03/28/15 22:03	CYC0341	CC52609
Benzo(b)fluoranthene	**0.517** (0.035)		8270D		1	03/28/15 22:03	CYC0341	CC52609
Benzo(g,h,i)perylene	**0.273** (0.035)		8270D		1	03/28/15 22:03	CYC0341	CC52609
Benzo(k)fluoranthene	**0.137** (0.035)		8270D		1	03/28/15 22:03	CYC0341	CC52609
Chrysene	**0.354** (0.035)		8270D		1	03/28/15 22:03	CYC0341	CC52609
Dibenzo(a,h)Anthracene	**0.068** (0.035)		8270D		1	03/28/15 22:03	CYC0341	CC52609
Fluoranthene	**0.612** (0.035)		8270D		1	03/28/15 22:03	CYC0341	CC52609
Fluorene	**0.038** (0.035)		8270D		1	03/28/15 22:03	CYC0341	CC52609
Hexachlorobenzene	ND (0.014)		8270D		1	03/28/15 22:03	CYC0341	CC52609
Indeno(1,2,3-cd)Pyrene	**0.298** (0.035)		8270D		1	03/28/15 22:03	CYC0341	CC52609
Naphthalene	**0.094** (0.035)		8270D		1	03/28/15 22:03	CYC0341	CC52609
Phenanthrene	**0.331** (0.035)		8270D		1	03/28/15 22:03	CYC0341	CC52609
Pyrene	**0.636** (0.035)		8270D		1	03/28/15 22:03	CYC0341	CC52609

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*50 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*64 %*		*30-130*
Surrogate: Nitrobenzene-d5	*64 %*		*30-130*
Surrogate: p-Terphenyl-d14	*75 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-204 0ft-0.5ft
Date Sampled: 03/24/15 12:50
Percent Solids: 36
Initial Volume: 30.2
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1503415
ESS Laboratory Sample ID: 1503415-06
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 3/26/15 16:10

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (34.7)		MADEP-EPH		1	DPS	03/27/15 0:29	CYC0307	CC52536
C19-C36 Aliphatics1	**120** (34.7)		MADEP-EPH		1	DPS	03/27/15 0:29	CYC0307	CC52536
C11-C22 Unadjusted Aromatics1	**66.2** (34.7)		EPH8270		1	JXS	03/27/15 19:50	CYC0333	CC52536
C11-C22 Aromatics1,2	**63.0** (34.7)		EPH8270			JXS	03/27/15 19:50		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*51 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*106 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*103 %*		*40-140*
Surrogate: O-Terphenyl	*78 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-204 2ft-4ft
Date Sampled: 03/24/15 12:50
Percent Solids: 28
Initial Volume: 30.1
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503415
ESS Laboratory Sample ID: 1503415-07
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 3/26/15 15:21

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.587)		8270D		1	03/27/15 2:05	CYC0313	CC52608
1,2-Dichlorobenzene	ND (0.587)		8270D		1	03/27/15 2:05	CYC0313	CC52608
1,3-Dichlorobenzene	ND (0.587)		8270D		1	03/27/15 2:05	CYC0313	CC52608
1,4-Dichlorobenzene	ND (0.587)		8270D		1	03/27/15 2:05	CYC0313	CC52608
2,4,5-Trichlorophenol	ND (0.587)		8270D		1	03/27/15 2:05	CYC0313	CC52608
2,4,6-Trichlorophenol	ND (0.587)		8270D		1	03/27/15 2:05	CYC0313	CC52608
2,4-Dichlorophenol	ND (0.587)		8270D		1	03/27/15 2:05	CYC0313	CC52608
2,4-Dimethylphenol	ND (0.587)		8270D		1	03/27/15 2:05	CYC0313	CC52608
2,4-Dinitrophenol	ND (2.94)		8270D		1	03/27/15 2:05	CYC0313	CC52608
2,4-Dinitrotoluene	ND (0.587)		8270D		1	03/27/15 2:05	CYC0313	CC52608
2,6-Dinitrotoluene	ND (0.587)		8270D		1	03/27/15 2:05	CYC0313	CC52608
2-Chloronaphthalene	ND (0.587)		8270D		1	03/27/15 2:05	CYC0313	CC52608
2-Chlorophenol	ND (0.587)		8270D		1	03/27/15 2:05	CYC0313	CC52608
2-Methylphenol	ND (0.587)		8270D		1	03/27/15 2:05	CYC0313	CC52608
2-Nitrophenol	ND (0.587)		8270D		1	03/27/15 2:05	CYC0313	CC52608
3,3´-Dichlorobenzidine	ND (1.18)		8270D		1	03/27/15 2:05	CYC0313	CC52608
3+4-Methylphenol	ND (1.18)		8270D		1	03/27/15 2:05	CYC0313	CC52608
4-Bromophenyl-phenylether	ND (0.587)		8270D		1	03/27/15 2:05	CYC0313	CC52608
4-Chloroaniline	ND (1.18)		8270D		1	03/27/15 2:05	CYC0313	CC52608
4-Nitrophenol	ND (2.94)		8270D		1	03/27/15 2:05	CYC0313	CC52608
Acetophenone	ND (1.18)		8270D		1	03/27/15 2:05	CYC0313	CC52608
Aniline	ND (2.94)		8270D		1	03/27/15 2:05	CYC0313	CC52608
Azobenzene	ND (0.587)		8270D		1	03/27/15 2:05	CYC0313	CC52608
bis(2-Chloroethoxy)methane	ND (0.587)		8270D		1	03/27/15 2:05	CYC0313	CC52608
bis(2-Chloroethyl)ether	ND (0.587)		8270D		1	03/27/15 2:05	CYC0313	CC52608
bis(2-chloroisopropyl)Ether	ND (0.587)		8270D		1	03/27/15 2:05	CYC0313	CC52608
bis(2-Ethylhexyl)phthalate	**1120** (58.7)		8270D		100	03/30/15 16:28	CYC0313	CC52608
Butylbenzylphthalate	ND (0.587)		8270D		1	03/27/15 2:05	CYC0313	CC52608
Dibenzofuran	ND (0.587)		8270D		1	03/27/15 2:05	CYC0313	CC52608
Diethylphthalate	ND (0.587)		8270D		1	03/27/15 2:05	CYC0313	CC52608
Dimethylphthalate	ND (0.587)		8270D		1	03/27/15 2:05	CYC0313	CC52608
Di-n-butylphthalate	ND (0.587)		8270D		1	03/27/15 2:05	CYC0313	CC52608

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-204 2ft-4ft
Date Sampled: 03/24/15 12:50
Percent Solids: 28
Initial Volume: 30.1
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503415
ESS Laboratory Sample ID: 1503415-07
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 3/26/15 15:21

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Di-n-octylphthalate	**2.19** (0.587)		8270D		1	03/27/15 2:05	CYC0313	CC52608
Hexachlorobenzene	ND (0.587)		8270D		1	03/27/15 2:05	CYC0313	CC52608
Hexachlorobutadiene	ND (0.587)		8270D		1	03/27/15 2:05	CYC0313	CC52608
Hexachloroethane	ND (0.587)		8270D		1	03/27/15 2:05	CYC0313	CC52608
Isophorone	ND (0.587)		8270D		1	03/27/15 2:05	CYC0313	CC52608
Nitrobenzene	ND (0.587)		8270D		1	03/27/15 2:05	CYC0313	CC52608
N-Nitrosodimethylamine	ND (0.587)		8270D		1	03/27/15 2:05	CYC0313	CC52608
Pentachlorophenol	ND (2.94)		8270D		1	03/27/15 2:05	CYC0313	CC52608
Phenol	ND (0.587)		8270D		1	03/27/15 2:05	CYC0313	CC52608

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1,2-Dichlorobenzene-d4	*48 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*72 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*51 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*59 %*		*30-130*
Surrogate: 2-Fluorophenol	*45 %*		*30-130*
Surrogate: Nitrobenzene-d5	*49 %*		*30-130*
Surrogate: Phenol-d6	*54 %*		*30-130*
Surrogate: p-Terphenyl-d14	*66 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-204 2ft-4ft
Date Sampled: 03/24/15 12:50
Percent Solids: 28
Initial Volume: 20.1
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503415
ESS Laboratory Sample ID: 1503415-07
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 3/26/15 16:45

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	**1.54** (0.440)		8270D		10	03/30/15 20:52	CYC0345	CC52609
Acenaphthene	**EL 0.599** (0.440)		8270D		10	03/30/15 20:52	CYC0345	CC52609
Acenaphthylene	**0.519** (0.440)		8270D		10	03/30/15 20:52	CYC0345	CC52609
Anthracene	**1.03** (0.440)		8270D		10	03/30/15 20:52	CYC0345	CC52609
Benzo(a)anthracene	**0.864** (0.440)		8270D		10	03/30/15 20:52	CYC0345	CC52609
Benzo(a)pyrene	**0.868** (0.440)		8270D		10	03/30/15 20:52	CYC0345	CC52609
Benzo(b)fluoranthene	**1.43** (0.440)		8270D		10	03/30/15 20:52	CYC0345	CC52609
Benzo(g,h,i)perylene	**0.568** (0.440)		8270D		10	03/30/15 20:52	CYC0345	CC52609
Benzo(k)fluoranthene	**0.459** (0.440)		8270D		10	03/30/15 20:52	CYC0345	CC52609
Chrysene	**1.14** (0.440)		8270D		10	03/30/15 20:52	CYC0345	CC52609
Dibenzo(a,h)Anthracene	ND (0.440)		8270D		10	03/30/15 20:52	CYC0345	CC52609
Fluoranthene	**2.41** (0.440)		8270D		10	03/30/15 20:52	CYC0345	CC52609
Fluorene	**1.06** (0.440)		8270D		10	03/30/15 20:52	CYC0345	CC52609
Hexachlorobenzene	**EL** ND (0.176)		8270D		10	03/30/15 20:52	CYC0345	CC52609
Indeno(1,2,3-cd)Pyrene	**0.581** (0.440)		8270D		10	03/30/15 20:52	CYC0345	CC52609
Naphthalene	**14.8** (0.440)		8270D		10	03/30/15 20:52	CYC0345	CC52609
Phenanthrene	**2.81** (0.440)		8270D		10	03/30/15 20:52	CYC0345	CC52609
Pyrene	**2.56** (0.440)		8270D		10	03/30/15 20:52	CYC0345	CC52609

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*49 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*85 %*		*30-130*
Surrogate: Nitrobenzene-d5	*69 %*		*30-130*
Surrogate: p-Terphenyl-d14	*89 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-204 2ft-4ft
Date Sampled: 03/24/15 12:50
Percent Solids: 28
Initial Volume: 30.1
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1503415
ESS Laboratory Sample ID: 1503415-07
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 3/26/15 16:10

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	**574** (44.1)		MADEP-EPH		1	DPS	03/27/15 1:20	CYC0307	CC52536
C19-C36 Aliphatics1	**391** (44.1)		MADEP-EPH		1	DPS	03/27/15 1:20	CYC0307	CC52536
C11-C22 Unadjusted Aromatics1	**2280** (44.1)		EPH8270		1	JXS	03/27/15 20:24	CYC0333	CC52536
C11-C22 Aromatics1,2	**2280** (44.1)		EPH8270			JXS	03/27/15 20:24		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*64 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*104 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*105 %*		*40-140*
Surrogate: O-Terphenyl	*103 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-204 6ft-8ft
Date Sampled: 03/24/15 12:50
Percent Solids: 65
Initial Volume: 20.1
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503415
ESS Laboratory Sample ID: 1503415-08
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 3/26/15 16:45

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	**0.083** (0.019)		8270D		1	03/30/15 22:31	CYC0345	CC52609
Acenaphthene	**0.135** (0.019)		8270D		1	03/30/15 22:31	CYC0345	CC52609
Acenaphthylene	**0.087** (0.019)		8270D		1	03/30/15 22:31	CYC0345	CC52609
Anthracene	**0.309** (0.019)		8270D		1	03/30/15 22:31	CYC0345	CC52609
Benzo(a)anthracene	**0.169** (0.019)		8270D		1	03/30/15 22:31	CYC0345	CC52609
Benzo(a)pyrene	**0.173** (0.019)		8270D		1	03/30/15 22:31	CYC0345	CC52609
Benzo(b)fluoranthene	**0.242** (0.019)		8270D		1	03/30/15 22:31	CYC0345	CC52609
Benzo(g,h,i)perylene	**0.106** (0.019)		8270D		1	03/30/15 22:31	CYC0345	CC52609
Benzo(k)fluoranthene	**0.064** (0.019)		8270D		1	03/30/15 22:31	CYC0345	CC52609
Chrysene	**0.234** (0.019)		8270D		1	03/30/15 22:31	CYC0345	CC52609
Dibenzo(a,h)Anthracene	**0.032** (0.019)		8270D		1	03/30/15 22:31	CYC0345	CC52609
Fluoranthene	**0.455** (0.019)		8270D		1	03/30/15 22:31	CYC0345	CC52609
Fluorene	**0.160** (0.019)		8270D		1	03/30/15 22:31	CYC0345	CC52609
Hexachlorobenzene	ND (0.008)		8270D		1	03/30/15 22:31	CYC0345	CC52609
Indeno(1,2,3-cd)Pyrene	**0.114** (0.019)		8270D		1	03/30/15 22:31	CYC0345	CC52609
Naphthalene	**1.17** (0.019)		8270D		1	03/30/15 22:31	CYC0345	CC52609
Phenanthrene	**0.636** (0.019)		8270D		1	03/30/15 22:31	CYC0345	CC52609
Pyrene	**0.560** (0.019)		8270D		1	03/30/15 22:31	CYC0345	CC52609

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*41 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*55 %*		*30-130*
Surrogate: Nitrobenzene-d5	*48 %*		*30-130*
Surrogate: p-Terphenyl-d14	*60 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-212 0ft-0.5ft
Date Sampled: 03/24/15 14:20
Percent Solids: 73
Initial Volume: 30
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503415
ESS Laboratory Sample ID: 1503415-09
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 3/26/15 15:21

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.227)		8270D		1	03/27/15 2:41	CYC0313	CC52608
1,2-Dichlorobenzene	ND (0.227)		8270D		1	03/27/15 2:41	CYC0313	CC52608
1,3-Dichlorobenzene	ND (0.227)		8270D		1	03/27/15 2:41	CYC0313	CC52608
1,4-Dichlorobenzene	ND (0.227)		8270D		1	03/27/15 2:41	CYC0313	CC52608
2,4,5-Trichlorophenol	ND (0.227)		8270D		1	03/27/15 2:41	CYC0313	CC52608
2,4,6-Trichlorophenol	ND (0.227)		8270D		1	03/27/15 2:41	CYC0313	CC52608
2,4-Dichlorophenol	ND (0.227)		8270D		1	03/27/15 2:41	CYC0313	CC52608
2,4-Dimethylphenol	ND (0.227)		8270D		1	03/27/15 2:41	CYC0313	CC52608
2,4-Dinitrophenol	ND (1.14)		8270D		1	03/27/15 2:41	CYC0313	CC52608
2,4-Dinitrotoluene	ND (0.227)		8270D		1	03/27/15 2:41	CYC0313	CC52608
2,6-Dinitrotoluene	ND (0.227)		8270D		1	03/27/15 2:41	CYC0313	CC52608
2-Chloronaphthalene	ND (0.227)		8270D		1	03/27/15 2:41	CYC0313	CC52608
2-Chlorophenol	ND (0.227)		8270D		1	03/27/15 2:41	CYC0313	CC52608
2-Methylphenol	ND (0.227)		8270D		1	03/27/15 2:41	CYC0313	CC52608
2-Nitrophenol	ND (0.227)		8270D		1	03/27/15 2:41	CYC0313	CC52608
3,3´-Dichlorobenzidine	ND (0.455)		8270D		1	03/27/15 2:41	CYC0313	CC52608
3+4-Methylphenol	ND (0.455)		8270D		1	03/27/15 2:41	CYC0313	CC52608
4-Bromophenyl-phenylether	ND (0.227)		8270D		1	03/27/15 2:41	CYC0313	CC52608
4-Chloroaniline	ND (0.455)		8270D		1	03/27/15 2:41	CYC0313	CC52608
4-Nitrophenol	ND (1.14)		8270D		1	03/27/15 2:41	CYC0313	CC52608
Acetophenone	ND (0.455)		8270D		1	03/27/15 2:41	CYC0313	CC52608
Aniline	ND (1.14)		8270D		1	03/27/15 2:41	CYC0313	CC52608
Azobenzene	ND (0.227)		8270D		1	03/27/15 2:41	CYC0313	CC52608
bis(2-Chloroethoxy)methane	ND (0.227)		8270D		1	03/27/15 2:41	CYC0313	CC52608
bis(2-Chloroethyl)ether	ND (0.227)		8270D		1	03/27/15 2:41	CYC0313	CC52608
bis(2-chloroisopropyl)Ether	ND (0.227)		8270D		1	03/27/15 2:41	CYC0313	CC52608
bis(2-Ethylhexyl)phthalate	**0.500** (0.227)		8270D		1	03/27/15 2:41	CYC0313	CC52608
Butylbenzylphthalate	ND (0.227)		8270D		1	03/27/15 2:41	CYC0313	CC52608
Dibenzofuran	ND (0.227)		8270D		1	03/27/15 2:41	CYC0313	CC52608
Diethylphthalate	ND (0.227)		8270D		1	03/27/15 2:41	CYC0313	CC52608
Dimethylphthalate	ND (0.227)		8270D		1	03/27/15 2:41	CYC0313	CC52608
Di-n-butylphthalate	ND (0.227)		8270D		1	03/27/15 2:41	CYC0313	CC52608

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-212 0ft-0.5ft
Date Sampled: 03/24/15 14:20
Percent Solids: 73
Initial Volume: 30
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503415
ESS Laboratory Sample ID: 1503415-09
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 3/26/15 15:21

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Di-n-octylphthalate	ND (0.227)		8270D		1	03/27/15 2:41	CYC0313	CC52608
Hexachlorobenzene	ND (0.227)		8270D		1	03/27/15 2:41	CYC0313	CC52608
Hexachlorobutadiene	ND (0.227)		8270D		1	03/27/15 2:41	CYC0313	CC52608
Hexachloroethane	ND (0.227)		8270D		1	03/27/15 2:41	CYC0313	CC52608
Isophorone	ND (0.227)		8270D		1	03/27/15 2:41	CYC0313	CC52608
Nitrobenzene	ND (0.227)		8270D		1	03/27/15 2:41	CYC0313	CC52608
N-Nitrosodimethylamine	ND (0.227)		8270D		1	03/27/15 2:41	CYC0313	CC52608
Pentachlorophenol	ND (1.14)		8270D		1	03/27/15 2:41	CYC0313	CC52608
Phenol	ND (0.227)		8270D		1	03/27/15 2:41	CYC0313	CC52608

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*41 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*56 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*45 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*47 %*		*30-130*
Surrogate: 2-Fluorophenol	*39 %*		*30-130*
Surrogate: Nitrobenzene-d5	*42 %*		*30-130*
Surrogate: Phenol-d6	*46 %*		*30-130*
Surrogate: p-Terphenyl-d14	*63 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-212 0ft-0.5ft
Date Sampled: 03/24/15 14:20
Percent Solids: 73
Initial Volume: 20.2
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503415
ESS Laboratory Sample ID: 1503415-09
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 3/26/15 16:45

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	ND (0.017)		8270D		1	03/28/15 19:37	CYC0341	CC52609
Acenaphthene	**0.025** (0.017)		8270D		1	03/28/15 19:37	CYC0341	CC52609
Acenaphthylene	**0.024** (0.017)		8270D		1	03/28/15 19:37	CYC0341	CC52609
Anthracene	**0.075** (0.017)		8270D		1	03/28/15 19:37	CYC0341	CC52609
Benzo(a)anthracene	**0.151** (0.017)		8270D		1	03/28/15 19:37	CYC0341	CC52609
Benzo(a)pyrene	**0.161** (0.017)		8270D		1	03/28/15 19:37	CYC0341	CC52609
Benzo(b)fluoranthene	**0.194** (0.017)		8270D		1	03/28/15 19:37	CYC0341	CC52609
Benzo(g,h,i)perylene	**0.111** (0.017)		8270D		1	03/28/15 19:37	CYC0341	CC52609
Benzo(k)fluoranthene	**0.065** (0.017)		8270D		1	03/28/15 19:37	CYC0341	CC52609
Chrysene	**0.160** (0.017)		8270D		1	03/28/15 19:37	CYC0341	CC52609
Dibenzo(a,h)Anthracene	**0.027** (0.017)		8270D		1	03/28/15 19:37	CYC0341	CC52609
Fluoranthene	**0.310** (0.017)		8270D		1	03/28/15 19:37	CYC0341	CC52609
Fluorene	**0.024** (0.017)		8270D		1	03/28/15 19:37	CYC0341	CC52609
Hexachlorobenzene	ND (0.007)		8270D		1	03/28/15 19:37	CYC0341	CC52609
Indeno(1,2,3-cd)Pyrene	**0.119** (0.017)		8270D		1	03/28/15 19:37	CYC0341	CC52609
Naphthalene	**0.024** (0.017)		8270D		1	03/28/15 19:37	CYC0341	CC52609
Phenanthrene	**0.184** (0.017)		8270D		1	03/28/15 19:37	CYC0341	CC52609
Pyrene	**0.294** (0.017)		8270D		1	03/28/15 19:37	CYC0341	CC52609

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*32 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*40 %*		*30-130*
Surrogate: Nitrobenzene-d5	*39 %*		*30-130*
Surrogate: p-Terphenyl-d14	*52 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-212 0ft-0.5ft
Date Sampled: 03/24/15 14:20
Percent Solids: 73
Initial Volume: 30.5
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1503415
ESS Laboratory Sample ID: 1503415-09
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 3/26/15 16:10

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (16.8)		MADEP-EPH		1	DPS	03/27/15 2:11	CYC0307	CC52536
C19-C36 Aliphatics1	**18.2** (16.8)		MADEP-EPH		1	DPS	03/27/15 2:11	CYC0307	CC52536
C11-C22 Unadjusted Aromatics1	ND (16.8)		EPH8270		1	JXS	03/27/15 20:58	CYC0333	CC52536
C11-C22 Aromatics1,2	ND (16.8)		EPH8270			JXS	03/27/15 20:58		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*58 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*102 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*91 %*		*40-140*
Surrogate: O-Terphenyl	*75 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-212 0.5ft-2ft
Date Sampled: 03/24/15 14:20
Percent Solids: 69
Initial Volume: 20
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503415
ESS Laboratory Sample ID: 1503415-10
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 3/26/15 16:45

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	ND (0.018)		8270D		1	03/27/15 2:06	CYC0318	CC52609
Acenaphthene	ND (0.018)		8270D		1	03/27/15 2:06	CYC0318	CC52609
Acenaphthylene	**0.019** (0.018)		8270D		1	03/27/15 2:06	CYC0318	CC52609
Anthracene	**0.094** (0.018)		8270D		1	03/27/15 2:06	CYC0318	CC52609
Benzo(a)anthracene	**0.302** (0.018)		8270D		1	03/27/15 2:06	CYC0318	CC52609
Benzo(a)pyrene	**0.273** (0.018)		8270D		1	03/27/15 2:06	CYC0318	CC52609
Benzo(b)fluoranthene	**0.314** (0.018)		8270D		1	03/27/15 2:06	CYC0318	CC52609
Benzo(g,h,i)perylene	**0.145** (0.018)		8270D		1	03/27/15 2:06	CYC0318	CC52609
Benzo(k)fluoranthene	**0.090** (0.018)		8270D		1	03/27/15 2:06	CYC0318	CC52609
Chrysene	**0.296** (0.018)		8270D		1	03/27/15 2:06	CYC0318	CC52609
Dibenzo(a,h)Anthracene	**0.044** (0.018)		8270D		1	03/27/15 2:06	CYC0318	CC52609
Fluoranthene	**0.454** (0.018)		8270D		1	03/27/15 2:06	CYC0318	CC52609
Fluorene	ND (0.018)		8270D		1	03/27/15 2:06	CYC0318	CC52609
Hexachlorobenzene	ND (0.007)		8270D		1	03/27/15 2:06	CYC0318	CC52609
Indeno(1,2,3-cd)Pyrene	**0.167** (0.018)		8270D		1	03/27/15 2:06	CYC0318	CC52609
Naphthalene	ND (0.018)		8270D		1	03/27/15 2:06	CYC0318	CC52609
Phenanthrene	**0.115** (0.018)		8270D		1	03/27/15 2:06	CYC0318	CC52609
Pyrene	**0.450** (0.018)		8270D		1	03/27/15 2:06	CYC0318	CC52609

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*38 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*55 %*		*30-130*
Surrogate: Nitrobenzene-d5	*43 %*		*30-130*
Surrogate: p-Terphenyl-d14	*65 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-216 0ft-0.5ft
Date Sampled: 03/24/15 15:15
Percent Solids: 55
Initial Volume: 30.1
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1503415
ESS Laboratory Sample ID: 1503415-11
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 3/26/15 15:21

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.599)		8270D		1	03/27/15 3:18	CYC0313	CC52608
1,2-Dichlorobenzene	ND (0.599)		8270D		1	03/27/15 3:18	CYC0313	CC52608
1,3-Dichlorobenzene	ND (0.599)		8270D		1	03/27/15 3:18	CYC0313	CC52608
1,4-Dichlorobenzene	ND (0.599)		8270D		1	03/27/15 3:18	CYC0313	CC52608
2,4,5-Trichlorophenol	ND (0.599)		8270D		1	03/27/15 3:18	CYC0313	CC52608
2,4,6-Trichlorophenol	ND (0.599)		8270D		1	03/27/15 3:18	CYC0313	CC52608
2,4-Dichlorophenol	ND (0.599)		8270D		1	03/27/15 3:18	CYC0313	CC52608
2,4-Dimethylphenol	ND (0.599)		8270D		1	03/27/15 3:18	CYC0313	CC52608
2,4-Dinitrophenol	ND (3.00)		8270D		1	03/27/15 3:18	CYC0313	CC52608
2,4-Dinitrotoluene	ND (0.599)		8270D		1	03/27/15 3:18	CYC0313	CC52608
2,6-Dinitrotoluene	ND (0.599)		8270D		1	03/27/15 3:18	CYC0313	CC52608
2-Chloronaphthalene	ND (0.599)		8270D		1	03/27/15 3:18	CYC0313	CC52608
2-Chlorophenol	ND (0.599)		8270D		1	03/27/15 3:18	CYC0313	CC52608
2-Methylphenol	ND (0.599)		8270D		1	03/27/15 3:18	CYC0313	CC52608
2-Nitrophenol	ND (0.599)		8270D		1	03/27/15 3:18	CYC0313	CC52608
3,3´-Dichlorobenzidine	ND (1.20)		8270D		1	03/27/15 3:18	CYC0313	CC52608
3+4-Methylphenol	ND (1.20)		8270D		1	03/27/15 3:18	CYC0313	CC52608
4-Bromophenyl-phenylether	ND (0.599)		8270D		1	03/27/15 3:18	CYC0313	CC52608
4-Chloroaniline	ND (1.20)		8270D		1	03/27/15 3:18	CYC0313	CC52608
4-Nitrophenol	ND (3.00)		8270D		1	03/27/15 3:18	CYC0313	CC52608
Acetophenone	ND (1.20)		8270D		1	03/27/15 3:18	CYC0313	CC52608
Aniline	ND (3.00)		8270D		1	03/27/15 3:18	CYC0313	CC52608
Azobenzene	ND (0.599)		8270D		1	03/27/15 3:18	CYC0313	CC52608
bis(2-Chloroethoxy)methane	ND (0.599)		8270D		1	03/27/15 3:18	CYC0313	CC52608
bis(2-Chloroethyl)ether	ND (0.599)		8270D		1	03/27/15 3:18	CYC0313	CC52608
bis(2-chloroisopropyl)Ether	ND (0.599)		8270D		1	03/27/15 3:18	CYC0313	CC52608
bis(2-Ethylhexyl)phthalate	**7.28** (0.599)		8270D		1	03/27/15 3:18	CYC0313	CC52608
Butylbenzylphthalate	ND (0.599)		8270D		1	03/27/15 3:18	CYC0313	CC52608
Dibenzofuran	ND (0.599)		8270D		1	03/27/15 3:18	CYC0313	CC52608
Diethylphthalate	ND (0.599)		8270D		1	03/27/15 3:18	CYC0313	CC52608
Dimethylphthalate	ND (0.599)		8270D		1	03/27/15 3:18	CYC0313	CC52608
Di-n-butylphthalate	ND (0.599)		8270D		1	03/27/15 3:18	CYC0313	CC52608

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-216 0ft-0.5ft
Date Sampled: 03/24/15 15:15
Percent Solids: 55
Initial Volume: 30.1
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1503415
ESS Laboratory Sample ID: 1503415-11
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 3/26/15 15:21

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Di-n-octylphthalate	ND (0.599)		8270D		1	03/27/15 3:18	CYC0313	CC52608
Hexachlorobenzene	ND (0.599)		8270D		1	03/27/15 3:18	CYC0313	CC52608
Hexachlorobutadiene	ND (0.599)		8270D		1	03/27/15 3:18	CYC0313	CC52608
Hexachloroethane	ND (0.599)		8270D		1	03/27/15 3:18	CYC0313	CC52608
Isophorone	ND (0.599)		8270D		1	03/27/15 3:18	CYC0313	CC52608
Nitrobenzene	ND (0.599)		8270D		1	03/27/15 3:18	CYC0313	CC52608
N-Nitrosodimethylamine	ND (0.599)		8270D		1	03/27/15 3:18	CYC0313	CC52608
Pentachlorophenol	ND (3.00)		8270D		1	03/27/15 3:18	CYC0313	CC52608
Phenol	ND (0.599)		8270D		1	03/27/15 3:18	CYC0313	CC52608

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*41 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*48 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*46 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*54 %*		*30-130*
Surrogate: 2-Fluorophenol	*40 %*		*30-130*
Surrogate: Nitrobenzene-d5	*44 %*		*30-130*
Surrogate: Phenol-d6	*49 %*		*30-130*
Surrogate: p-Terphenyl-d14	*66 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-216 0ft-0.5ft
Date Sampled: 03/24/15 15:15
Percent Solids: 55
Initial Volume: 20.2
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1503415
ESS Laboratory Sample ID: 1503415-11
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 3/26/15 16:45

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	**0.049** (0.045)		8270D		1	03/27/15 3:44	CYC0318	CC52609
Acenaphthene	**0.039** (0.018)		8270D		1	03/27/15 3:44	CYC0318	CC52609
Acenaphthylene	**0.149** (0.045)		8270D		1	03/27/15 3:44	CYC0318	CC52609
Anthracene	**0.240** (0.045)		8270D		1	03/27/15 3:44	CYC0318	CC52609
Benzo(a)anthracene	**0.442** (0.045)		8270D		1	03/27/15 3:44	CYC0318	CC52609
Benzo(a)pyrene	**0.497** (0.045)		8270D		1	03/27/15 3:44	CYC0318	CC52609
Benzo(b)fluoranthene	**0.594** (0.045)		8270D		1	03/27/15 3:44	CYC0318	CC52609
Benzo(g,h,i)perylene	**0.419** (0.045)		8270D		1	03/27/15 3:44	CYC0318	CC52609
Benzo(k)fluoranthene	**0.205** (0.045)		8270D		1	03/27/15 3:44	CYC0318	CC52609
Chrysene	**0.587** (0.045)		8270D		1	03/27/15 3:44	CYC0318	CC52609
Dibenzo(a,h)Anthracene	**0.104** (0.045)		8270D		1	03/27/15 3:44	CYC0318	CC52609
Fluoranthene	**0.590** (0.045)		8270D		1	03/27/15 3:44	CYC0318	CC52609
Fluorene	**0.104** (0.045)		8270D		1	03/27/15 3:44	CYC0318	CC52609
Hexachlorobenzene	ND (0.018)		8270D		1	03/27/15 3:44	CYC0318	CC52609
Indeno(1,2,3-cd)Pyrene	**0.435** (0.045)		8270D		1	03/27/15 3:44	CYC0318	CC52609
Naphthalene	**0.184** (0.045)		8270D		1	03/27/15 3:44	CYC0318	CC52609
Phenanthrene	**0.248** (0.045)		8270D		1	03/27/15 3:44	CYC0318	CC52609
Pyrene	**1.07** (0.045)		8270D		1	03/27/15 3:44	CYC0318	CC52609

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*43 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*59 %*		*30-130*
Surrogate: Nitrobenzene-d5	*50 %*		*30-130*
Surrogate: p-Terphenyl-d14	*71 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-216 0ft-0.5ft
Date Sampled: 03/24/15 15:15
Percent Solids: 55
Initial Volume: 30.8
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1503415
ESS Laboratory Sample ID: 1503415-11
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 3/26/15 16:10

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	**29.4** (22.0)		MADEP-EPH		1	DPS	03/27/15 3:02	CYC0307	CC52536
C19-C36 Aliphatics1	**124** (22.0)		MADEP-EPH		1	DPS	03/27/15 3:02	CYC0307	CC52536
C11-C22 Unadjusted Aromatics1	**204** (22.0)		EPH8270		1	JXS	03/27/15 21:32	CYC0333	CC52536
C11-C22 Aromatics1,2	**199** (22.0)		EPH8270			JXS	03/27/15 21:32		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*43 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*86 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*68 %*		*40-140*
Surrogate: O-Terphenyl	*54 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-216 4ft-6ft
Date Sampled: 03/24/15 15:15
Percent Solids: 70
Initial Volume: 20.5
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503415
ESS Laboratory Sample ID: 1503415-12
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 3/26/15 16:45

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	ND (0.018)		8270D		1	03/28/15 17:10	CYC0341	CC52609
Acenaphthene	ND (0.018)		8270D		1	03/28/15 17:10	CYC0341	CC52609
Acenaphthylene	ND (0.018)		8270D		1	03/28/15 17:10	CYC0341	CC52609
Anthracene	ND (0.018)		8270D		1	03/28/15 17:10	CYC0341	CC52609
Benzo(a)anthracene	ND (0.018)		8270D		1	03/28/15 17:10	CYC0341	CC52609
Benzo(a)pyrene	ND (0.018)		8270D		1	03/28/15 17:10	CYC0341	CC52609
Benzo(b)fluoranthene	ND (0.018)		8270D		1	03/28/15 17:10	CYC0341	CC52609
Benzo(g,h,i)perylene	ND (0.018)		8270D		1	03/28/15 17:10	CYC0341	CC52609
Benzo(k)fluoranthene	ND (0.018)		8270D		1	03/28/15 17:10	CYC0341	CC52609
Chrysene	**0.018** (0.018)		8270D		1	03/28/15 17:10	CYC0341	CC52609
Dibenzo(a,h)Anthracene	ND (0.018)		8270D		1	03/28/15 17:10	CYC0341	CC52609
Fluoranthene	**0.031** (0.018)		8270D		1	03/28/15 17:10	CYC0341	CC52609
Fluorene	ND (0.018)		8270D		1	03/28/15 17:10	CYC0341	CC52609
Hexachlorobenzene	ND (0.007)		8270D		1	03/28/15 17:10	CYC0341	CC52609
Indeno(1,2,3-cd)Pyrene	ND (0.018)		8270D		1	03/28/15 17:10	CYC0341	CC52609
Naphthalene	ND (0.018)		8270D		1	03/28/15 17:10	CYC0341	CC52609
Phenanthrene	ND (0.018)		8270D		1	03/28/15 17:10	CYC0341	CC52609
Pyrene	**0.031** (0.018)		8270D		1	03/28/15 17:10	CYC0341	CC52609

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*46 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*60 %*		*30-130*
Surrogate: Nitrobenzene-d5	*57 %*		*30-130*
Surrogate: p-Terphenyl-d14	*63 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-216 2ft-4ft
Date Sampled: 03/24/15 15:15
Percent Solids: 62
Initial Volume: 30.1
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503415
ESS Laboratory Sample ID: 1503415-13
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 3/26/15 15:21

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.269)		8270D		1	03/27/15 3:54	CYC0313	CC52608
1,2-Dichlorobenzene	ND (0.269)		8270D		1	03/27/15 3:54	CYC0313	CC52608
1,3-Dichlorobenzene	ND (0.269)		8270D		1	03/27/15 3:54	CYC0313	CC52608
1,4-Dichlorobenzene	ND (0.269)		8270D		1	03/27/15 3:54	CYC0313	CC52608
2,4,5-Trichlorophenol	ND (0.269)		8270D		1	03/27/15 3:54	CYC0313	CC52608
2,4,6-Trichlorophenol	ND (0.269)		8270D		1	03/27/15 3:54	CYC0313	CC52608
2,4-Dichlorophenol	ND (0.269)		8270D		1	03/27/15 3:54	CYC0313	CC52608
2,4-Dimethylphenol	ND (0.269)		8270D		1	03/27/15 3:54	CYC0313	CC52608
2,4-Dinitrophenol	ND (1.35)		8270D		1	03/27/15 3:54	CYC0313	CC52608
2,4-Dinitrotoluene	ND (0.269)		8270D		1	03/27/15 3:54	CYC0313	CC52608
2,6-Dinitrotoluene	ND (0.269)		8270D		1	03/27/15 3:54	CYC0313	CC52608
2-Chloronaphthalene	ND (0.269)		8270D		1	03/27/15 3:54	CYC0313	CC52608
2-Chlorophenol	ND (0.269)		8270D		1	03/27/15 3:54	CYC0313	CC52608
2-Methylphenol	ND (0.269)		8270D		1	03/27/15 3:54	CYC0313	CC52608
2-Nitrophenol	ND (0.269)		8270D		1	03/27/15 3:54	CYC0313	CC52608
3,3´-Dichlorobenzidine	ND (0.539)		8270D		1	03/27/15 3:54	CYC0313	CC52608
3+4-Methylphenol	ND (0.539)		8270D		1	03/27/15 3:54	CYC0313	CC52608
4-Bromophenyl-phenylether	ND (0.269)		8270D		1	03/27/15 3:54	CYC0313	CC52608
4-Chloroaniline	ND (0.539)		8270D		1	03/27/15 3:54	CYC0313	CC52608
4-Nitrophenol	ND (1.35)		8270D		1	03/27/15 3:54	CYC0313	CC52608
Acetophenone	ND (0.539)		8270D		1	03/27/15 3:54	CYC0313	CC52608
Aniline	ND (1.35)		8270D		1	03/27/15 3:54	CYC0313	CC52608
Azobenzene	ND (0.269)		8270D		1	03/27/15 3:54	CYC0313	CC52608
bis(2-Chloroethoxy)methane	ND (0.269)		8270D		1	03/27/15 3:54	CYC0313	CC52608
bis(2-Chloroethyl)ether	ND (0.269)		8270D		1	03/27/15 3:54	CYC0313	CC52608
bis(2-chloroisopropyl)Ether	ND (0.269)		8270D		1	03/27/15 3:54	CYC0313	CC52608
bis(2-Ethylhexyl)phthalate	ND (0.269)		8270D		1	03/27/15 3:54	CYC0313	CC52608
Butylbenzylphthalate	ND (0.269)		8270D		1	03/27/15 3:54	CYC0313	CC52608
Dibenzofuran	ND (0.269)		8270D		1	03/27/15 3:54	CYC0313	CC52608
Diethylphthalate	ND (0.269)		8270D		1	03/27/15 3:54	CYC0313	CC52608
Dimethylphthalate	ND (0.269)		8270D		1	03/27/15 3:54	CYC0313	CC52608
Di-n-butylphthalate	ND (0.269)		8270D		1	03/27/15 3:54	CYC0313	CC52608

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-216 2ft-4ft
Date Sampled: 03/24/15 15:15
Percent Solids: 62
Initial Volume: 30.1
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503415
ESS Laboratory Sample ID: 1503415-13
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 3/26/15 15:21

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Di-n-octylphthalate	ND (0.269)		8270D		1	03/27/15 3:54	CYC0313	CC52608
Hexachlorobenzene	ND (0.269)		8270D		1	03/27/15 3:54	CYC0313	CC52608
Hexachlorobutadiene	ND (0.269)		8270D		1	03/27/15 3:54	CYC0313	CC52608
Hexachloroethane	ND (0.269)		8270D		1	03/27/15 3:54	CYC0313	CC52608
Isophorone	ND (0.269)		8270D		1	03/27/15 3:54	CYC0313	CC52608
Nitrobenzene	ND (0.269)		8270D		1	03/27/15 3:54	CYC0313	CC52608
N-Nitrosodimethylamine	ND (0.269)		8270D		1	03/27/15 3:54	CYC0313	CC52608
Pentachlorophenol	ND (1.35)		8270D		1	03/27/15 3:54	CYC0313	CC52608
Phenol	ND (0.269)		8270D		1	03/27/15 3:54	CYC0313	CC52608

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*46 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*21 %*	*S-*	*30-130*
Surrogate: 2-Chlorophenol-d4	*52 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*54 %*		*30-130*
Surrogate: 2-Fluorophenol	*46 %*		*30-130*
Surrogate: Nitrobenzene-d5	*49 %*		*30-130*
Surrogate: Phenol-d6	*53 %*		*30-130*
Surrogate: p-Terphenyl-d14	*66 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-216 2ft-4ft
Date Sampled: 03/24/15 15:15
Percent Solids: 62
Initial Volume: 20
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503415
ESS Laboratory Sample ID: 1503415-13
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 3/26/15 16:45

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	ND (0.020)		8270D		1	03/28/15 17:59	CYC0341	CC52609
Acenaphthene	**0.029** (0.020)		8270D		1	03/28/15 17:59	CYC0341	CC52609
Acenaphthylene	**0.021** (0.020)		8270D		1	03/28/15 17:59	CYC0341	CC52609
Anthracene	**0.100** (0.020)		8270D		1	03/28/15 17:59	CYC0341	CC52609
Benzo(a)anthracene	**0.327** (0.020)		8270D		1	03/28/15 17:59	CYC0341	CC52609
Benzo(a)pyrene	**0.279** (0.020)		8270D		1	03/28/15 17:59	CYC0341	CC52609
Benzo(b)fluoranthene	**0.315** (0.020)		8270D		1	03/28/15 17:59	CYC0341	CC52609
Benzo(g,h,i)perylene	**0.139** (0.020)		8270D		1	03/28/15 17:59	CYC0341	CC52609
Benzo(k)fluoranthene	**0.113** (0.020)		8270D		1	03/28/15 17:59	CYC0341	CC52609
Chrysene	**0.305** (0.020)		8270D		1	03/28/15 17:59	CYC0341	CC52609
Dibenzo(a,h)Anthracene	**0.045** (0.020)		8270D		1	03/28/15 17:59	CYC0341	CC52609
Fluoranthene	**0.470** (0.020)		8270D		1	03/28/15 17:59	CYC0341	CC52609
Fluorene	**0.026** (0.020)		8270D		1	03/28/15 17:59	CYC0341	CC52609
Hexachlorobenzene	ND (0.008)		8270D		1	03/28/15 17:59	CYC0341	CC52609
Indeno(1,2,3-cd)Pyrene	**0.151** (0.020)		8270D		1	03/28/15 17:59	CYC0341	CC52609
Naphthalene	**0.021** (0.020)		8270D		1	03/28/15 17:59	CYC0341	CC52609
Phenanthrene	**0.110** (0.020)		8270D		1	03/28/15 17:59	CYC0341	CC52609
Pyrene	**0.470** (0.020)		8270D		1	03/28/15 17:59	CYC0341	CC52609

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*43 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*60 %*		*30-130*
Surrogate: Nitrobenzene-d5	*54 %*		*30-130*
Surrogate: p-Terphenyl-d14	*68 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-216 2ft-4ft
Date Sampled: 03/24/15 15:15
Percent Solids: 62
Initial Volume: 30
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1503415
ESS Laboratory Sample ID: 1503415-13
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 3/26/15 16:10

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (20.3)		MADEP-EPH		1	DPS	03/27/15 3:52	CYC0307	CC52536
C19-C36 Aliphatics1	ND (20.3)		MADEP-EPH		1	DPS	03/27/15 3:52	CYC0307	CC52536
C11-C22 Unadjusted Aromatics1	**20.6** (20.3)		EPH8270		1	JXS	03/27/15 22:06	CYC0333	CC52536
C11-C22 Aromatics1,2	ND (20.3)		EPH8270			JXS	03/27/15 22:06		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*67 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*105 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*102 %*		*40-140*
Surrogate: O-Terphenyl	*74 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-217 0ft-0.5ft
Date Sampled: 03/24/15 16:10
Percent Solids: 59
Initial Volume: 30.1
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503415
ESS Laboratory Sample ID: 1503415-14
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 3/26/15 15:21

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.283)		8270D		1	03/27/15 4:30	CYC0313	CC52608
1,2-Dichlorobenzene	ND (0.283)		8270D		1	03/27/15 4:30	CYC0313	CC52608
1,3-Dichlorobenzene	ND (0.283)		8270D		1	03/27/15 4:30	CYC0313	CC52608
1,4-Dichlorobenzene	ND (0.283)		8270D		1	03/27/15 4:30	CYC0313	CC52608
2,4,5-Trichlorophenol	ND (0.283)		8270D		1	03/27/15 4:30	CYC0313	CC52608
2,4,6-Trichlorophenol	ND (0.283)		8270D		1	03/27/15 4:30	CYC0313	CC52608
2,4-Dichlorophenol	ND (0.283)		8270D		1	03/27/15 4:30	CYC0313	CC52608
2,4-Dimethylphenol	ND (0.283)		8270D		1	03/27/15 4:30	CYC0313	CC52608
2,4-Dinitrophenol	ND (1.42)		8270D		1	03/27/15 4:30	CYC0313	CC52608
2,4-Dinitrotoluene	ND (0.283)		8270D		1	03/27/15 4:30	CYC0313	CC52608
2,6-Dinitrotoluene	ND (0.283)		8270D		1	03/27/15 4:30	CYC0313	CC52608
2-Chloronaphthalene	ND (0.283)		8270D		1	03/27/15 4:30	CYC0313	CC52608
2-Chlorophenol	ND (0.283)		8270D		1	03/27/15 4:30	CYC0313	CC52608
2-Methylphenol	ND (0.283)		8270D		1	03/27/15 4:30	CYC0313	CC52608
2-Nitrophenol	ND (0.283)		8270D		1	03/27/15 4:30	CYC0313	CC52608
3,3´-Dichlorobenzidine	ND (0.567)		8270D		1	03/27/15 4:30	CYC0313	CC52608
3+4-Methylphenol	ND (0.567)		8270D		1	03/27/15 4:30	CYC0313	CC52608
4-Bromophenyl-phenylether	ND (0.283)		8270D		1	03/27/15 4:30	CYC0313	CC52608
4-Chloroaniline	ND (0.567)		8270D		1	03/27/15 4:30	CYC0313	CC52608
4-Nitrophenol	ND (1.42)		8270D		1	03/27/15 4:30	CYC0313	CC52608
Acetophenone	ND (0.567)		8270D		1	03/27/15 4:30	CYC0313	CC52608
Aniline	ND (1.42)		8270D		1	03/27/15 4:30	CYC0313	CC52608
Azobenzene	ND (0.283)		8270D		1	03/27/15 4:30	CYC0313	CC52608
bis(2-Chloroethoxy)methane	ND (0.283)		8270D		1	03/27/15 4:30	CYC0313	CC52608
bis(2-Chloroethyl)ether	ND (0.283)		8270D		1	03/27/15 4:30	CYC0313	CC52608
bis(2-chloroisopropyl)Ether	ND (0.283)		8270D		1	03/27/15 4:30	CYC0313	CC52608
bis(2-Ethylhexyl)phthalate	**0.358** (0.283)		8270D		1	03/27/15 4:30	CYC0313	CC52608
Butylbenzylphthalate	ND (0.283)		8270D		1	03/27/15 4:30	CYC0313	CC52608
Dibenzofuran	ND (0.283)		8270D		1	03/27/15 4:30	CYC0313	CC52608
Diethylphthalate	ND (0.283)		8270D		1	03/27/15 4:30	CYC0313	CC52608
Dimethylphthalate	ND (0.283)		8270D		1	03/27/15 4:30	CYC0313	CC52608
Di-n-butylphthalate	ND (0.283)		8270D		1	03/27/15 4:30	CYC0313	CC52608

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-217 0ft-0.5ft
Date Sampled: 03/24/15 16:10
Percent Solids: 59
Initial Volume: 30.1
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503415
ESS Laboratory Sample ID: 1503415-14
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 3/26/15 15:21

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Di-n-octylphthalate	ND (0.283)		8270D		1	03/27/15 4:30	CYC0313	CC52608
Hexachlorobenzene	ND (0.283)		8270D		1	03/27/15 4:30	CYC0313	CC52608
Hexachlorobutadiene	ND (0.283)		8270D		1	03/27/15 4:30	CYC0313	CC52608
Hexachloroethane	ND (0.283)		8270D		1	03/27/15 4:30	CYC0313	CC52608
Isophorone	ND (0.283)		8270D		1	03/27/15 4:30	CYC0313	CC52608
Nitrobenzene	ND (0.283)		8270D		1	03/27/15 4:30	CYC0313	CC52608
N-Nitrosodimethylamine	ND (0.283)		8270D		1	03/27/15 4:30	CYC0313	CC52608
Pentachlorophenol	ND (1.42)		8270D		1	03/27/15 4:30	CYC0313	CC52608
Phenol	ND (0.283)		8270D		1	03/27/15 4:30	CYC0313	CC52608

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*49 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*17 %*	*S-*	*30-130*
Surrogate: 2-Chlorophenol-d4	*53 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*55 %*		*30-130*
Surrogate: 2-Fluorophenol	*48 %*		*30-130*
Surrogate: Nitrobenzene-d5	*54 %*		*30-130*
Surrogate: Phenol-d6	*54 %*		*30-130*
Surrogate: p-Terphenyl-d14	*65 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-217 0ft-0.5ft
Date Sampled: 03/24/15 16:10
Percent Solids: 59
Initial Volume: 20
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503415
ESS Laboratory Sample ID: 1503415-14
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 3/26/15 16:45

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	**0.094** (0.021)		8270D		1	03/27/15 11:07	CYC0318	CC52609
Acenaphthene	**0.079** (0.021)		8270D		1	03/27/15 11:07	CYC0318	CC52609
Acenaphthylene	**0.368** (0.021)		8270D		1	03/27/15 11:07	CYC0318	CC52609
Anthracene	**0.556** (0.021)		8270D		1	03/27/15 11:07	CYC0318	CC52609
Benzo(a)anthracene	**0.808** (0.021)		8270D		1	03/27/15 11:07	CYC0318	CC52609
Benzo(a)pyrene	**0.818** (0.021)		8270D		1	03/27/15 11:07	CYC0318	CC52609
Benzo(b)fluoranthene	**0.985** (0.021)		8270D		1	03/27/15 11:07	CYC0318	CC52609
Benzo(g,h,i)perylene	**0.472** (0.021)		8270D		1	03/27/15 11:07	CYC0318	CC52609
Benzo(k)fluoranthene	**0.334** (0.021)		8270D		1	03/27/15 11:07	CYC0318	CC52609
Chrysene	**1.03** (0.021)		8270D		1	03/27/15 11:07	CYC0318	CC52609
Dibenzo(a,h)Anthracene	**0.154** (0.021)		8270D		1	03/27/15 11:07	CYC0318	CC52609
Fluoranthene	**0.924** (0.021)		8270D		1	03/27/15 11:07	CYC0318	CC52609
Fluorene	**0.180** (0.021)		8270D		1	03/27/15 11:07	CYC0318	CC52609
Hexachlorobenzene	ND (0.009)		8270D		1	03/27/15 11:07	CYC0318	CC52609
Indeno(1,2,3-cd)Pyrene	**0.547** (0.021)		8270D		1	03/27/15 11:07	CYC0318	CC52609
Naphthalene	**0.250** (0.021)		8270D		1	03/27/15 11:07	CYC0318	CC52609
Phenanthrene	**0.762** (0.021)		8270D		1	03/27/15 11:07	CYC0318	CC52609
Pyrene	**1.70** (0.021)		8270D		1	03/27/15 11:07	CYC0318	CC52609

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*29 %*	*S-*	*30-130*
Surrogate: 2-Fluorobiphenyl	*54 %*		*30-130*
Surrogate: Nitrobenzene-d5	*35 %*		*30-130*
Surrogate: p-Terphenyl-d14	*57 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-217 0ft-0.5ft
Date Sampled: 03/24/15 16:10
Percent Solids: 59
Initial Volume: 30
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1503415
ESS Laboratory Sample ID: 1503415-14
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 3/26/15 16:10

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	**59.0** (21.3)		MADEP-EPH		1	DPS	03/27/15 4:43	CYC0307	CC52536
C19-C36 Aliphatics1	**188** (21.3)		MADEP-EPH		1	DPS	03/27/15 4:43	CYC0307	CC52536
C11-C22 Unadjusted Aromatics1	**227** (21.3)		EPH8270		1	JXS	03/27/15 22:41	CYC0333	CC52536
C11-C22 Aromatics1,2	**217** (21.3)		EPH8270			JXS	03/27/15 22:41		[CALC]

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1-Chlorooctadecane	*48 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*108 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*102 %*		*40-140*
Surrogate: O-Terphenyl	*69 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-217 0ft-3ft
Date Sampled: 03/24/15 16:10
Percent Solids: 65
Initial Volume: 13.6
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1503415
ESS Laboratory Sample ID: 1503415-15
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.0028)		8260B Low		1	03/26/15 13:42	CYC0308	CC52627
1,1,1-Trichloroethane	ND (0.0028)		8260B Low		1	03/26/15 13:42	CYC0308	CC52627
1,1,2,2-Tetrachloroethane	ND (0.0011)		8260B Low		1	03/26/15 13:42	CYC0308	CC52627
1,1,2-Trichloroethane	ND (0.0028)		8260B Low		1	03/26/15 13:42	CYC0308	CC52627
1,1-Dichloroethane	ND (0.0028)		8260B Low		1	03/26/15 13:42	CYC0308	CC52627
1,1-Dichloroethene	ND (0.0028)		8260B Low		1	03/26/15 13:42	CYC0308	CC52627
1,1-Dichloropropene	ND (0.0028)		8260B Low		1	03/26/15 13:42	CYC0308	CC52627
1,2,3-Trichlorobenzene	ND (0.0028)		8260B Low		1	03/26/15 13:42	CYC0308	CC52627
1,2,3-Trichloropropane	ND (0.0028)		8260B Low		1	03/26/15 13:42	CYC0308	CC52627
1,2,4-Trichlorobenzene	ND (0.0028)		8260B Low		1	03/26/15 13:42	CYC0308	CC52627
1,2,4-Trimethylbenzene	ND (0.0028)		8260B Low		1	03/26/15 13:42	CYC0308	CC52627
1,2-Dibromo-3-Chloropropane	ND (0.0028)		8260B Low		1	03/26/15 13:42	CYC0308	CC52627
1,2-Dibromoethane	ND (0.0028)		8260B Low		1	03/26/15 13:42	CYC0308	CC52627
1,2-Dichlorobenzene	ND (0.0028)		8260B Low		1	03/26/15 13:42	CYC0308	CC52627
1,2-Dichloroethane	ND (0.0028)		8260B Low		1	03/26/15 13:42	CYC0308	CC52627
1,2-Dichloropropane	ND (0.0028)		8260B Low		1	03/26/15 13:42	CYC0308	CC52627
1,3,5-Trimethylbenzene	ND (0.0028)		8260B Low		1	03/26/15 13:42	CYC0308	CC52627
1,3-Dichlorobenzene	ND (0.0028)		8260B Low		1	03/26/15 13:42	CYC0308	CC52627
1,3-Dichloropropane	ND (0.0028)		8260B Low		1	03/26/15 13:42	CYC0308	CC52627
1,4-Dichlorobenzene	ND (0.0028)		8260B Low		1	03/26/15 13:42	CYC0308	CC52627
1,4-Dioxane	ND (0.0569)		8260B Low		1	03/26/15 13:42	CYC0308	CC52627
2,2-Dichloropropane	ND (0.0028)		8260B Low		1	03/26/15 13:42	CYC0308	CC52627
2-Butanone	**0.0119** (0.0057)		8260B Low		1	03/26/15 13:42	CYC0308	CC52627
2-Chlorotoluene	ND (0.0028)		8260B Low		1	03/26/15 13:42	CYC0308	CC52627
2-Hexanone	ND (0.0057)		8260B Low		1	03/26/15 13:42	CYC0308	CC52627
4-Chlorotoluene	ND (0.0028)		8260B Low		1	03/26/15 13:42	CYC0308	CC52627
4-Isopropyltoluene	ND (0.0028)		8260B Low		1	03/26/15 13:42	CYC0308	CC52627
4-Methyl-2-Pentanone	ND (0.0057)		8260B Low		1	03/26/15 13:42	CYC0308	CC52627
Acetone	**0.0898** (0.0057)		8260B Low		1	03/26/15 13:42	CYC0308	CC52627
Benzene	ND (0.0028)		8260B Low		1	03/26/15 13:42	CYC0308	CC52627
Bromobenzene	ND (0.0028)		8260B Low		1	03/26/15 13:42	CYC0308	CC52627
Bromochloromethane	ND (0.0028)		8260B Low		1	03/26/15 13:42	CYC0308	CC52627

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-217 0ft-3ft
Date Sampled: 03/24/15 16:10
Percent Solids: 65
Initial Volume: 13.6
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1503415
ESS Laboratory Sample ID: 1503415-15
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Bromodichloromethane	ND (0.0028)		8260B Low		1	03/26/15 13:42	CYC0308	CC52627
Bromoform	ND (0.0028)		8260B Low		1	03/26/15 13:42	CYC0308	CC52627
Bromomethane	ND (0.0057)		8260B Low		1	03/26/15 13:42	CYC0308	CC52627
Carbon Disulfide	**0.0060** (0.0028)		8260B Low		1	03/26/15 13:42	CYC0308	CC52627
Carbon Tetrachloride	ND (0.0028)		8260B Low		1	03/26/15 13:42	CYC0308	CC52627
Chlorobenzene	ND (0.0028)		8260B Low		1	03/26/15 13:42	CYC0308	CC52627
Chloroethane	ND (0.0057)		8260B Low		1	03/26/15 13:42	CYC0308	CC52627
Chloroform	ND (0.0028)		8260B Low		1	03/26/15 13:42	CYC0308	CC52627
Chloromethane	ND (0.0057)		8260B Low		1	03/26/15 13:42	CYC0308	CC52627
cis-1,2-Dichloroethene	ND (0.0028)		8260B Low		1	03/26/15 13:42	CYC0308	CC52627
cis-1,3-Dichloropropene	ND (0.0028)		8260B Low		1	03/26/15 13:42	CYC0308	CC52627
Dibromochloromethane	ND (0.0011)		8260B Low		1	03/26/15 13:42	CYC0308	CC52627
Dibromomethane	ND (0.0028)		8260B Low		1	03/26/15 13:42	CYC0308	CC52627
Dichlorodifluoromethane	ND (0.0057)		8260B Low		1	03/26/15 13:42	CYC0308	CC52627
Diethyl Ether	ND (0.0028)		8260B Low		1	03/26/15 13:42	CYC0308	CC52627
Di-isopropyl ether	ND (0.0028)		8260B Low		1	03/26/15 13:42	CYC0308	CC52627
Ethyl tertiary-butyl ether	ND (0.0028)		8260B Low		1	03/26/15 13:42	CYC0308	CC52627
Ethylbenzene	ND (0.0028)		8260B Low		1	03/26/15 13:42	CYC0308	CC52627
Hexachlorobutadiene	ND (0.0028)		8260B Low		1	03/26/15 13:42	CYC0308	CC52627
Isopropylbenzene	ND (0.0028)		8260B Low		1	03/26/15 13:42	CYC0308	CC52627
Methyl tert-Butyl Ether	ND (0.0028)		8260B Low		1	03/26/15 13:42	CYC0308	CC52627
Methylene Chloride	ND (0.0057)		8260B Low		1	03/26/15 13:42	CYC0308	CC52627
Naphthalene	ND (0.0028)		8260B Low		1	03/26/15 13:42	CYC0308	CC52627
n-Butylbenzene	ND (0.0028)		8260B Low		1	03/26/15 13:42	CYC0308	CC52627
n-Propylbenzene	ND (0.0028)		8260B Low		1	03/26/15 13:42	CYC0308	CC52627
sec-Butylbenzene	ND (0.0028)		8260B Low		1	03/26/15 13:42	CYC0308	CC52627
Styrene	ND (0.0028)		8260B Low		1	03/26/15 13:42	CYC0308	CC52627
tert-Butylbenzene	ND (0.0028)		8260B Low		1	03/26/15 13:42	CYC0308	CC52627
Tertiary-amyl methyl ether	ND (0.0028)		8260B Low		1	03/26/15 13:42	CYC0308	CC52627
Tetrachloroethene	ND (0.0028)		8260B Low		1	03/26/15 13:42	CYC0308	CC52627
Tetrahydrofuran	ND (0.0028)		8260B Low		1	03/26/15 13:42	CYC0308	CC52627
Toluene	ND (0.0028)		8260B Low		1	03/26/15 13:42	CYC0308	CC52627

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-217 0ft-3ft
Date Sampled: 03/24/15 16:10
Percent Solids: 65
Initial Volume: 13.6
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1503415
ESS Laboratory Sample ID: 1503415-15
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
trans-1,2-Dichloroethene	ND (0.0028)		8260B Low		1	03/26/15 13:42	CYC0308	CC52627
trans-1,3-Dichloropropene	ND (0.0028)		8260B Low		1	03/26/15 13:42	CYC0308	CC52627
Trichloroethene	ND (0.0028)		8260B Low		1	03/26/15 13:42	CYC0308	CC52627
Trichlorofluoromethane	ND (0.0028)		8260B Low		1	03/26/15 13:42	CYC0308	CC52627
Vinyl Chloride	ND (0.0057)		8260B Low		1	03/26/15 13:42	CYC0308	CC52627
Xylene O	ND (0.0028)		8260B Low		1	03/26/15 13:42	CYC0308	CC52627
Xylene P,M	ND (0.0057)		8260B Low		1	03/26/15 13:42	CYC0308	CC52627
Xylenes (Total)	ND (0.0057)		8260B Low		1	03/26/15 13:42		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*100 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*82 %*		*70-130*
Surrogate: Dibromofluoromethane	*94 %*		*70-130*
Surrogate: Toluene-d8	*98 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-217 0ft-3ft
Date Sampled: 03/24/15 16:10
Percent Solids: 65
Initial Volume: 15.9
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 1503415
ESS Laboratory Sample ID: 1503415-15
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Methanol

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.201)		8260B		1	03/27/15 12:47	CYC0336	CC52745
1,1,1-Trichloroethane	ND (0.100)		8260B		1	03/27/15 12:47	CYC0336	CC52745
1,1,2,2-Tetrachloroethane	ND (0.100)		8260B		1	03/27/15 12:47	CYC0336	CC52745
1,1,2-Trichloroethane	ND (0.100)		8260B		1	03/27/15 12:47	CYC0336	CC52745
1,1-Dichloroethane	ND (0.100)		8260B		1	03/27/15 12:47	CYC0336	CC52745
1,1-Dichloroethene	ND (0.100)		8260B		1	03/27/15 12:47	CYC0336	CC52745
1,1-Dichloropropene	ND (0.100)		8260B		1	03/27/15 12:47	CYC0336	CC52745
1,2,3-Trichlorobenzene	ND (0.100)		8260B		1	03/27/15 12:47	CYC0336	CC52745
1,2,3-Trichloropropane	ND (0.100)		8260B		1	03/27/15 12:47	CYC0336	CC52745
1,2,4-Trichlorobenzene	ND (0.100)		8260B		1	03/27/15 12:47	CYC0336	CC52745
1,2,4-Trimethylbenzene	ND (0.100)		8260B		1	03/27/15 12:47	CYC0336	CC52745
1,2-Dibromo-3-Chloropropane	ND (0.402)		8260B		1	03/27/15 12:47	CYC0336	CC52745
1,2-Dibromoethane	ND (0.100)		8260B		1	03/27/15 12:47	CYC0336	CC52745
1,2-Dichlorobenzene	ND (0.100)		8260B		1	03/27/15 12:47	CYC0336	CC52745
1,2-Dichloroethane	ND (0.100)		8260B		1	03/27/15 12:47	CYC0336	CC52745
1,2-Dichloropropane	ND (0.100)		8260B		1	03/27/15 12:47	CYC0336	CC52745
1,3,5-Trimethylbenzene	ND (0.100)		8260B		1	03/27/15 12:47	CYC0336	CC52745
1,3-Dichlorobenzene	ND (0.100)		8260B		1	03/27/15 12:47	CYC0336	CC52745
1,3-Dichloropropane	ND (0.100)		8260B		1	03/27/15 12:47	CYC0336	CC52745
1,4-Dichlorobenzene	ND (0.100)		8260B		1	03/27/15 12:47	CYC0336	CC52745
1,4-Dioxane - Screen	ND (10.0)		8260B		1	03/27/15 12:47	CYC0336	CC52745
2,2-Dichloropropane	ND (0.201)		8260B		1	03/27/15 12:47	CYC0336	CC52745
2-Butanone	ND (0.402)		8260B		1	03/27/15 12:47	CYC0336	CC52745
2-Chlorotoluene	ND (0.100)		8260B		1	03/27/15 12:47	CYC0336	CC52745
2-Hexanone	ND (0.402)		8260B		1	03/27/15 12:47	CYC0336	CC52745
4-Chlorotoluene	ND (0.100)		8260B		1	03/27/15 12:47	CYC0336	CC52745
4-Isopropyltoluene	ND (0.100)		8260B		1	03/27/15 12:47	CYC0336	CC52745
4-Methyl-2-Pentanone	ND (0.402)		8260B		1	03/27/15 12:47	CYC0336	CC52745
Acetone	**B 0.434** (0.402)		8260B		1	03/27/15 12:47	CYC0336	CC52745
Benzene	ND (0.100)		8260B		1	03/27/15 12:47	CYC0336	CC52745
Bromobenzene	ND (0.100)		8260B		1	03/27/15 12:47	CYC0336	CC52745
Bromochloromethane	ND (0.100)		8260B		1	03/27/15 12:47	CYC0336	CC52745

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-217 0ft-3ft
Date Sampled: 03/24/15 16:10
Percent Solids: 65
Initial Volume: 15.9
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 1503415
ESS Laboratory Sample ID: 1503415-15
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Methanol

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Bromodichloromethane	ND (0.100)		8260B		1	03/27/15 12:47	CYC0336	CC52745
Bromoform	ND (0.100)		8260B		1	03/27/15 12:47	CYC0336	CC52745
Bromomethane	ND (0.201)		8260B		1	03/27/15 12:47	CYC0336	CC52745
Carbon Disulfide	ND (0.100)		8260B		1	03/27/15 12:47	CYC0336	CC52745
Carbon Tetrachloride	ND (0.100)		8260B		1	03/27/15 12:47	CYC0336	CC52745
Chlorobenzene	ND (0.100)		8260B		1	03/27/15 12:47	CYC0336	CC52745
Chloroethane	ND (0.201)		8260B		1	03/27/15 12:47	CYC0336	CC52745
Chloroform	ND (0.100)		8260B		1	03/27/15 12:47	CYC0336	CC52745
Chloromethane	ND (0.201)		8260B		1	03/27/15 12:47	CYC0336	CC52745
cis-1,2-Dichloroethene	ND (0.100)		8260B		1	03/27/15 12:47	CYC0336	CC52745
cis-1,3-Dichloropropene	ND (0.100)		8260B		1	03/27/15 12:47	CYC0336	CC52745
Dibromochloromethane	ND (0.100)		8260B		1	03/27/15 12:47	CYC0336	CC52745
Dibromomethane	ND (0.100)		8260B		1	03/27/15 12:47	CYC0336	CC52745
Dichlorodifluoromethane	ND (0.100)		8260B		1	03/27/15 12:47	CYC0336	CC52745
Diethyl Ether	ND (0.100)		8260B		1	03/27/15 12:47	CYC0336	CC52745
Di-isopropyl ether	ND (0.100)		8260B		1	03/27/15 12:47	CYC0336	CC52745
Ethyl tertiary-butyl ether	ND (0.100)		8260B		1	03/27/15 12:47	CYC0336	CC52745
Ethylbenzene	ND (0.100)		8260B		1	03/27/15 12:47	CYC0336	CC52745
Hexachlorobutadiene	ND (0.100)		8260B		1	03/27/15 12:47	CYC0336	CC52745
Isopropylbenzene	ND (0.100)		8260B		1	03/27/15 12:47	CYC0336	CC52745
Methyl tert-Butyl Ether	ND (0.100)		8260B		1	03/27/15 12:47	CYC0336	CC52745
Methylene Chloride	ND (0.402)		8260B		1	03/27/15 12:47	CYC0336	CC52745
Naphthalene	ND (0.100)		8260B		1	03/27/15 12:47	CYC0336	CC52745
n-Butylbenzene	ND (0.100)		8260B		1	03/27/15 12:47	CYC0336	CC52745
n-Propylbenzene	ND (0.100)		8260B		1	03/27/15 12:47	CYC0336	CC52745
sec-Butylbenzene	ND (0.100)		8260B		1	03/27/15 12:47	CYC0336	CC52745
Styrene	ND (0.100)		8260B		1	03/27/15 12:47	CYC0336	CC52745
tert-Butylbenzene	ND (0.100)		8260B		1	03/27/15 12:47	CYC0336	CC52745
Tertiary-amyl methyl ether	ND (0.100)		8260B		1	03/27/15 12:47	CYC0336	CC52745
Tetrachloroethene	ND (0.100)		8260B		1	03/27/15 12:47	CYC0336	CC52745
Tetrahydrofuran	ND (0.402)		8260B		1	03/27/15 12:47	CYC0336	CC52745
Toluene	ND (0.100)		8260B		1	03/27/15 12:47	CYC0336	CC52745

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-217 0ft-3ft
Date Sampled: 03/24/15 16:10
Percent Solids: 65
Initial Volume: 15.9
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 1503415
ESS Laboratory Sample ID: 1503415-15
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Methanol

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
trans-1,2-Dichloroethene	ND (0.100)		8260B		1	03/27/15 12:47	CYC0336	CC52745
trans-1,3-Dichloropropene	ND (0.100)		8260B		1	03/27/15 12:47	CYC0336	CC52745
Trichloroethene	ND (0.100)		8260B		1	03/27/15 12:47	CYC0336	CC52745
Trichlorofluoromethane	ND (0.100)		8260B		1	03/27/15 12:47	CYC0336	CC52745
Vinyl Chloride	ND (0.100)		8260B		1	03/27/15 12:47	CYC0336	CC52745
Xylene O	ND (0.100)		8260B		1	03/27/15 12:47	CYC0336	CC52745
Xylene P,M	ND (0.201)		8260B		1	03/27/15 12:47	CYC0336	CC52745
Xylenes (Total)	ND (0.201)		8260B		1	03/27/15 12:47		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*120 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*120 %*		*70-130*
Surrogate: Dibromofluoromethane	*136 %*	*S+*	*70-130*
Surrogate: Toluene-d8	*123 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-217 0ft-3ft
Date Sampled: 03/24/15 16:10
Percent Solids: 65
Initial Volume: 30.4
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503415
ESS Laboratory Sample ID: 1503415-15
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 3/26/15 15:21

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.254)		8270D		1	03/27/15 5:07	CYC0313	CC52608
1,2-Dichlorobenzene	ND (0.254)		8270D		1	03/27/15 5:07	CYC0313	CC52608
1,3-Dichlorobenzene	ND (0.254)		8270D		1	03/27/15 5:07	CYC0313	CC52608
1,4-Dichlorobenzene	ND (0.254)		8270D		1	03/27/15 5:07	CYC0313	CC52608
2,4,5-Trichlorophenol	ND (0.254)		8270D		1	03/27/15 5:07	CYC0313	CC52608
2,4,6-Trichlorophenol	ND (0.254)		8270D		1	03/27/15 5:07	CYC0313	CC52608
2,4-Dichlorophenol	ND (0.254)		8270D		1	03/27/15 5:07	CYC0313	CC52608
2,4-Dimethylphenol	ND (0.254)		8270D		1	03/27/15 5:07	CYC0313	CC52608
2,4-Dinitrophenol	ND (1.28)		8270D		1	03/27/15 5:07	CYC0313	CC52608
2,4-Dinitrotoluene	ND (0.254)		8270D		1	03/27/15 5:07	CYC0313	CC52608
2,6-Dinitrotoluene	ND (0.254)		8270D		1	03/27/15 5:07	CYC0313	CC52608
2-Chloronaphthalene	ND (0.254)		8270D		1	03/27/15 5:07	CYC0313	CC52608
2-Chlorophenol	ND (0.254)		8270D		1	03/27/15 5:07	CYC0313	CC52608
2-Methylphenol	ND (0.254)		8270D		1	03/27/15 5:07	CYC0313	CC52608
2-Nitrophenol	ND (0.254)		8270D		1	03/27/15 5:07	CYC0313	CC52608
3,3´-Dichlorobenzidine	ND (0.510)		8270D		1	03/27/15 5:07	CYC0313	CC52608
3+4-Methylphenol	ND (0.510)		8270D		1	03/27/15 5:07	CYC0313	CC52608
4-Bromophenyl-phenylether	ND (0.254)		8270D		1	03/27/15 5:07	CYC0313	CC52608
4-Chloroaniline	ND (0.510)		8270D		1	03/27/15 5:07	CYC0313	CC52608
4-Nitrophenol	ND (1.28)		8270D		1	03/27/15 5:07	CYC0313	CC52608
Acetophenone	ND (0.510)		8270D		1	03/27/15 5:07	CYC0313	CC52608
Aniline	ND (1.28)		8270D		1	03/27/15 5:07	CYC0313	CC52608
Azobenzene	ND (0.254)		8270D		1	03/27/15 5:07	CYC0313	CC52608
bis(2-Chloroethoxy)methane	ND (0.254)		8270D		1	03/27/15 5:07	CYC0313	CC52608
bis(2-Chloroethyl)ether	ND (0.254)		8270D		1	03/27/15 5:07	CYC0313	CC52608
bis(2-chloroisopropyl)Ether	ND (0.254)		8270D		1	03/27/15 5:07	CYC0313	CC52608
bis(2-Ethylhexyl)phthalate	ND (0.254)		8270D		1	03/27/15 5:07	CYC0313	CC52608
Butylbenzylphthalate	ND (0.254)		8270D		1	03/27/15 5:07	CYC0313	CC52608
Dibenzofuran	ND (0.254)		8270D		1	03/27/15 5:07	CYC0313	CC52608
Diethylphthalate	ND (0.254)		8270D		1	03/27/15 5:07	CYC0313	CC52608
Dimethylphthalate	ND (0.254)		8270D		1	03/27/15 5:07	CYC0313	CC52608
Di-n-butylphthalate	ND (0.254)		8270D		1	03/27/15 5:07	CYC0313	CC52608

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-217 0ft-3ft
Date Sampled: 03/24/15 16:10
Percent Solids: 65
Initial Volume: 30.4
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503415
ESS Laboratory Sample ID: 1503415-15
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 3/26/15 15:21

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Di-n-octylphthalate	ND (0.254)		8270D		1	03/27/15 5:07	CYC0313	CC52608
Hexachlorobenzene	ND (0.254)		8270D		1	03/27/15 5:07	CYC0313	CC52608
Hexachlorobutadiene	ND (0.254)		8270D		1	03/27/15 5:07	CYC0313	CC52608
Hexachloroethane	ND (0.254)		8270D		1	03/27/15 5:07	CYC0313	CC52608
Isophorone	ND (0.254)		8270D		1	03/27/15 5:07	CYC0313	CC52608
Nitrobenzene	ND (0.254)		8270D		1	03/27/15 5:07	CYC0313	CC52608
N-Nitrosodimethylamine	ND (0.254)		8270D		1	03/27/15 5:07	CYC0313	CC52608
Pentachlorophenol	ND (1.28)		8270D		1	03/27/15 5:07	CYC0313	CC52608
Phenol	ND (0.254)		8270D		1	03/27/15 5:07	CYC0313	CC52608

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	54 %		30-130
Surrogate: 2,4,6-Tribromophenol	5 %	S-	30-130
Surrogate: 2-Chlorophenol-d4	59 %		30-130
Surrogate: 2-Fluorobiphenyl	64 %		30-130
Surrogate: 2-Fluorophenol	52 %		30-130
Surrogate: Nitrobenzene-d5	59 %		30-130
Surrogate: Phenol-d6	61 %		30-130
Surrogate: p-Terphenyl-d14	72 %		30-130

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-217 0ft-3ft
Date Sampled: 03/24/15 16:10
Percent Solids: 65

ESS Laboratory Work Order: 1503415
ESS Laboratory Sample ID: 1503415-15
Sample Matrix: Soil

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Corrosivity (pH)	**H 8.37** (N/A)		9045		1	EEM	03/26/15 11:50	S.U.	CC52616
Corrosivity (pH) Sample Temp	**Soil pH measured in water at 16.4 °C.**								
Eh (ORP)	**H, WL 275** (N/A)		2580		1	EEM	03/26/15 11:50	mv	CC52617
Grain Size	**See Attached** (N/A)								
Hexavalent Chromium	ND (0.6)		7196A		1	JLK	03/28/15 11:00	mg/kg dry	CC52807
Percent Water	**See Attached** (N/A)								
Reactive Cyanide	ND (2.0)		7.3.3.2		1	JLK	03/26/15 11:50	mg/kg	CC52618
Reactive Sulfide	**29.4** (2.0)		7.3.4.1		1	JLK	03/26/15 11:50	mg/kg	CC52618

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-217 0ft-3ft
Date Sampled: 03/24/15 16:10
Percent Solids: 65
Initial Volume: 30.5
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1503415
ESS Laboratory Sample ID: 1503415-15
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 3/26/15 16:10

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (19.0)		MADEP-EPH		1	DPS	03/27/15 5:34	CYC0307	CC52536
C19-C36 Aliphatics1	**61.3** (19.0)		MADEP-EPH		1	DPS	03/27/15 5:34	CYC0307	CC52536
C11-C22 Unadjusted Aromatics1	**46.5** (19.0)		EPH8270		1	JXS	03/28/15 8:48	CYC0342	CC52536
C11-C22 Aromatics1,2	**37.6** (19.0)		EPH8270			JXS	03/28/15 8:48		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*47 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*102 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*98 %*		*40-140*
Surrogate: O-Terphenyl	*63 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-217 6ft-8ft
Date Sampled: 03/24/15 16:10
Percent Solids: 65
Initial Volume: 20.2
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503415
ESS Laboratory Sample ID: 1503415-16
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 3/26/15 16:45

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	ND (0.019)		8270D		1	03/26/15 22:54	CYC0319	CC52609
Acenaphthene	ND (0.019)		8270D		1	03/26/15 22:54	CYC0319	CC52609
Acenaphthylene	ND (0.019)		8270D		1	03/26/15 22:54	CYC0319	CC52609
Anthracene	ND (0.019)		8270D		1	03/26/15 22:54	CYC0319	CC52609
Benzo(a)anthracene	ND (0.019)		8270D		1	03/26/15 22:54	CYC0319	CC52609
Benzo(a)pyrene	ND (0.019)		8270D		1	03/26/15 22:54	CYC0319	CC52609
Benzo(b)fluoranthene	ND (0.019)		8270D		1	03/26/15 22:54	CYC0319	CC52609
Benzo(g,h,i)perylene	ND (0.019)		8270D		1	03/26/15 22:54	CYC0319	CC52609
Benzo(k)fluoranthene	ND (0.019)		8270D		1	03/26/15 22:54	CYC0319	CC52609
Chrysene	ND (0.019)		8270D		1	03/26/15 22:54	CYC0319	CC52609
Dibenzo(a,h)Anthracene	ND (0.019)		8270D		1	03/26/15 22:54	CYC0319	CC52609
Fluoranthene	ND (0.019)		8270D		1	03/26/15 22:54	CYC0319	CC52609
Fluorene	ND (0.019)		8270D		1	03/26/15 22:54	CYC0319	CC52609
Hexachlorobenzene	ND (0.008)		8270D		1	03/26/15 22:54	CYC0319	CC52609
Indeno(1,2,3-cd)Pyrene	ND (0.019)		8270D		1	03/26/15 22:54	CYC0319	CC52609
Naphthalene	ND (0.019)		8270D		1	03/26/15 22:54	CYC0319	CC52609
Phenanthrene	ND (0.019)		8270D		1	03/26/15 22:54	CYC0319	CC52609
Pyrene	ND (0.019)		8270D		1	03/26/15 22:54	CYC0319	CC52609

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*43 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*60 %*		*30-130*
Surrogate: Nitrobenzene-d5	*44 %*		*30-130*
Surrogate: p-Terphenyl-d14	*67 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-202 0ft-0.5ft
Date Sampled: 03/24/15 11:30
Percent Solids: 100

ESS Laboratory Work Order: 1503415
ESS Laboratory Sample ID: 1503415-17
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (1.23)		7010		5	KJK	04/01/15 22:23	2.04	100	CC52701
Arsenic	**29.9** (2.45)		6010C		1	KJK	03/30/15 16:42	2.04	100	CC52701
Barium	**69.4** (2.45)		6010C		1	KJK	03/30/15 16:42	2.04	100	CC52701
Beryllium	**0.68** (0.11)		6010C		1	KJK	03/30/15 16:42	2.04	100	CC52701
Cadmium	**1.02** (0.49)		6010C		1	KJK	03/30/15 16:42	2.04	100	CC52701
Chromium	**87.0** (0.98)		6010C		1	KJK	03/30/15 16:42	2.04	100	CC52701
Lead	**237** (4.90)		6010C		1	KJK	03/30/15 16:42	2.04	100	CC52701
Mercury	**0.307** (0.032)		7471B		1	BJV	03/30/15 13:24	0.61	40	CC52702
Nickel	**26.6** (2.45)		6010C		1	KJK	03/30/15 16:42	2.04	100	CC52701
Selenium	ND (4.90)		6010C		1	KJK	03/30/15 16:42	2.04	100	CC52701
Silver	**1.42** (0.49)		6010C		1	KJK	03/30/15 16:42	2.04	100	CC52701
Thallium	ND (0.39)		7010		4	JP	04/06/15 19:57	2.04	100	CC52701
Vanadium	**80.7** (0.98)		6010C		1	KJK	03/30/15 16:42	2.04	100	CC52701
Zinc	**394** (2.45)		6010C		1	KJK	03/30/15 16:42	2.04	100	CC52701

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-202 2ft-4ft
Date Sampled: 03/24/15 11:30
Percent Solids: 100

ESS Laboratory Work Order: 1503415
ESS Laboratory Sample ID: 1503415-18
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (4.88)		6010C		1	KJK	03/30/15 17:21	2.05	100	CC52701
Arsenic	**15.3** (2.44)		6010C		1	KJK	03/30/15 17:21	2.05	100	CC52701
Barium	**25.7** (2.44)		6010C		1	KJK	03/30/15 17:21	2.05	100	CC52701
Beryllium	**0.32** (0.11)		6010C		1	KJK	03/30/15 17:21	2.05	100	CC52701
Cadmium	ND (0.49)		6010C		1	KJK	03/30/15 17:21	2.05	100	CC52701
Chromium	**33.2** (0.98)		6010C		1	KJK	03/30/15 17:21	2.05	100	CC52701
Lead	**73.8** (4.88)		6010C		1	KJK	03/30/15 17:21	2.05	100	CC52701
Mercury	**0.258** (0.032)		7471B		1	BJV	03/30/15 13:32	0.61	40	CC52702
Nickel	**12.7** (2.44)		6010C		1	KJK	03/30/15 17:21	2.05	100	CC52701
Selenium	ND (4.88)		6010C		1	KJK	03/30/15 17:21	2.05	100	CC52701
Silver	ND (0.49)		6010C		1	KJK	03/30/15 17:21	2.05	100	CC52701
Thallium	ND (0.39)		7010		4	JP	04/06/15 20:43	2.05	100	CC52701
Vanadium	**59.5** (0.98)		6010C		1	KJK	03/30/15 17:21	2.05	100	CC52701
Zinc	**114** (2.44)		6010C		1	KJK	03/30/15 17:21	2.05	100	CC52701

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-203 0ft-0.5ft
Date Sampled: 03/24/15 12:30
Percent Solids: 100

ESS Laboratory Work Order: 1503415
ESS Laboratory Sample ID: 1503415-19
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (1.24)		7010		5	KJK	04/01/15 22:51	2.01	100	CC52701
Arsenic	**25.5** (2.49)		6010C		1	KJK	03/30/15 17:25	2.01	100	CC52701
Barium	**55.7** (2.49)		6010C		1	KJK	03/30/15 17:25	2.01	100	CC52701
Beryllium	**0.54** (0.11)		6010C		1	KJK	03/30/15 17:25	2.01	100	CC52701
Cadmium	**0.73** (0.50)		6010C		1	KJK	03/30/15 17:25	2.01	100	CC52701
Chromium	**67.6** (1.00)		6010C		1	KJK	03/30/15 17:25	2.01	100	CC52701
Lead	**200** (4.98)		6010C		1	KJK	03/30/15 17:25	2.01	100	CC52701
Mercury	**0.728** (0.160)		7471B		5	BJV	03/30/15 15:22	0.62	40	CC52702
Nickel	**20.6** (2.49)		6010C		1	KJK	03/30/15 17:25	2.01	100	CC52701
Selenium	ND (4.98)		6010C		1	KJK	03/30/15 17:25	2.01	100	CC52701
Silver	**1.09** (0.50)		6010C		1	KJK	03/30/15 17:25	2.01	100	CC52701
Thallium	ND (0.40)		7010		4	JP	04/06/15 21:00	2.01	100	CC52701
Vanadium	**64.7** (1.00)		6010C		1	KJK	03/30/15 17:25	2.01	100	CC52701
Zinc	**311** (2.49)		6010C		1	KJK	03/30/15 17:25	2.01	100	CC52701

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-203 4ft-6ft
Date Sampled: 03/24/15 12:30
Percent Solids: 100

ESS Laboratory Work Order: 1503415
ESS Laboratory Sample ID: 1503415-20
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (1.21)		7010		5	KJK	04/01/15 22:57	2.06	100	CC52701
Arsenic	**18.8** (2.43)		6010C		1	KJK	03/30/15 17:31	2.06	100	CC52701
Barium	**50.7** (2.43)		6010C		1	KJK	03/30/15 17:31	2.06	100	CC52701
Beryllium	**0.58** (0.11)		6010C		1	KJK	03/30/15 17:31	2.06	100	CC52701
Cadmium	**0.50** (0.49)		6010C		1	KJK	03/30/15 17:31	2.06	100	CC52701
Chromium	**42.3** (0.97)		6010C		1	KJK	03/30/15 17:31	2.06	100	CC52701
Lead	**77.2** (4.85)		6010C		1	KJK	03/30/15 17:31	2.06	100	CC52701
Mercury	**0.218** (0.030)		7471B		1	BJV	03/30/15 13:39	0.65	40	CC52702
Nickel	**17.7** (2.43)		6010C		1	KJK	03/30/15 17:31	2.06	100	CC52701
Selenium	ND (4.85)		6010C		1	KJK	03/30/15 17:31	2.06	100	CC52701
Silver	ND (0.49)		6010C		1	KJK	03/30/15 17:31	2.06	100	CC52701
Thallium	ND (0.39)		7010		4	JP	04/06/15 21:06	2.06	100	CC52701
Vanadium	**45.5** (0.97)		6010C		1	KJK	03/30/15 17:31	2.06	100	CC52701
Zinc	**128** (2.43)		6010C		1	KJK	03/30/15 17:31	2.06	100	CC52701

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-203 0ft-3ft
Date Sampled: 03/24/15 12:30
Percent Solids: 100

ESS Laboratory Work Order: 1503415
ESS Laboratory Sample ID: 1503415-21
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (1.22)		7010		5	KJK	04/01/15 23:02	2.05	100	CC52701
Arsenic	**36.5** (2.44)		6010C		1	KJK	03/30/15 17:35	2.05	100	CC52701
Barium	**56.6** (2.44)		6010C		1	KJK	03/30/15 17:35	2.05	100	CC52701
Beryllium	**0.71** (0.11)		6010C		1	KJK	03/30/15 17:35	2.05	100	CC52701
Cadmium	**1.14** (0.49)		6010C		1	KJK	03/30/15 17:35	2.05	100	CC52701
Chromium	**77.9** (0.98)		6010C		1	KJK	03/30/15 17:35	2.05	100	CC52701
Lead	**190** (4.88)		6010C		1	KJK	03/30/15 17:35	2.05	100	CC52701
Mercury	**0.682** (0.162)		7471B		5	BJV	03/30/15 15:23	0.61	40	CC52702
Nickel	**23.8** (2.44)		6010C		1	KJK	03/30/15 17:35	2.05	100	CC52701
Selenium	ND (4.88)		6010C		1	KJK	03/30/15 17:35	2.05	100	CC52701
Silver	**0.91** (0.49)		6010C		1	KJK	03/30/15 17:35	2.05	100	CC52701
Thallium	ND (0.39)		7010		4	JP	04/06/15 21:11	2.05	100	CC52701
Vanadium	**105** (0.98)		6010C		1	KJK	03/30/15 17:35	2.05	100	CC52701
Zinc	**282** (2.44)		6010C		1	KJK	03/30/15 17:35	2.05	100	CC52701

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-204 0ft-0.5ft
Date Sampled: 03/24/15 12:50
Percent Solids: 100

ESS Laboratory Work Order: 1503415
ESS Laboratory Sample ID: 1503415-22
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (1.21)		7010		5	KJK	04/01/15 23:19	2.06	100	CC52701
Arsenic	**29.5** (2.43)		6010C		1	KJK	03/30/15 17:40	2.06	100	CC52701
Barium	**56.8** (2.43)		6010C		1	KJK	03/30/15 17:40	2.06	100	CC52701
Beryllium	**0.56** (0.11)		6010C		1	KJK	03/30/15 17:40	2.06	100	CC52701
Cadmium	**0.75** (0.49)		6010C		1	KJK	03/30/15 17:40	2.06	100	CC52701
Chromium	**69.3** (0.97)		6010C		1	KJK	03/30/15 17:40	2.06	100	CC52701
Lead	**216** (4.85)		6010C		1	KJK	03/30/15 17:40	2.06	100	CC52701
Mercury	**0.170** (0.033)		7471B		1	BJV	03/30/15 13:42	0.6	40	CC52702
Nickel	**21.5** (2.43)		6010C		1	KJK	03/30/15 17:40	2.06	100	CC52701
Selenium	ND (4.85)		6010C		1	KJK	03/30/15 17:40	2.06	100	CC52701
Silver	**1.15** (0.49)		6010C		1	KJK	03/30/15 17:40	2.06	100	CC52701
Thallium	ND (0.39)		7010		4	JP	04/06/15 21:17	2.06	100	CC52701
Vanadium	**70.2** (0.97)		6010C		1	KJK	03/30/15 17:40	2.06	100	CC52701
Zinc	**322** (2.43)		6010C		1	KJK	03/30/15 17:40	2.06	100	CC52701

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-204 2ft-4ft
Date Sampled: 03/24/15 12:50
Percent Solids: 100

ESS Laboratory Work Order: 1503415
ESS Laboratory Sample ID: 1503415-23
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (4.98)		6010C		1	KJK	03/30/15 17:46	2.01	100	CC52701
Arsenic	**61.4** (2.49)		6010C		1	KJK	03/30/15 17:46	2.01	100	CC52701
Barium	**66.4** (2.49)		6010C		1	KJK	03/30/15 17:46	2.01	100	CC52701
Beryllium	**0.56** (0.11)		6010C		1	KJK	03/30/15 17:46	2.01	100	CC52701
Cadmium	**1.74** (0.50)		6010C		1	KJK	03/30/15 17:46	2.01	100	CC52701
Chromium	**96.5** (1.00)		6010C		1	KJK	03/30/15 17:46	2.01	100	CC52701
Lead	**246** (4.98)		6010C		1	KJK	03/30/15 17:46	2.01	100	CC52701
Mercury	**1.11** (0.132)		7471B		5	BJV	03/30/15 15:25	0.75	40	CC52702
Nickel	**17.0** (2.49)		6010C		1	KJK	03/30/15 17:46	2.01	100	CC52701
Selenium	ND (4.98)		6010C		1	KJK	03/30/15 17:46	2.01	100	CC52701
Silver	**1.30** (0.50)		6010C		1	KJK	03/30/15 17:46	2.01	100	CC52701
Thallium	ND (0.40)		7010		4	JP	04/06/15 21:23	2.01	100	CC52701
Vanadium	**109** (1.00)		6010C		1	KJK	03/30/15 17:46	2.01	100	CC52701
Zinc	**280** (2.49)		6010C		1	KJK	03/30/15 17:46	2.01	100	CC52701

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-204 6ft-8ft
Date Sampled: 03/24/15 12:50
Percent Solids: 100

ESS Laboratory Work Order: 1503415
ESS Laboratory Sample ID: 1503415-24
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (4.74)		6010C		1	KJK	03/30/15 17:51	2.11	100	CC52701
Arsenic	**16.5** (2.37)		6010C		1	KJK	03/30/15 17:51	2.11	100	CC52701
Barium	**33.4** (2.37)		6010C		1	KJK	03/30/15 17:51	2.11	100	CC52701
Beryllium	**0.33** (0.10)		6010C		1	KJK	03/30/15 17:51	2.11	100	CC52701
Cadmium	**0.77** (0.47)		6010C		1	KJK	03/30/15 17:51	2.11	100	CC52701
Chromium	**32.0** (0.95)		6010C		1	KJK	03/30/15 17:51	2.11	100	CC52701
Lead	**93.7** (4.74)		6010C		1	KJK	03/30/15 17:51	2.11	100	CC52701
Mercury	**0.187** (0.033)		7471B		1	BJV	03/30/15 13:45	0.6	40	CC52702
Nickel	**10.3** (2.37)		6010C		1	KJK	03/30/15 17:51	2.11	100	CC52701
Selenium	ND (4.74)		6010C		1	KJK	03/30/15 17:51	2.11	100	CC52701
Silver	ND (0.47)		6010C		1	KJK	03/30/15 17:51	2.11	100	CC52701
Thallium	ND (0.38)		7010		4	JP	04/06/15 21:29	2.11	100	CC52701
Vanadium	**36.8** (0.95)		6010C		1	KJK	03/30/15 17:51	2.11	100	CC52701
Zinc	**129** (2.37)		6010C		1	KJK	03/30/15 17:51	2.11	100	CC52701

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-212 0ft-0.5ft
Date Sampled: 03/24/15 14:20
Percent Solids: 100

ESS Laboratory Work Order: 1503415
ESS Laboratory Sample ID: 1503415-25
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (4.95)		6010C		1	KJK	03/30/15 17:55	2.02	100	CC52701
Arsenic	**17.2** (2.48)		6010C		1	KJK	03/30/15 17:55	2.02	100	CC52701
Barium	**20.2** (2.48)		6010C		1	KJK	03/30/15 17:55	2.02	100	CC52701
Beryllium	**0.23** (0.11)		6010C		1	KJK	03/30/15 17:55	2.02	100	CC52701
Cadmium	ND (0.50)		6010C		1	KJK	03/30/15 17:55	2.02	100	CC52701
Chromium	**20.0** (0.99)		6010C		1	KJK	03/30/15 17:55	2.02	100	CC52701
Lead	**94.1** (4.95)		6010C		1	KJK	03/30/15 17:55	2.02	100	CC52701
Mercury	**0.249** (0.031)		7471B		1	BJV	03/30/15 13:47	0.63	40	CC52702
Nickel	**8.39** (2.48)		6010C		1	KJK	03/30/15 17:55	2.02	100	CC52701
Selenium	ND (4.95)		6010C		1	KJK	03/30/15 17:55	2.02	100	CC52701
Silver	ND (0.50)		6010C		1	KJK	03/30/15 17:55	2.02	100	CC52701
Thallium	ND (0.40)		7010		4	JP	04/06/15 21:34	2.02	100	CC52701
Vanadium	**28.2** (0.99)		6010C		1	KJK	03/30/15 17:55	2.02	100	CC52701
Zinc	**120** (2.48)		6010C		1	KJK	03/30/15 17:55	2.02	100	CC52701

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-212 0.5ft-2ft
Date Sampled: 03/24/15 14:20
Percent Solids: 100

ESS Laboratory Work Order: 1503415
ESS Laboratory Sample ID: 1503415-26
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (4.76)		6010C		1	KJK	03/30/15 18:13	2.1	100	CC52701
Arsenic	**9.78** (2.38)		6010C		1	KJK	03/30/15 18:13	2.1	100	CC52701
Barium	**19.5** (2.38)		6010C		1	KJK	03/30/15 18:13	2.1	100	CC52701
Beryllium	**0.29** (0.10)		6010C		1	KJK	03/30/15 18:13	2.1	100	CC52701
Cadmium	ND (0.48)		6010C		1	KJK	03/30/15 18:13	2.1	100	CC52701
Chromium	**17.7** (0.95)		6010C		1	KJK	03/30/15 18:13	2.1	100	CC52701
Lead	**87.7** (4.76)		6010C		1	KJK	03/30/15 18:13	2.1	100	CC52701
Mercury	**0.188** (0.032)		7471B		1	BJV	03/30/15 13:48	0.61	40	CC52702
Nickel	**8.71** (2.38)		6010C		1	KJK	03/30/15 18:13	2.1	100	CC52701
Selenium	ND (4.76)		6010C		1	KJK	03/30/15 18:13	2.1	100	CC52701
Silver	ND (0.48)		6010C		1	KJK	03/30/15 18:13	2.1	100	CC52701
Thallium	ND (0.38)		7010		4	JP	04/06/15 21:40	2.1	100	CC52701
Vanadium	**22.4** (0.95)		6010C		1	KJK	03/30/15 18:13	2.1	100	CC52701
Zinc	**44.3** (2.38)		6010C		1	KJK	03/30/15 18:13	2.1	100	CC52701

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-216 0ft-0.5ft
Date Sampled: 03/24/15 15:15
Percent Solids: 100

ESS Laboratory Work Order: 1503415
ESS Laboratory Sample ID: 1503415-27
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (1.09)		7010		5	KJK	04/03/15 11:57	2.3	100	CC52701
Arsenic	**52.2** (2.17)		6010C		1	KJK	03/30/15 18:17	2.3	100	CC52701
Barium	**43.7** (2.17)		6010C		1	KJK	03/30/15 18:17	2.3	100	CC52701
Beryllium	**0.40** (0.10)		6010C		1	KJK	03/30/15 18:17	2.3	100	CC52701
Cadmium	**0.66** (0.43)		6010C		1	KJK	03/30/15 18:17	2.3	100	CC52701
Chromium	**55.5** (0.87)		6010C		1	KJK	03/30/15 18:17	2.3	100	CC52701
Lead	**268** (4.35)		6010C		1	KJK	03/30/15 18:17	2.3	100	CC52701
Mercury	**0.467** (0.030)		7471B		1	BJV	03/30/15 13:50	0.67	40	CC52702
Nickel	**18.0** (2.17)		6010C		1	KJK	03/30/15 18:17	2.3	100	CC52701
Selenium	**5.19** (2.17)		7010		5	KJK	04/02/15 10:16	2.3	100	CC52701
Silver	**0.89** (0.43)		6010C		1	KJK	03/30/15 18:17	2.3	100	CC52701
Thallium	ND (0.35)		7010		4	JP	04/06/15 21:45	2.3	100	CC52701
Vanadium	**65.8** (0.87)		6010C		1	KJK	03/30/15 18:17	2.3	100	CC52701
Zinc	**265** (2.17)		6010C		1	KJK	03/30/15 18:17	2.3	100	CC52701

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-216 4ft-6ft
Date Sampled: 03/24/15 15:15
Percent Solids: 100

ESS Laboratory Work Order: 1503415
ESS Laboratory Sample ID: 1503415-28
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (4.72)		6010C		1	KJK	03/30/15 18:22	2.12	100	CC52701
Arsenic	**5.37** (2.36)		6010C		1	KJK	03/30/15 18:22	2.12	100	CC52701
Barium	**18.9** (2.36)		6010C		1	KJK	03/30/15 18:22	2.12	100	CC52701
Beryllium	**0.35** (0.10)		6010C		1	KJK	03/30/15 18:22	2.12	100	CC52701
Cadmium	ND (0.47)		6010C		1	KJK	03/30/15 18:22	2.12	100	CC52701
Chromium	**16.9** (0.94)		6010C		1	KJK	03/30/15 18:22	2.12	100	CC52701
Lead	**5.18** (4.72)		6010C		1	KJK	03/30/15 18:22	2.12	100	CC52701
Mercury	ND (0.030)		7471B		1	BJV	03/30/15 13:52	0.65	40	CC52702
Nickel	**9.99** (2.36)		6010C		1	KJK	03/30/15 18:22	2.12	100	CC52701
Selenium	ND (4.72)		6010C		1	KJK	03/30/15 18:22	2.12	100	CC52701
Silver	ND (0.47)		6010C		1	KJK	03/30/15 18:22	2.12	100	CC52701
Thallium	ND (0.38)		7010		4	JP	04/06/15 21:51	2.12	100	CC52701
Vanadium	**23.6** (0.94)		6010C		1	KJK	03/30/15 18:22	2.12	100	CC52701
Zinc	**27.5** (2.36)		6010C		1	KJK	03/30/15 18:22	2.12	100	CC52701

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-216 2ft-4ft
Date Sampled: 03/24/15 15:15
Percent Solids: 100

ESS Laboratory Work Order: 1503415
ESS Laboratory Sample ID: 1503415-29
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (1.09)		7010		5	KJK	04/01/15 23:25	2.3	100	CC52701
Arsenic	**11.5** (2.17)		6010C		1	KJK	03/30/15 18:26	2.3	100	CC52701
Barium	**28.3** (2.17)		6010C		1	KJK	03/30/15 18:26	2.3	100	CC52701
Beryllium	**0.42** (0.10)		6010C		1	KJK	03/30/15 18:26	2.3	100	CC52701
Cadmium	ND (0.43)		6010C		1	KJK	03/30/15 18:26	2.3	100	CC52701
Chromium	**22.5** (0.87)		6010C		1	KJK	03/30/15 18:26	2.3	100	CC52701
Lead	**73.8** (4.35)		6010C		1	KJK	03/30/15 18:26	2.3	100	CC52701
Mercury	**0.188** (0.030)		7471B		1	BJV	03/30/15 13:53	0.67	40	CC52702
Nickel	**12.1** (2.17)		6010C		1	KJK	03/30/15 18:26	2.3	100	CC52701
Selenium	ND (4.35)		6010C		1	KJK	03/30/15 18:26	2.3	100	CC52701
Silver	ND (0.43)		6010C		1	KJK	03/30/15 18:26	2.3	100	CC52701
Thallium	ND (0.35)		7010		4	JP	04/06/15 22:07	2.3	100	CC52701
Vanadium	**28.9** (0.87)		6010C		1	KJK	03/30/15 18:26	2.3	100	CC52701
Zinc	**72.7** (2.17)		6010C		1	KJK	03/30/15 18:26	2.3	100	CC52701

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-217 0ft-0.5ft
Date Sampled: 03/24/15 16:10
Percent Solids: 100

ESS Laboratory Work Order: 1503415
ESS Laboratory Sample ID: 1503415-30
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	**1.57** (1.19)		7010		5	KJK	04/01/15 23:31	2.1	100	CC52701
Arsenic	**164** (2.38)		6010C		1	KJK	03/30/15 18:30	2.1	100	CC52701
Barium	**73.5** (2.38)		6010C		1	KJK	03/30/15 18:30	2.1	100	CC52701
Beryllium	**0.48** (0.10)		6010C		1	KJK	03/30/15 18:30	2.1	100	CC52701
Cadmium	ND (0.48)		6010C		1	KJK	03/30/15 18:30	2.1	100	CC52701
Chromium	**56.1** (0.95)		6010C		1	KJK	03/30/15 18:30	2.1	100	CC52701
Lead	**791** (4.76)		6010C		1	KJK	03/30/15 18:30	2.1	100	CC52701
Mercury	**0.979** (0.160)		7471B		5	BJV	03/30/15 15:27	0.62	40	CC52702
Nickel	**25.0** (2.38)		6010C		1	KJK	03/30/15 18:30	2.1	100	CC52701
Selenium	**52.8** (11.9)		7010		25	KJK	04/02/15 10:33	2.1	100	CC52701
Silver	**1.23** (0.48)		6010C		1	KJK	03/30/15 18:30	2.1	100	CC52701
Thallium	ND (0.38)		7010		4	JP	04/06/15 22:13	2.1	100	CC52701
Vanadium	**61.3** (0.95)		6010C		1	KJK	03/30/15 18:30	2.1	100	CC52701
Zinc	**393** (2.38)		6010C		1	KJK	03/30/15 18:30	2.1	100	CC52701

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-217 0ft-3ft
Date Sampled: 03/24/15 16:10
Percent Solids: 100

ESS Laboratory Work Order: 1503415
ESS Laboratory Sample ID: 1503415-31
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	**1.54** (1.24)		7010		5	KJK	04/01/15 23:37	2.02	100	CC52701
Arsenic	**92.1** (2.48)		6010C		1	KJK	03/30/15 18:36	2.02	100	CC52701
Barium	**47.6** (2.48)		6010C		1	KJK	03/30/15 18:36	2.02	100	CC52701
Beryllium	**0.44** (0.11)		6010C		1	KJK	03/30/15 18:36	2.02	100	CC52701
Cadmium	**1.12** (0.50)		6010C		1	KJK	03/30/15 18:36	2.02	100	CC52701
Chromium	**41.5** (0.99)		6010C		1	KJK	03/30/15 18:36	2.02	100	CC52701
Lead	**545** (4.95)		6010C		1	KJK	03/30/15 18:36	2.02	100	CC52701
Mercury	**0.969** (0.152)		7471B		5	BJV	03/30/15 15:28	0.65	40	CC52702
Nickel	**15.1** (2.48)		6010C		1	KJK	03/30/15 18:36	2.02	100	CC52701
Selenium	**22.6** (2.50)		7010		5	JP	03/31/15 14:07	2	100	CC52816
Silver	**0.64** (0.50)		6010C		1	KJK	03/30/15 18:36	2.02	100	CC52701
Thallium	ND (0.40)		7010		4	JP	04/06/15 22:19	2.02	100	CC52701
Vanadium	**38.0** (0.99)		6010C		1	KJK	03/30/15 18:36	2.02	100	CC52701
Zinc	**515** (2.48)		6010C		1	KJK	03/30/15 18:36	2.02	100	CC52701

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-217 6ft-8ft
Date Sampled: 03/24/15 16:10
Percent Solids: 100

ESS Laboratory Work Order: 1503415
ESS Laboratory Sample ID: 1503415-32
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (4.13)		6010C		1	KJK	03/30/15 18:41	2.42	100	CC52701
Arsenic	**5.33** (2.07)		6010C		1	KJK	03/30/15 18:41	2.42	100	CC52701
Barium	**19.4** (2.07)		6010C		1	KJK	03/30/15 18:41	2.42	100	CC52701
Beryllium	**0.32** (0.09)		6010C		1	KJK	03/30/15 18:41	2.42	100	CC52701
Cadmium	ND (0.41)		6010C		1	KJK	03/30/15 18:41	2.42	100	CC52701
Chromium	**16.2** (0.83)		6010C		1	KJK	03/30/15 18:41	2.42	100	CC52701
Lead	**5.15** (4.13)		6010C		1	KJK	03/30/15 18:41	2.42	100	CC52701
Mercury	ND (0.033)		7471B		1	BJV	03/30/15 14:02	0.6	40	CC52702
Nickel	**9.93** (2.07)		6010C		1	KJK	03/30/15 18:41	2.42	100	CC52701
Selenium	ND (4.13)		6010C		1	KJK	03/30/15 18:41	2.42	100	CC52701
Silver	ND (0.41)		6010C		1	KJK	03/30/15 18:41	2.42	100	CC52701
Thallium	ND (0.33)		7010		4	JP	04/06/15 22:24	2.42	100	CC52701
Vanadium	**23.7** (0.83)		6010C		1	KJK	03/30/15 18:41	2.42	100	CC52701
Zinc	**28.3** (2.07)		6010C		1	KJK	03/30/15 18:41	2.42	100	CC52701

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-202 0ft-0.5ft
Date Sampled: 03/24/15 11:30
Percent Solids: 89
Initial Volume: 25.3
Final Volume: 2
Extraction Method: 3540C

ESS Laboratory Work Order: 1503415
ESS Laboratory Sample ID: 1503415-33
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 3/30/15 18:30
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0089)		8082A		1	03/31/15 15:19		CC53006
Aroclor 1221	ND (0.0089)		8082A		1	03/31/15 15:19		CC53006
Aroclor 1232	ND (0.0089)		8082A		1	03/31/15 15:19		CC53006
Aroclor 1242	ND (0.0089)		8082A		1	03/31/15 15:19		CC53006
Aroclor 1248	**0.554** (0.0889)		8082A		10	04/01/15 0:28		CC53006
Aroclor 1254	**0.737** (0.0889)		8082A		10	04/01/15 0:28		CC53006
Aroclor 1260	**0.339** (0.0889)		8082A		10	04/01/15 0:28		CC53006
Aroclor 1262	ND (0.0089)		8082A		1	03/31/15 15:19		CC53006
Aroclor 1268	ND (0.0089)		8082A		1	03/31/15 15:19		CC53006

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*74 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*34 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*60 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*53 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-203 0ft-0.5ft
Date Sampled: 03/24/15 12:30
Percent Solids: 94
Initial Volume: 25.8
Final Volume: 2
Extraction Method: 3540C

ESS Laboratory Work Order: 1503415
ESS Laboratory Sample ID: 1503415-34
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 3/30/15 18:30
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0082)		8082A		1	03/31/15 15:37		CC53006
Aroclor 1221	ND (0.0082)		8082A		1	03/31/15 15:37		CC53006
Aroclor 1232	ND (0.0082)		8082A		1	03/31/15 15:37		CC53006
Aroclor 1242	ND (0.0082)		8082A		1	03/31/15 15:37		CC53006
Aroclor 1248	**0.496** (0.0823)		8082A		10	04/01/15 0:47		CC53006
Aroclor 1254	**0.667** (0.0823)		8082A		10	04/01/15 0:47		CC53006
Aroclor 1260	**0.274** (0.0823)		8082A		10	04/01/15 0:47		CC53006
Aroclor 1262	ND (0.0082)		8082A		1	03/31/15 15:37		CC53006
Aroclor 1268	ND (0.0082)		8082A		1	03/31/15 15:37		CC53006

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*121 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*54 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*70 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*62 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-203 0ft-3ft
Date Sampled: 03/24/15 12:30
Percent Solids: 97
Initial Volume: 25.7
Final Volume: 2
Extraction Method: 3540C

ESS Laboratory Work Order: 1503415
ESS Laboratory Sample ID: 1503415-35
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 3/30/15 18:30
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.402)		8082A		50	04/01/15 1:06		CC53006
Aroclor 1221	ND (0.402)		8082A		50	04/01/15 1:06		CC53006
Aroclor 1232	ND (0.402)		8082A		50	04/01/15 1:06		CC53006
Aroclor 1242	ND (0.402)		8082A		50	04/01/15 1:06		CC53006
Aroclor 1248	**5.10** (0.402)		8082A		50	04/01/15 1:06		CC53006
Aroclor 1254	**2.83** (0.402)		8082A		50	04/01/15 1:06		CC53006
Aroclor 1260	**0.699** (0.402)		8082A		50	04/01/15 1:06		CC53006
Aroclor 1262	ND (0.402)		8082A		50	04/01/15 1:06		CC53006
Aroclor 1268	ND (0.402)		8082A		50	04/01/15 1:06		CC53006

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	%	SD	30-150
Surrogate: Decachlorobiphenyl [2C]	%	SD	30-150
Surrogate: Tetrachloro-m-xylene	%	SD	30-150
Surrogate: Tetrachloro-m-xylene [2C]	%	SD	30-150

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-204 0ft-0.5ft
Date Sampled: 03/24/15 12:50
Percent Solids: 94
Initial Volume: 26.1
Final Volume: 2
Extraction Method: 3540C

ESS Laboratory Work Order: 1503415
ESS Laboratory Sample ID: 1503415-36
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 3/30/15 18:30
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0082)		8082A		1	03/31/15 16:15		CC53006
Aroclor 1221	ND (0.0082)		8082A		1	03/31/15 16:15		CC53006
Aroclor 1232	ND (0.0082)		8082A		1	03/31/15 16:15		CC53006
Aroclor 1242	ND (0.0082)		8082A		1	03/31/15 16:15		CC53006
Aroclor 1248	**0.577** (0.0816)		8082A		10	04/01/15 1:25		CC53006
Aroclor 1254	**0.637** (0.0816)		8082A		10	04/01/15 1:25		CC53006
Aroclor 1260	**0.243** (0.0816)		8082A		10	04/01/15 1:25		CC53006
Aroclor 1262	ND (0.0082)		8082A		1	03/31/15 16:15		CC53006
Aroclor 1268	ND (0.0082)		8082A		1	03/31/15 16:15		CC53006

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*124 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*48 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*64 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*60 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-204 2ft-4ft
Date Sampled: 03/24/15 12:50
Percent Solids: 92
Initial Volume: 26.2
Final Volume: 2
Extraction Method: 3540C

ESS Laboratory Work Order: 1503415
ESS Laboratory Sample ID: 1503415-37
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 3/30/15 18:30
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.167)		8082A		20	04/01/15 1:44		CC53006
Aroclor 1221	ND (0.167)		8082A		20	04/01/15 1:44		CC53006
Aroclor 1232	ND (0.167)		8082A		20	04/01/15 1:44		CC53006
Aroclor 1242	ND (0.167)		8082A		20	04/01/15 1:44		CC53006
Aroclor 1248	**1.77** (0.167)		8082A		20	04/01/15 1:44		CC53006
Aroclor 1254	**2.07** (0.167)		8082A		20	04/01/15 1:44		CC53006
Aroclor 1260	**0.741** (0.167)		8082A		20	04/01/15 1:44		CC53006
Aroclor 1262	ND (0.167)		8082A		20	04/01/15 1:44		CC53006
Aroclor 1268	ND (0.167)		8082A		20	04/01/15 1:44		CC53006

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	%	SD	30-150
Surrogate: Decachlorobiphenyl [2C]	%	SD	30-150
Surrogate: Tetrachloro-m-xylene	%	SD	30-150
Surrogate: Tetrachloro-m-xylene [2C]	%	SD	30-150

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-212 0ft-0.5ft
Date Sampled: 03/24/15 14:20
Percent Solids: 100
Initial Volume: 26.2
Final Volume: 2
Extraction Method: 3540C

ESS Laboratory Work Order: 1503415
ESS Laboratory Sample ID: 1503415-38
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 3/30/15 18:30
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0076)		8082A		1	03/31/15 16:52		CC53006
Aroclor 1221	ND (0.0076)		8082A		1	03/31/15 16:52		CC53006
Aroclor 1232	ND (0.0076)		8082A		1	03/31/15 16:52		CC53006
Aroclor 1242	ND (0.0076)		8082A		1	03/31/15 16:52		CC53006
Aroclor 1248	**0.0576** (0.0076)		8082A		1	03/31/15 16:52		CC53006
Aroclor 1254	**0.0856** (0.0076)		8082A		1	03/31/15 16:52		CC53006
Aroclor 1260	**0.0356** (0.0076)		8082A		1	03/31/15 16:52		CC53006
Aroclor 1262	ND (0.0076)		8082A		1	03/31/15 16:52		CC53006
Aroclor 1268	ND (0.0076)		8082A		1	03/31/15 16:52		CC53006

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*84 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*68 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*91 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*85 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-216 0ft-0.5ft
Date Sampled: 03/24/15 15:15
Percent Solids: 98
Initial Volume: 25.9
Final Volume: 2
Extraction Method: 3540C

ESS Laboratory Work Order: 1503415
ESS Laboratory Sample ID: 1503415-39
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 3/30/15 18:30
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0079)		8082A		1	03/31/15 17:11		CC53006
Aroclor 1221	ND (0.0079)		8082A		1	03/31/15 17:11		CC53006
Aroclor 1232	ND (0.0079)		8082A		1	03/31/15 17:11		CC53006
Aroclor 1242	ND (0.0079)		8082A		1	03/31/15 17:11		CC53006
Aroclor 1248	**0.256** (0.0396)		8082A		5	04/01/15 2:03		CC53006
Aroclor 1254	**0.343** (0.0396)		8082A		5	04/01/15 2:03		CC53006
Aroclor 1260	**0.180** (0.0396)		8082A		5	04/01/15 2:03		CC53006
Aroclor 1262	ND (0.0079)		8082A		1	03/31/15 17:11		CC53006
Aroclor 1268	ND (0.0079)		8082A		1	03/31/15 17:11		CC53006

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*105 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*62 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*52 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*53 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-216 2ft-4ft
Date Sampled: 03/24/15 15:15
Percent Solids: 99
Initial Volume: 25.7
Final Volume: 2
Extraction Method: 3540C

ESS Laboratory Work Order: 1503415
ESS Laboratory Sample ID: 1503415-40
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 3/30/15 18:30
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0079)		8082A		1	03/31/15 17:30		CC53006
Aroclor 1221	ND (0.0079)		8082A		1	03/31/15 17:30		CC53006
Aroclor 1232	ND (0.0079)		8082A		1	03/31/15 17:30		CC53006
Aroclor 1242	ND (0.0079)		8082A		1	03/31/15 17:30		CC53006
Aroclor 1248	ND (0.0079)		8082A		1	03/31/15 17:30		CC53006
Aroclor 1254	**0.0087** (0.0079)		8082A		1	03/31/15 17:30		CC53006
Aroclor 1260	ND (0.0079)		8082A		1	03/31/15 17:30		CC53006
Aroclor 1262	ND (0.0079)		8082A		1	03/31/15 17:30		CC53006
Aroclor 1268	ND (0.0079)		8082A		1	03/31/15 17:30		CC53006

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*77 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*72 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*86 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*78 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-217 0ft-0.5ft
Date Sampled: 03/24/15 16:10
Percent Solids: 99
Initial Volume: 25.4
Final Volume: 2
Extraction Method: 3540C

ESS Laboratory Work Order: 1503415
ESS Laboratory Sample ID: 1503415-41
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 3/30/15 18:30
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0080)		8082A		1	03/31/15 17:49		CC53006
Aroclor 1221	ND (0.0080)		8082A		1	03/31/15 17:49		CC53006
Aroclor 1232	ND (0.0080)		8082A		1	03/31/15 17:49		CC53006
Aroclor 1242	ND (0.0080)		8082A		1	03/31/15 17:49		CC53006
Aroclor 1248	**0.0718** (0.0080)		8082A		1	03/31/15 17:49		CC53006
Aroclor 1254	**0.0971** (0.0080)		8082A		1	03/31/15 17:49		CC53006
Aroclor 1260	**0.0535** (0.0080)		8082A		1	03/31/15 17:49		CC53006
Aroclor 1262	ND (0.0080)		8082A		1	03/31/15 17:49		CC53006
Aroclor 1268	ND (0.0080)		8082A		1	03/31/15 17:49		CC53006

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*83 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*65 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*59 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*56 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-217 0ft-3ft
Date Sampled: 03/24/15 16:10
Percent Solids: 98
Initial Volume: 25.4
Final Volume: 2
Extraction Method: 3540C

ESS Laboratory Work Order: 1503415
ESS Laboratory Sample ID: 1503415-42
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 3/30/15 18:30
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0080)		8082A		1	03/31/15 18:08		CC53006
Aroclor 1221	ND (0.0080)		8082A		1	03/31/15 18:08		CC53006
Aroclor 1232	ND (0.0080)		8082A		1	03/31/15 18:08		CC53006
Aroclor 1242	ND (0.0080)		8082A		1	03/31/15 18:08		CC53006
Aroclor 1248	**0.0418** (0.0080)		8082A		1	03/31/15 18:08		CC53006
Aroclor 1254	**0.0272** (0.0080)		8082A		1	03/31/15 18:08		CC53006
Aroclor 1260	**0.0324** (0.0080)		8082A		1	03/31/15 18:08		CC53006
Aroclor 1262	ND (0.0080)		8082A		1	03/31/15 18:08		CC53006
Aroclor 1268	ND (0.0080)		8082A		1	03/31/15 18:08		CC53006

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*67 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*49 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*61 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*59 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503415

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Total Metals										
Batch CC52701 - 3050B										
Blank										
Antimony	ND	5.00	mg/kg wet							
Antimony	ND	0.25	mg/kg wet							
Arsenic	ND	2.50	mg/kg wet							
Barium	ND	2.50	mg/kg wet							
Beryllium	ND	0.11	mg/kg wet							
Cadmium	ND	0.50	mg/kg wet							
Chromium	ND	1.00	mg/kg wet							
Lead	ND	5.00	mg/kg wet							
Nickel	ND	2.50	mg/kg wet							
Selenium	ND	5.00	mg/kg wet							
Selenium	ND	0.50	mg/kg wet							
Silver	ND	0.50	mg/kg wet							
Thallium	ND	0.10	mg/kg wet							
Vanadium	ND	1.00	mg/kg wet							
Zinc	ND	2.50	mg/kg wet							
LCS										
Antimony	60.5	9.09	mg/kg wet	49.70		122	24-282			
Antimony	59.1	18.2	mg/kg wet	49.70		119	24-282			
Arsenic	127	9.09	mg/kg wet	133.0		95	80-120			
Barium	200	9.09	mg/kg wet	229.0		88	80-120			
Beryllium	91.2	0.40	mg/kg wet	95.80		95	80-120			
Cadmium	108	1.82	mg/kg wet	123.0		88	80-120			
Chromium	56.7	3.64	mg/kg wet	63.20		90	80-120			
Lead	105	18.2	mg/kg wet	108.0		97	80-120			
Nickel	264	9.09	mg/kg wet	285.0		93	80-120			
Selenium	74.2	18.2	mg/kg wet	81.40		91	80-120			
Selenium	85.7	18.2	mg/kg wet	81.40		105	80-120			
Silver	73.7	1.82	mg/kg wet	74.80		99	80-120			
Thallium	46.6	10.9	mg/kg wet	50.10		93	80-120			
Vanadium	147	3.64	mg/kg wet	148.0		99	80-120			
Zinc	195	9.09	mg/kg wet	203.0		96	80-120			
LCS Dup										
Antimony	64.6	18.9	mg/kg wet	49.70		130	24-282	9	20	
Antimony	61.6	9.43	mg/kg wet	49.70		124	24-282	2	20	
Arsenic	142	9.43	mg/kg wet	133.0		107	80-120	12	20	
Barium	226	9.43	mg/kg wet	229.0		99	80-120	12	20	
Beryllium	95.9	0.42	mg/kg wet	95.80		100	80-120	5	20	
Cadmium	113	1.89	mg/kg wet	123.0		92	80-120	4	20	
Chromium	60.6	3.77	mg/kg wet	63.20		96	80-120	7	20	
Lead	109	18.9	mg/kg wet	108.0		101	80-120	4	20	
Nickel	273	9.43	mg/kg wet	285.0		96	80-120	3	20	
Selenium	76.5	18.9	mg/kg wet	81.40		94	80-120	3	20	
Selenium	84.5	18.9	mg/kg wet	81.40		104	80-120	1	20	
Silver	78.0	1.89	mg/kg wet	74.80		104	80-120	6	20	

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503415

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Total Metals										
Batch CC52701 - 3050B										
Thallium	46.6	3.77	mg/kg wet	50.10		93	80-120	0.2	20	
Vanadium	142	3.77	mg/kg wet	148.0		96	80-120	3	20	
Zinc	199	9.43	mg/kg wet	203.0		98	80-120	2	20	
Duplicate **Source: 1503415-17**										
Antimony	0.791	1.15	mg/kg dry		0.693			13	35	
Arsenic	29.5	2.29	mg/kg dry		29.9			1	35	
Barium	69.7	2.29	mg/kg dry		69.4			0.4	35	
Beryllium	0.691	0.10	mg/kg dry		0.679			2	35	
Cadmium	1.05	0.46	mg/kg dry		1.02			2	35	
Chromium	88.3	0.92	mg/kg dry		87.0			1	35	
Lead	236	4.59	mg/kg dry		237			0.4	35	
Nickel	25.9	2.29	mg/kg dry		26.6			3	35	
Selenium	ND	4.59	mg/kg dry		2.28			200	35	
Silver	1.38	0.46	mg/kg dry		1.42			2	35	
Thallium	ND	0.37	mg/kg dry		ND				35	
Vanadium	80.8	0.92	mg/kg dry		80.7			0.2	35	
Zinc	395	2.29	mg/kg dry		394			0.3	35	
Duplicate **Source: 1503415-32**										
Antimony	ND	4.67	mg/kg dry		ND				35	
Arsenic	6.14	2.34	mg/kg dry		5.33			14	35	
Barium	18.8	2.34	mg/kg dry		19.4			3	35	
Beryllium	0.326	0.10	mg/kg dry		0.320			2	35	
Cadmium	ND	0.47	mg/kg dry		ND				35	
Chromium	15.9	0.93	mg/kg dry		16.2			2	35	
Lead	4.16	4.67	mg/kg dry		5.15			21	35	
Nickel	9.75	2.34	mg/kg dry		9.93			2	35	
Selenium	ND	4.67	mg/kg dry		1.09			200	35	
Silver	ND	0.47	mg/kg dry		ND				35	
Thallium	ND	0.37	mg/kg dry		ND				35	
Vanadium	24.8	0.93	mg/kg dry		23.7			4	35	
Zinc	27.7	2.34	mg/kg dry		28.3			2	35	
Matrix Spike **Source: 1503415-17**										
Antimony	6.52	4.85	mg/kg dry	24.27	0.693	24	75-125			M-
Arsenic	50.0	2.43	mg/kg dry	24.27	29.9	83	75-125			
Barium	89.8	2.43	mg/kg dry	24.27	69.4	84	75-125			
Beryllium	2.64	0.11	mg/kg dry	2.427	0.679	81	75-125			
Cadmium	10.4	0.49	mg/kg dry	12.14	1.02	78	75-125			
Chromium	106	0.97	mg/kg dry	24.27	87.0	80	75-125			
Lead	253	4.85	mg/kg dry	24.27	237	64	75-125			M-
Nickel	43.4	2.43	mg/kg dry	24.27	26.6	69	75-125			M-
Selenium	37.0	4.85	mg/kg dry	48.54	2.28	72	75-125			M-
Silver	11.8	0.49	mg/kg dry	12.14	1.42	85	75-125			
Thallium	9.61	1.94	mg/kg dry	24.27	ND	40	75-125			M-
Vanadium	99.4	0.97	mg/kg dry	24.27	80.7	77	75-125			
Zinc	408	2.43	mg/kg dry	24.27	394	59	75-125			M-

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503415

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Total Metals										
Batch CC52701 - 3050B										
Matrix Spike **Source: 1503415-32**										
Antimony	3.62	4.76	mg/kg dry	23.81	ND	15	75-125			M-
Arsenic	28.5	2.38	mg/kg dry	23.81	5.33	97	75-125			
Barium	40.9	2.38	mg/kg dry	23.81	19.4	91	75-125			
Beryllium	2.48	0.10	mg/kg dry	2.381	0.320	91	75-125			
Cadmium	9.91	0.48	mg/kg dry	11.90	ND	83	75-125			
Chromium	37.6	0.95	mg/kg dry	23.81	16.2	90	75-125			
Lead	24.7	4.76	mg/kg dry	23.81	5.15	82	75-125			
Nickel	29.6	2.38	mg/kg dry	23.81	9.93	83	75-125			
Selenium	40.2	4.76	mg/kg dry	47.62	1.09	82	75-125			
Silver	11.0	0.48	mg/kg dry	11.90	ND	92	75-125			
Thallium	23.4	1.90	mg/kg dry	23.81	ND	98	75-125			
Vanadium	46.7	0.95	mg/kg dry	23.81	23.7	96	75-125			
Zinc	49.8	2.38	mg/kg dry	23.81	28.3	90	75-125			
Batch CC52702 - 7471A										
Blank										
Mercury	ND	0.033	mg/kg wet							
LCS										
Mercury	29.3	3.96	mg/kg wet	24.90		118	80-120			
LCS Dup										
Mercury	29.7	3.30	mg/kg wet	24.90		119	80-120	1	20	
Duplicate **Source: 1503415-17**										
Mercury	0.354	0.028	mg/kg dry		0.307			14	35	
Duplicate **Source: 1503415-32**										
Mercury	ND	0.032	mg/kg dry		ND				35	
Matrix Spike **Source: 1503415-17**										
Mercury	0.327	0.030	mg/kg dry	0.1791	0.307	11	75-125			M-
Matrix Spike **Source: 1503415-32**										
Mercury	0.146	0.028	mg/kg dry	0.1714	ND	85	75-125			
Batch CC52816 - 3050B										
Blank										
Selenium	ND	0.50	mg/kg wet							
LCS										
Selenium	71.2	17.2	mg/kg wet	81.40		87	80-120			
LCS Dup										
Selenium	82.9	19.2	mg/kg wet	81.40		102	80-120	15	20	
5035/8260B Volatile Organic Compounds / Low Level										
Batch CC52627 - 5035										
Blank										
1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet							
1,1,1-Trichloroethane	ND	0.0050	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503415

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch CC52627 - 5035										
1,1,2,2-Tetrachloroethane	ND	0.0020	mg/kg wet							
1,1,2-Trichloroethane	ND	0.0050	mg/kg wet							
1,1-Dichloroethane	ND	0.0050	mg/kg wet							
1,1-Dichloroethene	ND	0.0050	mg/kg wet							
1,1-Dichloropropene	ND	0.0050	mg/kg wet							
1,2,3-Trichlorobenzene	ND	0.0050	mg/kg wet							
1,2,3-Trichloropropane	ND	0.0050	mg/kg wet							
1,2,4-Trichlorobenzene	ND	0.0050	mg/kg wet							
1,2,4-Trimethylbenzene	ND	0.0050	mg/kg wet							
1,2-Dibromo-3-Chloropropane	ND	0.0050	mg/kg wet							
1,2-Dibromoethane	ND	0.0050	mg/kg wet							
1,2-Dichlorobenzene	ND	0.0050	mg/kg wet							
1,2-Dichloroethane	ND	0.0050	mg/kg wet							
1,2-Dichloropropane	ND	0.0050	mg/kg wet							
1,3,5-Trimethylbenzene	ND	0.0050	mg/kg wet							
1,3-Dichlorobenzene	ND	0.0050	mg/kg wet							
1,3-Dichloropropane	ND	0.0050	mg/kg wet							
1,4-Dichlorobenzene	ND	0.0050	mg/kg wet							
1,4-Dioxane	ND	0.100	mg/kg wet							
2,2-Dichloropropane	ND	0.0050	mg/kg wet							
2-Butanone	ND	0.0100	mg/kg wet							
2-Chlorotoluene	ND	0.0050	mg/kg wet							
2-Hexanone	ND	0.0100	mg/kg wet							
4-Chlorotoluene	ND	0.0050	mg/kg wet							
4-Isopropyltoluene	ND	0.0050	mg/kg wet							
4-Methyl-2-Pentanone	ND	0.0100	mg/kg wet							
Acetone	ND	0.0100	mg/kg wet							
Benzene	ND	0.0050	mg/kg wet							
Bromobenzene	ND	0.0050	mg/kg wet							
Bromochloromethane	ND	0.0050	mg/kg wet							
Bromodichloromethane	ND	0.0050	mg/kg wet							
Bromoform	ND	0.0050	mg/kg wet							
Bromomethane	ND	0.0100	mg/kg wet							
Carbon Disulfide	ND	0.0050	mg/kg wet							
Carbon Tetrachloride	ND	0.0050	mg/kg wet							
Chlorobenzene	ND	0.0050	mg/kg wet							
Chloroethane	ND	0.0100	mg/kg wet							
Chloroform	ND	0.0050	mg/kg wet							
Chloromethane	ND	0.0100	mg/kg wet							
cis-1,2-Dichloroethene	ND	0.0050	mg/kg wet							
cis-1,3-Dichloropropene	ND	0.0050	mg/kg wet							
Dibromochloromethane	ND	0.0020	mg/kg wet							
Dibromomethane	ND	0.0050	mg/kg wet							
Dichlorodifluoromethane	ND	0.0100	mg/kg wet							
Diethyl Ether	ND	0.0050	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503415

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch CC52627 - 5035										
Di-isopropyl ether	ND	0.0050	mg/kg wet							
Ethyl tertiary-butyl ether	ND	0.0050	mg/kg wet							
Ethylbenzene	ND	0.0050	mg/kg wet							
Hexachlorobutadiene	ND	0.0050	mg/kg wet							
Isopropylbenzene	ND	0.0050	mg/kg wet							
Methyl tert-Butyl Ether	ND	0.0050	mg/kg wet							
Methylene Chloride	ND	0.0100	mg/kg wet							
Naphthalene	ND	0.0050	mg/kg wet							
n-Butylbenzene	ND	0.0050	mg/kg wet							
n-Propylbenzene	ND	0.0050	mg/kg wet							
sec-Butylbenzene	ND	0.0050	mg/kg wet							
Styrene	ND	0.0050	mg/kg wet							
tert-Butylbenzene	ND	0.0050	mg/kg wet							
Tertiary-amyl methyl ether	ND	0.0050	mg/kg wet							
Tetrachloroethene	ND	0.0050	mg/kg wet							
Tetrahydrofuran	ND	0.0050	mg/kg wet							
Toluene	ND	0.0050	mg/kg wet							
trans-1,2-Dichloroethene	ND	0.0050	mg/kg wet							
trans-1,3-Dichloropropene	ND	0.0050	mg/kg wet							
Trichloroethene	ND	0.0050	mg/kg wet							
Trichlorofluoromethane	ND	0.0050	mg/kg wet							
Vinyl Chloride	ND	0.0100	mg/kg wet							
Xylene O	ND	0.0050	mg/kg wet							
Xylene P,M	ND	0.0100	mg/kg wet							
Surrogate: 1,2-Dichloroethane-d4	*0.0484*		mg/kg wet	*0.05000*		*97*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.0461*		mg/kg wet	*0.05000*		*92*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0447*		mg/kg wet	*0.05000*		*89*	*70-130*			
Surrogate: Toluene-d8	*0.0466*		mg/kg wet	*0.05000*		*93*	*70-130*			
LCS										
1,1,1,2-Tetrachloroethane	0.0567	0.0050	mg/kg wet	0.05000		113	70-130			
1,1,1-Trichloroethane	0.0535	0.0050	mg/kg wet	0.05000		107	70-130			
1,1,2,2-Tetrachloroethane	0.0496	0.0020	mg/kg wet	0.05000		99	70-130			
1,1,2-Trichloroethane	0.0477	0.0050	mg/kg wet	0.05000		95	70-130			
1,1-Dichloroethane	0.0470	0.0050	mg/kg wet	0.05000		94	70-130			
1,1-Dichloroethene	0.0459	0.0050	mg/kg wet	0.05000		92	70-130			
1,1-Dichloropropene	0.0460	0.0050	mg/kg wet	0.05000		92	70-130			
1,2,3-Trichlorobenzene	0.0533	0.0050	mg/kg wet	0.05000		107	70-130			
1,2,3-Trichloropropane	0.0539	0.0050	mg/kg wet	0.05000		108	70-130			
1,2,4-Trichlorobenzene	0.0518	0.0050	mg/kg wet	0.05000		104	70-130			
1,2,4-Trimethylbenzene	0.0496	0.0050	mg/kg wet	0.05000		99	70-130			
1,2-Dibromo-3-Chloropropane	0.0544	0.0050	mg/kg wet	0.05000		109	70-130			
1,2-Dibromoethane	0.0528	0.0050	mg/kg wet	0.05000		106	70-130			
1,2-Dichlorobenzene	0.0503	0.0050	mg/kg wet	0.05000		101	70-130			
1,2-Dichloroethane	0.0494	0.0050	mg/kg wet	0.05000		99	70-130			
1,2-Dichloropropane	0.0456	0.0050	mg/kg wet	0.05000		91	70-130			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503415

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch CC52627 - 5035										
1,3,5-Trimethylbenzene	0.0518	0.0050	mg/kg wet	0.05000		104	70-130			
1,3-Dichlorobenzene	0.0502	0.0050	mg/kg wet	0.05000		100	70-130			
1,3-Dichloropropane	0.0535	0.0050	mg/kg wet	0.05000		107	70-130			
1,4-Dichlorobenzene	0.0512	0.0050	mg/kg wet	0.05000		102	70-130			
1,4-Dioxane	0.890	0.100	mg/kg wet	1.000		89	70-130			
2,2-Dichloropropane	0.0549	0.0050	mg/kg wet	0.05000		110	70-130			
2-Butanone	0.239	0.0100	mg/kg wet	0.2500		95	70-130			
2-Chlorotoluene	0.0501	0.0050	mg/kg wet	0.05000		100	70-130			
2-Hexanone	0.279	0.0100	mg/kg wet	0.2500		112	70-130			
4-Chlorotoluene	0.0505	0.0050	mg/kg wet	0.05000		101	70-130			
4-Isopropyltoluene	0.0502	0.0050	mg/kg wet	0.05000		100	70-130			
4-Methyl-2-Pentanone	0.246	0.0100	mg/kg wet	0.2500		98	70-130			
Acetone	0.277	0.0100	mg/kg wet	0.2500		111	70-130			
Benzene	0.0473	0.0050	mg/kg wet	0.05000		95	70-130			
Bromobenzene	0.0515	0.0050	mg/kg wet	0.05000		103	70-130			
Bromochloromethane	0.0493	0.0050	mg/kg wet	0.05000		99	70-130			
Bromodichloromethane	0.0522	0.0050	mg/kg wet	0.05000		104	70-130			
Bromoform	0.0548	0.0050	mg/kg wet	0.05000		110	70-130			
Bromomethane	0.0927	0.0100	mg/kg wet	0.05000		185	70-130			B+
Carbon Disulfide	0.0510	0.0050	mg/kg wet	0.05000		102	70-130			
Carbon Tetrachloride	0.0572	0.0050	mg/kg wet	0.05000		114	70-130			
Chlorobenzene	0.0505	0.0050	mg/kg wet	0.05000		101	70-130			
Chloroethane	0.0441	0.0100	mg/kg wet	0.05000		88	70-130			
Chloroform	0.0502	0.0050	mg/kg wet	0.05000		100	70-130			
Chloromethane	0.0556	0.0100	mg/kg wet	0.05000		111	70-130			
cis-1,2-Dichloroethene	0.0483	0.0050	mg/kg wet	0.05000		97	70-130			
cis-1,3-Dichloropropene	0.0553	0.0050	mg/kg wet	0.05000		111	70-130			
Dibromochloromethane	0.0535	0.0020	mg/kg wet	0.05000		107	70-130			
Dibromomethane	0.0492	0.0050	mg/kg wet	0.05000		98	70-130			
Dichlorodifluoromethane	0.0525	0.0100	mg/kg wet	0.05000		105	70-130			
Diethyl Ether	0.0481	0.0050	mg/kg wet	0.05000		96	70-130			
Di-isopropyl ether	0.0461	0.0050	mg/kg wet	0.05000		92	70-130			
Ethyl tertiary-butyl ether	0.0441	0.0050	mg/kg wet	0.05000		88	70-130			
Ethylbenzene	0.0505	0.0050	mg/kg wet	0.05000		101	70-130			
Hexachlorobutadiene	0.0592	0.0050	mg/kg wet	0.05000		118	70-130			
Isopropylbenzene	0.0501	0.0050	mg/kg wet	0.05000		100	70-130			
Methyl tert-Butyl Ether	0.0480	0.0050	mg/kg wet	0.05000		96	70-130			
Methylene Chloride	0.0470	0.0100	mg/kg wet	0.05000		94	70-130			
Naphthalene	0.0460	0.0050	mg/kg wet	0.05000		92	70-130			
n-Butylbenzene	0.0503	0.0050	mg/kg wet	0.05000		101	70-130			
n-Propylbenzene	0.0491	0.0050	mg/kg wet	0.05000		98	70-130			
sec-Butylbenzene	0.0500	0.0050	mg/kg wet	0.05000		100	70-130			
Styrene	0.0520	0.0050	mg/kg wet	0.05000		104	70-130			
tert-Butylbenzene	0.0503	0.0050	mg/kg wet	0.05000		101	70-130			
Tertiary-amyl methyl ether	0.0465	0.0050	mg/kg wet	0.05000		93	70-130			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503415

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch CC52627 - 5035										
Tetrachloroethene	0.0524	0.0050	mg/kg wet	0.05000		105	70-130			
Tetrahydrofuran	0.0429	0.0050	mg/kg wet	0.05000		86	70-130			
Toluene	0.0474	0.0050	mg/kg wet	0.05000		95	70-130			
trans-1,2-Dichloroethene	0.0439	0.0050	mg/kg wet	0.05000		88	70-130			
trans-1,3-Dichloropropene	0.0548	0.0050	mg/kg wet	0.05000		110	70-130			
Trichloroethene	0.0486	0.0050	mg/kg wet	0.05000		97	70-130			
Trichlorofluoromethane	0.0468	0.0050	mg/kg wet	0.05000		94	70-130			
Vinyl Chloride	0.0512	0.0100	mg/kg wet	0.05000		102	70-130			
Xylene O	0.0505	0.0050	mg/kg wet	0.05000		101	70-130			
Xylene P,M	0.102	0.0100	mg/kg wet	0.1000		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0475*		mg/kg wet	*0.05000*		*95*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.0472*		mg/kg wet	*0.05000*		*94*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0458*		mg/kg wet	*0.05000*		*92*	*70-130*			
Surrogate: Toluene-d8	*0.0481*		mg/kg wet	*0.05000*		*96*	*70-130*			
LCS Dup										
1,1,1,2-Tetrachloroethane	0.0522	0.0050	mg/kg wet	0.05000		104	70-130	8	25	
1,1,1-Trichloroethane	0.0485	0.0050	mg/kg wet	0.05000		97	70-130	10	25	
1,1,2,2-Tetrachloroethane	0.0449	0.0020	mg/kg wet	0.05000		90	70-130	10	25	
1,1,2-Trichloroethane	0.0436	0.0050	mg/kg wet	0.05000		87	70-130	9	25	
1,1-Dichloroethane	0.0423	0.0050	mg/kg wet	0.05000		85	70-130	11	25	
1,1-Dichloroethene	0.0412	0.0050	mg/kg wet	0.05000		82	70-130	11	25	
1,1-Dichloropropene	0.0414	0.0050	mg/kg wet	0.05000		83	70-130	10	25	
1,2,3-Trichlorobenzene	0.0479	0.0050	mg/kg wet	0.05000		96	70-130	11	25	
1,2,3-Trichloropropane	0.0478	0.0050	mg/kg wet	0.05000		96	70-130	12	25	
1,2,4-Trichlorobenzene	0.0468	0.0050	mg/kg wet	0.05000		94	70-130	10	25	
1,2,4-Trimethylbenzene	0.0443	0.0050	mg/kg wet	0.05000		89	70-130	11	25	
1,2-Dibromo-3-Chloropropane	0.0473	0.0050	mg/kg wet	0.05000		95	70-130	14	25	
1,2-Dibromoethane	0.0485	0.0050	mg/kg wet	0.05000		97	70-130	9	25	
1,2-Dichlorobenzene	0.0447	0.0050	mg/kg wet	0.05000		89	70-130	12	25	
1,2-Dichloroethane	0.0451	0.0050	mg/kg wet	0.05000		90	70-130	9	25	
1,2-Dichloropropane	0.0411	0.0050	mg/kg wet	0.05000		82	70-130	11	25	
1,3,5-Trimethylbenzene	0.0463	0.0050	mg/kg wet	0.05000		93	70-130	11	25	
1,3-Dichlorobenzene	0.0449	0.0050	mg/kg wet	0.05000		90	70-130	11	25	
1,3-Dichloropropane	0.0495	0.0050	mg/kg wet	0.05000		99	70-130	8	25	
1,4-Dichlorobenzene	0.0452	0.0050	mg/kg wet	0.05000		90	70-130	12	25	
1,4-Dioxane	0.856	0.100	mg/kg wet	1.000		86	70-130	4	20	
2,2-Dichloropropane	0.0489	0.0050	mg/kg wet	0.05000		98	70-130	11	25	
2-Butanone	0.218	0.0100	mg/kg wet	0.2500		87	70-130	9	25	
2-Chlorotoluene	0.0449	0.0050	mg/kg wet	0.05000		90	70-130	11	25	
2-Hexanone	0.254	0.0100	mg/kg wet	0.2500		101	70-130	10	25	
4-Chlorotoluene	0.0452	0.0050	mg/kg wet	0.05000		90	70-130	11	25	
4-Isopropyltoluene	0.0444	0.0050	mg/kg wet	0.05000		89	70-130	12	25	
4-Methyl-2-Pentanone	0.221	0.0100	mg/kg wet	0.2500		88	70-130	11	25	
Acetone	0.250	0.0100	mg/kg wet	0.2500		100	70-130	10	25	
Benzene	0.0426	0.0050	mg/kg wet	0.05000		85	70-130	10	25	

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503415

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch CC52627 - 5035										
Bromobenzene	0.0456	0.0050	mg/kg wet	0.05000		91	70-130	12	25	
Bromochloromethane	0.0451	0.0050	mg/kg wet	0.05000		90	70-130	9	25	
Bromodichloromethane	0.0472	0.0050	mg/kg wet	0.05000		94	70-130	10	25	
Bromoform	0.0498	0.0050	mg/kg wet	0.05000		100	70-130	10	25	
Bromomethane	0.0760	0.0100	mg/kg wet	0.05000		152	70-130	20	25	B+
Carbon Disulfide	0.0460	0.0050	mg/kg wet	0.05000		92	70-130	10	25	
Carbon Tetrachloride	0.0511	0.0050	mg/kg wet	0.05000		102	70-130	11	25	
Chlorobenzene	0.0468	0.0050	mg/kg wet	0.05000		94	70-130	8	25	
Chloroethane	0.0394	0.0100	mg/kg wet	0.05000		79	70-130	11	25	
Chloroform	0.0450	0.0050	mg/kg wet	0.05000		90	70-130	11	25	
Chloromethane	0.0499	0.0100	mg/kg wet	0.05000		100	70-130	11	25	
cis-1,2-Dichloroethene	0.0444	0.0050	mg/kg wet	0.05000		89	70-130	8	25	
cis-1,3-Dichloropropene	0.0498	0.0050	mg/kg wet	0.05000		100	70-130	11	25	
Dibromochloromethane	0.0484	0.0020	mg/kg wet	0.05000		97	70-130	10	25	
Dibromomethane	0.0452	0.0050	mg/kg wet	0.05000		90	70-130	8	25	
Dichlorodifluoromethane	0.0470	0.0100	mg/kg wet	0.05000		94	70-130	11	25	
Diethyl Ether	0.0435	0.0050	mg/kg wet	0.05000		87	70-130	10	25	
Di-isopropyl ether	0.0417	0.0050	mg/kg wet	0.05000		83	70-130	10	25	
Ethyl tertiary-butyl ether	0.0373	0.0050	mg/kg wet	0.05000		75	70-130	17	25	
Ethylbenzene	0.0468	0.0050	mg/kg wet	0.05000		94	70-130	8	25	
Hexachlorobutadiene	0.0523	0.0050	mg/kg wet	0.05000		105	70-130	12	25	
Isopropylbenzene	0.0449	0.0050	mg/kg wet	0.05000		90	70-130	11	25	
Methyl tert-Butyl Ether	0.0416	0.0050	mg/kg wet	0.05000		83	70-130	14	25	
Methylene Chloride	0.0408	0.0100	mg/kg wet	0.05000		82	70-130	14	25	
Naphthalene	0.0419	0.0050	mg/kg wet	0.05000		84	70-130	9	25	
n-Butylbenzene	0.0453	0.0050	mg/kg wet	0.05000		91	70-130	11	25	
n-Propylbenzene	0.0439	0.0050	mg/kg wet	0.05000		88	70-130	11	25	
sec-Butylbenzene	0.0447	0.0050	mg/kg wet	0.05000		89	70-130	11	25	
Styrene	0.0472	0.0050	mg/kg wet	0.05000		94	70-130	10	25	
tert-Butylbenzene	0.0451	0.0050	mg/kg wet	0.05000		90	70-130	11	25	
Tertiary-amyl methyl ether	0.0396	0.0050	mg/kg wet	0.05000		79	70-130	16	25	
Tetrachloroethene	0.0481	0.0050	mg/kg wet	0.05000		96	70-130	8	25	
Tetrahydrofuran	0.0412	0.0050	mg/kg wet	0.05000		82	70-130	4	25	
Toluene	0.0426	0.0050	mg/kg wet	0.05000		85	70-130	11	25	
trans-1,2-Dichloroethene	0.0398	0.0050	mg/kg wet	0.05000		80	70-130	10	25	
trans-1,3-Dichloropropene	0.0491	0.0050	mg/kg wet	0.05000		98	70-130	11	25	
Trichloroethene	0.0438	0.0050	mg/kg wet	0.05000		88	70-130	10	25	
Trichlorofluoromethane	0.0416	0.0050	mg/kg wet	0.05000		83	70-130	12	25	
Vinyl Chloride	0.0449	0.0100	mg/kg wet	0.05000		90	70-130	13	25	
Xylene O	0.0465	0.0050	mg/kg wet	0.05000		93	70-130	8	25	
Xylene P,M	0.0939	0.0100	mg/kg wet	0.1000		94	70-130	8	25	
Surrogate: 1,2-Dichloroethane-d4	*0.0476*		mg/kg wet	*0.05000*		*95*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.0484*		mg/kg wet	*0.05000*		*97*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0455*		mg/kg wet	*0.05000*		*91*	*70-130*			
Surrogate: Toluene-d8	*0.0493*		mg/kg wet	*0.05000*		*99*	*70-130*			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503415

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier

5035/8260B Volatile Organic Compounds / Methanol

Batch CC52745 - 5035

Blank

1,1,1,2-Tetrachloroethane	ND	0.100	mg/kg wet
1,1,1-Trichloroethane	ND	0.0500	mg/kg wet
1,1,2,2-Tetrachloroethane	ND	0.0500	mg/kg wet
1,1,2-Trichloroethane	ND	0.0500	mg/kg wet
1,1-Dichloroethane	ND	0.0500	mg/kg wet
1,1-Dichloroethene	ND	0.0500	mg/kg wet
1,1-Dichloropropene	ND	0.0500	mg/kg wet
1,2,3-Trichlorobenzene	ND	0.0500	mg/kg wet
1,2,3-Trichloropropane	ND	0.0500	mg/kg wet
1,2,4-Trichlorobenzene	ND	0.0500	mg/kg wet
1,2,4-Trimethylbenzene	ND	0.0500	mg/kg wet
1,2-Dibromo-3-Chloropropane	ND	0.200	mg/kg wet
1,2-Dibromoethane	ND	0.0500	mg/kg wet
1,2-Dichlorobenzene	ND	0.0500	mg/kg wet
1,2-Dichloroethane	ND	0.0500	mg/kg wet
1,2-Dichloropropane	ND	0.0500	mg/kg wet
1,3,5-Trimethylbenzene	ND	0.0500	mg/kg wet
1,3-Dichlorobenzene	ND	0.0500	mg/kg wet
1,3-Dichloropropane	ND	0.0500	mg/kg wet
1,4-Dichlorobenzene	ND	0.0500	mg/kg wet
1,4-Dioxane - Screen	ND	5.00	mg/kg wet
2,2-Dichloropropane	ND	0.100	mg/kg wet
2-Butanone	ND	0.200	mg/kg wet
2-Chlorotoluene	ND	0.0500	mg/kg wet
2-Hexanone	ND	0.200	mg/kg wet
4-Chlorotoluene	ND	0.0500	mg/kg wet
4-Isopropyltoluene	ND	0.0500	mg/kg wet
4-Methyl-2-Pentanone	ND	0.200	mg/kg wet
Acetone	0.320	0.200	mg/kg wet
Benzene	ND	0.0500	mg/kg wet
Bromobenzene	ND	0.0500	mg/kg wet
Bromochloromethane	ND	0.0500	mg/kg wet
Bromodichloromethane	ND	0.0500	mg/kg wet
Bromoform	ND	0.0500	mg/kg wet
Bromomethane	ND	0.100	mg/kg wet
Carbon Disulfide	ND	0.0500	mg/kg wet
Carbon Tetrachloride	ND	0.0500	mg/kg wet
Chlorobenzene	ND	0.0500	mg/kg wet
Chloroethane	ND	0.100	mg/kg wet
Chloroform	ND	0.0500	mg/kg wet
Chloromethane	ND	0.100	mg/kg wet
cis-1,2-Dichloroethene	ND	0.0500	mg/kg wet
cis-1,3-Dichloropropene	ND	0.0500	mg/kg wet
Dibromochloromethane	ND	0.0500	mg/kg wet

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503415

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Methanol										
Batch CC52745 - 5035										
Dibromomethane	ND	0.0500	mg/kg wet							
Dichlorodifluoromethane	ND	0.0500	mg/kg wet							
Diethyl Ether	ND	0.0500	mg/kg wet							
Di-isopropyl ether	ND	0.0500	mg/kg wet							
Ethyl tertiary-butyl ether	ND	0.0500	mg/kg wet							
Ethylbenzene	ND	0.0500	mg/kg wet							
Hexachlorobutadiene	ND	0.0500	mg/kg wet							
Isopropylbenzene	ND	0.0500	mg/kg wet							
Methyl tert-Butyl Ether	ND	0.0500	mg/kg wet							
Methylene Chloride	ND	0.200	mg/kg wet							
Naphthalene	ND	0.0500	mg/kg wet							
n-Butylbenzene	ND	0.0500	mg/kg wet							
n-Propylbenzene	ND	0.0500	mg/kg wet							
sec-Butylbenzene	ND	0.0500	mg/kg wet							
Styrene	ND	0.0500	mg/kg wet							
tert-Butylbenzene	ND	0.0500	mg/kg wet							
Tertiary-amyl methyl ether	ND	0.0500	mg/kg wet							
Tetrachloroethene	ND	0.0500	mg/kg wet							
Tetrahydrofuran	ND	0.200	mg/kg wet							
Toluene	ND	0.0500	mg/kg wet							
trans-1,2-Dichloroethene	ND	0.0500	mg/kg wet							
trans-1,3-Dichloropropene	ND	0.0500	mg/kg wet							
Trichloroethene	ND	0.0500	mg/kg wet							
Trichlorofluoromethane	ND	0.0500	mg/kg wet							
Vinyl Chloride	ND	0.0500	mg/kg wet							
Xylene O	ND	0.0500	mg/kg wet							
Xylene P,M	ND	0.100	mg/kg wet							
Surrogate: 1,2-Dichloroethane-d4	*2.47*		mg/kg wet	*2.500*		*99*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*2.40*		mg/kg wet	*2.500*		*96*	*70-130*			
Surrogate: Dibromofluoromethane	*2.66*		mg/kg wet	*2.500*		*106*	*70-130*			
Surrogate: Toluene-d8	*2.43*		mg/kg wet	*2.500*		*97*	*70-130*			
LCS										
1,1,1,2-Tetrachloroethane	2.40	0.100	mg/kg wet	2.500		96	70-130			
1,1,1-Trichloroethane	2.59	0.0500	mg/kg wet	2.500		104	70-130			
1,1,2,2-Tetrachloroethane	2.43	0.0500	mg/kg wet	2.500		97	70-130			
1,1,2-Trichloroethane	2.64	0.0500	mg/kg wet	2.500		105	70-130			
1,1-Dichloroethane	2.44	0.0500	mg/kg wet	2.500		98	70-130			
1,1-Dichloroethene	2.46	0.0500	mg/kg wet	2.500		98	70-130			
1,1-Dichloropropene	2.38	0.0500	mg/kg wet	2.500		95	70-130			
1,2,3-Trichlorobenzene	2.78	0.0500	mg/kg wet	2.500		111	70-130			
1,2,3-Trichloropropane	2.54	0.0500	mg/kg wet	2.500		102	70-130			
1,2,4-Trichlorobenzene	2.62	0.0500	mg/kg wet	2.500		105	70-130			
1,2,4-Trimethylbenzene	2.37	0.0500	mg/kg wet	2.500		95	70-130			
1,2-Dibromo-3-Chloropropane	2.39	0.200	mg/kg wet	2.500		96	70-130			
1,2-Dibromoethane	2.49	0.0500	mg/kg wet	2.500		100	70-130			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503415

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Methanol										
Batch CC52745 - 5035										
1,2-Dichlorobenzene	2.44	0.0500	mg/kg wet	2.500		98	70-130			
1,2-Dichloroethane	2.67	0.0500	mg/kg wet	2.500		107	70-130			
1,2-Dichloropropane	2.52	0.0500	mg/kg wet	2.500		101	70-130			
1,3,5-Trimethylbenzene	2.48	0.0500	mg/kg wet	2.500		99	70-130			
1,3-Dichlorobenzene	2.45	0.0500	mg/kg wet	2.500		98	70-130			
1,3-Dichloropropane	2.52	0.0500	mg/kg wet	2.500		101	70-130			
1,4-Dichlorobenzene	2.43	0.0500	mg/kg wet	2.500		97	70-130			
1,4-Dioxane - Screen	55.4	5.00	mg/kg wet	50.00		111	44-241			
2,2-Dichloropropane	2.83	0.100	mg/kg wet	2.500		113	70-130			
2-Butanone	14.4	0.200	mg/kg wet	12.50		115	70-130			
2-Chlorotoluene	2.31	0.0500	mg/kg wet	2.500		93	70-130			
2-Hexanone	12.1	0.200	mg/kg wet	12.50		97	70-130			
4-Chlorotoluene	2.38	0.0500	mg/kg wet	2.500		95	70-130			
4-Isopropyltoluene	2.40	0.0500	mg/kg wet	2.500		96	70-130			
4-Methyl-2-Pentanone	12.1	0.200	mg/kg wet	12.50		96	70-130			
Acetone	17.6	0.200	mg/kg wet	12.50		141	70-130			B+
Benzene	2.56	0.0500	mg/kg wet	2.500		102	70-130			
Bromobenzene	2.49	0.0500	mg/kg wet	2.500		100	70-130			
Bromochloromethane	2.68	0.0500	mg/kg wet	2.500		107	70-130			
Bromodichloromethane	2.56	0.0500	mg/kg wet	2.500		102	70-130			
Bromoform	2.67	0.0500	mg/kg wet	2.500		107	70-130			
Bromomethane	3.02	0.100	mg/kg wet	2.500		121	70-130			
Carbon Disulfide	2.27	0.0500	mg/kg wet	2.500		91	70-130			
Carbon Tetrachloride	2.64	0.0500	mg/kg wet	2.500		106	70-130			
Chlorobenzene	2.44	0.0500	mg/kg wet	2.500		98	70-130			
Chloroethane	2.48	0.100	mg/kg wet	2.500		99	70-130			
Chloroform	2.62	0.0500	mg/kg wet	2.500		105	70-130			
Chloromethane	2.51	0.100	mg/kg wet	2.500		100	70-130			
cis-1,2-Dichloroethene	2.59	0.0500	mg/kg wet	2.500		104	70-130			
cis-1,3-Dichloropropene	2.88	0.0500	mg/kg wet	2.500		115	70-130			
Dibromochloromethane	2.52	0.0500	mg/kg wet	2.500		101	70-130			
Dibromomethane	2.63	0.0500	mg/kg wet	2.500		105	70-130			
Dichlorodifluoromethane	2.81	0.0500	mg/kg wet	2.500		113	70-130			
Diethyl Ether	2.56	0.0500	mg/kg wet	2.500		103	70-130			
Di-isopropyl ether	2.36	0.0500	mg/kg wet	2.500		94	70-130			
Ethyl tertiary-butyl ether	2.40	0.0500	mg/kg wet	2.500		96	70-130			
Ethylbenzene	2.35	0.0500	mg/kg wet	2.500		94	70-130			
Hexachlorobutadiene	2.72	0.0500	mg/kg wet	2.500		109	70-130			
Isopropylbenzene	2.40	0.0500	mg/kg wet	2.500		96	70-130			
Methyl tert-Butyl Ether	2.50	0.0500	mg/kg wet	2.500		100	70-130			
Methylene Chloride	2.55	0.200	mg/kg wet	2.500		102	70-130			
Naphthalene	2.92	0.0500	mg/kg wet	2.500		117	70-130			
n-Butylbenzene	2.43	0.0500	mg/kg wet	2.500		97	70-130			
n-Propylbenzene	2.35	0.0500	mg/kg wet	2.500		94	70-130			
sec-Butylbenzene	2.41	0.0500	mg/kg wet	2.500		96	70-130			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503415

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Methanol										
Batch CC52745 - 5035										
Styrene	2.46	0.0500	mg/kg wet	2.500		98	70-130			
tert-Butylbenzene	2.41	0.0500	mg/kg wet	2.500		96	70-130			
Tertiary-amyl methyl ether	2.51	0.0500	mg/kg wet	2.500		100	70-130			
Tetrachloroethene	2.60	0.0500	mg/kg wet	2.500		104	70-130			
Tetrahydrofuran	2.47	0.200	mg/kg wet	2.500		99	70-130			
Toluene	2.63	0.0500	mg/kg wet	2.500		105	70-130			
trans-1,2-Dichloroethene	2.35	0.0500	mg/kg wet	2.500		94	70-130			
trans-1,3-Dichloropropene	2.73	0.0500	mg/kg wet	2.500		109	70-130			
Trichloroethene	2.74	0.0500	mg/kg wet	2.500		110	70-130			
Trichlorofluoromethane	2.31	0.0500	mg/kg wet	2.500		92	70-130			
Vinyl Chloride	2.79	0.0500	mg/kg wet	2.500		112	70-130			
Xylene O	2.45	0.0500	mg/kg wet	2.500		98	70-130			
Xylene P,M	4.84	0.100	mg/kg wet	5.000		97	70-130			
Surrogate: 1,2-Dichloroethane-d4	*1.92*		mg/kg wet	*2.500*		*77*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*1.82*		mg/kg wet	*2.500*		*73*	*70-130*			
Surrogate: Dibromofluoromethane	*1.94*		mg/kg wet	*2.500*		*77*	*70-130*			
Surrogate: Toluene-d8	*1.81*		mg/kg wet	*2.500*		*72*	*70-130*			
LCS Dup										
1,1,1,2-Tetrachloroethane	2.39	0.100	mg/kg wet	2.500		95	70-130	0.8	25	
1,1,1-Trichloroethane	2.61	0.0500	mg/kg wet	2.500		104	70-130	0.8	25	
1,1,2,2-Tetrachloroethane	2.41	0.0500	mg/kg wet	2.500		96	70-130	0.9	25	
1,1,2-Trichloroethane	2.77	0.0500	mg/kg wet	2.500		111	70-130	5	25	
1,1-Dichloroethane	2.54	0.0500	mg/kg wet	2.500		102	70-130	4	25	
1,1-Dichloroethene	2.50	0.0500	mg/kg wet	2.500		100	70-130	2	25	
1,1-Dichloropropene	2.31	0.0500	mg/kg wet	2.500		92	70-130	3	25	
1,2,3-Trichlorobenzene	2.84	0.0500	mg/kg wet	2.500		113	70-130	2	25	
1,2,3-Trichloropropane	2.43	0.0500	mg/kg wet	2.500		97	70-130	5	25	
1,2,4-Trichlorobenzene	2.62	0.0500	mg/kg wet	2.500		105	70-130	0.3	25	
1,2,4-Trimethylbenzene	2.35	0.0500	mg/kg wet	2.500		94	70-130	0.9	25	
1,2-Dibromo-3-Chloropropane	2.32	0.200	mg/kg wet	2.500		93	70-130	3	25	
1,2-Dibromoethane	2.52	0.0500	mg/kg wet	2.500		101	70-130	1	25	
1,2-Dichlorobenzene	2.38	0.0500	mg/kg wet	2.500		95	70-130	3	25	
1,2-Dichloroethane	2.58	0.0500	mg/kg wet	2.500		103	70-130	3	25	
1,2-Dichloropropane	2.71	0.0500	mg/kg wet	2.500		108	70-130	7	25	
1,3,5-Trimethylbenzene	2.40	0.0500	mg/kg wet	2.500		96	70-130	3	25	
1,3-Dichlorobenzene	2.38	0.0500	mg/kg wet	2.500		95	70-130	3	25	
1,3-Dichloropropane	2.52	0.0500	mg/kg wet	2.500		101	70-130	0.1	25	
1,4-Dichlorobenzene	2.40	0.0500	mg/kg wet	2.500		96	70-130	1	25	
1,4-Dioxane - Screen	62.1	5.00	mg/kg wet	50.00		124	44-241	11	200	
2,2-Dichloropropane	2.85	0.100	mg/kg wet	2.500		114	70-130	0.9	25	
2-Butanone	14.5	0.200	mg/kg wet	12.50		116	70-130	0.8	25	
2-Chlorotoluene	2.26	0.0500	mg/kg wet	2.500		91	70-130	2	25	
2-Hexanone	12.1	0.200	mg/kg wet	12.50		97	70-130	0.02	25	
4-Chlorotoluene	2.37	0.0500	mg/kg wet	2.500		95	70-130	0.3	25	
4-Isopropyltoluene	2.35	0.0500	mg/kg wet	2.500		94	70-130	2	25	

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503415

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Methanol										
Batch CC52745 - 5035										
4-Methyl-2-Pentanone	13.0	0.200	mg/kg wet	12.50		104	70-130	8	25	
Acetone	17.5	0.200	mg/kg wet	12.50		140	70-130	0.7	25	B+
Benzene	2.39	0.0500	mg/kg wet	2.500		96	70-130	7	25	
Bromobenzene	2.42	0.0500	mg/kg wet	2.500		97	70-130	3	25	
Bromochloromethane	2.78	0.0500	mg/kg wet	2.500		111	70-130	4	25	
Bromodichloromethane	2.69	0.0500	mg/kg wet	2.500		107	70-130	5	25	
Bromoform	2.70	0.0500	mg/kg wet	2.500		108	70-130	1	25	
Bromomethane	3.14	0.100	mg/kg wet	2.500		125	70-130	4	25	
Carbon Disulfide	2.32	0.0500	mg/kg wet	2.500		93	70-130	2	25	
Carbon Tetrachloride	2.62	0.0500	mg/kg wet	2.500		105	70-130	0.5	25	
Chlorobenzene	2.44	0.0500	mg/kg wet	2.500		98	70-130	0.2	25	
Chloroethane	2.53	0.100	mg/kg wet	2.500		101	70-130	2	25	
Chloroform	2.71	0.0500	mg/kg wet	2.500		109	70-130	4	25	
Chloromethane	2.54	0.100	mg/kg wet	2.500		101	70-130	1	25	
cis-1,2-Dichloroethene	2.67	0.0500	mg/kg wet	2.500		107	70-130	3	25	
cis-1,3-Dichloropropene	3.00	0.0500	mg/kg wet	2.500		120	70-130	4	25	
Dibromochloromethane	2.52	0.0500	mg/kg wet	2.500		101	70-130	0.1	25	
Dibromomethane	2.79	0.0500	mg/kg wet	2.500		112	70-130	6	25	
Dichlorodifluoromethane	2.77	0.0500	mg/kg wet	2.500		111	70-130	2	25	
Diethyl Ether	2.68	0.0500	mg/kg wet	2.500		107	70-130	5	25	
Di-isopropyl ether	2.48	0.0500	mg/kg wet	2.500		99	70-130	5	25	
Ethyl tertiary-butyl ether	2.52	0.0500	mg/kg wet	2.500		101	70-130	5	25	
Ethylbenzene	2.36	0.0500	mg/kg wet	2.500		94	70-130	0.3	25	
Hexachlorobutadiene	2.78	0.0500	mg/kg wet	2.500		111	70-130	2	25	
Isopropylbenzene	2.36	0.0500	mg/kg wet	2.500		94	70-130	2	25	
Methyl tert-Butyl Ether	2.67	0.0500	mg/kg wet	2.500		107	70-130	7	25	
Methylene Chloride	2.64	0.200	mg/kg wet	2.500		106	70-130	4	25	
Naphthalene	3.12	0.0500	mg/kg wet	2.500		125	70-130	6	25	
n-Butylbenzene	2.38	0.0500	mg/kg wet	2.500		95	70-130	2	25	
n-Propylbenzene	2.30	0.0500	mg/kg wet	2.500		92	70-130	2	25	
sec-Butylbenzene	2.37	0.0500	mg/kg wet	2.500		95	70-130	2	25	
Styrene	2.47	0.0500	mg/kg wet	2.500		99	70-130	0.5	25	
tert-Butylbenzene	2.37	0.0500	mg/kg wet	2.500		95	70-130	2	25	
Tertiary-amyl methyl ether	2.30	0.0500	mg/kg wet	2.500		92	70-130	9	25	
Tetrachloroethene	2.56	0.0500	mg/kg wet	2.500		103	70-130	1	25	
Tetrahydrofuran	2.68	0.200	mg/kg wet	2.500		107	70-130	8	25	
Toluene	2.74	0.0500	mg/kg wet	2.500		110	70-130	4	25	
trans-1,2-Dichloroethene	2.41	0.0500	mg/kg wet	2.500		96	70-130	3	25	
trans-1,3-Dichloropropene	2.87	0.0500	mg/kg wet	2.500		115	70-130	5	25	
Trichloroethene	2.92	0.0500	mg/kg wet	2.500		117	70-130	6	25	
Trichlorofluoromethane	2.18	0.0500	mg/kg wet	2.500		87	70-130	5	25	
Vinyl Chloride	2.86	0.0500	mg/kg wet	2.500		115	70-130	3	25	
Xylene O	2.44	0.0500	mg/kg wet	2.500		98	70-130	0.7	25	
Xylene P,M	4.87	0.100	mg/kg wet	5.000		97	70-130	0.4	25	
Surrogate: 1,2-Dichloroethane-d4	*1.82*		mg/kg wet	*2.500*		*73*	*70-130*			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503415

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Methanol										
Batch CC52745 - 5035										
Surrogate: 4-Bromofluorobenzene	*1.76*		mg/kg wet	*2.500*		*71*	*70-130*			
Surrogate: Dibromofluoromethane	*1.95*		mg/kg wet	*2.500*		*78*	*70-130*			
Surrogate: Toluene-d8	*1.78*		mg/kg wet	*2.500*		*71*	*70-130*			
8082A Polychlorinated Biphenyls (PCB)										
Batch CC53006 - 3540C										
Blank										
Aroclor 1016	ND	0.0080	mg/kg wet							
Aroclor 1221	ND	0.0080	mg/kg wet							
Aroclor 1232	ND	0.0080	mg/kg wet							
Aroclor 1242	ND	0.0080	mg/kg wet							
Aroclor 1248	ND	0.0080	mg/kg wet							
Aroclor 1254	ND	0.0080	mg/kg wet							
Aroclor 1260	ND	0.0080	mg/kg wet							
Aroclor 1262	ND	0.0080	mg/kg wet							
Aroclor 1268	ND	0.0080	mg/kg wet							
Surrogate: Decachlorobiphenyl	*0.00260*		mg/kg wet	*0.004000*		*65*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.00229*		mg/kg wet	*0.004000*		*57*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.00316*		mg/kg wet	*0.004000*		*79*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.00307*		mg/kg wet	*0.004000*		*77*	*30-150*			
LCS										
Aroclor 1016	0.0844	0.0080	mg/kg wet	0.08000		106	40-140			
Aroclor 1260	0.0702	0.0080	mg/kg wet	0.08000		88	40-140			
Surrogate: Decachlorobiphenyl	*0.00301*		mg/kg wet	*0.004000*		*75*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.00277*		mg/kg wet	*0.004000*		*69*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.00358*		mg/kg wet	*0.004000*		*90*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.00354*		mg/kg wet	*0.004000*		*89*	*30-150*			
LCS Dup										
Aroclor 1016	0.0885	0.0080	mg/kg wet	0.08000		111	40-140	5	30	
Aroclor 1260	0.0761	0.0080	mg/kg wet	0.08000		95	40-140	8	30	
Surrogate: Decachlorobiphenyl	*0.00266*		mg/kg wet	*0.004000*		*67*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.00272*		mg/kg wet	*0.004000*		*68*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.00350*		mg/kg wet	*0.004000*		*88*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.00348*		mg/kg wet	*0.004000*		*87*	*30-150*			
8270D Semi-Volatile Organic Compounds										
Batch CC52608 - 3546										
Blank										
1,2,4-Trichlorobenzene	ND	0.333	mg/kg wet							
1,2-Dichlorobenzene	ND	0.333	mg/kg wet							
1,3-Dichlorobenzene	ND	0.333	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503415

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D Semi-Volatile Organic Compounds										
Batch CC52608 - 3546										
1,4-Dichlorobenzene	ND	0.333	mg/kg wet							
2,4,5-Trichlorophenol	ND	0.333	mg/kg wet							
2,4,6-Trichlorophenol	ND	0.333	mg/kg wet							
2,4-Dichlorophenol	ND	0.333	mg/kg wet							
2,4-Dimethylphenol	ND	0.333	mg/kg wet							
2,4-Dinitrophenol	ND	1.67	mg/kg wet							
2,4-Dinitrotoluene	ND	0.333	mg/kg wet							
2,6-Dinitrotoluene	ND	0.333	mg/kg wet							
2-Chloronaphthalene	ND	0.333	mg/kg wet							
2-Chlorophenol	ND	0.333	mg/kg wet							
2-Methylphenol	ND	0.333	mg/kg wet							
2-Nitrophenol	ND	0.333	mg/kg wet							
3,3´-Dichlorobenzidine	ND	0.667	mg/kg wet							
3+4-Methylphenol	ND	0.667	mg/kg wet							
4-Bromophenyl-phenylether	ND	0.333	mg/kg wet							
4-Chloroaniline	ND	0.667	mg/kg wet							
4-Nitrophenol	ND	1.67	mg/kg wet							
Acetophenone	ND	0.667	mg/kg wet							
Aniline	ND	1.67	mg/kg wet							
Azobenzene	ND	0.333	mg/kg wet							
bis(2-Chloroethoxy)methane	ND	0.333	mg/kg wet							
bis(2-Chloroethyl)ether	ND	0.333	mg/kg wet							
bis(2-chloroisopropyl)Ether	ND	0.333	mg/kg wet							
bis(2-Ethylhexyl)phthalate	ND	0.333	mg/kg wet							
Butylbenzylphthalate	ND	0.333	mg/kg wet							
Dibenzofuran	ND	0.333	mg/kg wet							
Diethylphthalate	ND	0.333	mg/kg wet							
Dimethylphthalate	ND	0.333	mg/kg wet							
Di-n-butylphthalate	ND	0.333	mg/kg wet							
Di-n-octylphthalate	ND	0.333	mg/kg wet							
Hexachlorobutadiene	ND	0.333	mg/kg wet							
Hexachloroethane	ND	0.333	mg/kg wet							
Isophorone	ND	0.333	mg/kg wet							
Nitrobenzene	ND	0.333	mg/kg wet							
N-Nitrosodimethylamine	ND	0.333	mg/kg wet							
Pentachlorophenol	ND	1.67	mg/kg wet							
Phenol	ND	0.333	mg/kg wet							
Surrogate: 1,2-Dichlorobenzene-d4	*2.11*		mg/kg wet	*3.333*		*63*	*30-130*			
Surrogate: 2,4,6-Tribromophenol	*3.49*		mg/kg wet	*5.000*		*70*	*30-130*			
Surrogate: 2-Chlorophenol-d4	*3.16*		mg/kg wet	*5.000*		*63*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*2.09*		mg/kg wet	*3.333*		*63*	*30-130*			
Surrogate: 2-Fluorophenol	*2.97*		mg/kg wet	*5.000*		*59*	*30-130*			
Surrogate: Nitrobenzene-d5	*2.16*		mg/kg wet	*3.333*		*65*	*30-130*			
Surrogate: Phenol-d6	*3.12*		mg/kg wet	*5.000*		*62*	*30-130*			
Surrogate: p-Terphenyl-d14	*2.87*		mg/kg wet	*3.333*		*86*	*30-130*			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503415

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D Semi-Volatile Organic Compounds										
Batch CC52608 - 3546										
LCS										
1,2,4-Trichlorobenzene	1.68	0.333	mg/kg wet	3.333		51	40-140			
1,2-Dichlorobenzene	1.61	0.333	mg/kg wet	3.333		48	40-140			
1,3-Dichlorobenzene	1.64	0.333	mg/kg wet	3.333		49	40-140			
1,4-Dichlorobenzene	1.61	0.333	mg/kg wet	3.333		48	40-140			
2,4,5-Trichlorophenol	2.44	0.333	mg/kg wet	3.333		73	30-130			
2,4,6-Trichlorophenol	2.22	0.333	mg/kg wet	3.333		67	30-130			
2,4-Dichlorophenol	1.96	0.333	mg/kg wet	3.333		59	30-130			
2,4-Dimethylphenol	1.90	0.333	mg/kg wet	3.333		57	30-130			
2,4-Dinitrophenol	2.06	1.67	mg/kg wet	3.333		62	30-130			
2,4-Dinitrotoluene	2.34	0.333	mg/kg wet	3.333		70	40-140			
2,6-Dinitrotoluene	2.22	0.333	mg/kg wet	3.333		67	40-140			
2-Chloronaphthalene	1.68	0.333	mg/kg wet	3.333		50	40-140			
2-Chlorophenol	1.65	0.333	mg/kg wet	3.333		50	30-130			
2-Methylphenol	1.72	0.333	mg/kg wet	3.333		51	30-130			
2-Nitrophenol	1.69	0.333	mg/kg wet	3.333		51	30-130			
3,3´-Dichlorobenzidine	2.04	0.667	mg/kg wet	3.333		61	40-140			
3+4-Methylphenol	4.54	0.667	mg/kg wet	6.667		68	30-130			
4-Bromophenyl-phenylether	2.37	0.333	mg/kg wet	3.333		71	40-140			
4-Chloroaniline	1.52	0.667	mg/kg wet	3.333		46	40-140			
4-Nitrophenol	2.06	1.67	mg/kg wet	3.333		62	30-130			
Acetophenone	1.76	0.667	mg/kg wet	3.333		53	40-140			
Aniline	1.38	1.67	mg/kg wet	3.333		42	40-140			
Azobenzene	2.06	0.333	mg/kg wet	3.333		62	40-140			
bis(2-Chloroethoxy)methane	1.69	0.333	mg/kg wet	3.333		51	40-140			
bis(2-Chloroethyl)ether	1.52	0.333	mg/kg wet	3.333		46	40-140			
bis(2-chloroisopropyl)Ether	1.65	0.333	mg/kg wet	3.333		49	40-140			
bis(2-Ethylhexyl)phthalate	2.40	0.333	mg/kg wet	3.333		72	40-140			
Butylbenzylphthalate	2.35	0.333	mg/kg wet	3.333		70	40-140			
Dibenzofuran	1.99	0.333	mg/kg wet	3.333		60	40-140			
Diethylphthalate	2.46	0.333	mg/kg wet	3.333		74	40-140			
Dimethylphthalate	2.26	0.333	mg/kg wet	3.333		68	40-140			
Di-n-butylphthalate	2.47	0.333	mg/kg wet	3.333		74	40-140			
Di-n-octylphthalate	2.41	0.333	mg/kg wet	3.333		72	40-140			
Hexachlorobutadiene	1.71	0.333	mg/kg wet	3.333		51	40-140			
Hexachloroethane	1.62	0.333	mg/kg wet	3.333		49	40-140			
Isophorone	1.68	0.333	mg/kg wet	3.333		50	40-140			
Nitrobenzene	1.62	0.333	mg/kg wet	3.333		48	40-140			
N-Nitrosodimethylamine	1.22	0.333	mg/kg wet	3.333		37	40-140			B-
Pentachlorophenol	2.36	1.67	mg/kg wet	3.333		71	30-130			
Phenol	1.63	0.333	mg/kg wet	3.333		49	30-130			
Surrogate: 1,2-Dichlorobenzene-d4	*1.73*		mg/kg wet	*3.333*		*52*	*30-130*			
Surrogate: 2,4,6-Tribromophenol	*4.00*		mg/kg wet	*5.000*		*80*	*30-130*			
Surrogate: 2-Chlorophenol-d4	*2.68*		mg/kg wet	*5.000*		*54*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*1.87*		mg/kg wet	*3.333*		*56*	*30-130*			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503415

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D Semi-Volatile Organic Compounds										
Batch CC52608 - 3546										
Surrogate: 2-Fluorophenol	*2.45*		mg/kg wet	*5.000*		*49*	*30-130*			
Surrogate: Nitrobenzene-d5	*1.77*		mg/kg wet	*3.333*		*53*	*30-130*			
Surrogate: Phenol-d6	*2.63*		mg/kg wet	*5.000*		*53*	*30-130*			
Surrogate: p-Terphenyl-d14	*2.66*		mg/kg wet	*3.333*		*80*	*30-130*			
LCS Dup										
1,2,4-Trichlorobenzene	1.79	0.333	mg/kg wet	3.333		54	40-140	6	30	
1,2-Dichlorobenzene	1.71	0.333	mg/kg wet	3.333		51	40-140	6	30	
1,3-Dichlorobenzene	1.74	0.333	mg/kg wet	3.333		52	40-140	6	30	
1,4-Dichlorobenzene	1.71	0.333	mg/kg wet	3.333		51	40-140	6	30	
2,4,5-Trichlorophenol	2.56	0.333	mg/kg wet	3.333		77	30-130	5	30	
2,4,6-Trichlorophenol	2.28	0.333	mg/kg wet	3.333		68	30-130	2	30	
2,4-Dichlorophenol	2.01	0.333	mg/kg wet	3.333		60	30-130	3	30	
2,4-Dimethylphenol	1.95	0.333	mg/kg wet	3.333		58	30-130	3	30	
2,4-Dinitrophenol	2.23	1.67	mg/kg wet	3.333		67	30-130	8	30	
2,4-Dinitrotoluene	2.46	0.333	mg/kg wet	3.333		74	40-140	5	30	
2,6-Dinitrotoluene	2.31	0.333	mg/kg wet	3.333		69	40-140	4	30	
2-Chloronaphthalene	1.70	0.333	mg/kg wet	3.333		51	40-140	0.9	30	
2-Chlorophenol	1.75	0.333	mg/kg wet	3.333		52	30-130	6	30	
2-Methylphenol	1.78	0.333	mg/kg wet	3.333		53	30-130	4	30	
2-Nitrophenol	1.80	0.333	mg/kg wet	3.333		54	30-130	6	30	
3,3´-Dichlorobenzidine	2.10	0.667	mg/kg wet	3.333		63	40-140	3	30	
3+4-Methylphenol	4.56	0.667	mg/kg wet	6.667		68	30-130	0.5	30	
4-Bromophenyl-phenylether	2.49	0.333	mg/kg wet	3.333		75	40-140	5	30	
4-Chloroaniline	1.60	0.667	mg/kg wet	3.333		48	40-140	5	30	
4-Nitrophenol	2.15	1.67	mg/kg wet	3.333		64	30-130	4	30	
Acetophenone	1.85	0.667	mg/kg wet	3.333		55	40-140	5	30	
Aniline	1.46	1.67	mg/kg wet	3.333		44	40-140	5	30	
Azobenzene	2.15	0.333	mg/kg wet	3.333		65	40-140	4	30	
bis(2-Chloroethoxy)methane	1.75	0.333	mg/kg wet	3.333		53	40-140	4	30	
bis(2-Chloroethyl)ether	1.61	0.333	mg/kg wet	3.333		48	40-140	5	30	
bis(2-chloroisopropyl)Ether	1.74	0.333	mg/kg wet	3.333		52	40-140	6	30	
bis(2-Ethylhexyl)phthalate	2.51	0.333	mg/kg wet	3.333		75	40-140	5	30	
Butylbenzylphthalate	2.48	0.333	mg/kg wet	3.333		74	40-140	5	30	
Dibenzofuran	2.08	0.333	mg/kg wet	3.333		62	40-140	4	30	
Diethylphthalate	2.60	0.333	mg/kg wet	3.333		78	40-140	5	30	
Dimethylphthalate	2.37	0.333	mg/kg wet	3.333		71	40-140	5	30	
Di-n-butylphthalate	2.55	0.333	mg/kg wet	3.333		77	40-140	3	30	
Di-n-octylphthalate	2.52	0.333	mg/kg wet	3.333		76	40-140	4	30	
Hexachlorobutadiene	1.80	0.333	mg/kg wet	3.333		54	40-140	5	30	
Hexachloroethane	1.73	0.333	mg/kg wet	3.333		52	40-140	7	30	
Isophorone	1.73	0.333	mg/kg wet	3.333		52	40-140	3	30	
Nitrobenzene	1.70	0.333	mg/kg wet	3.333		51	40-140	5	30	
N-Nitrosodimethylamine	1.24	0.333	mg/kg wet	3.333		37	40-140	2	30	B-
Pentachlorophenol	2.55	1.67	mg/kg wet	3.333		77	30-130	8	30	

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503415

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D Semi-Volatile Organic Compounds										
Batch CC52608 - 3546										
Phenol	2.01	0.333	mg/kg wet	3.333		60	30-130	21	30	
Surrogate: 1,2-Dichlorobenzene-d4	*1.82*		mg/kg wet	*3.333*		*55*	*30-130*			
Surrogate: 2,4,6-Tribromophenol	*4.17*		mg/kg wet	*5.000*		*83*	*30-130*			
Surrogate: 2-Chlorophenol-d4	*2.77*		mg/kg wet	*5.000*		*55*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*1.88*		mg/kg wet	*3.333*		*56*	*30-130*			
Surrogate: 2-Fluorophenol	*2.56*		mg/kg wet	*5.000*		*51*	*30-130*			
Surrogate: Nitrobenzene-d5	*1.87*		mg/kg wet	*3.333*		*56*	*30-130*			
Surrogate: Phenol-d6	*2.71*		mg/kg wet	*5.000*		*54*	*30-130*			
Surrogate: p-Terphenyl-d14	*2.79*		mg/kg wet	*3.333*		*84*	*30-130*			
8270D(SIM) Polynuclear Aromatic Hydrocarbons										
Batch CC52609 - 3546										
Blank										
2-Methylnaphthalene	ND	0.017	mg/kg wet							
Acenaphthene	ND	0.017	mg/kg wet							
Acenaphthylene	ND	0.017	mg/kg wet							
Anthracene	ND	0.017	mg/kg wet							
Benzo(a)anthracene	ND	0.017	mg/kg wet							
Benzo(a)pyrene	ND	0.017	mg/kg wet							
Benzo(b)fluoranthene	ND	0.017	mg/kg wet							
Benzo(g,h,i)perylene	ND	0.017	mg/kg wet							
Benzo(k)fluoranthene	ND	0.017	mg/kg wet							
Chrysene	ND	0.017	mg/kg wet							
Dibenzo(a,h)Anthracene	ND	0.017	mg/kg wet							
Fluoranthene	ND	0.017	mg/kg wet							
Fluorene	ND	0.017	mg/kg wet							
Hexachlorobenzene	ND	0.017	mg/kg wet							
Indeno(1,2,3-cd)Pyrene	ND	0.017	mg/kg wet							
Naphthalene	ND	0.017	mg/kg wet							
Phenanthrene	ND	0.017	mg/kg wet							
Pyrene	ND	0.017	mg/kg wet							
Surrogate: 1,2-Dichlorobenzene-d4	*0.186*		mg/kg wet	*0.3333*		*56*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*0.206*		mg/kg wet	*0.3333*		*62*	*30-130*			
Surrogate: Nitrobenzene-d5	*0.172*		mg/kg wet	*0.3333*		*52*	*30-130*			
Surrogate: p-Terphenyl-d14	*0.243*		mg/kg wet	*0.3333*		*73*	*30-130*			
LCS										
2-Methylnaphthalene	0.144	0.017	mg/kg wet	0.2667		54	40-140			
Acenaphthene	0.178	0.017	mg/kg wet	0.2667		67	40-140			
Acenaphthylene	0.176	0.017	mg/kg wet	0.2667		66	40-140			
Anthracene	0.184	0.017	mg/kg wet	0.2667		69	40-140			
Benzo(a)anthracene	0.176	0.017	mg/kg wet	0.2667		66	40-140			
Benzo(a)pyrene	0.192	0.017	mg/kg wet	0.2667		72	40-140			
Benzo(b)fluoranthene	0.183	0.017	mg/kg wet	0.2667		68	40-140			
Benzo(g,h,i)perylene	0.192	0.017	mg/kg wet	0.2667		72	40-140			
Benzo(k)fluoranthene	0.196	0.017	mg/kg wet	0.2667		74	40-140			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503415

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D(SIM) Polynuclear Aromatic Hydrocarbons										
Batch CC52609 - 3546										
Chrysene	0.200	0.017	mg/kg wet	0.2667		75	40-140			
Dibenzo(a,h)Anthracene	0.182	0.017	mg/kg wet	0.2667		68	40-140			
Fluoranthene	0.191	0.017	mg/kg wet	0.2667		72	40-140			
Fluorene	0.184	0.017	mg/kg wet	0.2667		69	40-140			
Hexachlorobenzene	0.134	0.017	mg/kg wet	0.2667		50	40-140			
Indeno(1,2,3-cd)Pyrene	0.184	0.017	mg/kg wet	0.2667		69	40-140			
Naphthalene	0.142	0.017	mg/kg wet	0.2667		53	40-140			
Phenanthrene	0.176	0.017	mg/kg wet	0.2667		66	40-140			
Pyrene	0.191	0.017	mg/kg wet	0.2667		72	40-140			
Surrogate: 1,2-Dichlorobenzene-d4	*0.198*		mg/kg wet	*0.3333*		*59*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*0.228*		mg/kg wet	*0.3333*		*68*	*30-130*			
Surrogate: Nitrobenzene-d5	*0.183*		mg/kg wet	*0.3333*		*55*	*30-130*			
Surrogate: p-Terphenyl-d14	*0.258*		mg/kg wet	*0.3333*		*78*	*30-130*			
LCS Dup										
2-Methylnaphthalene	0.141	0.017	mg/kg wet	0.2667		53	40-140	2	30	
Acenaphthene	0.181	0.017	mg/kg wet	0.2667		68	40-140	2	30	
Acenaphthylene	0.177	0.017	mg/kg wet	0.2667		66	40-140	0.5	30	
Anthracene	0.190	0.017	mg/kg wet	0.2667		71	40-140	4	30	
Benzo(a)anthracene	0.175	0.017	mg/kg wet	0.2667		66	40-140	0.3	30	
Benzo(a)pyrene	0.192	0.017	mg/kg wet	0.2667		72	40-140	0.07	30	
Benzo(b)fluoranthene	0.191	0.017	mg/kg wet	0.2667		72	40-140	5	30	
Benzo(g,h,i)perylene	0.194	0.017	mg/kg wet	0.2667		73	40-140	0.9	30	
Benzo(k)fluoranthene	0.195	0.017	mg/kg wet	0.2667		73	40-140	0.6	30	
Chrysene	0.203	0.017	mg/kg wet	0.2667		76	40-140	1	30	
Dibenzo(a,h)Anthracene	0.188	0.017	mg/kg wet	0.2667		70	40-140	3	30	
Fluoranthene	0.198	0.017	mg/kg wet	0.2667		74	40-140	3	30	
Fluorene	0.189	0.017	mg/kg wet	0.2667		71	40-140	3	30	
Hexachlorobenzene	0.169	0.017	mg/kg wet	0.2667		63	40-140	23	30	
Indeno(1,2,3-cd)Pyrene	0.188	0.017	mg/kg wet	0.2667		71	40-140	2	30	
Naphthalene	0.141	0.017	mg/kg wet	0.2667		53	40-140	1	30	
Phenanthrene	0.182	0.017	mg/kg wet	0.2667		68	40-140	3	30	
Pyrene	0.192	0.017	mg/kg wet	0.2667		72	40-140	0.6	30	
Surrogate: 1,2-Dichlorobenzene-d4	*0.198*		mg/kg wet	*0.3333*		*59*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*0.232*		mg/kg wet	*0.3333*		*70*	*30-130*			
Surrogate: Nitrobenzene-d5	*0.183*		mg/kg wet	*0.3333*		*55*	*30-130*			
Surrogate: p-Terphenyl-d14	*0.256*		mg/kg wet	*0.3333*		*77*	*30-130*			
Matrix Spike **Source: 1503415-09**										
2-Methylnaphthalene	0.100	0.017	mg/kg dry	0.2663	ND	38	40-140			M-
Acenaphthene	0.132	0.017	mg/kg dry	0.2663	0.025	40	40-140			
Acenaphthylene	0.155	0.017	mg/kg dry	0.2663	0.024	49	40-140			
Anthracene	0.207	0.017	mg/kg dry	0.2663	0.075	50	40-140			
Benzo(a)anthracene	0.302	0.017	mg/kg dry	0.2663	0.151	56	40-140			
Benzo(a)pyrene	0.319	0.017	mg/kg dry	0.2663	0.161	59	40-140			
Benzo(b)fluoranthene	0.363	0.017	mg/kg dry	0.2663	0.194	63	40-140			
Benzo(g,h,i)perylene	0.280	0.017	mg/kg dry	0.2663	0.111	63	40-140			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503415

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D(SIM) Polynuclear Aromatic Hydrocarbons										
Batch CC52609 - 3546										
Benzo(k)fluoranthene	0.215	0.017	mg/kg dry	0.2663	0.065	56	40-140			
Chrysene	0.306	0.017	mg/kg dry	0.2663	0.160	55	40-140			
Dibenzo(a,h)Anthracene	0.213	0.017	mg/kg dry	0.2663	0.027	70	40-140			
Fluoranthene	0.436	0.017	mg/kg dry	0.2663	0.310	47	40-140			
Fluorene	0.162	0.017	mg/kg dry	0.2663	0.024	52	40-140			
Hexachlorobenzene	0.141	0.017	mg/kg dry	0.2663	ND	53	40-140			
Indeno(1,2,3-cd)Pyrene	0.285	0.017	mg/kg dry	0.2663	0.119	63	40-140			
Naphthalene	0.106	0.017	mg/kg dry	0.2663	0.024	31	40-140			M-
Phenanthrene	0.276	0.017	mg/kg dry	0.2663	0.184	34	40-140			M-
Pyrene	0.424	0.017	mg/kg dry	0.2663	0.294	49	40-140			
Surrogate: 1,2-Dichlorobenzene-d4	*0.118*		mg/kg dry	*0.3329*		*35*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*0.165*		mg/kg dry	*0.3329*		*50*	*30-130*			
Surrogate: Nitrobenzene-d5	*0.149*		mg/kg dry	*0.3329*		*45*	*30-130*			
Surrogate: p-Terphenyl-d14	*0.232*		mg/kg dry	*0.3329*		*70*	*30-130*			
Matrix Spike Dup **Source: 1503415-09**										**D+, M+**
2-Methylnaphthalene	0.105	0.017	mg/kg dry	0.2703	ND	39	40-140	3	30	
Acenaphthene	0.174	0.017	mg/kg dry	0.2703	0.025	55	40-140	32	30	
Acenaphthylene	0.160	0.017	mg/kg dry	0.2703	0.024	50	40-140	2	30	
Anthracene	0.353	0.017	mg/kg dry	0.2703	0.075	103	40-140	70	30	
Benzo(a)anthracene	0.567	0.017	mg/kg dry	0.2703	0.151	154	40-140	93	30	
Benzo(a)pyrene	0.549	0.017	mg/kg dry	0.2703	0.161	143	40-140	83	30	
Benzo(b)fluoranthene	0.606	0.017	mg/kg dry	0.2703	0.194	153	40-140	83	30	
Benzo(g,h,i)perylene	0.465	0.017	mg/kg dry	0.2703	0.111	131	40-140	70	30	
Benzo(k)fluoranthene	0.333	0.017	mg/kg dry	0.2703	0.065	99	40-140	56	30	
Chrysene	0.581	0.017	mg/kg dry	0.2703	0.160	156	40-140	96	30	
Dibenzo(a,h)Anthracene	0.249	0.017	mg/kg dry	0.2703	0.027	82	40-140	16	30	
Fluoranthene	0.983	0.017	mg/kg dry	0.2703	0.310	249	40-140	136	30	
Fluorene	0.222	0.017	mg/kg dry	0.2703	0.024	73	40-140	35	30	
Hexachlorobenzene	0.118	0.017	mg/kg dry	0.2703	ND	44	40-140	19	30	
Indeno(1,2,3-cd)Pyrene	0.460	0.017	mg/kg dry	0.2703	0.119	126	40-140	67	30	
Naphthalene	0.120	0.017	mg/kg dry	0.2703	0.024	36	40-140	14	30	
Phenanthrene	0.668	0.017	mg/kg dry	0.2703	0.184	179	40-140	135	30	
Pyrene	0.909	0.017	mg/kg dry	0.2703	0.294	227	40-140	130	30	
Surrogate: 1,2-Dichlorobenzene-d4	*0.128*		mg/kg dry	*0.3379*		*38*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*0.158*		mg/kg dry	*0.3379*		*47*	*30-130*			
Surrogate: Nitrobenzene-d5	*0.133*		mg/kg dry	*0.3379*		*39*	*30-130*			
Surrogate: p-Terphenyl-d14	*0.224*		mg/kg dry	*0.3379*		*66*	*30-130*			
Classical Chemistry										
Batch CC52616 - General Preparation										
Duplicate **Source: 1503415-15**										
Corrosivity (pH)	8.38		S.U.		8.37			0.1	200	
Batch CC52617 - General Preparation										
Duplicate **Source: 1503415-15**										

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503415

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Classical Chemistry										
Batch CC52617 - General Preparation										
Eh (ORP)	274		mv		275			0.3	20	
Batch CC52618 - General Preparation										
Blank										
Reactive Cyanide	ND	2.0	mg/kg							
Reactive Sulfide	ND	2.0	mg/kg							
LCS										
Reactive Cyanide	3.8	2.0	mg/kg	100.3		4	0.68-5.41			
Reactive Sulfide	0.2	2.0	mg/kg	10.00		2	0-44			
Batch CC52807 - General Preparation										
Blank										
Hexavalent Chromium	ND	0.7	mg/kg wet							
LCS										
Hexavalent Chromium	32.4	0.7	mg/kg wet	33.32		97	80-120			
LCS Dup										
Hexavalent Chromium	32.6	0.7	mg/kg wet	33.32		98	80-120	0.5	20	
Duplicate **Source: 1503415-05**										
Hexavalent Chromium	ND	1.2	mg/kg dry		ND				20	
Matrix Spike **Source: 1503415-05**										
Hexavalent Chromium	55.9	1.2	mg/kg dry	58.90	ND	95	75-125			
Matrix Spike **Source: 1503415-05**										
Hexavalent Chromium	2720	56.4	mg/kg dry	2887	ND	94	75-125			
Reference										
Hexavalent Chromium	99.8	2.0	mg/kg wet	125.0		80	61-139			
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CC52536 - 3546										
Blank										
C19-C36 Aliphatics1	ND	15.0	mg/kg wet							
C9-C18 Aliphatics1	ND	15.0	mg/kg wet							
Decane (C10)	ND	0.5	mg/kg wet							
Docosane (C22)	ND	0.5	mg/kg wet							
Dodecane (C12)	ND	0.5	mg/kg wet							
Eicosane (C20)	ND	0.5	mg/kg wet							
Hexacosane (C26)	ND	0.5	mg/kg wet							
Hexadecane (C16)	ND	0.5	mg/kg wet							
Hexatriacontane (C36)	ND	0.5	mg/kg wet							
Nonadecane (C19)	ND	0.5	mg/kg wet							
Nonane (C9)	ND	0.5	mg/kg wet							
Octacosane (C28)	ND	0.5	mg/kg wet							
Octadecane (C18)	ND	0.5	mg/kg wet							
Tetracosane (C24)	ND	0.5	mg/kg wet							
Tetradecane (C14)	ND	0.5	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503415

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CC52536 - 3546										
Triacontane (C30)	ND	0.5	mg/kg wet							
Surrogate: 1-Chlorooctadecane	*1.20*		mg/kg wet	*2.000*		*60*	*40-140*			
Blank										
2-Methylnaphthalene	ND	0.20	mg/kg wet							
Acenaphthene	ND	0.40	mg/kg wet							
Acenaphthylene	ND	0.20	mg/kg wet							
Anthracene	ND	0.40	mg/kg wet							
Benzo(a)anthracene	ND	0.40	mg/kg wet							
Benzo(a)pyrene	ND	0.40	mg/kg wet							
Benzo(b)fluoranthene	ND	0.40	mg/kg wet							
Benzo(g,h,i)perylene	ND	0.40	mg/kg wet							
Benzo(k)fluoranthene	ND	0.40	mg/kg wet							
C11-C22 Unadjusted Aromatics1	ND	15.0	mg/kg wet							
Chrysene	ND	0.40	mg/kg wet							
Dibenzo(a,h)Anthracene	ND	0.20	mg/kg wet							
Fluoranthene	ND	0.40	mg/kg wet							
Fluorene	ND	0.40	mg/kg wet							
Indeno(1,2,3-cd)Pyrene	ND	0.40	mg/kg wet							
Naphthalene	ND	0.40	mg/kg wet							
Phenanthrene	ND	0.40	mg/kg wet							
Pyrene	ND	0.40	mg/kg wet							
Surrogate: 2-Bromonaphthalene	*1.94*		mg/kg wet	*2.000*		*97*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*1.80*		mg/kg wet	*2.000*		*90*	*40-140*			
Surrogate: O-Terphenyl	*1.44*		mg/kg wet	*2.000*		*72*	*40-140*			
LCS										
C19-C36 Aliphatics1	14.5	15.0	mg/kg wet	16.00		91	40-140			
C9-C18 Aliphatics1	8.4	15.0	mg/kg wet	12.00		70	40-140			
Decane (C10)	1.0	0.5	mg/kg wet	2.000		50	40-140			
Docosane (C22)	1.6	0.5	mg/kg wet	2.000		82	40-140			
Dodecane (C12)	1.0	0.5	mg/kg wet	2.000		51	40-140			
Eicosane (C20)	1.6	0.5	mg/kg wet	2.000		80	40-140			
Hexacosane (C26)	1.7	0.5	mg/kg wet	2.000		84	40-140			
Hexadecane (C16)	1.5	0.5	mg/kg wet	2.000		73	40-140			
Hexatriacontane (C36)	1.7	0.5	mg/kg wet	2.000		85	40-140			
Nonadecane (C19)	1.6	0.5	mg/kg wet	2.000		81	40-140			
Nonane (C9)	0.8	0.5	mg/kg wet	2.000		39	30-140			
Octacosane (C28)	1.6	0.5	mg/kg wet	2.000		82	40-140			
Octadecane (C18)	1.6	0.5	mg/kg wet	2.000		78	40-140			
Tetracosane (C24)	1.6	0.5	mg/kg wet	2.000		79	40-140			
Tetradecane (C14)	1.3	0.5	mg/kg wet	2.000		63	40-140			
Triacontane (C30)	1.6	0.5	mg/kg wet	2.000		81	40-140			
Surrogate: 1-Chlorooctadecane	*1.23*		mg/kg wet	*2.000*		*61*	*40-140*			
LCS										

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503415

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CC52536 - 3546										
2-Methylnaphthalene	1.37	0.20	mg/kg wet	2.000		68	40-140			
Acenaphthene	1.45	0.40	mg/kg wet	2.000		73	40-140			
Acenaphthylene	1.48	0.20	mg/kg wet	2.000		74	40-140			
Anthracene	1.71	0.40	mg/kg wet	2.000		85	40-140			
Benzo(a)anthracene	1.85	0.40	mg/kg wet	2.000		92	40-140			
Benzo(a)pyrene	2.01	0.40	mg/kg wet	2.000		100	40-140			
Benzo(b)fluoranthene	1.87	0.40	mg/kg wet	2.000		93	40-140			
Benzo(g,h,i)perylene	1.89	0.40	mg/kg wet	2.000		94	40-140			
Benzo(k)fluoranthene	1.77	0.40	mg/kg wet	2.000		89	40-140			
C11-C22 Unadjusted Aromatics1	38.3	15.0	mg/kg wet	34.00		113	40-140			
Chrysene	1.87	0.40	mg/kg wet	2.000		93	40-140			
Dibenzo(a,h)Anthracene	1.87	0.20	mg/kg wet	2.000		94	40-140			
Fluoranthene	1.77	0.40	mg/kg wet	2.000		89	40-140			
Fluorene	1.54	0.40	mg/kg wet	2.000		77	40-140			
Indeno(1,2,3-cd)Pyrene	1.91	0.40	mg/kg wet	2.000		95	40-140			
Naphthalene	1.27	0.40	mg/kg wet	2.000		64	40-140			
Phenanthrene	1.65	0.40	mg/kg wet	2.000		82	40-140			
Pyrene	1.80	0.40	mg/kg wet	2.000		90	40-140			
Surrogate: 2-Bromonaphthalene	*1.85*		mg/kg wet	*2.000*		*92*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*1.79*		mg/kg wet	*2.000*		*90*	*40-140*			
Surrogate: O-Terphenyl	*1.53*		mg/kg wet	*2.000*		*76*	*40-140*			
LCS										
2-Methylnaphthalene Breakthrough	0.0		%				0-5			
Naphthalene Breakthrough	0.0		%				0-5			
LCS Dup										
C19-C36 Aliphatics1	14.7	15.0	mg/kg wet	16.00		92	40-140	1	25	
C9-C18 Aliphatics1	8.6	15.0	mg/kg wet	12.00		72	40-140	3	25	
Decane (C10)	1.1	0.5	mg/kg wet	2.000		54	40-140	7	25	
Docosane (C22)	1.7	0.5	mg/kg wet	2.000		84	40-140	2	25	
Dodecane (C12)	1.1	0.5	mg/kg wet	2.000		54	40-140	6	25	
Eicosane (C20)	1.6	0.5	mg/kg wet	2.000		82	40-140	3	25	
Hexacosane (C26)	1.7	0.5	mg/kg wet	2.000		86	40-140	3	25	
Hexadecane (C16)	1.5	0.5	mg/kg wet	2.000		75	40-140	3	25	
Hexatriacontane (C36)	1.7	0.5	mg/kg wet	2.000		87	40-140	2	25	
Nonadecane (C19)	1.7	0.5	mg/kg wet	2.000		83	40-140	2	25	
Nonane (C9)	0.8	0.5	mg/kg wet	2.000		42	30-140	7	25	
Octacosane (C28)	1.7	0.5	mg/kg wet	2.000		84	40-140	2	25	
Octadecane (C18)	1.6	0.5	mg/kg wet	2.000		80	40-140	3	25	
Tetracosane (C24)	1.6	0.5	mg/kg wet	2.000		80	40-140	2	25	
Tetradecane (C14)	1.3	0.5	mg/kg wet	2.000		65	40-140	4	25	
Triacontane (C30)	1.7	0.5	mg/kg wet	2.000		83	40-140	2	25	
Surrogate: 1-Chlorooctadecane	*1.29*		mg/kg wet	*2.000*		*65*	*40-140*			
LCS Dup										

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503415

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CC52536 - 3546										
2-Methylnaphthalene	1.41	0.20	mg/kg wet	2.000		70	40-140	3	20	
Acenaphthene	1.48	0.40	mg/kg wet	2.000		74	40-140	2	20	
Acenaphthylene	1.53	0.20	mg/kg wet	2.000		76	40-140	3	20	
Anthracene	1.70	0.40	mg/kg wet	2.000		85	40-140	0.5	20	
Benzo(a)anthracene	1.88	0.40	mg/kg wet	2.000		94	40-140	2	20	
Benzo(a)pyrene	2.09	0.40	mg/kg wet	2.000		105	40-140	4	20	
Benzo(b)fluoranthene	1.89	0.40	mg/kg wet	2.000		95	40-140	2	20	
Benzo(g,h,i)perylene	1.89	0.40	mg/kg wet	2.000		94	40-140	0	20	
Benzo(k)fluoranthene	1.84	0.40	mg/kg wet	2.000		92	40-140	4	20	
C11-C22 Unadjusted Aromatics1	31.1	15.0	mg/kg wet	34.00		92	40-140	21	25	
Chrysene	1.80	0.40	mg/kg wet	2.000		90	40-140	4	20	
Dibenzo(a,h)Anthracene	1.88	0.20	mg/kg wet	2.000		94	40-140	0.6	20	
Fluoranthene	1.74	0.40	mg/kg wet	2.000		87	40-140	2	20	
Fluorene	1.57	0.40	mg/kg wet	2.000		79	40-140	2	20	
Indeno(1,2,3-cd)Pyrene	2.06	0.40	mg/kg wet	2.000		103	40-140	8	20	
Naphthalene	1.38	0.40	mg/kg wet	2.000		69	40-140	8	20	
Phenanthrene	1.63	0.40	mg/kg wet	2.000		82	40-140	1	20	
Pyrene	1.76	0.40	mg/kg wet	2.000		88	40-140	3	20	
Surrogate: 2-Bromonaphthalene	*1.87*		mg/kg wet	*2.000*		*94*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*1.84*		mg/kg wet	*2.000*		*92*	*40-140*			
Surrogate: O-Terphenyl	*1.48*		mg/kg wet	*2.000*		*74*	*40-140*			
LCS Dup										
2-Methylnaphthalene Breakthrough	0.0		%				0-5		200	
Naphthalene Breakthrough	0.0		%				0-5		200	

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase ESS Laboratory Work Order: 1503415

Notes and Definitions

M-	Matrix Spike recovery is below lower control limit (M-).
B-	Blank Spike recovery is below lower control limit (B-).
B+	Blank Spike recovery is above upper control limit (B+).
C-	Continuing Calibration recovery is below lower control limit (C-).
C+	Continuing Calibration recovery is above upper control limit (C+).
D	Diluted.
D+	Relative percent difference for duplicate is outside of criteria (D+).
E	Reported above the quantitation limit; Estimated value (E).
EL	Elevated Method Reporting Limits due to sample matrix (EL).
H	Estimated value. Sample hold times were exceeded (H).
B	Present in Method Blank (B).
IC	Internal Standard(s) outside of criteria. Sample was reanalyzed to confirm (IC).
Z-10a	Soil pH measured in water at 16.8 ºC.
M+	Matrix Spike recovery is above upper control limit (M+).
Q	Calibration required quadratic regression (Q).
S-	Surrogate recovery(ies) below lower control limit (S-).
S+	Surrogate recovery(ies) above upper control limit (S+).
SD	Surrogate recovery(ies) diluted below the MRL (SD).
U	Analyte included in the analysis, but not detected
WL	Results obtained from a deionized water leach of the sample.
Z-08	See Attached
Z-10	Soil pH measured in water at 16.4 ºC.
I	Internal Standard(s) outside of criteria (I).
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	Detection Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report
[2C]	Result was taken from the second column. Dual column analysis.

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503415

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Department of Defense (DoD) Environmental Laboratory Accreditation Program (ELAP)
A2LA Accredited: Testing Cert# 2864.01
http://www.a2la.org/scopepdf/2864-01.pdf

Rhode Island Potable and Non Potable Water: LAI00179
http://www.health.ri.gov/find/labs/analytical/ESS.pdf

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750
http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI0002
http://www.maine.gov/dhhs/mecdc/environmental-health/water/dwp-services/labcert/documents/AllLabs.xls

Massachusetts Potable and Non Potable Water: M-RI002
http://public.dep.state.ma.us/Labcert/Labcert.aspx

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424
http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313
http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006
http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

United States Department of Agriculture Soil Permit: P330-12-00139

Pennsylvania: 68-01752
http://www.depweb.state.pa.us/portal/server.pt/community/labs/13780/laboratory_accreditation_program/590095

CHEMISTRY

A2LA Accredited: Testing Cert # 2864.01
Lead in Paint, Phthalates, Lead in Children's Metals Products (Including Jewelry)
http://www.A2LA.org/dirsearchnew/newsearch.cfm

CPSC ID# 1141
Lead Paint, Lead in Children's Metals Jewelry
http://www.cpsc.gov/cgi-bin/labapplist.aspx

LABORATORY TESTING DATA SHEET

Project Name Wynn Everett | Project Location Everett, MA | Reviewed By

Project No. 01.0171521.13 **ESS-1503415** | Assigned By D. Scanlon

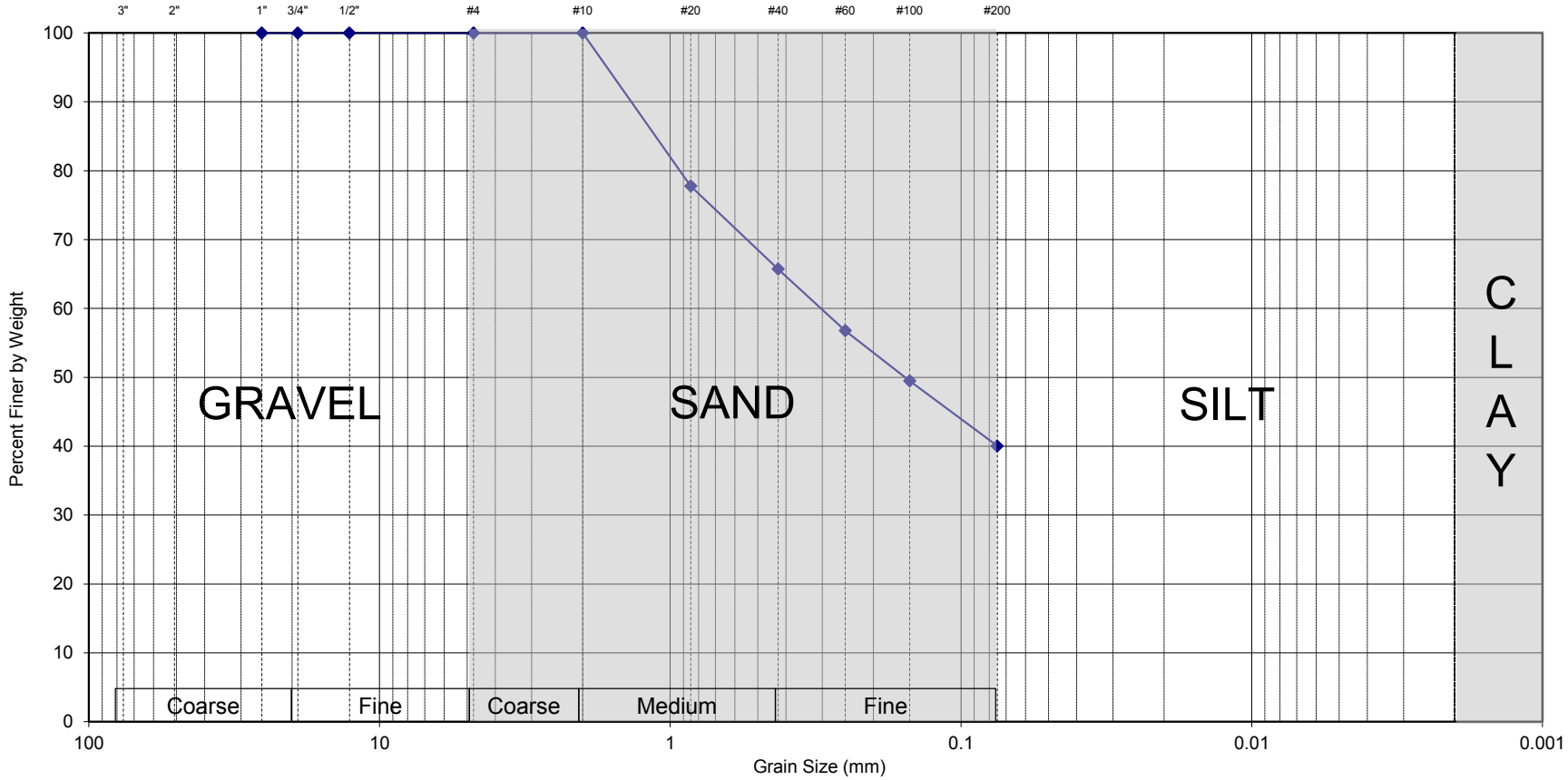
Project Manager D. Leone/C. Taylor | Report Date 3/27/15 | Date Reviewed *3/27/15*

Boring ID	Depth (ft)	ESS Sample ID	Lab No.	Identification Tests								Strength Tests				Laboratory Log and Soil Description
				Water Content %	LL %	PL %	Sieve -200 %	Hyd -2µ %	ORG %	G_s	Dry unit wt. pcf	Torvane or Type Test	Failure Criteria	$\sigma_1 - \sigma_3$ psf	Strain %	
GZ-203	0-3	1503415-05	15-S-240	205.1			40.0									Gray & Black f-m SAND and Organic SILT
GZ-217	0-3	1503415-15	15-S-241	62.4			53.3									Gray & Black Organic SILT and f-m SAND, trace Gravel

THIELSCH ENGINEERING

195 Frances Avenue
Cranston, RI 02910 401-467-6454

U.S. STANDARD SIEVE AND HYDROMETER



Gravel	Sand	Fines
0.0%	60.0%	40.0%

Lab #	Sample ID	ESS Sample ID	Sample Date	Description	WC	LL	PL	PI
15-S-240	B-203	1503415-05	3/24/15	Gray & Black f-m SAND and Organic SILT	205			

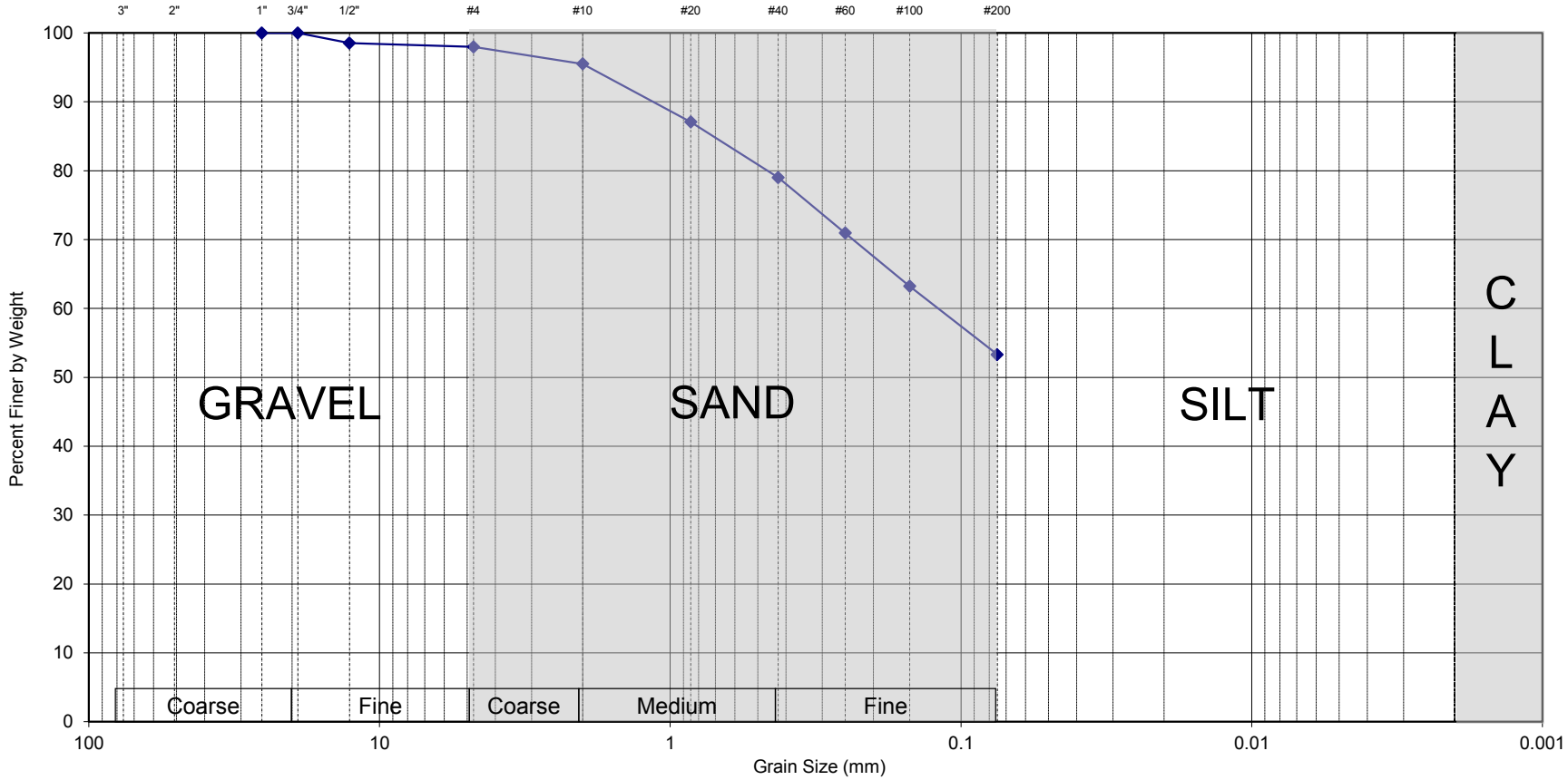
Sieve Size	% Passing
¾"	100.0
½"	100.0
#4	100.0
#10	100.0
#20	77.7
#40	65.7
#60	56.8
#100	49.5
#200	40.0

THIELSCH ENGINEERING
195 Frances Ave., Cranston, RI 02109
401-467-6454

Wynn Everett
ESS Project 1503415
GZA File # 01.0171521.13

Tested by:	MK/MS	Date:	3/27/15
Reviewed by:	MBP	Date:	3/27/15

U.S. STANDARD SIEVE AND HYDROMETER



Gravel	Sand	Fines
2.0%	44.7%	53.3%

Lab #	Sample ID	ESS Sample ID	Sample Date	Description	WC	LL	PL	PI
15-S-241	B-217	1503415-15	3/24/15	Gray & Black Organic SILT and f-m SAND, trace Gravel	62			

Sieve Size	% Passing
¾"	100.0
½"	98.5
#4	98.0
#10	95.5
#20	87.1
#40	79.0
#60	70.9
#100	63.2
#200	53.3

THIELSCH ENGINEERING
195 Frances Ave., Cranston, RI 02109
401-467-6454

Wynn Everett
ESS Project 1503415
GZA File # 01.0171521.13

Tested by:	MK/MS	Date:	3/27/15
Reviewed by:	MBP	Date:	3/27/15

SOILS LABORATORY TESTING ASSIGNMENT SHEET

THIELSCH ENGINEERING 401-467-6454 195 Frances Ave., Cranston, RI 02910

Project Name **Wynn Everett** Client _____ Assigned By _____

CTS Project No. **74-14-0002.01** Site Location _____ Collected By _____

ESS Project No. **1503415** Date Assigned _____ Received By _____

Project Manager **Christine Taylor** Date Received _____ Date Required **5 DAY - 4/1/15**

Sample Information					Lab No.	Identification Tests							Permeability		Compaction			Strength		Consol.	Notes
Boring/ Test Pit No.	Sample No.	Depth Ft.	Sample Date	ESS SAMPLE ID		Water Cont. %	LL & PL %	Org. %	Sieve -200 %	Hyd -2μ %	G_s	γ_d t pcf	Sand	Clay	Mod.	Std.	CBR	Tor-vane	Type Test $\bar{\sigma}_c$ or σ^c	Cc/ 1+eo	
						D2216	D4318	D2974	D422		D854		D2434	D5084	D1557	D698	D1883		D2166/ D4767/ D2850	D2435	#
GZ-203	0'-3'		3/24/15	1503415-05		X			X												
GZ-217	0'-3'		3/24/15	1503415-15		X			X												

Notes: _____

Sample and Cooler Receipt Checklist

Client: GZA GeoEnvironmental, Inc.
Client Project ID: _____
Shipped/Delivered Via: ESS Courier

ESS Project ID: 15030415
Date Project Due: 4/1/15
Days For Project: 5 Day

Items to be checked upon receipt:

1. Air Bill Manifest Present?	* No	10. Are the samples properly preserved?	Yes
Air No.:		11. Proper sample containers used?	Yes
2. Were Custody Seals Present?	No	12. Any air bubbles in the VOA vials?	N/A
3. Were Custody Seals Intact?	N/A	13. Holding times exceeded?	No
4. Is Radiation count < 100 CPM?	Yes	14. Sufficient sample volumes?	Yes
5. Is a cooler present?	Yes	15. Any Subcontracting needed?	* Yes
Cooler Temp: **3.6**		16. Are ESS labels on correct containers?	**Yes|No**
Iced With: **Ice**		17. Were samples received intact?	**(Yes)|No**
6. Was COC included with samples?	Yes	ESS Sample IDs:	
7. Was COC signed and dated by client?	Yes	Sub Lab:	
8. Does the COC match the sample	Yes	Analysis:	
9. Is COC complete and correct?	Yes	TAT:	

18. Was there need to call project manager to discuss status? If yes, please explain.
Samples 33-42 added per EH on 3/27/15

Who was called?: _____ By whom? _____

Sample Number	Properly Preserved	Container Type	# of Containers	Preservative
1	Yes	8 oz Soil Jar	2	NP
2	Yes	2 oz Soil Jar	1	NP
2	Yes	8 oz Soil Jar	2	NP
3	Yes	8 oz Soil Jar	2	NP
4	Yes	2 oz Soil Jar	1	NP
4	Yes	8 oz Soil Jar	2	NP
5	Yes	4 oz Soil Jar	1	NP
5	Yes	40 ml - VOA	1	MeOH
5	Yes	40 ml - VOA	2	other
5	Yes	8 oz Soil Jar	2	NP
5	Yes	Other Glass	1	NP
6	Yes	8 oz Soil Jar	2	NP
7	Yes	8 oz Soil Jar	2	NP
8	Yes	2 oz Soil Jar	1	NP
8	Yes	8 oz Soil Jar	2	NP
9	Yes	8 oz Soil Jar	2	NP
10	Yes	2 oz Soil Jar	1	NP
10	Yes	8 oz Soil Jar	2	NP
11	Yes	8 oz Soil Jar	2	NP
12	Yes	2 oz Soil Jar	1	NP
12	Yes	8 oz Soil Jar	2	NP
13	Yes	8 oz Soil Jar	2	NP
14	Yes	8 oz Soil Jar	2	NP
15	Yes	4 oz Soil Jar	1	NP
15	Yes	40 ml - VOA	1	MeOH

Sample and Cooler Receipt Checklist

Client: GZA GeoEnvironmental, Inc. ESS Project ID: 15030415

15	Yes	40 ml - VOA	2	other
15	Yes	8 oz Soil Jar	2	NP
15	Yes	Other Glass	1	NP
16	Yes	2 oz Soil Jar	1	NP
16	Yes	8 oz Soil Jar	2	NP
17	Yes	8 oz Soil Jar	1	NP
18	Yes	8 oz Soil Jar	1	NP
19	Yes	8 oz Soil Jar	1	NP
20	Yes	8 oz Soil Jar	1	NP
21	Yes	8 oz Soil Jar	1	NP
22	Yes	8 oz Soil Jar	1	NP
23	Yes	8 oz Soil Jar	1	NP
24	Yes	8 oz Soil Jar	1	NP
25	Yes	8 oz Soil Jar	1	NP
26	Yes	8 oz Soil Jar	1	NP
27	Yes	8 oz Soil Jar	1	NP
28	Yes	8 oz Soil Jar	1	NP
29	Yes	8 oz Soil Jar	1	NP
30	Yes	8 oz Soil Jar	1	NP
31	Yes	8 oz Soil Jar	1	NP
32	Yes	8 oz Soil Jar	1	NP
33	Yes	8 oz Soil Jar	1	NP
34	Yes	8 oz Soil Jar	1	NP
35	Yes	8 oz Soil Jar	1	NP
36	Yes	8 oz Soil Jar	1	NP
37	Yes	8 oz Soil Jar	1	NP
38	Yes	8 oz Soil Jar	1	NP
39	Yes	8 oz Soil Jar	1	NP
40	Yes	8 oz Soil Jar	1	NP
41	Yes	8 oz Soil Jar	1	NP
42	Yes	8 oz Soil Jar	1	NP

Completed By: _____ Date/Time: 3/27/15 1403

Reviewed By: _____ Date/Time: _____

Sample and Cooler Receipt Checklist

Client: GZA GeoEnvironmental, Inc.
Client Project ID: _____
Shipped/Delivered Via: ESS Courier

ESS Project ID: 15030415
Date Project Due: 4/1/15
Days For Project: 5 Day

Items to be checked upon receipt:

1. Air Bill Manifest Present?	* No	10. Are the samples properly preserved?	Yes
Air No.:		11. Proper sample containers used?	Yes
2. Were Custody Seals Present?	No	12. Any air bubbles in the VOA vials?	N/A
3. Were Custody Seals Intact?	N/A	13. Holding times exceeded?	No
4. Is Radiation count < 100 CPM?	Yes	14. Sufficient sample volumes?	Yes
5. Is a cooler present?	Yes	15. Any Subcontracting needed?	* Yes
Cooler Temp: **3.6**		16. Are ESS labels on correct containers?	**Yes|No**
Iced With: **Ice**		17. Were samples received intact?	**Yes|No**
6. Was COC included with samples?	Yes	ESS Sample IDs: 05, 15	
7. Was COC signed and dated by client?	Yes	Sub Lab: CTS	
8. Does the COC match the sample	Yes	Analysis: Grain Size % Water	
9. Is COC complete and correct?	Yes	TAT: STD 5DAY	

18. Was there need to call project manager to discuss status? If yes, please explain.
LL Vials forgot 3/25/15 @ 1429 ar 3/25/15

Who was called?:_____ By whom? _____

Sample Number	Properly Preserved	Container Type	# of Containers	Preservative
1	Yes	8 oz Soil Jar	2	NP
2	Yes	2 oz Soil Jar	1	NP
2	Yes	8 oz Soil Jar	2	NP
3	Yes	8 oz Soil Jar	2	NP
4	Yes	2 oz Soil Jar	1	NP
4	Yes	8 oz Soil Jar	2	NP
5	Yes	4 oz Soil Jar	1	NP
5	Yes	40 ml - VOA	1	MeOH
5	Yes	40 ml - VOA	2	other
5	Yes	8 oz Soil Jar	2	NP
5	Yes	Other Glass	1	NP
6	Yes	8 oz Soil Jar	2	NP
7	Yes	8 oz Soil Jar	2	NP
8	Yes	2 oz Soil Jar	1	NP
8	Yes	8 oz Soil Jar	2	NP
9	Yes	8 oz Soil Jar	2	NP
10	Yes	2 oz Soil Jar	1	NP
10	Yes	8 oz Soil Jar	2	NP
11	Yes	8 oz Soil Jar	2	NP
12	Yes	2 oz Soil Jar	1	NP
12	Yes	8 oz Soil Jar	2	NP
13	Yes	8 oz Soil Jar	2	NP
14	Yes	8 oz Soil Jar	2	NP
15	Yes	4 oz Soil Jar	1	NP
15	Yes	40 ml - VOA	1	MeOH

Sample and Cooler Receipt Checklist

Client: GZA GeoEnvironmental, Inc. ESS Project ID: 15030415

15	Yes	40 ml - VOA	2	other
15	Yes	8 oz Soil Jar	2	NP
15	Yes	Other Glass	1	NP
16	Yes	2 oz Soil Jar	1	NP
16	Yes	8 oz Soil Jar	2	NP
17	Yes	8 oz Soil Jar	1	NP
18	Yes	8 oz Soil Jar	1	NP
19	Yes	8 oz Soil Jar	1	NP
20	Yes	8 oz Soil Jar	1	NP
21	Yes	8 oz Soil Jar	1	NP
22	Yes	8 oz Soil Jar	1	NP
23	Yes	8 oz Soil Jar	1	NP
24	Yes	8 oz Soil Jar	1	NP
25	Yes	8 oz Soil Jar	1	NP
26	Yes	8 oz Soil Jar	1	NP
27	Yes	8 oz Soil Jar	1	NP
28	Yes	8 oz Soil Jar	1	NP
29	Yes	8 oz Soil Jar	1	NP
30	Yes	8 oz Soil Jar	1	NP
31	Yes	8 oz Soil Jar	1	NP
32	Yes	8 oz Soil Jar	1	NP

Completed By: _____ Date/Time: 3/25/15 1412

Reviewed By: _____ Date/Time: 3/25/15 1417

ESS Laboratory

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

ESS LAB PROJECT ID 1503415

Turn Time ___X___Standard Rush_____ Approved By: _____

Reporting Limits -

State where samples were collected: **MA** RI CT NH NJ NY ME Other_____

Is this project for any of the following: (please circle)
MA-MCP CT-RCP NJ-DKQP RGP DOD Other____

Electonic Deliverable Yes ✓ No____
Format: Excel ✓ Access___ PDF___ Other_____

GZA Project Manager: David E. Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Ave
Norwood, MA 02062
(781) 278-3700

Project No.: 01.0171521.13 Task 001

Project Name: Wynn - Everett

Contract Pricing ____
Special Pricing WO#: _____

ESS Lab Sample ID	Date	Collection Time	Grab -G Composite-C	Matrix	Sample Identification	# of Containers	MCP-14 Metals	PAHs by SIM	TOC	SVOCs	PCBs (Aroclors)	EPH	Hexavalent Chromium	Reactivity (Sulfide and Cyanide)	VOCs	% water	Grain Size Analysis	Comment #
1 17	3-24-15	1130	G	S	GZ-202 (0'-0.5')		X	X	X	X	X	X						
2 18	↓	1130	G	S	GZ-202 (2'-4')		X	X										
3 19		1230	G	S	GZ-203 (0'-0.5')		X	X	X	X	X	X						
4 20		1230	G	S	GZ-203 (4'-6')		X	X										
5 21		1230	G	S	GZ-203 (0'-3')		X		X	X	X	X	X	X	X	X	X	(1)
6 22		1250	G	S	GZ-204 (0'-0.5')		X	X	X	X	X	X						
7 23		1250	G	S	GZ-204 (2'-4')		X	X	X	X	X	X						
8 24		1250	G	S	GZ-204 (6'-8')		X	X										
9 25		1420	G	S	GZ-212 (0'-0.5')		X	X	X	X	X	X						
10 26	↓	1420	G	S	GZ-212 (0.5'-2')		X	X										

Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-_____

Container Type: P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filter

Cooler Present ✓ Yes ____No

Seals Intact ____Yes ____No NA: 0845

Cooler Temperature: 2-6°C+3.6° BB 3/25/15 (630)

Sampled by : Daniel Scanlon (Daniel.Scanlon@gza.com)

Comments: (1) TCLP 20X Rule Applies

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	3-24-15 @ 18:20	3/25/15	3/25/15 0845		3/25/15 1207

Page 1 of 2

ESS Laboratory

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

ESS LAB PROJECT ID 583415

Turn Time ___X___ Standard Rush_____ Approved By: _____

Reporting Limits -

State where samples were collected: **MA** RI CT NH NJ NY ME Other_____

Is this project for any of the following: (please circle)
MA-MCP CT-RCP NJ-DKQP RGP DOD Other____

Electonic Deliverable Yes ✓ No____
Format: Excel ✓ Access___ PDF___ Other_____

GZA Project Manager: David E. Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Ave
Norwood, MA 02062
(781) 278-3700

Project No.: 01.0171521.13 Task 001
Project Name: Wynn - Everett
Contract Pricing ____
Special Pricing WO#: _____

ESS Lab Sample ID	Date	Collection Time	Grab -G Composite-C	Matrix	Sample Identification	# of Containers	MCP-14 Metals	PAHs by SIM	TOC	SVOCs	PCBs (Aroclors)	EPH	Hexavalent Chromium	Reactivity (Sulfide and Cyanide)	VOCs	% water	Grain Size Analysis	Comment #
11 27	3-24-15	1515	G	S	GZ-216 (0'-0.5')		X	X	X	X	X	X						
12 28	↓	1515	G	S	GZ-216 (4'-6')		X	X										
13 29		1515	G	S	GZ-216 (2'-4')		X	X	X	X	X	X						
14 30		16:10	G	S	GZ-217 (0'-0.5')		X	X	X	X	X	X						
15 31		16:10	G	S	GZ-217 (0'-3')		X		X	X	X	X	X	X	X	X	X	(1)
16 32	↓	16:10	G	S	GZ-217 (6'-8')		X	X										

Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-_____

Container Type: P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filter

Cooler Present _____Yes _____No

Seals Intact 2 Coolers _____ Yes _____No NA: 0845

Cooler Temperature: 2.8&3.6°C 3B 3/25/15

Sampled by : Daniel Scanlon (Daniel.Scanlon@gza.com)

Comments: (1) TCLP 20X Rule Applies

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
[signature]	3-24-15 1820	[signature] 3/25/15	[signature] 3/25/15 0845		[signature] 3/25/15 1207

Page 130 of 130

Page 2 of 2

CERTIFICATE OF ANALYSIS

David E Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Avenue
Norwood, MA 02062

RE: Wynn Everett Sediment Phase (01.0171521.13 Task 001)
ESS Laboratory Work Order Number: 1503442

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard
Laboratory Director

REVIEWED
By ESS Laboratory at 1:56 pm, Apr 02, 2015

Analytical Summary
The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with NELAC Standards, A2LA and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.

Subcontracted Analyses

TestAmerica Laboratories, Inc. - Burlington, VT	Total Organic Carbon

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503442

SAMPLE RECEIPT

The following samples were received on March 26, 2015 for the analyses specified on the enclosed Chain of Custody Record.

To achieve CAM compliance for MCP data, ESS Laboratory has performed and reviewed all QA/QC Requirements and Performance Standards listed in each method. Holding times and preservation have also been reviewed. All CAM requirements have been achieved unless noted in the project narrative.

Each method has been set-up in the laboratory to reach required MCP standards. The methods for aqueous VOA and Soil Methanol VOA have known limitations for certain analytes. The regulatory standards may not be achieved due to these limitations. In addition, for all methods, matrix interferences, dilutions, and %Solids may elevate method reporting limits above regulatory standards. ESS Laboratory can provide, upon request, a Data Checker (regulatory standard comparison spreadsheet) electronic deliverable which will highlight these exceedances.

For EPH soil samples, the aromatic range results have been corrected for identified cartridge contaminant in accordance with the CAM protocol.

Lab Number	Sample Name	Matrix	Analysis
1503442-01	GZ-209 0ft-0.5ft	Soil	TOC-LK
1503442-02	GZ-209 2ft-4ft	Soil	TOC-LK
1503442-03	GZ-208 0ft-0.5ft	Soil	TOC-LK
1503442-04	GZ-207 0ft-0.5ft	Soil	TOC-LK
1503442-05	GZ-207 0ft-3ft	Soil	TOC-LK
1503442-06	GZ-206 0ft-0.5ft	Soil	TOC-LK
1503442-07	GZ-206 4ft-6ft	Soil	TOC-LK
1503442-08	GZ-206 0ft-3ft	Soil	TOC-LK
1503442-09	GZ-205 0ft-0.5ft	Soil	TOC-LK
1503442-10	GZ-205 0ft-3ft	Soil	TOC-LK
1503442-11	GZ-213 0ft-0.5ft	Soil	TOC-LK
1503442-12	GZ-213 0ft-3ft	Soil	TOC-LK
1503442-13	GZ-218 0ft-0.5ft	Soil	TOC-LK
1503442-14	GZ-218 0.5ft-2ft	Soil	TOC-LK
1503442-15	GZ-219 0ft-0.5ft	Soil	TOC-LK
1503442-16	GZ-219 0ft-3ft	Soil	TOC-LK

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503442

PROJECT NARRATIVE

No unusual observations noted.

End of Project Narrative.

DATA USABILITY LINKS

Definitions of Quality Control Parameters

Semivolatile Organics Internal Standard Information

Semivolatile Organics Surrogate Information

Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503442

CURRENT SW-846 METHODOLOGY VERSIONS

Analytical Methods

1010A - Flashpoint
6010C - ICP
6020A - ICP MS
7010 - Graphite Furnace
7196A - Hexavalent Chromium
7470A - Aqueous Mercury
7471B - Solid Mercury
8011 - EDB/DBCP/TCP
8015D - GRO/DRO
8081B - Pesticides
8082A - PCB
8100M - TPH
8151A - Herbicides
8260B - VOA
8270D - SVOA
8270D SIM - SVOA Low Level
9014 - Cyanide
9038 - Sulfate
9040C - Aqueous pH
9045D - Solid pH (Corrosivity)
9050A - Specific Conductance
9056A - Anions (IC)
9060A - TOC
9095B - Paint Filter
MADEP 04-1.1 - EPH / VPH

Prep Methods

3005A - Aqueous ICP and Graphite Furnace Digestion
3020A - Aqueous ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3546 - Microwave Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5030C - Aqueous Purge and Trap
5035 - Solid Purge and Trap

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-209 0ft-0.5ft
Date Sampled: 03/25/15 09:30
Percent Solids: N/A

ESS Laboratory Work Order: 1503442
ESS Laboratory Sample ID: 1503442-01
Sample Matrix: Soil

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**55300** (1000)		TOC-LK		1	SUB	03/28/15 0:11	mg/kg	CC53123

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-209 2ft-4ft
Date Sampled: 03/25/15 09:30
Percent Solids: N/A

ESS Laboratory Work Order: 1503442
ESS Laboratory Sample ID: 1503442-02
Sample Matrix: Soil

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**64800** (1000)		TOC-LK		1	SUB	03/28/15 0:17	mg/kg	CC53123

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-208 0ft-0.5ft
Date Sampled: 03/25/15 10:00
Percent Solids: N/A

ESS Laboratory Work Order: 1503442
ESS Laboratory Sample ID: 1503442-03
Sample Matrix: Soil

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**49100** (1000)		TOC-LK		1	SUB	03/28/15 0:24	mg/kg	CC53123

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-207 0ft-0.5ft
Date Sampled: 03/25/15 10:45
Percent Solids: N/A

ESS Laboratory Work Order: 1503442
ESS Laboratory Sample ID: 1503442-04
Sample Matrix: Soil

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**54200** (1000)		TOC-LK		1	SUB	03/28/15 0:30	mg/kg	CC53123

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-207 0ft-3ft
Date Sampled: 03/25/15 10:45
Percent Solids: N/A

ESS Laboratory Work Order: 1503442
ESS Laboratory Sample ID: 1503442-05
Sample Matrix: Soil

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**71500** (1000)		TOC-LK		1	SUB	03/28/15 0:36	mg/kg	CC53123

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-206 0ft-0.5ft
Date Sampled: 03/25/15 11:10
Percent Solids: N/A

ESS Laboratory Work Order: 1503442
ESS Laboratory Sample ID: 1503442-06
Sample Matrix: Soil

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**53400** (1000)		TOC-LK		1	SUB	03/28/15 0:43	mg/kg	CC53123

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-206 4ft-6ft
Date Sampled: 03/25/15 11:10
Percent Solids: N/A

ESS Laboratory Work Order: 1503442
ESS Laboratory Sample ID: 1503442-07
Sample Matrix: Soil

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**52600** (1000)		TOC-LK		1	SUB	03/28/15 0:49	mg/kg	CC53123

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-206 0ft-3ft
Date Sampled: 03/25/15 11:10
Percent Solids: N/A

ESS Laboratory Work Order: 1503442
ESS Laboratory Sample ID: 1503442-08
Sample Matrix: Soil

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**80100** (1000)		TOC-LK		1	SUB	03/28/15 0:55	mg/kg	CC53123

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-205 0ft-0.5ft
Date Sampled: 03/25/15 11:45
Percent Solids: N/A

ESS Laboratory Work Order: 1503442
ESS Laboratory Sample ID: 1503442-09
Sample Matrix: Soil

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**45600** (1000)		TOC-LK		1	SUB	03/28/15 1:02	mg/kg	CC53123

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-205 0ft-3ft
Date Sampled: 03/25/15 11:45
Percent Solids: N/A

ESS Laboratory Work Order: 1503442
ESS Laboratory Sample ID: 1503442-10
Sample Matrix: Soil

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**58000** (1000)		TOC-LK		1	SUB	03/28/15 1:08	mg/kg	CC53123

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-213 0ft-0.5ft
Date Sampled: 03/25/15 13:52
Percent Solids: N/A

ESS Laboratory Work Order: 1503442
ESS Laboratory Sample ID: 1503442-11
Sample Matrix: Soil

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**32900** (1000)		TOC-LK		1	SUB	03/28/15 1:14	mg/kg	CC53123

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-213 0ft-3ft
Date Sampled: 03/25/15 13:52
Percent Solids: N/A

ESS Laboratory Work Order: 1503442
ESS Laboratory Sample ID: 1503442-12
Sample Matrix: Soil

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**28500** (1000)		TOC-LK		1	SUB	03/28/15 1:21	mg/kg	CC53123

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-218 0ft-0.5ft
Date Sampled: 03/25/15 14:23
Percent Solids: N/A

ESS Laboratory Work Order: 1503442
ESS Laboratory Sample ID: 1503442-13
Sample Matrix: Soil

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**39100** (1000)		TOC-LK		1	SUB	03/28/15 1:27	mg/kg	CC53123

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-218 0.5ft-2ft
Date Sampled: 03/25/15 14:23
Percent Solids: N/A

ESS Laboratory Work Order: 1503442
ESS Laboratory Sample ID: 1503442-14
Sample Matrix: Soil

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**25300** (1000)		TOC-LK		1	SUB	03/28/15 1:33	mg/kg	CC53123

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-219 0ft-0.5ft
Date Sampled: 03/25/15 15:06
Percent Solids: N/A

ESS Laboratory Work Order: 1503442
ESS Laboratory Sample ID: 1503442-15
Sample Matrix: Soil

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**35000** (1000)		TOC-LK		1	SUB	03/28/15 1:40	mg/kg	CC53123

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-219 0ft-3ft
Date Sampled: 03/25/15 15:06
Percent Solids: N/A

ESS Laboratory Work Order: 1503442
ESS Laboratory Sample ID: 1503442-16
Sample Matrix: Soil

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**21100** (1000)		TOC-LK		1	SUB	03/28/15 1:46	mg/kg	CC53123

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase ESS Laboratory Work Order: 1503442

Notes and Definitions

ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	Detection Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report
[2C]	Result was taken from the second column. Dual column analysis.

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503442

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Department of Defense (DoD) Environmental Laboratory Accreditation Program (ELAP)
A2LA Accredited: Testing Cert# 2864.01
http://www.a2la.org/scopepdf/2864-01.pdf

Rhode Island Potable and Non Potable Water: LAI00179
http://www.health.ri.gov/find/labs/analytical/ESS.pdf

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750
http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI0002
http://www.maine.gov/dhhs/mecdc/environmental-health/water/dwp-services/labcert/documents/AllLabs.xls

Massachusetts Potable and Non Potable Water: M-RI002
http://public.dep.state.ma.us/Labcert/Labcert.aspx

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424
http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313
http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006
http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

United States Department of Agriculture Soil Permit: P330-12-00139

Pennsylvania: 68-01752
http://www.depweb.state.pa.us/portal/server.pt/community/labs/13780/laboratory_accreditation_program/590095

CHEMISTRY

A2LA Accredited: Testing Cert # 2864.01
Lead in Paint, Phthalates, Lead in Children's Metals Products (Including Jewelry)
http://www.A2LA.org/dirsearchnew/newsearch.cfm

CPSC ID# 1141
Lead Paint, Lead in Children's Metals Jewelry
http://www.cpsc.gov/cgi-bin/labapplist.aspx

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Burlington
30 Community Drive
Suite 11
South Burlington, VT 05403
Tel: (802)660-1990

TestAmerica Job ID: 200-27279-1
TestAmerica Sample Delivery Group: 1503442
Client Project/Site: 1503442

For:
ESS Laboratory
185 Frances Ave.
Cranston, Rhode Island 02910

Attn: Ms. Elizabeth Ouk

Authorized for release by:
3/31/2015 11:54:03 AM

Kathryn Kelly, Project Manager I
(802)660-1990
kathryn.kelly@testamericainc.com

LINKS
Review your project results through TotalAccess
Have a Question? Ask The Expert
Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Definitions/Glossary 3
Case Narrative 4
Detection Summary 5
Client Sample Results 7
QC Sample Results 10
QC Association Summary 11
Lab Chronicle 12
Certification Summary 15
Method Summary 16
Sample Summary 17
Chain of Custody 18
Receipt Checklists 21

Qualifiers

General Chemistry

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 200-27279-1

Laboratory: TestAmerica Burlington

Narrative

CASE NARRATIVE

Client: ESS Laboratory

Project: 1503442

Report Number: 200-27279-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 03/27/2015; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 4.6° C.

TOTAL ORGANIC CARBON

Samples 1503442-01, 1503442-02, 1503442-03, 1503442-04, 1503442-05, 1503442-06, 1503442-07, 1503442-08, 1503442-09, 1503442-10, 1503442-11, 1503442-12, 1503442-13, 1503442-14, 1503442-15 and 1503442-16 were analyzed for total organic carbon in accordance with Lloyd Kahn Method. The samples were analyzed on 03/28/2015.

Total Organic Carbon was detected in method blank MB 200-86237/10 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: ESS Laboratory
Project/Site: 1503442

TestAmerica Job ID: 200-27279-1
SDG: 1503442

Client Sample ID: 1503442-01 — Lab Sample ID: 200-27279-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	55300	B	1000	120	mg/Kg	1		Lloyd Kahn	Total/NA

Client Sample ID: 1503442-02 — Lab Sample ID: 200-27279-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	64800	B	1000	120	mg/Kg	1		Lloyd Kahn	Total/NA

Client Sample ID: 1503442-03 — Lab Sample ID: 200-27279-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	49100	B	1000	120	mg/Kg	1		Lloyd Kahn	Total/NA

Client Sample ID: 1503442-04 — Lab Sample ID: 200-27279-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	54200	B	1000	120	mg/Kg	1		Lloyd Kahn	Total/NA

Client Sample ID: 1503442-05 — Lab Sample ID: 200-27279-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	71500	B	1000	120	mg/Kg	1		Lloyd Kahn	Total/NA

Client Sample ID: 1503442-06 — Lab Sample ID: 200-27279-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	53400	B	1000	120	mg/Kg	1		Lloyd Kahn	Total/NA

Client Sample ID: 1503442-07 — Lab Sample ID: 200-27279-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	52600	B	1000	120	mg/Kg	1		Lloyd Kahn	Total/NA

Client Sample ID: 1503442-08 — Lab Sample ID: 200-27279-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	80100	B	1000	120	mg/Kg	1		Lloyd Kahn	Total/NA

Client Sample ID: 1503442-09 — Lab Sample ID: 200-27279-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	45600	B	1000	120	mg/Kg	1		Lloyd Kahn	Total/NA

Client Sample ID: 1503442-10 — Lab Sample ID: 200-27279-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	58000	B	1000	120	mg/Kg	1		Lloyd Kahn	Total/NA

Client Sample ID: 1503442-11 — Lab Sample ID: 200-27279-11

This Detection Summary does not include radiochemical test results.

Client Sample ID: 1503442-11 (Continued) — Lab Sample ID: 200-27279-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	32900	B	1000	120	mg/Kg	1		Lloyd Kahn	Total/NA

Client Sample ID: 1503442-12 — Lab Sample ID: 200-27279-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	28500	B	1000	120	mg/Kg	1		Lloyd Kahn	Total/NA

Client Sample ID: 1503442-13 — Lab Sample ID: 200-27279-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	39100	B	1000	120	mg/Kg	1		Lloyd Kahn	Total/NA

Client Sample ID: 1503442-14 — Lab Sample ID: 200-27279-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	25300	B	1000	120	mg/Kg	1		Lloyd Kahn	Total/NA

Client Sample ID: 1503442-15 — Lab Sample ID: 200-27279-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	35000	B	1000	120	mg/Kg	1		Lloyd Kahn	Total/NA

Client Sample ID: 1503442-16 — Lab Sample ID: 200-27279-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	21100	B	1000	120	mg/Kg	1		Lloyd Kahn	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 1503442-01 — **Lab Sample ID: 200-27279-1**
Date Collected: 03/25/15 09:30
Date Received: 03/27/15 10:45
Matrix: Sediment

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	55300	B	1000	120	mg/Kg			03/28/15 00:11	1

Client Sample ID: 1503442-02 — **Lab Sample ID: 200-27279-2**
Date Collected: 03/25/15 09:30
Date Received: 03/27/15 10:45
Matrix: Sediment

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	64800	B	1000	120	mg/Kg			03/28/15 00:17	1

Client Sample ID: 1503442-03 — **Lab Sample ID: 200-27279-3**
Date Collected: 03/25/15 10:00
Date Received: 03/27/15 10:45
Matrix: Sediment

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	49100	B	1000	120	mg/Kg			03/28/15 00:24	1

Client Sample ID: 1503442-04 — **Lab Sample ID: 200-27279-4**
Date Collected: 03/25/15 10:45
Date Received: 03/27/15 10:45
Matrix: Sediment

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	54200	B	1000	120	mg/Kg			03/28/15 00:30	1

Client Sample ID: 1503442-05 — **Lab Sample ID: 200-27279-5**
Date Collected: 03/25/15 10:45
Date Received: 03/27/15 10:45
Matrix: Sediment

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	71500	B	1000	120	mg/Kg			03/28/15 00:36	1

Client Sample ID: 1503442-06 — **Lab Sample ID: 200-27279-6**
Date Collected: 03/25/15 11:10
Date Received: 03/27/15 10:45
Matrix: Sediment

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	53400	B	1000	120	mg/Kg			03/28/15 00:43	1

Client Sample ID: 1503442-07 — **Lab Sample ID: 200-27279-7**
Date Collected: 03/25/15 11:10
Date Received: 03/27/15 10:45
Matrix: Sediment

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	52600	B	1000	120	mg/Kg			03/28/15 00:49	1

Client Sample ID: 1503442-08 — **Lab Sample ID: 200-27279-8**
Date Collected: 03/25/15 11:10 — **Matrix: Sediment**
Date Received: 03/27/15 10:45

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	80100	B	1000	120	mg/Kg			03/28/15 00:55	1

Client Sample ID: 1503442-09 — **Lab Sample ID: 200-27279-9**
Date Collected: 03/25/15 11:45 — **Matrix: Sediment**
Date Received: 03/27/15 10:45

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	45600	B	1000	120	mg/Kg			03/28/15 01:02	1

Client Sample ID: 1503442-10 — **Lab Sample ID: 200-27279-10**
Date Collected: 03/25/15 11:45 — **Matrix: Sediment**
Date Received: 03/27/15 10:45

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	58000	B	1000	120	mg/Kg			03/28/15 01:08	1

Client Sample ID: 1503442-11 — **Lab Sample ID: 200-27279-11**
Date Collected: 03/25/15 13:52 — **Matrix: Sediment**
Date Received: 03/27/15 10:45

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	32900	B	1000	120	mg/Kg			03/28/15 01:14	1

Client Sample ID: 1503442-12 — **Lab Sample ID: 200-27279-12**
Date Collected: 03/25/15 13:52 — **Matrix: Sediment**
Date Received: 03/27/15 10:45

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	28500	B	1000	120	mg/Kg			03/28/15 01:21	1

Client Sample ID: 1503442-13 — **Lab Sample ID: 200-27279-13**
Date Collected: 03/25/15 14:23 — **Matrix: Sediment**
Date Received: 03/27/15 10:45

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	39100	B	1000	120	mg/Kg			03/28/15 01:27	1

Client Sample ID: 1503442-14 — **Lab Sample ID: 200-27279-14**
Date Collected: 03/25/15 14:23 — **Matrix: Sediment**
Date Received: 03/27/15 10:45

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	25300	B	1000	120	mg/Kg			03/28/15 01:33	1

Client: ESS Laboratory
Project/Site: 1503442

TestAmerica Job ID: 200-27279-1
SDG: 1503442

Client Sample ID: 1503442-15
Lab Sample ID: 200-27279-15
Date Collected: 03/25/15 15:06
Matrix: Sediment
Date Received: 03/27/15 10:45

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	35000	B	1000	120	mg/Kg			03/28/15 01:40	1

Client Sample ID: 1503442-16
Lab Sample ID: 200-27279-16
Date Collected: 03/25/15 15:06
Matrix: Sediment
Date Received: 03/27/15 10:45

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	21100	B	1000	120	mg/Kg			03/28/15 01:46	1

QC Sample Results

Client: ESS Laboratory
Project/Site: 1503442

TestAmerica Job ID: 200-27279-1
SDG: 1503442

Method: Lloyd Kahn - Organic Carbon, Total (TOC)

Lab Sample ID: MB 200-86237/10
Matrix: Sediment
Analysis Batch: 86237

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	165.0	J	1000	120	mg/Kg			03/27/15 23:33	1

Lab Sample ID: LCS 200-86237/11
Matrix: Sediment
Analysis Batch: 86237

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	20100	20150		mg/Kg		100	75 - 125

QC Association Summary

Client: ESS Laboratory
Project/Site: 1503442

TestAmerica Job ID: 200-27279-1
SDG: 1503442

General Chemistry

Analysis Batch: 86237

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-27279-1	1503442-01	Total/NA	Sediment	Lloyd Kahn	
200-27279-2	1503442-02	Total/NA	Sediment	Lloyd Kahn	
200-27279-3	1503442-03	Total/NA	Sediment	Lloyd Kahn	
200-27279-4	1503442-04	Total/NA	Sediment	Lloyd Kahn	
200-27279-5	1503442-05	Total/NA	Sediment	Lloyd Kahn	
200-27279-6	1503442-06	Total/NA	Sediment	Lloyd Kahn	
200-27279-7	1503442-07	Total/NA	Sediment	Lloyd Kahn	
200-27279-8	1503442-08	Total/NA	Sediment	Lloyd Kahn	
200-27279-9	1503442-09	Total/NA	Sediment	Lloyd Kahn	
200-27279-10	1503442-10	Total/NA	Sediment	Lloyd Kahn	
200-27279-11	1503442-11	Total/NA	Sediment	Lloyd Kahn	
200-27279-12	1503442-12	Total/NA	Sediment	Lloyd Kahn	
200-27279-13	1503442-13	Total/NA	Sediment	Lloyd Kahn	
200-27279-14	1503442-14	Total/NA	Sediment	Lloyd Kahn	
200-27279-15	1503442-15	Total/NA	Sediment	Lloyd Kahn	
200-27279-16	1503442-16	Total/NA	Sediment	Lloyd Kahn	
LCS 200-86237/11	Lab Control Sample	Total/NA	Sediment	Lloyd Kahn	
MB 200-86237/10	Method Blank	Total/NA	Sediment	Lloyd Kahn	

Lab Chronicle

Client: ESS Laboratory
Project/Site: 1503442

TestAmerica Job ID: 200-27279-1
SDG: 1503442

Client Sample ID: 1503442-01
Lab Sample ID: 200-27279-1

Date Collected: 03/25/15 09:30
Matrix: Sediment
Date Received: 03/27/15 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	86237	03/28/15 00:11	MDK	TAL BUR

Client Sample ID: 1503442-02
Lab Sample ID: 200-27279-2

Date Collected: 03/25/15 09:30
Matrix: Sediment
Date Received: 03/27/15 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	86237	03/28/15 00:17	MDK	TAL BUR

Client Sample ID: 1503442-03
Lab Sample ID: 200-27279-3

Date Collected: 03/25/15 10:00
Matrix: Sediment
Date Received: 03/27/15 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	86237	03/28/15 00:24	MDK	TAL BUR

Client Sample ID: 1503442-04
Lab Sample ID: 200-27279-4

Date Collected: 03/25/15 10:45
Matrix: Sediment
Date Received: 03/27/15 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	86237	03/28/15 00:30	MDK	TAL BUR

Client Sample ID: 1503442-05
Lab Sample ID: 200-27279-5

Date Collected: 03/25/15 10:45
Matrix: Sediment
Date Received: 03/27/15 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	86237	03/28/15 00:36	MDK	TAL BUR

Client Sample ID: 1503442-06
Lab Sample ID: 200-27279-6

Date Collected: 03/25/15 11:10
Matrix: Sediment
Date Received: 03/27/15 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	86237	03/28/15 00:43	MDK	TAL BUR

Lab Chronicle

Client: ESS Laboratory
Project/Site: 1503442

TestAmerica Job ID: 200-27279-1
SDG: 1503442

Client Sample ID: 1503442-07
Date Collected: 03/25/15 11:10
Date Received: 03/27/15 10:45

Lab Sample ID: 200-27279-7
Matrix: Sediment

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	86237	03/28/15 00:49	MDK	TAL BUR

Client Sample ID: 1503442-08
Date Collected: 03/25/15 11:10
Date Received: 03/27/15 10:45

Lab Sample ID: 200-27279-8
Matrix: Sediment

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	86237	03/28/15 00:55	MDK	TAL BUR

Client Sample ID: 1503442-09
Date Collected: 03/25/15 11:45
Date Received: 03/27/15 10:45

Lab Sample ID: 200-27279-9
Matrix: Sediment

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	86237	03/28/15 01:02	MDK	TAL BUR

Client Sample ID: 1503442-10
Date Collected: 03/25/15 11:45
Date Received: 03/27/15 10:45

Lab Sample ID: 200-27279-10
Matrix: Sediment

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	86237	03/28/15 01:08	MDK	TAL BUR

Client Sample ID: 1503442-11
Date Collected: 03/25/15 13:52
Date Received: 03/27/15 10:45

Lab Sample ID: 200-27279-11
Matrix: Sediment

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	86237	03/28/15 01:14	MDK	TAL BUR

Client Sample ID: 1503442-12
Date Collected: 03/25/15 13:52
Date Received: 03/27/15 10:45

Lab Sample ID: 200-27279-12
Matrix: Sediment

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	86237	03/28/15 01:21	MDK	TAL BUR

Lab Chronicle

Client: ESS Laboratory
Project/Site: 1503442

TestAmerica Job ID: 200-27279-1
SDG: 1503442

Client Sample ID: 1503442-13
Date Collected: 03/25/15 14:23
Date Received: 03/27/15 10:45

Lab Sample ID: 200-27279-13
Matrix: Sediment

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	86237	03/28/15 01:27	MDK	TAL BUR

Client Sample ID: 1503442-14
Date Collected: 03/25/15 14:23
Date Received: 03/27/15 10:45

Lab Sample ID: 200-27279-14
Matrix: Sediment

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	86237	03/28/15 01:33	MDK	TAL BUR

Client Sample ID: 1503442-15
Date Collected: 03/25/15 15:06
Date Received: 03/27/15 10:45

Lab Sample ID: 200-27279-15
Matrix: Sediment

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	86237	03/28/15 01:40	MDK	TAL BUR

Client Sample ID: 1503442-16
Date Collected: 03/25/15 15:06
Date Received: 03/27/15 10:45

Lab Sample ID: 200-27279-16
Matrix: Sediment

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	86237	03/28/15 01:46	MDK	TAL BUR

Laboratory References:

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Certification Summary

Client: ESS Laboratory
Project/Site: 1503442

TestAmerica Job ID: 200-27279-1
SDG: 1503442

Laboratory: TestAmerica Burlington

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Connecticut	State Program	1	PH-0751	09-30-15
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	NA	02-13-16
Florida	NELAP	4	E87467	06-30-15
L-A-B	DoD ELAP		L2336	02-26-17
Maine	State Program	1	VT00008	04-17-15 *
Minnesota	NELAP	5	050-999-436	12-31-15
New Hampshire	NELAP	1	2006	12-18-15
New Jersey	NELAP	2	VT972	06-30-15
New York	NELAP	2	10391	03-31-15 *
Pennsylvania	NELAP	3	68-00489	04-30-15 *
Rhode Island	State Program	1	LAO00298	12-30-15
US Fish & Wildlife	Federal		LE-058448-0	02-28-16
USDA	Federal		P330-11-00093	10-28-16
Vermont	State Program	1	VT-4000	12-31-15
Virginia	NELAP	3	460209	12-14-15

* Certification renewal pending - certification considered valid.

Method Summary

Client: ESS Laboratory
Project/Site: 1503442

TestAmerica Job ID: 200-27279-1
SDG: 1503442

Method	Method Description	Protocol	Laboratory
Lloyd Kahn	Organic Carbon, Total (TOC)	EPA	TAL BUR

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Sample Summary

Client: ESS Laboratory
Project/Site: 1503442

TestAmerica Job ID: 200-27279-1
SDG: 1503442

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
200-27279-1	1503442-01	Sediment	03/25/15 09:30	03/27/15 10:45
200-27279-2	1503442-02	Sediment	03/25/15 09:30	03/27/15 10:45
200-27279-3	1503442-03	Sediment	03/25/15 10:00	03/27/15 10:45
200-27279-4	1503442-04	Sediment	03/25/15 10:45	03/27/15 10:45
200-27279-5	1503442-05	Sediment	03/25/15 10:45	03/27/15 10:45
200-27279-6	1503442-06	Sediment	03/25/15 11:10	03/27/15 10:45
200-27279-7	1503442-07	Sediment	03/25/15 11:10	03/27/15 10:45
200-27279-8	1503442-08	Sediment	03/25/15 11:10	03/27/15 10:45
200-27279-9	1503442-09	Sediment	03/25/15 11:45	03/27/15 10:45
200-27279-10	1503442-10	Sediment	03/25/15 11:45	03/27/15 10:45
200-27279-11	1503442-11	Sediment	03/25/15 13:52	03/27/15 10:45
200-27279-12	1503442-12	Sediment	03/25/15 13:52	03/27/15 10:45
200-27279-13	1503442-13	Sediment	03/25/15 14:23	03/27/15 10:45
200-27279-14	1503442-14	Sediment	03/25/15 14:23	03/27/15 10:45
200-27279-15	1503442-15	Sediment	03/25/15 15:06	03/27/15 10:45
200-27279-16	1503442-16	Sediment	03/25/15 15:06	03/27/15 10:45

ESS Laboratory — T. America — CHAIN OF CUSTODY

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston RI 02910-2211
Tel. (401)461-7181 Fax (401)461-4486
www.esslaboratory.com

ESS Lab # 1503442

Turn Time ____Standard Other____**5 DAY**

Regulatory State: **MA** RI CT NH NJ NY ME Other_____

Is this project for any of the following:(please circle)
MA-MCP Navy USACE CT DEP Other_____

Reporting Limits - _____

Electonic Deliverables **Excel** Access **PDF** *

Co Name	Project #	Project Name
ESS Laboratory		**1503442**

Contact Person	Proj. Location
Christine Taylor	

Address	City , State	Zip	PO #
			B02192

Tel.	email:	email:
ext. 3039	ctaylor@thielsch.com	smorrell@thielsch.com

200-27279 Chain of Custody

ESS Lab ID	Date	Collection Time	Grab -G Composite-C	Matrix	Sample ID	Pres Code	# of Containers	Type of Container	Vol of Container	Analysis: TOC Lloyd
	3/25/15	**0930**	**G**	**SED**	**1503442-01**	**1**	**1**	**G**	**2oz**	**X**
	3/25/15	**0930**	**G**	**SED**	**1503442-02**	**1**	**1**	**G**	**2oz**	**X**
	3/25/15	**1000**	**G**	**SED**	**1503442-03**	**1**	**1**	**G**	**2oz**	**X**
	3/25/15	**1045**	**G**	**SED**	**1503442-04**	**1**	**1**	**G**	**2oz**	**X**
	3/25/15	**1045**	**G**	**SED**	**1503442-05**	**1**	**1**	**G**	**2oz**	**X**
	3/25/15	**1110**	**G**	**SED**	**1503442-06**	**1**	**1**	**G**	**2oz**	**X**
	3/25/15	**1110**	**G**	**SED**	**1503442-07**	**1**	**1**	**G**	**2oz**	**X**
	3/25/15	**1110**	**G**	**SED**	**1503442-08**	**1**	**1**	**G**	**2oz**	**X**
	3/25/15	**1145**	**G**	**SED**	**1503442-09**	**1**	**1**	**G**	**2oz**	**X**
	3/25/15	**1145**	**G**	**SED**	**1503442-10**	**1**	**1**	**G**	**2oz**	**X**

Container Type. P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filter

Cooler Present _____Yes _____No

Seals Intact ____ Yes _____No NA:____

Cooler Temperature: _____

Internal Use Only

[ ] Pickup

[ ] Technician____

Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-_____

Sampled by :

Comments: **COC 1 of 2**

Relinquished by: (Signature, Date & Time)	Received by: (Signature, Date & Time)	Relinquished by: (Signature, Date & Time)	Received by: (Signature, Date & Time)
14:15 2-26-15		16:00 3/26/15	3/27/15 1045 TABIV
Relinquished by: (Signature, Date & Time)	Received by: (Signature, Date & Time)	Relinquished by: (Signature, Date & Time)	Received by: (Signature, Date & Time)

* By circling MA-MCP, client acknowledges sampels were collected in accordance with MADEP CAM VIIA

Please fax to the laboratory all changes to Chain of Custody

Report Method Blank & Laboratory Control Sample Results

ESS Laboratory — T. America — CHAIN OF CUSTODY

ESS Lab # 1503442

Division of Thielsch Engineering, Inc.

185 Frances Avenue,Cranston RI 02910-2211
Tel. (401)461-7181 Fax (401)461-4486
www.esslaboratory.com

Turn Time _____Standard Other **5 DAY**

Regulatory State: **MA** RI CT NH NJ NY ME Other_____

Is this project for any of the following:(please circle)
MA-MCP Navy USACE CT DEP Other_____

Reporting Limits - _____

Electonic Deliverables **Excel** Access **PDF** *

Co Name: **ESS Laboratory**	Project #:	Project Name: **1503442**	
Contact Person: **Christine Taylor**	Proj. Location:		
Address:	City , State:	Zip:	PO #: B02192
Tel. ext. 3039	email: ctaylor@thielsch.com	email: smorrell@thielsch.com	

ESS Lab ID	Date	Collection Time	Grab -G Composite-C	Matrix	Sample ID	Pres Code	# of Containers	Type of Container	Vol of Container	Analysis: TOC Lloyd Kahn
	3/25/15	1352	G	SED	1503442-11	1	1	G	2oz	X
	3/25/15	1352	G	SED	1503442-12	1	1	G	2oz	X
	3/25/15	1423	G	SED	1503442-13	1	1	G	2oz	X
	3/25/15	1423	G	SED	1503442-14	1	1	G	2oz	X
	3/25/15	1506	G	SED	1503442-15	1	1	G	2oz	X
	3/25/15	1506	G	SED	1503442-16	1	1	G	2oz	X

Container Type. P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA

Matrix. S-Soil SD-Solid D-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filter

Cooler Present _____Yes _____No

Seals Intact ____ Yes _____No NA:____

Cooler Temperature: _____

Internal Use Only

[ ] Pickup

[ ] Technician____

Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-_____

Sampled by :

Comments: **COC 2 of 2**

Relinquished by: (Signature, Date & Time)	Received by: (Signature, Date & Time)	Relinquished by: (Signature, Date & Time)	Received by: (Signature, Date & Time)
14:13 3-26-15		16:00 3/26/15	TASN 1045 3/27/15
Relinquished by: (Signature, Date & Time)	Received by: (Signature, Date & Time)	Relinquished by: (Signature, Date & Time)	Received by: (Signature, Date & Time)

* By circling MA-MCP, client acknowledges sampels were collected in accordance with MADEP CAM VIIA

Please fax to the laboratory all changes to Chain of Custody

Report Method Blank & Laboratory Control Sample Results



ORIGIN ID:BXCA (781) 466-6900
PAUL HOBART
TESTAMERICA
240 BEAR HILL ROAD
SUITE 104
WALTHAM, MA 02451
UNITED STATES US

SHIP DATE: 26MAR15
ACTWGT: 23.4 LB
CAD: 590687/CAFE2807

BILL RECIPIENT

TO SAMPLE RECEIVING
TESTAMERICA BURLINGTON
30 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403
(802) 660-1990 REF:
INV:
PO#: DEPT:

FedEx Express

FRI - 27 MAR 10:30A
PRIORITY OVERNIGHT

TRK# 0201 4258 8388 7599

EK BTVA

05403
VT-US BTV

Login Sample Receipt Checklist

Client: ESS Laboratory

Job Number: 200-27279-1
SDG Number: 1503442

Login Number: 27279
List Number: 1
Creator: Goodrich, Kenneth L

List Source: TestAmerica Burlington

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	NO NUMBERS
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.6ºC
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Not requested on COC.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Sample and Cooler Receipt Checklist

Client: GZA GeoEnvironmental, Inc.
Client Project ID: _____
Shipped/Delivered Via: ESS Courier

ESS Project ID: 15030442
Date Project Due: 4/2/15
Days For Project: 5 Day

Items to be checked upon receipt:

1. Air Bill Manifest Present?	* No	10. Are the samples properly preserved?	Yes
Air No.:		11. Proper sample containers used?	Yes
2. Were Custody Seals Present?	No	12. Any air bubbles in the VOA vials?	N/A
3. Were Custody Seals Intact?	N/A	13. Holding times exceeded?	No
4. Is Radiation count < 100 CPM?	Yes	14. Sufficient sample volumes?	Yes
5. Is a cooler present?	Yes	15. Any Subcontracting needed?	* Yes
Cooler Temp: **4.2**		16. Are ESS labels on correct containers?	Yes|No
Iced With: **Ice**		17. Were samples received intact?	Yes|No
6. Was COC included with samples?	Yes	ESS Sample IDs:	01-16
7. Was COC signed and dated by client?	Yes	Sub Lab:	Test America
8. Does the COC match the sample	Yes	Analysis:	TOC-LK
9. Is COC complete and correct?	Yes	TAT:	5 DAY

18. Was there need to call project manager to discuss status? If yes, please explain.

_____

_____

_____

Who was called?:_____ By whom? _____

Sample Number	Properly Preserved	Container Type	# of Containers	Preservative
1	Yes	2 oz Soil Jar	1	NP
2	Yes	2 oz Soil Jar	1	NP
3	Yes	2 oz Soil Jar	1	NP
4	Yes	2 oz Soil Jar	1	NP
5	Yes	2 oz Soil Jar	1	NP
6	Yes	2 oz Soil Jar	1	NP
7	Yes	2 oz Soil Jar	1	NP
8	Yes	2 oz Soil Jar	1	NP
9	Yes	2 oz Soil Jar	1	NP
10	Yes	2 oz Soil Jar	1	NP
11	Yes	2 oz Soil Jar	1	NP
12	Yes	2 oz Soil Jar	1	NP
13	Yes	2 oz Soil Jar	1	NP
14	Yes	2 oz Soil Jar	1	NP
15	Yes	2 oz Soil Jar	1	NP
16	Yes	2 oz Soil Jar	1	NP

Completed By: _____ Date/Time: 3/26/15 1104

Reviewed By: _____ Date/Time: 3/26/15 1121

ESS Laboratory

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

ESS LAB PROJECT ID: 157342

Turn Time ___X___Standard Rush_____ Approved By: _____

Reporting Limits -

State where samples were collected: **MA** RI CT NH NJ NY ME Other_____

Is this project for any of the following: (please circle)
MA-MCP CT-RCP NJ-DKQP RGP DOD Other____

Electonic Deliverable Yes____ No____
Format: Excel___ Access___ PDF___ Other_____

GZA Project Manager: David E. Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Ave
Norwood, MA 02062
(781) 278-3700

Project No.: 01.0171521.13 Task 001

Project Name: Wynn - Everett

Contract Pricing _____
Special Pricing WO#: _____

ESS Lab Sample ID	Date	Collection Time	Grab -G Composite-C	Matrix	Sample Identification	# of Containers	Analysis: MCP 14 Metals	PAHs by SIM	TOC	SVOCs	PCBs (Aroclors)	EPH	Hexavalent Chromium	~~Reactivity (Sulfide and Cyanide)~~	VOCs	~~% water~~	~~Grain Size Analysis~~	Comment #
1	3-25-15	0930	G	S	GZ-209 (0'-0.5')		X	X	X	X	X	X						
					GZ-209 (0.5'-2')		HOLD AND FREEZE											
2					GZ-209 (2'-4')		X	X	X	X	X	X						
					GZ-209 (4'-6')		HOLD AND FREEZE											
		↓			GZ-209 (6'-8')		X	X										
3		10:00			GZ-208 (0'-0.5')		X	X	X	X	X	X						
					GZ-208 (0.5'-2')		HOLD AND FREEZE											
					GZ-208 (2'-4')		HOLD AND FREEZE											
					GZ-208 (4'-6')		X	X										
	↓	↓	↓	↓	GZ-208 (6'-8')		HOLD AND FREEZE											

Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-_____

Container Type: P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filter

Cooler Present X Yes _____No

Seals Intact _____ Yes _____No NA: X

Cooler Temperature: 3.8°/4.2° IR 3/26/15

Sampled by : Daniel Scanlon (Daniel.Scanlon@gza.com)

Comments: (1) TCLP 20X Rule Applies
TOC only are being reported with this WO - cmt 4/1/15

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	3/25/15 @ 1800	0855 Bill Bracon 3/26/15	0845 Bill Bracon 3/26/15		3/26/15 1011

ESS Laboratory

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185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

ESS LAB PROJECT ID: 1503442

Turn Time ___X___Standard Rush_____ Approved By: _____

Reporting Limits -

State where samples were collected: **MA** RI CT NH NJ NY ME Other_____

Is this project for any of the following: (please circle)
MA-MCP CT-RCP NJ-DKQP RGP DOD Other____

Electonic Deliverable Yes____ No____
Format: Excel___ Access___ PDF___ Other_____

GZA Project Manager: David E. Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Ave
Norwood, MA 02062
(781) 278-3700

Project No.: 01.0171521.13 Task 001

Project Name: Wynn - Everett

Contract Pricing _____
Special Pricing WO#: _____

ESS Lab Sample ID	Date	Collection Time	Grab -G Composite-C	Matrix	Sample Identification	# of Containers	Analysis: MCP-14 Metals	PAHs by SIM	TOC	SVOCs	PCBs (Aroclors)	EPH	Hexavalent Chromium	Reactivity (Sulfide and Cyanide)	VOCs	% water	Grain Size Analysis	Comment #
4	3-25-15	1045	G	S	GZ-207 (0'-0.5')		X	X	X	X	X	X						
					GZ-207 (0.5'-2')		HOLD AND FREEZE											
					GZ-207 (2'-4')		HOLD AND FREEZE											
					GZ-207 (4'-6')		X	X										
		↓			GZ-207 (6-7.5')		X	X										
5		1045			GZ-207 (0'-3')		X		X	X	X	X	X	X	X	X	X	(1)
6		1110			GZ-206 (0'-0.5')		X	X	X	X	X	X						
					GZ-206 (0.5'-2')		HOLD AND FREEZE											
					GZ-206 (2'-4')		HOLD AND FREEZE											
7	↓	↓	↓	↓	GZ-206 (4'-6')		X	X	X	X	X	X						

Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-_____

Container Type: P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filter

Cooler Present __X__ Yes _____ No

Seals Intact _____ Yes _____ No NA: K

Cooler Temperature: 3.5°/4.2° ICE

Sampled by : Daniel Scanlon (Daniel.Scanlon@gza.com)

Comments: (1) TCLP 20X Rule Applies

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	3-25-15	Bill Bucan 3/25/15 0845	Bill Bucan 3/26/15 0845		3/26/15 1014
@ 1800					

ESS Laboratory
Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

ESS LAB PROJECT ID: 1503442

Turn Time ___X___Standard Rush_____ Approved By: _____

Reporting Limits -

State where samples were collected: **MA** RI CT NH NJ NY ME Other_____

Is this project for any of the following: (please circle)
MA-MCP CT-RCP NJ-DKQP RGP DOD Other____

Electonic Deliverable Yes____ No____
Format: Excel___ Access___ PDF___ Other_____

GZA Project Manager: David E. Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Ave
Norwood, MA 02062
(781) 278-3700

Project No.: 01.0171521.13 Task 001

Project Name: Wynn - Everett

Contract Pricing _____
Special Pricing WO#: _____

ESS Lab Sample ID	Date	Collection Time	Grab -G Composite-C	Matrix	Sample Identification	# of Containers	MCP 14 Metals	PAHs by SIM	TOC	SVOCs	PCBs (Aroclors)	EPH	Hexavalent Chromium	Reactivity (Sulfide and Cyanide)	VOCs	% water	Grain Size Analysis	Comment #
	3-25-15	1110	G	S	GZ-206 (6'-8')		HOLD AND FREEZE											
8		1110			GZ-206 (0'-3')		X		X	X	X	X	X	X	X	X	X	(1)
9		1145			GZ-205 (0'-0.5')		X	X	X	X	X	X						
					GZ-205 (0.5'-2')		HOLD AND FREEZE											
					GZ-205 (2'-4')		HOLD AND FREEZE											
					GZ-205 (4'-6')		X	X										
					GZ-205 (6'-8')		X	X										
10					GZ-205 (0'-3')		X		X	X	X	X	X	X	X	X	X	(1)
11		1352			GZ-213 (0'-0.5')		X	X	X	X	X	X						
		1352			GZ-213 (0.5'-2')		HOLD AND FREEZE											

Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-_____

Container Type: P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filter

Cooler Present X Yes _____No
Seals Intact _____Yes _____No NA: X
Cooler Temperature: 3.8°/4.2° @3/26/15

Sampled by : Daniel Scanlon (Daniel.Scanlon@gza.com)

Comments: (1) TCLP 20X Rule Applies

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Daniel Scanlon	3-25-15 @1800	Bill Bracan 3/26/15 0830	Bill Bracan 3/26/15 0845		3/26/15 1011

ESS Laboratory

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185 Frances Avenue, Cranston, RI 02910-2211
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www.esslaboratory.com

CHAIN OF CUSTODY

ESS LAB PROJECT ID: 1503442

Turn Time ___X___Standard Rush_____ Approved By: _____

Reporting Limits -

State where samples were collected: **MA** RI CT NH NJ NY ME Other_____

Is this project for any of the following: (please circle)
MA-MCP CT-RCP NJ-DKQP RGP DOD Other____

Electonic Deliverable Yes____ No____
Format: Excel___ Access___ PDF___ Other_____

GZA Project Manager: David E. Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Ave
Norwood, MA 02062
(781) 278-3700

Project No.: 01.0171521.13 Task 001

Project Name: Wynn - Everett

Contract Pricing _____
Special Pricing WO#: _____

ESS Lab Sample ID	Date	Collection Time	Grab -G Composite-C	Matrix	Sample Identification	Analysis: # of Containers	MCP-14 Metals	PAHs by SIM	TOC	SVOCs	PCBs (Aroclors)	EPH	Hexavalent Chromium	Reactivity (Sulfide and Cyanide)	VOCs	% water	Grain Size Analysis	Comment #
	3-25-15	1352	G	S	GZ-213 (2'-4')		HOLD	AND	FREEZE									
					GZ-213 (4'-6')		X	X										
12					GZ-213 (0'-3')		X		X	X	X	X	X	X	X	X	X	(1)
13		1423			GZ-218 (0'-0.5')		X	X	X	X	X	X						
14					GZ-218 (0.5'-2')		X	X	X	X	X	X						
					GZ-218 (2'-4')		HOLD	AND	FREEZE									
					GZ-218 (4'-6')		X	X										
15		1506			GZ-219 (0'-0.5')		X	X	X	X	X	X						
					GZ-219 (0.5'-2')		HOLD	AND	FREEZE									
					GZ-219 (2'-4')		HOLD	AND	FREEZE									

Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-_____

Container Type: P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filter

Cooler Present X Yes ____No

Seals Intact ____Yes ____No NA: X

Cooler Temperature: 3.8°/4.2°IR 3/26/15

Sampled by : Daniel Scanlon (Daniel.Scanlon@gza.com)

Comments: (1) TCLP 20X Rule Applies

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	3/25/15 @1800		0845		3/26/15 1011

ESS Laboratory

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185 Frances Avenue, Cranston, RI 02910-2211
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www.esslaboratory.com

CHAIN OF CUSTODY

ESS LAB PROJECT ID: 1503442

Turn Time ___X___ Standard Rush_____ Approved By: _____

Reporting Limits -

State where samples were collected: **MA** RI CT NH NJ NY ME Other_____

Is this project for any of the following: (please circle)
MA-MCP CT-RCP NJ-DKQP RGP DOD Other____

Electonic Deliverable Yes____ No____
Format: Excel___ Access___ PDF___ Other_____

GZA Project Manager: David E. Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Ave
Norwood, MA 02062
(781) 278-3700

Project No.: 01.0171521.13 Task 001

Project Name: Wynn - Everett

Contract Pricing ____
Special Pricing WO#: _____

ESS Lab Sample ID	Date	Collection Time	Grab -G Composite-C	Matrix	Sample Identification	Analysis: # of Containers	MCP-14 Metals	PAHs by SIM	TOC	SVOCs	PCBs (Aroclors)	EPH	Hexavalent Chromium	Reactivity (Sulfide and Cyanide)	VOCs	% water	Grain Size Analysis	Comment #
	3/25/15	1506	G	S	GZ-219 (4'-6')		X	X										
	↓	↓	↓	↓	GZ-219 (6'-8')		HOLD			AND	FOR	TCLP						
16	↓	↓	↓	↓	GZ-219 (0'-3')		X		X	X	X	X	X	X	X	X	X	(1)

Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-_____

Container Type: P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filter

Cooler Present _X_ Yes _____ No

Seals Intact _____ Yes _____ No NA: X

Cooler Temperature: 3.8°/4.2°C IR 3/26/15

Sampled by : Daniel Scanlon (Daniel.Scanlon@gza.com)

Comments: (1) TCLP 20X Rule Applies

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
[signature]	3/25/15 1800	Bill Busean 3/26/15 GZA	Bill Busean 3/26/15 0645		[signature] 3/26/15 1011

ESS Laboratory

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

ESS LAB PROJECT ID: 157342

Turn Time ___X___Standard Rush_____ Approved By: _____

Reporting Limits -

State where samples were collected: **MA** RI CT NH NJ NY ME Other_____

Is this project for any of the following: (please circle)
MA-MCP CT-RCP NJ-DKQP RGP DOD Other____

Electonic Deliverable Yes____ No____
Format: Excel___ Access___ PDF___ Other_____

GZA Project Manager: David E. Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Ave
Norwood, MA 02062
(781) 278-3700

Project No.: 01.0171521.13 Task 001

Project Name: Wynn - Everett

Contract Pricing ____
Special Pricing WO#: _____

ESS Lab Sample ID	Date	Collection Time	Grab -G Composite-C	Matrix	Sample Identification	# of Containers	Analysis: MCP-14 Metals	PAHs by SIM	TOC	SVOCs	PCBs (Aroclors)	EPH	Hexavalent Chromium	Reactivity (Sulfide and Cyanide)	VOCs	% water	Grain Size Analysis	Comment #
1	3-25-15	0930	G	S	GZ-209 (0'-0.5')		X	X	X	X	X	X						
					GZ-209 (0.5'-2')		HOLD AND FREEZE											
2					GZ-209 (2-4')		X	X	X	X	X	X						
					GZ-209 (4'-6')		HOLD AND FREEZE											
		↓			GZ-209 (6'-8')		X	X										
3		10:00			GZ-208 (0'-0.5')		X	X	X	X	X	X						
					GZ-208 (0.5'-2')		HOLD AND FREEZE											
					GZ-208 (2'-4')		HOLD AND FREEZE											
					GZ-208 (4'-6')		X	X										
	↓	↓	↓	↓	GZ-208 (6'-8')		HOLD AND FREEZE											

Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-_____

Container Type: P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filter

Cooler Present X Yes _____No

Seals Intact _____ Yes _____No NA: X

Cooler Temperature: 3.8°/4.2° IR 3/26/15

Sampled by : Daniel Scanlon (Daniel.Scanlon@gza.com)

Comments: (1) TCLP 20X Rule Applies

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	3/25/15 @ 1800	0855 Bill Bracon 3/26/15	0845 Bill Bracon 3/26/15		3/26/15 1011

ESS Laboratory

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Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

ESS LAB PROJECT ID: 1503442

Turn Time ___X___Standard Rush_____ Approved By: _____

Reporting Limits -

State where samples were collected: **MA** RI CT NH NJ NY ME Other_____

Is this project for any of the following: (please circle)
MA-MCP CT-RCP NJ-DKQP RGP DOD Other____

Electonic Deliverable Yes____ No____
Format: Excel___ Access___ PDF___ Other_____

GZA Project Manager: David E. Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Ave
Norwood, MA 02062
(781) 278-3700

Project No.: 01.0171521.13 Task 001

Project Name: Wynn - Everett

Contract Pricing _____
Special Pricing WO#: _____

ESS Lab Sample ID	Date	Collection Time	Grab -G Composite-C	Matrix	Sample Identification	# of Containers	Analysis: MCP-14 Metals	PAHs by SIM	TOC	SVOCs	PCBs (Aroclors)	EPH	Hexavalent Chromium	Reactivity (Sulfide and Cyanide)	VOCs	% water	Grain Size Analysis	Comment #
4	3-25-15	1045	G	S	GZ-207 (0'-0.5')		X	X	X	X	X	X						
					GZ-207 (0.5'-2')		HOLD	AND	FREEZE									
					GZ-207 (2'-4')		HOLD	AND	FREEZE									
					GZ-207 (4'-6')		X	X										
		↓			GZ-207 (6-7.5')		X	X										
5		1046			GZ-207 (0'-3')		X		X	X	X	X	X	X	X	X	X	(1)
6		1110			GZ-206 (0'-0.5')		X	X	X	X	X	X						
					GZ-206 (0.5'-2')		HOLD	AND	FREEZE									
					GZ-206 (2'-4')		HOLD	AND	FREEZE									
7	↓	↓	↓	↓	GZ-206 (4'-6')		X	X	X	X	X	X						

Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-_____

Container Type: P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filter

Cooler Present __X__ Yes _____ No

Seals Intact _____ Yes _____ No NA: K

Cooler Temperature: 3.5°/4.2° ICE 3/26/15

Sampled by : Daniel Scanlon (Daniel.Scanlon@gza.com)

Comments: (1) TCLP 20X Rule Applies

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	3-25-15	Bill Bucan 3/25/15 0845	Bill Bucan 3/26/15 0845		3/26/15 1014

@ 1800

ESS Laboratory
Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

ESS LAB PROJECT ID: 1503442

Turn Time ___X___Standard Rush_____ Approved By: _____

Reporting Limits -

State where samples were collected: **MA** RI CT NH NJ NY ME Other_____

Is this project for any of the following: (please circle)
MA-MCP CT-RCP NJ-DKQP RGP DOD Other____

Electonic Deliverable Yes____ No____
Format: Excel___ Access___ PDF___ Other_____

GZA Project Manager: David E. Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Ave
Norwood, MA 02062
(781) 278-3700

Project No.: 01.0171521.13 Task 001

Project Name: Wynn - Everett

Contract Pricing _____
Special Pricing WO#: _____

ESS Lab Sample ID	Date	Collection Time	Grab -G Composite-C	Matrix	Sample Identification	# of Containers	Analysis: MCP-14 Metals	PAHs by SIM	TOC	SVOCs	PCBs (Aroclors)	EPH	Hexavalent Chromium	Reactivity (Sulfide and Cyanide)	VOCs	% water	Grain Size Analysis	Comment #
	3-25-15	1110	G	S	GZ-206 (6'-8')		HOLD			AND		FREEZE						
8		1110			GZ-206 (0'-3')		X		X	X	X	X	X	X	X	X	X	(1)
9		1145			GZ-205 (0'-0.5')		X	X	X	X	X	X						
					GZ-205 (0.5'-2')		HOLD			AND		FREEZE						
					GZ-205 (2'-4')		HOLD			AND		FREEZE						
					GZ-205 (4'-6')		X	X										
					GZ-205 (6'-8')		X	X										
10					GZ-205 (0'-3')		X		X	X	X	X	X	X	X	X	X	(1)
11		1352			GZ-213 (0'-0.5')		X	X	X	X	X	X						
		1352			GZ-213 (0.5'-2')		HOLD			AND		FREEZE						

Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-_____

Container Type: P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filter

Cooler Present X Yes ____No
Seals Intact ____Yes ____No NA: X
Cooler Temperature: 3.8°/4.2° @3/26/15

Sampled by : Daniel Scanlon (Daniel.Scanlon@gza.com)

Comments: (1) TCLP 20X Rule Applies

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Daniel Scanlon	3-25-15 @1800	Bill Bracan 3/26/15	Bill Bracan 3/26/15 0845		3/26/15 1011

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CHAIN OF CUSTODY

ESS LAB PROJECT ID: 1503442

Turn Time ___X___Standard Rush_____ Approved By: _____

Reporting Limits -

State where samples were collected: **MA** RI CT NH NJ NY ME Other_____

Is this project for any of the following: (please circle)
MA-MCP CT-RCP NJ-DKQP RGP DOD Other____

Electonic Deliverable Yes____ No____
Format: Excel___ Access___ PDF___ Other_____

GZA Project Manager: David E. Leone
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Project No.: 01.0171521.13 Task 001

Project Name: Wynn - Everett

Contract Pricing _____
Special Pricing WO#: _____

ESS Lab Sample ID	Date	Collection Time	Grab -G Composite-C	Matrix	Sample Identification	# of Containers	Analysis: MCP-14 Metals	PAHs by SIM	TOC	SVOCs	PCBs (Aroclors)	EPH	Hexavalent Chromium	Reactivty (Sulfide and Cyanide)	VOCs	% water	Grain Size Analysis	Comment #
	3-25-15	1352	G	S	GZ-213 (2'-4')		HOLD	AND	FREEZE									
					GZ-213 (4'-6')		X	X										
12					GZ-213 (0'-3')		X		X	X	X	X	X	X	X	X	X	(1)
13		1423			GZ-218 (0'-0.5')		X	X	X	X	X	X						
14					GZ-218 (0.5'-2')		X	X	X	X	X	X						
					GZ-218 (2'-4')		HOLD	AND	FREEZE									
					GZ-218 (4'-6')		X	X										
15		1506			GZ-219 (0'-0.5')		X	X	X	X	X	X						
					GZ-219 (0.5'-2')		HOLD	AND	FREEZE									
					GZ-219 (2'-4')		HOLD	AND	FREEZE									

Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-_____

Container Type: P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filter

Cooler Present X Yes ____No

Seals Intact _____ Yes _____No NA: X

Cooler Temperature: 3.8°/4.2°/CE 3/26/15

Sampled by : Daniel Scanlon (Daniel.Scanlon@gza.com)

Comments: (1) TCLP 20X Rule Applies

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	3/25/15 @1800	Bill Busam 3/26/15 0810	Bill Busam 3/26/15 0845		3/26/15 1011

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CHAIN OF CUSTODY

ESS LAB PROJECT ID: 1503442

Turn Time ___X___ Standard Rush_____ Approved By: _____

Reporting Limits -

State where samples were collected: **MA** RI CT NH NJ NY ME Other_____

Is this project for any of the following: (please circle)
MA-MCP CT-RCP NJ-DKQP RGP DOD Other____

Electonic Deliverable Yes____ No____
Format: Excel___ Access___ PDF___ Other_____

GZA Project Manager: David E. Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Ave
Norwood, MA 02062
(781) 278-3700

Project No.: 01.0171521.13 Task 001

Project Name: Wynn - Everett

Contract Pricing ____
Special Pricing WO#: _____

ESS Lab Sample ID	Date	Collection Time	Grab -G Composite-C	Matrix	Sample Identification	# of Containers	Analysis: MCP-14 Metals	PAHs by SIM	TOC	SVOCs	PCBs (Aroclors)	EPH	Hexavalent Chromium	Reactivity (Sulfide and Cyanide)	VOCs	% water	Grain Size Analysis	Comment #
	3/25/15	1506	G	S	GZ-219 (4'-6')		X	X										
	↓	↓	↓	↓	GZ-219 (6'-8')		HOLD			HOLD		FOR	TCLP					
16	↓	↓	↓	↓	GZ-219 (0'-3')		X		X	X	X	X	X	X	X	X	X	(1)

Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-_____

Container Type: P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filter

Cooler Present _X_ Yes _____ No

Seals Intact _____ Yes _____ No NA: X

Cooler Temperature: 3.8°/4.2°C IW 3/26/15

Sampled by : Daniel Scanlon (Daniel.Scanlon@gza.com)

Comments: (1) TCLP 20X Rule Applies

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	3/25/15	Bill Busean 3/26/15 GZA	Bill Busean 3/26/15 0545		3/26/15 1011
	0/1800				

CERTIFICATE OF ANALYSIS

David E Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Avenue
Norwood, MA 02062

RE: Wynn Everett Sediment Phase (01.0171521.13 Task 001)
ESS Laboratory Work Order Number: 1503447

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard
Laboratory Director

REVIEWED
By ESS Laboratory at 9:37 am, Apr 10, 2015

Analytical Summary
The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with NELAC Standards, A2LA and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.

Subcontracted Analyses

CTS - Cranston, RI	Grain Size Analysis, Percent Water

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503447

SAMPLE RECEIPT

The following samples were received on March 26, 2015 for the analyses specified on the enclosed Chain of Custody Record.

To achieve CAM compliance for MCP data, ESS Laboratory has performed and reviewed all QA/QC Requirements and Performance Standards listed in each method. Holding times and preservation have also been reviewed. All CAM requirements have been achieved unless noted in the project narrative.

Each method has been set-up in the laboratory to reach required MCP standards. The methods for aqueous VOA and Soil Methanol VOA have known limitations for certain analytes. The regulatory standards may not be achieved due to these limitations. In addition, for all methods, matrix interferences, dilutions, and %Solids may elevate method reporting limits above regulatory standards. ESS Laboratory can provide, upon request, a Data Checker (regulatory standard comparison spreadsheet) electronic deliverable which will highlight these exceedances.

For EPH soil samples, the aromatic range results have been corrected for identified cartridge contaminant in accordance with the CAM protocol.

Low Level VOA vials were frozen by ESS Laboratory on March 26, 2015 at 1218.

Question I: Samples GZ-209 (6-8), GZ-208 (4-6), GZ-207 (4-6), and GZ-207 (6-7.5) for SVOC were analyzed for a subset of the required MCP list per the client's request.

All samples were decanted, per client request, upon receipt by ESS.

Lab Number	Sample Name	Matrix	Analysis
1503447-01	GZ-209 0ft-0.5ft	Soil	8270D, EPH8270, MADEP-EPH
1503447-02	GZ-209 2ft-4ft	Soil	8270D, EPH8270, MADEP-EPH
1503447-03	GZ-209 6ft-8ft	Soil	8270D
1503447-04	GZ-208 0ft-0.5ft	Soil	8270D, EPH8270, MADEP-EPH
1503447-05	GZ-208 4ft-6ft	Soil	8270D
1503447-06	GZ-207 0ft-0.5ft	Soil	8270D, EPH8270, MADEP-EPH
1503447-07	GZ-207 4ft-6ft	Soil	8270D
1503447-08	GZ-207 6ft-7.5ft	Soil	8270D
1503447-09	GZ-207 0ft-3ft	Soil	§, 2580, 7.3.3.2, 7.3.4.1, 7196A, 8260B Low, 8270D, 9045, EPH8270, MADEP-EPH
1503447-10	GZ-206 0ft-0.5ft	Soil	8270D, EPH8270, MADEP-EPH
1503447-11	GZ-206 4ft-6ft	Soil	8270D, EPH8270, MADEP-EPH
1503447-12	GZ-209 0ft-0.5ft	Soil	6010C, 7010, 7471B
1503447-13	GZ-209 2ft-4ft	Soil	6010C, 7010, 7471B

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase ESS Laboratory Work Order: 1503447

1503447-14	GZ-209 6ft-8ft	Soil	6010C, 7010, 7471B
1503447-15	GZ-208 0ft-0.5ft	Soil	6010C, 7010, 7471B
1503447-16	GZ-208 4ft-6ft	Soil	6010C, 7010, 7471B
1503447-17	GZ-207 0ft-0.5ft	Soil	6010C, 7010, 7471B
1503447-18	GZ-207 4ft-6ft	Soil	6010C, 7010, 7471B
1503447-19	GZ-207 6ft-7.5ft	Soil	6010C, 7010, 7471B
1503447-20	GZ-207 0ft-3ft	Soil	6010C, 7010, 7471B
1503447-21	GZ-206 0ft-0.5ft	Soil	6010C, 7010, 7471B
1503447-22	GZ-206 4ft-6ft	Soil	6010C, 7010, 7471B
1503447-23	GZ-209 0ft-0.5ft	Soil	8082A
1503447-24	GZ-209 2ft-4ft	Soil	8082A
1503447-25	GZ-208 0ft-0.5ft	Soil	8082A
1503447-26	GZ-207 0ft-0.5ft	Soil	8082A
1503447-27	GZ-207 0ft-3ft	Soil	8082A
1503447-28	GZ-206 0ft-0.5ft	Soil	8082A
1503447-29	GZ-206 4ft-6ft	Soil	8082A

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase ESS Laboratory Work Order: 1503447

PROJECT NARRATIVE

5035/8260B Volatile Organic Compounds / Low Level

CC52627-BS1 **Blank Spike recovery is above upper control limit (B+).**
Bromomethane (185% @ 70-130%)

CC52627-BSD1 **Blank Spike recovery is above upper control limit (B+).**
Bromomethane (152% @ 70-130%)

CYC0308-CCV1 **Continuing Calibration recovery is above upper control limit (C+).**
Bromomethane (171% @ 70-130%)

8082A Polychlorinated Biphenyls (PCB)

1503447-23 **Percent difference between primary and confirmation results exceeds 40% (P).**
Aroclor 1248

1503447-24 **Surrogate recovery(ies) diluted below the MRL (SD).**
Decachlorobiphenyl (% @ 30-150%), Decachlorobiphenyl [2C] (% @ 30-150%), Tetrachloro-m-xylene (% @ 30-150%), Tetrachloro-m-xylene [2C] (% @ 30-150%)

1503447-25 **Lower value is used due to matrix interferences (LC).**
Aroclor 1248

1503447-25 **Percent difference between primary and confirmation results exceeds 40% (P).**
Aroclor 1248

1503447-26 **Percent difference between primary and confirmation results exceeds 40% (P).**
Aroclor 1248

1503447-27 **Surrogate recovery(ies) diluted below the MRL (SD).**
Decachlorobiphenyl (% @ 30-150%), Decachlorobiphenyl [2C] (% @ 30-150%), Tetrachloro-m-xylene (% @ 30-150%), Tetrachloro-m-xylene [2C] (% @ 30-150%)

1503447-28 **Percent difference between primary and confirmation results exceeds 40% (P).**
Aroclor 1248

8270D Semi-Volatile Organic Compounds

1503447-01 **Internal Standard(s) outside of criteria due to matrix (UCM/coelution is present) (IM).**
Perylene-d12 (213% @ 50-200%)

1503447-02 **Internal Standard(s) outside of criteria due to matrix (UCM/coelution is present) (IM).**
Chrysene-d12 (217% @ 50-200%)

1503447-04 **Internal Standard(s) outside of criteria due to matrix (UCM/coelution is present) (IM).**
Perylene-d12 (214% @ 50-200%)

1503447-06 **Internal Standard(s) outside of criteria due to matrix (UCM/coelution is present) (IM).**
Chrysene-d12 (213% @ 50-200%), Perylene-d12 (213% @ 50-200%)

1503447-10 **Internal Standard(s) outside of criteria due to matrix (UCM/coelution is present) (IM).**
Chrysene-d12 (219% @ 50-200%), Perylene-d12 (230% @ 50-200%)

CD50205-BS1 **Blank Spike recovery is below lower control limit (B-).**
Aniline (32% @ 40-140%), bis(2-chloroisopropyl)Ether (36% @ 40-140%)

CD50205-BSD1 **Blank Spike recovery is below lower control limit (B-).**
Aniline (32% @ 40-140%)

CYC0348-CCV1 **Continuing Calibration recovery is above upper control limit (C+).**

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase ESS Laboratory Work Order: 1503447

2,4,6-Tribromophenol (135% @ 80-120%), 4-Nitrophenol (131% @ 80-120%)

CYC0348-CCV1 **Continuing Calibration recovery is below lower control limit (C-).**
2,4-Dinitrophenol (68% @ 80-120%), bis(2-chloroisopropyl)Ether (74% @ 80-120%)

CYC0348-TUN1 **Pentachlorophenol tailing factor > 2.**

CYC0357-CCV1 **Continuing Calibration recovery is above upper control limit (C+).**
2,4,6-Tribromophenol (129% @ 80-120%), 4-Nitrophenol (122% @ 80-120%)

CYC0357-CCV1 **Continuing Calibration recovery is below lower control limit (C-).**
bis(2-chloroisopropyl)Ether (78% @ 80-120%)

CYC0357-TUN1 **Pentachlorophenol tailing factor > 2.**

8270D(SIM) Polynuclear Aromatic Hydrocarbons

1503447-02 **Elevated Method Reporting Limits due to sample matrix (EL).**

1503447-05 **Internal Standard(s) outside of criteria due to matrix (UCM/coelution is present) (IM).**
Perylene-d12 (31% @ 50-200%)

1503447-07 **Elevated Method Reporting Limits due to sample matrix (EL).**
Dibenzo(a,h)Anthracene

1503447-07 **Internal Standard(s) outside of criteria due to matrix (UCM/coelution is present) (IM).**
Perylene-d12 (31% @ 50-200%)

1503447-10 **Surrogate recovery(ies) below lower control limit (S-).**
1,2-Dichlorobenzene-d4 (27% @ 30-130%)

CC52823-BSD1 **Relative percent difference for duplicate is outside of criteria (D+).**
Hexachlorobenzene (39% @ 30%)

CYC0345-CCV1 **Continuing Calibration recovery is above upper control limit (C+).**
Hexachlorobenzene (178% @ 70-130%)

CYD0018-CCV1 **Continuing Calibration recovery is above upper control limit (C+).**
Hexachlorobenzene (158% @ 70-130%)

Classical Chemistry

1503447-09 **Estimated value. Sample hold times were exceeded (H).**
Corrosivity (pH) , Eh (ORP)

No other observations noted.

End of Project Narrative.

DATA USABILITY LINKS

Definitions of Quality Control Parameters

Semivolatile Organics Internal Standard Information

Semivolatile Organics Surrogate Information

Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503447

CURRENT SW-846 METHODOLOGY VERSIONS

Analytical Methods

1010A - Flashpoint
6010C - ICP
6020A - ICP MS
7010 - Graphite Furnace
7196A - Hexavalent Chromium
7470A - Aqueous Mercury
7471B - Solid Mercury
8011 - EDB/DBCP/TCP
8015D - GRO/DRO
8081B - Pesticides
8082A - PCB
8100M - TPH
8151A - Herbicides
8260B - VOA
8270D - SVOA
8270D SIM - SVOA Low Level
9014 - Cyanide
9038 - Sulfate
9040C - Aqueous pH
9045D - Solid pH (Corrosivity)
9050A - Specific Conductance
9056A - Anions (IC)
9060A - TOC
9095B - Paint Filter
MADEP 04-1.1 - EPH / VPH

Prep Methods

3005A - Aqueous ICP and Graphite Furnace Digestion
3020A - Aqueous ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3546 - Microwave Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5030C - Aqueous Purge and Trap
5035 - Solid Purge and Trap

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503447

MassDEP Analytical Protocol Certification Form

MADEP RTN: _____

This form provides certification for the following data set: **1503447-01 through 1503447-29**

Matrices: ( ) Ground Water/Surface Water (X) Soil/Sediment ( ) Drinking Water ( ) Air ( ) Other:_____

CAM Protocol (check all that apply below):

(X) 8260 VOC CAM II A	(X) 7470/7471 Hg CAM III B	( ) MassDEP VPH CAM IV A	( ) 8081 Pesticides CAM V B	( ) 7196 Hex Cr CAM VI B	( ) MassDEP APH CAM IX A
(X) 8270 SVOC CAM II B	(X) 7010 Metals CAM III C	(X) MassDEP EPH CAM IV B	( ) 8151 Herbicides CAM V C	( ) 8330 Explosives CAM VIII A	( ) TO-15 VOC CAM IX B
(X) 6010 Metals CAM III A	( ) 6020 Metals CAM III D	(X) 8082 PCB CAM V A	( ) 6860 Perchlorate CAM VIII B	( ) 9014 Total Cyanide/PAC CAM VI A	

Affirmative responses to questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	Yes (X) No ( )
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	Yes (X) No ( )
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	Yes (X) No ( )
D	Does the laboratory report comply with all the reporting requirements specified in the CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	Yes (X) No ( )
E	a. VPH, EPH, APH and TO-15 only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	Yes (X) No ( )
	b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	Yes ( ) No ( )
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	Yes (X) No ( )

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocols(s)?	Yes (X) No ( )*
	***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**	
H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	Yes ( ) No (X)*
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	Yes ( ) No (X)*

****All negative responses must be addressed in an attached laboratory narrative.***

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: Laurel Stoddard Date: April 10, 2015

Printed Name: Laurel Stoddard Position: Laboratory Director

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-209 0ft-0.5ft
Date Sampled: 03/25/15 09:30
Percent Solids: 29
Initial Volume: 30.4
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503447
ESS Laboratory Sample ID: 1503447-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 3/30/15 12:52

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.567)		8270D		1	04/01/15 11:51	CYD0001	CD50205
1,2-Dichlorobenzene	ND (0.567)		8270D		1	04/01/15 11:51	CYD0001	CD50205
1,3-Dichlorobenzene	ND (0.567)		8270D		1	04/01/15 11:51	CYD0001	CD50205
1,4-Dichlorobenzene	ND (0.567)		8270D		1	04/01/15 11:51	CYD0001	CD50205
2,4,5-Trichlorophenol	ND (0.567)		8270D		1	04/01/15 11:51	CYD0001	CD50205
2,4,6-Trichlorophenol	ND (0.567)		8270D		1	04/01/15 11:51	CYD0001	CD50205
2,4-Dichlorophenol	ND (0.567)		8270D		1	04/01/15 11:51	CYD0001	CD50205
2,4-Dimethylphenol	ND (0.567)		8270D		1	04/01/15 11:51	CYD0001	CD50205
2,4-Dinitrophenol	ND (2.84)		8270D		1	04/01/15 11:51	CYD0001	CD50205
2,4-Dinitrotoluene	ND (0.567)		8270D		1	04/01/15 11:51	CYD0001	CD50205
2,6-Dinitrotoluene	ND (0.567)		8270D		1	04/01/15 11:51	CYD0001	CD50205
2-Chloronaphthalene	ND (0.567)		8270D		1	04/01/15 11:51	CYD0001	CD50205
2-Chlorophenol	ND (0.567)		8270D		1	04/01/15 11:51	CYD0001	CD50205
2-Methylphenol	ND (0.567)		8270D		1	04/01/15 11:51	CYD0001	CD50205
2-Nitrophenol	ND (0.567)		8270D		1	04/01/15 11:51	CYD0001	CD50205
3,3´-Dichlorobenzidine	ND (1.13)		8270D		1	04/01/15 11:51	CYD0001	CD50205
3+4-Methylphenol	ND (1.13)		8270D		1	04/01/15 11:51	CYD0001	CD50205
4-Bromophenyl-phenylether	ND (0.567)		8270D		1	04/01/15 11:51	CYD0001	CD50205
4-Chloroaniline	ND (1.13)		8270D		1	04/01/15 11:51	CYD0001	CD50205
4-Nitrophenol	ND (2.84)		8270D		1	04/01/15 11:51	CYD0001	CD50205
Acetophenone	ND (1.13)		8270D		1	04/01/15 11:51	CYD0001	CD50205
Aniline	ND (2.84)		8270D		1	04/01/15 11:51	CYD0001	CD50205
Azobenzene	ND (0.567)		8270D		1	04/01/15 11:51	CYD0001	CD50205
bis(2-Chloroethoxy)methane	ND (0.567)		8270D		1	04/01/15 11:51	CYD0001	CD50205
bis(2-Chloroethyl)ether	ND (0.567)		8270D		1	04/01/15 11:51	CYD0001	CD50205
bis(2-chloroisopropyl)Ether	ND (0.567)		8270D		1	04/01/15 11:51	CYD0001	CD50205
bis(2-Ethylhexyl)phthalate	**1.65** (0.567)		8270D		1	04/01/15 11:51	CYD0001	CD50205
Butylbenzylphthalate	ND (0.567)		8270D		1	04/01/15 11:51	CYD0001	CD50205
Dibenzofuran	ND (0.567)		8270D		1	04/01/15 11:51	CYD0001	CD50205
Diethylphthalate	ND (0.567)		8270D		1	04/01/15 11:51	CYD0001	CD50205
Dimethylphthalate	ND (0.567)		8270D		1	04/01/15 11:51	CYD0001	CD50205
Di-n-butylphthalate	ND (0.567)		8270D		1	04/01/15 11:51	CYD0001	CD50205

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-209 0ft-0.5ft
Date Sampled: 03/25/15 09:30
Percent Solids: 29
Initial Volume: 30.4
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503447
ESS Laboratory Sample ID: 1503447-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 3/30/15 12:52

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Di-n-octylphthalate	ND (0.567)		8270D		1	04/01/15 11:51	CYD0001	CD50205
Hexachlorobenzene	ND (0.567)		8270D		1	04/01/15 11:51	CYD0001	CD50205
Hexachlorobutadiene	ND (0.567)		8270D		1	04/01/15 11:51	CYD0001	CD50205
Hexachloroethane	ND (0.567)		8270D		1	04/01/15 11:51	CYD0001	CD50205
Isophorone	ND (0.567)		8270D		1	04/01/15 11:51	CYD0001	CD50205
Nitrobenzene	ND (0.567)		8270D		1	04/01/15 11:51	CYD0001	CD50205
N-Nitrosodimethylamine	ND (0.567)		8270D		1	04/01/15 11:51	CYD0001	CD50205
Pentachlorophenol	ND (2.84)		8270D		1	04/01/15 11:51	CYD0001	CD50205
Phenol	ND (0.567)		8270D		1	04/01/15 11:51	CYD0001	CD50205

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*47 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*72 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*49 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*56 %*		*30-130*
Surrogate: 2-Fluorophenol	*46 %*		*30-130*
Surrogate: Nitrobenzene-d5	*48 %*		*30-130*
Surrogate: Phenol-d6	*52 %*		*30-130*
Surrogate: p-Terphenyl-d14	*73 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-209 0ft-0.5ft
Date Sampled: 03/25/15 09:30
Percent Solids: 29
Initial Volume: 20.9
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503447
ESS Laboratory Sample ID: 1503447-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 3/28/15 12:00

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	ND (0.041)		8270D		1	04/01/15 7:04	CYC0376	CC52823
Acenaphthene	**0.021** (0.016)		8270D		1	04/01/15 7:04	CYC0376	CC52823
Acenaphthylene	**0.114** (0.041)		8270D		1	04/01/15 7:04	CYC0376	CC52823
Anthracene	**0.109** (0.041)		8270D		1	04/01/15 7:04	CYC0376	CC52823
Benzo(a)anthracene	**0.328** (0.041)		8270D		1	04/01/15 7:04	CYC0376	CC52823
Benzo(a)pyrene	**0.481** (0.041)		8270D		1	04/01/15 7:04	CYC0376	CC52823
Benzo(b)fluoranthene	**0.752** (0.041)		8270D		1	04/01/15 7:04	CYC0376	CC52823
Benzo(g,h,i)perylene	**0.431** (0.041)		8270D		1	04/01/15 7:04	CYC0376	CC52823
Benzo(k)fluoranthene	**0.176** (0.041)		8270D		1	04/01/15 7:04	CYC0376	CC52823
Chrysene	**0.482** (0.041)		8270D		1	04/01/15 7:04	CYC0376	CC52823
Dibenzo(a,h)Anthracene	**0.099** (0.041)		8270D		1	04/01/15 7:04	CYC0376	CC52823
Fluoranthene	**0.697** (0.041)		8270D		1	04/01/15 7:04	CYC0376	CC52823
Fluorene	**0.034** (0.016)		8270D		1	04/01/15 7:04	CYC0376	CC52823
Hexachlorobenzene	ND (0.016)		8270D		1	04/01/15 7:04	CYC0376	CC52823
Indeno(1,2,3-cd)Pyrene	**0.443** (0.041)		8270D		1	04/01/15 7:04	CYC0376	CC52823
Naphthalene	**0.093** (0.041)		8270D		1	04/01/15 7:04	CYC0376	CC52823
Phenanthrene	**0.259** (0.041)		8270D		1	04/01/15 7:04	CYC0376	CC52823
Pyrene	**0.733** (0.041)		8270D		1	04/01/15 7:04	CYC0376	CC52823

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*35 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*53 %*		*30-130*
Surrogate: Nitrobenzene-d5	*46 %*		*30-130*
Surrogate: p-Terphenyl-d14	*70 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-209 0ft-0.5ft
Date Sampled: 03/25/15 09:30
Percent Solids: 29
Initial Volume: 30
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1503447
ESS Laboratory Sample ID: 1503447-01
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 3/27/15 17:04

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (43.1)		MADEP-EPH		1	DPS	03/30/15 17:18	CYC0346	CC52711
C19-C36 Aliphatics1	**129** (43.1)		MADEP-EPH		1	DPS	03/30/15 17:18	CYC0346	CC52711
C11-C22 Unadjusted Aromatics1	**43.8** (43.1)		EPH8270		1	VSC	03/30/15 14:37	CYC0347	CC52711
C11-C22 Aromatics1,2	**43.8** (43.1)		EPH8270			VSC	03/30/15 14:37		[CALC]

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1-Chlorooctadecane	*56 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*91 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*89 %*		*40-140*
Surrogate: O-Terphenyl	*60 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-209 2ft-4ft
Date Sampled: 03/25/15 09:30
Percent Solids: 22
Initial Volume: 30.2
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503447
ESS Laboratory Sample ID: 1503447-02
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 3/30/15 12:52

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.735)		8270D		1	04/01/15 12:26	CYD0001	CD50205
1,2-Dichlorobenzene	ND (0.735)		8270D		1	04/01/15 12:26	CYD0001	CD50205
1,3-Dichlorobenzene	ND (0.735)		8270D		1	04/01/15 12:26	CYD0001	CD50205
1,4-Dichlorobenzene	ND (0.735)		8270D		1	04/01/15 12:26	CYD0001	CD50205
2,4,5-Trichlorophenol	ND (0.735)		8270D		1	04/01/15 12:26	CYD0001	CD50205
2,4,6-Trichlorophenol	ND (0.735)		8270D		1	04/01/15 12:26	CYD0001	CD50205
2,4-Dichlorophenol	ND (0.735)		8270D		1	04/01/15 12:26	CYD0001	CD50205
2,4-Dimethylphenol	ND (0.735)		8270D		1	04/01/15 12:26	CYD0001	CD50205
2,4-Dinitrophenol	ND (3.69)		8270D		1	04/01/15 12:26	CYD0001	CD50205
2,4-Dinitrotoluene	ND (0.735)		8270D		1	04/01/15 12:26	CYD0001	CD50205
2,6-Dinitrotoluene	ND (0.735)		8270D		1	04/01/15 12:26	CYD0001	CD50205
2-Chloronaphthalene	ND (0.735)		8270D		1	04/01/15 12:26	CYD0001	CD50205
2-Chlorophenol	ND (0.735)		8270D		1	04/01/15 12:26	CYD0001	CD50205
2-Methylphenol	ND (0.735)		8270D		1	04/01/15 12:26	CYD0001	CD50205
2-Nitrophenol	ND (0.735)		8270D		1	04/01/15 12:26	CYD0001	CD50205
3,3´-Dichlorobenzidine	ND (1.47)		8270D		1	04/01/15 12:26	CYD0001	CD50205
3+4-Methylphenol	ND (1.47)		8270D		1	04/01/15 12:26	CYD0001	CD50205
4-Bromophenyl-phenylether	ND (0.735)		8270D		1	04/01/15 12:26	CYD0001	CD50205
4-Chloroaniline	ND (1.47)		8270D		1	04/01/15 12:26	CYD0001	CD50205
4-Nitrophenol	ND (3.69)		8270D		1	04/01/15 12:26	CYD0001	CD50205
Acetophenone	ND (1.47)		8270D		1	04/01/15 12:26	CYD0001	CD50205
Aniline	ND (3.69)		8270D		1	04/01/15 12:26	CYD0001	CD50205
Azobenzene	ND (0.735)		8270D		1	04/01/15 12:26	CYD0001	CD50205
bis(2-Chloroethoxy)methane	ND (0.735)		8270D		1	04/01/15 12:26	CYD0001	CD50205
bis(2-Chloroethyl)ether	ND (0.735)		8270D		1	04/01/15 12:26	CYD0001	CD50205
bis(2-chloroisopropyl)Ether	ND (0.735)		8270D		1	04/01/15 12:26	CYD0001	CD50205
bis(2-Ethylhexyl)phthalate	**2900** (735)		8270D		1000	04/02/15 10:34	CYD0001	CD50205
Butylbenzylphthalate	ND (0.735)		8270D		1	04/01/15 12:26	CYD0001	CD50205
Dibenzofuran	ND (0.735)		8270D		1	04/01/15 12:26	CYD0001	CD50205
Diethylphthalate	ND (0.735)		8270D		1	04/01/15 12:26	CYD0001	CD50205
Dimethylphthalate	ND (0.735)		8270D		1	04/01/15 12:26	CYD0001	CD50205
Di-n-butylphthalate	ND (0.735)		8270D		1	04/01/15 12:26	CYD0001	CD50205

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-209 2ft-4ft
Date Sampled: 03/25/15 09:30
Percent Solids: 22
Initial Volume: 30.2
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503447
ESS Laboratory Sample ID: 1503447-02
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 3/30/15 12:52

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Di-n-octylphthalate	**183** (73.5)		8270D		100	04/02/15 9:58	CYD0001	CD50205
Hexachlorobenzene	ND (0.735)		8270D		1	04/01/15 12:26	CYD0001	CD50205
Hexachlorobutadiene	ND (0.735)		8270D		1	04/01/15 12:26	CYD0001	CD50205
Hexachloroethane	ND (0.735)		8270D		1	04/01/15 12:26	CYD0001	CD50205
Isophorone	ND (0.735)		8270D		1	04/01/15 12:26	CYD0001	CD50205
Nitrobenzene	ND (0.735)		8270D		1	04/01/15 12:26	CYD0001	CD50205
N-Nitrosodimethylamine	ND (0.735)		8270D		1	04/01/15 12:26	CYD0001	CD50205
Pentachlorophenol	ND (3.69)		8270D		1	04/01/15 12:26	CYD0001	CD50205
Phenol	ND (0.735)		8270D		1	04/01/15 12:26	CYD0001	CD50205

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*44 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*57 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*50 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*57 %*		*30-130*
Surrogate: 2-Fluorophenol	*44 %*		*30-130*
Surrogate: Nitrobenzene-d5	*48 %*		*30-130*
Surrogate: Phenol-d6	*56 %*		*30-130*
Surrogate: p-Terphenyl-d14	*55 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-209 2ft-4ft
Date Sampled: 03/25/15 09:30
Percent Solids: 22
Initial Volume: 20.6
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503447
ESS Laboratory Sample ID: 1503447-02
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 3/28/15 12:00

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	**0.253** (0.108)		8270D		5	04/01/15 21:00	CYD0015	CC52823
Acenaphthene	**0.158** (0.108)		8270D		5	04/01/15 21:00	CYD0015	CC52823
Acenaphthylene	**0.192** (0.108)		8270D		5	04/01/15 21:00	CYD0015	CC52823
Anthracene	**0.164** (0.108)		8270D		5	04/01/15 21:00	CYD0015	CC52823
Benzo(a)anthracene	ND (0.270)		8270D		5	04/01/15 21:00	CYD0015	CC52823
Benzo(a)pyrene	ND (0.270)		8270D		5	04/01/15 21:00	CYD0015	CC52823
Benzo(b)fluoranthene	**0.278** (0.270)		8270D		5	04/01/15 21:00	CYD0015	CC52823
Benzo(g,h,i)perylene	ND (0.270)		8270D		5	04/01/15 21:00	CYD0015	CC52823
Benzo(k)fluoranthene	ND (0.270)		8270D		5	04/01/15 21:00	CYD0015	CC52823
Chrysene	ND (0.270)		8270D		5	04/01/15 21:00	CYD0015	CC52823
Dibenzo(a,h)Anthracene	ND (0.108)		8270D		5	04/01/15 21:00	CYD0015	CC52823
Fluoranthene	**0.526** (0.270)		8270D		5	04/01/15 21:00	CYD0015	CC52823
Fluorene	**0.187** (0.108)		8270D		5	04/01/15 21:00	CYD0015	CC52823
Hexachlorobenzene	ND (0.027)		8270D		5	04/01/15 21:00	CYD0015	CC52823
Indeno(1,2,3-cd)Pyrene	ND (0.270)		8270D		5	04/01/15 21:00	CYD0015	CC52823
Naphthalene	**1.15** (0.270)		8270D		5	04/01/15 21:00	CYD0015	CC52823
Phenanthrene	**0.716** (0.270)		8270D		5	04/01/15 21:00	CYD0015	CC52823
Pyrene	**0.644** (0.270)		8270D		5	04/01/15 21:00	CYD0015	CC52823

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*35 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*57 %*		*30-130*
Surrogate: Nitrobenzene-d5	*50 %*		*30-130*
Surrogate: p-Terphenyl-d14	*69 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-209 2ft-4ft
Date Sampled: 03/25/15 09:30
Percent Solids: 22
Initial Volume: 30.4
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1503447
ESS Laboratory Sample ID: 1503447-02
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 3/27/15 17:04

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	**335** (54.8)		MADEP-EPH		1	DPS	03/30/15 18:10	CYC0346	CC52711
C19-C36 Aliphatics1	**221** (54.8)		MADEP-EPH		1	DPS	03/30/15 18:10	CYC0346	CC52711
C11-C22 Unadjusted Aromatics1	**787** (54.8)		EPH8270		1	VSC	03/30/15 15:11	CYC0347	CC52711
C11-C22 Aromatics1,2	**787** (54.8)		EPH8270			VSC	03/30/15 15:11		[CALC]

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1-Chlorooctadecane	*50 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*92 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*89 %*		*40-140*
Surrogate: O-Terphenyl	*72 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-209 6ft-8ft
Date Sampled: 03/25/15 09:30
Percent Solids: 72
Initial Volume: 20.8
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503447
ESS Laboratory Sample ID: 1503447-03
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 3/28/15 12:00

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	ND (0.017)		8270D		1	03/31/15 23:46	CYD0018	CC52823
Acenaphthene	ND (0.017)		8270D		1	03/31/15 23:46	CYD0018	CC52823
Acenaphthylene	ND (0.017)		8270D		1	03/31/15 23:46	CYD0018	CC52823
Anthracene	ND (0.017)		8270D		1	03/31/15 23:46	CYD0018	CC52823
Benzo(a)anthracene	ND (0.017)		8270D		1	03/31/15 23:46	CYD0018	CC52823
Benzo(a)pyrene	ND (0.017)		8270D		1	03/31/15 23:46	CYD0018	CC52823
Benzo(b)fluoranthene	ND (0.017)		8270D		1	03/31/15 23:46	CYD0018	CC52823
Benzo(g,h,i)perylene	ND (0.017)		8270D		1	03/31/15 23:46	CYD0018	CC52823
Benzo(k)fluoranthene	ND (0.017)		8270D		1	03/31/15 23:46	CYD0018	CC52823
Chrysene	ND (0.017)		8270D		1	03/31/15 23:46	CYD0018	CC52823
Dibenzo(a,h)Anthracene	ND (0.017)		8270D		1	03/31/15 23:46	CYD0018	CC52823
Fluoranthene	ND (0.017)		8270D		1	03/31/15 23:46	CYD0018	CC52823
Fluorene	ND (0.007)		8270D		1	03/31/15 23:46	CYD0018	CC52823
Hexachlorobenzene	ND (0.007)		8270D		1	03/31/15 23:46	CYD0018	CC52823
Indeno(1,2,3-cd)Pyrene	ND (0.017)		8270D		1	03/31/15 23:46	CYD0018	CC52823
Naphthalene	ND (0.017)		8270D		1	03/31/15 23:46	CYD0018	CC52823
Phenanthrene	ND (0.017)		8270D		1	03/31/15 23:46	CYD0018	CC52823
Pyrene	ND (0.017)		8270D		1	03/31/15 23:46	CYD0018	CC52823

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*51 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*61 %*		*30-130*
Surrogate: Nitrobenzene-d5	*61 %*		*30-130*
Surrogate: p-Terphenyl-d14	*81 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-208 0ft-0.5ft
Date Sampled: 03/25/15 10:00
Percent Solids: 32
Initial Volume: 30
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503447
ESS Laboratory Sample ID: 1503447-04
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 3/30/15 12:52

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.520)		8270D		1	04/01/15 13:01	CYD0001	CD50205
1,2-Dichlorobenzene	ND (0.520)		8270D		1	04/01/15 13:01	CYD0001	CD50205
1,3-Dichlorobenzene	ND (0.520)		8270D		1	04/01/15 13:01	CYD0001	CD50205
1,4-Dichlorobenzene	ND (0.520)		8270D		1	04/01/15 13:01	CYD0001	CD50205
2,4,5-Trichlorophenol	ND (0.520)		8270D		1	04/01/15 13:01	CYD0001	CD50205
2,4,6-Trichlorophenol	ND (0.520)		8270D		1	04/01/15 13:01	CYD0001	CD50205
2,4-Dichlorophenol	ND (0.520)		8270D		1	04/01/15 13:01	CYD0001	CD50205
2,4-Dimethylphenol	ND (0.520)		8270D		1	04/01/15 13:01	CYD0001	CD50205
2,4-Dinitrophenol	ND (2.61)		8270D		1	04/01/15 13:01	CYD0001	CD50205
2,4-Dinitrotoluene	ND (0.520)		8270D		1	04/01/15 13:01	CYD0001	CD50205
2,6-Dinitrotoluene	ND (0.520)		8270D		1	04/01/15 13:01	CYD0001	CD50205
2-Chloronaphthalene	ND (0.520)		8270D		1	04/01/15 13:01	CYD0001	CD50205
2-Chlorophenol	ND (0.520)		8270D		1	04/01/15 13:01	CYD0001	CD50205
2-Methylphenol	ND (0.520)		8270D		1	04/01/15 13:01	CYD0001	CD50205
2-Nitrophenol	ND (0.520)		8270D		1	04/01/15 13:01	CYD0001	CD50205
3,3´-Dichlorobenzidine	ND (1.04)		8270D		1	04/01/15 13:01	CYD0001	CD50205
3+4-Methylphenol	ND (1.04)		8270D		1	04/01/15 13:01	CYD0001	CD50205
4-Bromophenyl-phenylether	ND (0.520)		8270D		1	04/01/15 13:01	CYD0001	CD50205
4-Chloroaniline	ND (1.04)		8270D		1	04/01/15 13:01	CYD0001	CD50205
4-Nitrophenol	ND (2.61)		8270D		1	04/01/15 13:01	CYD0001	CD50205
Acetophenone	ND (1.04)		8270D		1	04/01/15 13:01	CYD0001	CD50205
Aniline	ND (2.61)		8270D		1	04/01/15 13:01	CYD0001	CD50205
Azobenzene	ND (0.520)		8270D		1	04/01/15 13:01	CYD0001	CD50205
bis(2-Chloroethoxy)methane	ND (0.520)		8270D		1	04/01/15 13:01	CYD0001	CD50205
bis(2-Chloroethyl)ether	ND (0.520)		8270D		1	04/01/15 13:01	CYD0001	CD50205
bis(2-chloroisopropyl)Ether	ND (0.520)		8270D		1	04/01/15 13:01	CYD0001	CD50205
bis(2-Ethylhexyl)phthalate	**10.5** (0.520)		8270D		1	04/01/15 13:01	CYD0001	CD50205
Butylbenzylphthalate	ND (0.520)		8270D		1	04/01/15 13:01	CYD0001	CD50205
Dibenzofuran	ND (0.520)		8270D		1	04/01/15 13:01	CYD0001	CD50205
Diethylphthalate	ND (0.520)		8270D		1	04/01/15 13:01	CYD0001	CD50205
Dimethylphthalate	ND (0.520)		8270D		1	04/01/15 13:01	CYD0001	CD50205
Di-n-butylphthalate	ND (0.520)		8270D		1	04/01/15 13:01	CYD0001	CD50205

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-208 0ft-0.5ft
Date Sampled: 03/25/15 10:00
Percent Solids: 32
Initial Volume: 30
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503447
ESS Laboratory Sample ID: 1503447-04
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 3/30/15 12:52

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Di-n-octylphthalate	**0.669** (0.520)		8270D		1	04/01/15 13:01	CYD0001	CD50205
Hexachlorobenzene	ND (0.520)		8270D		1	04/01/15 13:01	CYD0001	CD50205
Hexachlorobutadiene	ND (0.520)		8270D		1	04/01/15 13:01	CYD0001	CD50205
Hexachloroethane	ND (0.520)		8270D		1	04/01/15 13:01	CYD0001	CD50205
Isophorone	ND (0.520)		8270D		1	04/01/15 13:01	CYD0001	CD50205
Nitrobenzene	ND (0.520)		8270D		1	04/01/15 13:01	CYD0001	CD50205
N-Nitrosodimethylamine	ND (0.520)		8270D		1	04/01/15 13:01	CYD0001	CD50205
Pentachlorophenol	ND (2.61)		8270D		1	04/01/15 13:01	CYD0001	CD50205
Phenol	ND (0.520)		8270D		1	04/01/15 13:01	CYD0001	CD50205

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*44 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*61 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*48 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*52 %*		*30-130*
Surrogate: 2-Fluorophenol	*44 %*		*30-130*
Surrogate: Nitrobenzene-d5	*46 %*		*30-130*
Surrogate: Phenol-d6	*50 %*		*30-130*
Surrogate: p-Terphenyl-d14	*67 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-208 0ft-0.5ft
Date Sampled: 03/25/15 10:00
Percent Solids: 32
Initial Volume: 20.5
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503447
ESS Laboratory Sample ID: 1503447-04
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 3/28/15 12:00

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	ND (0.038)		8270D		1	04/01/15 8:42	CYC0376	CC52823
Acenaphthene	**0.030** (0.015)		8270D		1	04/01/15 8:42	CYC0376	CC52823
Acenaphthylene	**0.165** (0.038)		8270D		1	04/01/15 8:42	CYC0376	CC52823
Anthracene	**0.169** (0.038)		8270D		1	04/01/15 8:42	CYC0376	CC52823
Benzo(a)anthracene	**0.474** (0.038)		8270D		1	04/01/15 8:42	CYC0376	CC52823
Benzo(a)pyrene	**0.683** (0.038)		8270D		1	04/01/15 8:42	CYC0376	CC52823
Benzo(b)fluoranthene	**1.02** (0.038)		8270D		1	04/01/15 8:42	CYC0376	CC52823
Benzo(g,h,i)perylene	**0.628** (0.038)		8270D		1	04/01/15 8:42	CYC0376	CC52823
Benzo(k)fluoranthene	**0.271** (0.038)		8270D		1	04/01/15 8:42	CYC0376	CC52823
Chrysene	**0.647** (0.038)		8270D		1	04/01/15 8:42	CYC0376	CC52823
Dibenzo(a,h)Anthracene	**0.152** (0.038)		8270D		1	04/01/15 8:42	CYC0376	CC52823
Fluoranthene	**0.977** (0.038)		8270D		1	04/01/15 8:42	CYC0376	CC52823
Fluorene	**0.052** (0.038)		8270D		1	04/01/15 8:42	CYC0376	CC52823
Hexachlorobenzene	ND (0.015)		8270D		1	04/01/15 8:42	CYC0376	CC52823
Indeno(1,2,3-cd)Pyrene	**0.677** (0.038)		8270D		1	04/01/15 8:42	CYC0376	CC52823
Naphthalene	**0.157** (0.038)		8270D		1	04/01/15 8:42	CYC0376	CC52823
Phenanthrene	**0.378** (0.038)		8270D		1	04/01/15 8:42	CYC0376	CC52823
Pyrene	**1.09** (0.038)		8270D		1	04/01/15 8:42	CYC0376	CC52823

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*39 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*59 %*		*30-130*
Surrogate: Nitrobenzene-d5	*53 %*		*30-130*
Surrogate: p-Terphenyl-d14	*78 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-208 0ft-0.5ft
Date Sampled: 03/25/15 10:00
Percent Solids: 32
Initial Volume: 30.4
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1503447
ESS Laboratory Sample ID: 1503447-04
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 3/27/15 17:04

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (38.5)		MADEP-EPH		1	DPS	03/30/15 19:01	CYC0346	CC52711
C19-C36 Aliphatics1	**125** (38.5)		MADEP-EPH		1	DPS	03/30/15 19:01	CYC0346	CC52711
C11-C22 Unadjusted Aromatics1	**52.9** (38.5)		EPH8270		1	VSC	03/30/15 15:45	CYC0347	CC52711
C11-C22 Aromatics1,2	**52.9** (38.5)		EPH8270			VSC	03/30/15 15:45		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*56 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*81 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*79 %*		*40-140*
Surrogate: O-Terphenyl	*52 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-208 4ft-6ft
Date Sampled: 03/25/15 10:00
Percent Solids: 46
Initial Volume: 20.9
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503447
ESS Laboratory Sample ID: 1503447-05
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 3/28/15 12:00

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	**1.02** (0.026)		8270D		1	04/01/15 9:32	CYC0376	CC52823
Acenaphthene	**1.10** (0.026)		8270D		1	04/01/15 9:32	CYC0376	CC52823
Acenaphthylene	**1.04** (0.026)		8270D		1	04/01/15 9:32	CYC0376	CC52823
Anthracene	**1.52** (0.026)		8270D		1	04/01/15 9:32	CYC0376	CC52823
Benzo(a)anthracene	**1.55** (0.026)		8270D		1	04/01/15 9:32	CYC0376	CC52823
Benzo(a)pyrene	**2.24** (0.026)		8270D		1	04/01/15 9:32	CYC0376	CC52823
Benzo(b)fluoranthene	**2.49** (0.131)		8270D		5	04/01/15 21:49	CYC0376	CC52823
Benzo(g,h,i)perylene	**1.46** (0.026)		8270D		1	04/01/15 9:32	CYC0376	CC52823
Benzo(k)fluoranthene	**0.745** (0.026)		8270D		1	04/01/15 9:32	CYC0376	CC52823
Chrysene	**1.89** (0.026)		8270D		1	04/01/15 9:32	CYC0376	CC52823
Dibenzo(a,h)Anthracene	**0.544** (0.026)		8270D		1	04/01/15 9:32	CYC0376	CC52823
Fluoranthene	**2.19** (0.026)		8270D		1	04/01/15 9:32	CYC0376	CC52823
Fluorene	**1.35** (0.026)		8270D		1	04/01/15 9:32	CYC0376	CC52823
Hexachlorobenzene	ND (0.010)		8270D		1	04/01/15 9:32	CYC0376	CC52823
Indeno(1,2,3-cd)Pyrene	**1.59** (0.026)		8270D		1	04/01/15 9:32	CYC0376	CC52823
Naphthalene	**3.32** (0.131)		8270D		5	04/01/15 21:49	CYC0376	CC52823
Phenanthrene	**5.13** (0.131)		8270D		5	04/01/15 21:49	CYC0376	CC52823
Pyrene	**4.65** (0.131)		8270D		5	04/01/15 21:49	CYC0376	CC52823

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*37 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*63 %*		*30-130*
Surrogate: Nitrobenzene-d5	*61 %*		*30-130*
Surrogate: p-Terphenyl-d14	*74 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-207 0ft-0.5ft
Date Sampled: 03/25/15 10:45
Percent Solids: 32
Initial Volume: 30.7
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503447
ESS Laboratory Sample ID: 1503447-06
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 3/30/15 12:52

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.516)		8270D		1	04/01/15 13:36	CYD0001	CD50205
1,2-Dichlorobenzene	ND (0.516)		8270D		1	04/01/15 13:36	CYD0001	CD50205
1,3-Dichlorobenzene	ND (0.516)		8270D		1	04/01/15 13:36	CYD0001	CD50205
1,4-Dichlorobenzene	ND (0.516)		8270D		1	04/01/15 13:36	CYD0001	CD50205
2,4,5-Trichlorophenol	ND (0.516)		8270D		1	04/01/15 13:36	CYD0001	CD50205
2,4,6-Trichlorophenol	ND (0.516)		8270D		1	04/01/15 13:36	CYD0001	CD50205
2,4-Dichlorophenol	ND (0.516)		8270D		1	04/01/15 13:36	CYD0001	CD50205
2,4-Dimethylphenol	ND (0.516)		8270D		1	04/01/15 13:36	CYD0001	CD50205
2,4-Dinitrophenol	ND (2.59)		8270D		1	04/01/15 13:36	CYD0001	CD50205
2,4-Dinitrotoluene	ND (0.516)		8270D		1	04/01/15 13:36	CYD0001	CD50205
2,6-Dinitrotoluene	ND (0.516)		8270D		1	04/01/15 13:36	CYD0001	CD50205
2-Chloronaphthalene	ND (0.516)		8270D		1	04/01/15 13:36	CYD0001	CD50205
2-Chlorophenol	ND (0.516)		8270D		1	04/01/15 13:36	CYD0001	CD50205
2-Methylphenol	ND (0.516)		8270D		1	04/01/15 13:36	CYD0001	CD50205
2-Nitrophenol	ND (0.516)		8270D		1	04/01/15 13:36	CYD0001	CD50205
3,3´-Dichlorobenzidine	ND (1.03)		8270D		1	04/01/15 13:36	CYD0001	CD50205
3+4-Methylphenol	ND (1.03)		8270D		1	04/01/15 13:36	CYD0001	CD50205
4-Bromophenyl-phenylether	ND (0.516)		8270D		1	04/01/15 13:36	CYD0001	CD50205
4-Chloroaniline	ND (1.03)		8270D		1	04/01/15 13:36	CYD0001	CD50205
4-Nitrophenol	ND (2.59)		8270D		1	04/01/15 13:36	CYD0001	CD50205
Acetophenone	ND (1.03)		8270D		1	04/01/15 13:36	CYD0001	CD50205
Aniline	ND (2.59)		8270D		1	04/01/15 13:36	CYD0001	CD50205
Azobenzene	ND (0.516)		8270D		1	04/01/15 13:36	CYD0001	CD50205
bis(2-Chloroethoxy)methane	ND (0.516)		8270D		1	04/01/15 13:36	CYD0001	CD50205
bis(2-Chloroethyl)ether	ND (0.516)		8270D		1	04/01/15 13:36	CYD0001	CD50205
bis(2-chloroisopropyl)Ether	ND (0.516)		8270D		1	04/01/15 13:36	CYD0001	CD50205
bis(2-Ethylhexyl)phthalate	**2.42** (0.516)		8270D		1	04/01/15 13:36	CYD0001	CD50205
Butylbenzylphthalate	ND (0.516)		8270D		1	04/01/15 13:36	CYD0001	CD50205
Dibenzofuran	ND (0.516)		8270D		1	04/01/15 13:36	CYD0001	CD50205
Diethylphthalate	ND (0.516)		8270D		1	04/01/15 13:36	CYD0001	CD50205
Dimethylphthalate	ND (0.516)		8270D		1	04/01/15 13:36	CYD0001	CD50205
Di-n-butylphthalate	ND (0.516)		8270D		1	04/01/15 13:36	CYD0001	CD50205

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-207 0ft-0.5ft
Date Sampled: 03/25/15 10:45
Percent Solids: 32
Initial Volume: 30.7
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503447
ESS Laboratory Sample ID: 1503447-06
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 3/30/15 12:52

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Di-n-octylphthalate	ND (0.516)		8270D		1	04/01/15 13:36	CYD0001	CD50205
Hexachlorobenzene	ND (0.516)		8270D		1	04/01/15 13:36	CYD0001	CD50205
Hexachlorobutadiene	ND (0.516)		8270D		1	04/01/15 13:36	CYD0001	CD50205
Hexachloroethane	ND (0.516)		8270D		1	04/01/15 13:36	CYD0001	CD50205
Isophorone	ND (0.516)		8270D		1	04/01/15 13:36	CYD0001	CD50205
Nitrobenzene	ND (0.516)		8270D		1	04/01/15 13:36	CYD0001	CD50205
N-Nitrosodimethylamine	ND (0.516)		8270D		1	04/01/15 13:36	CYD0001	CD50205
Pentachlorophenol	ND (2.59)		8270D		1	04/01/15 13:36	CYD0001	CD50205
Phenol	ND (0.516)		8270D		1	04/01/15 13:36	CYD0001	CD50205

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*42 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*55 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*47 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*53 %*		*30-130*
Surrogate: 2-Fluorophenol	*44 %*		*30-130*
Surrogate: Nitrobenzene-d5	*45 %*		*30-130*
Surrogate: Phenol-d6	*52 %*		*30-130*
Surrogate: p-Terphenyl-d14	*56 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-207 0ft-0.5ft
Date Sampled: 03/25/15 10:45
Percent Solids: 32
Initial Volume: 20.1
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503447
ESS Laboratory Sample ID: 1503447-06
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 3/28/15 12:00

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	ND (0.039)		8270D		1	04/01/15 10:21	CYC0376	CC52823
Acenaphthene	**0.033** (0.016)		8270D		1	04/01/15 10:21	CYC0376	CC52823
Acenaphthylene	**0.183** (0.039)		8270D		1	04/01/15 10:21	CYC0376	CC52823
Anthracene	**0.201** (0.039)		8270D		1	04/01/15 10:21	CYC0376	CC52823
Benzo(a)anthracene	**0.470** (0.039)		8270D		1	04/01/15 10:21	CYC0376	CC52823
Benzo(a)pyrene	**0.708** (0.039)		8270D		1	04/01/15 10:21	CYC0376	CC52823
Benzo(b)fluoranthene	**1.14** (0.039)		8270D		1	04/01/15 10:21	CYC0376	CC52823
Benzo(g,h,i)perylene	**0.567** (0.039)		8270D		1	04/01/15 10:21	CYC0376	CC52823
Benzo(k)fluoranthene	**0.257** (0.039)		8270D		1	04/01/15 10:21	CYC0376	CC52823
Chrysene	**0.699** (0.039)		8270D		1	04/01/15 10:21	CYC0376	CC52823
Dibenzo(a,h)Anthracene	**0.146** (0.039)		8270D		1	04/01/15 10:21	CYC0376	CC52823
Fluoranthene	**1.00** (0.039)		8270D		1	04/01/15 10:21	CYC0376	CC52823
Fluorene	**0.056** (0.039)		8270D		1	04/01/15 10:21	CYC0376	CC52823
Hexachlorobenzene	ND (0.016)		8270D		1	04/01/15 10:21	CYC0376	CC52823
Indeno(1,2,3-cd)Pyrene	**0.632** (0.039)		8270D		1	04/01/15 10:21	CYC0376	CC52823
Naphthalene	**0.282** (0.039)		8270D		1	04/01/15 10:21	CYC0376	CC52823
Phenanthrene	**0.404** (0.039)		8270D		1	04/01/15 10:21	CYC0376	CC52823
Pyrene	**1.09** (0.039)		8270D		1	04/01/15 10:21	CYC0376	CC52823

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*42 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*58 %*		*30-130*
Surrogate: Nitrobenzene-d5	*56 %*		*30-130*
Surrogate: p-Terphenyl-d14	*76 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-207 0ft-0.5ft
Date Sampled: 03/25/15 10:45
Percent Solids: 32
Initial Volume: 30.5
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1503447
ESS Laboratory Sample ID: 1503447-06
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 3/27/15 17:04

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (39.0)		MADEP-EPH		1	DPS	03/30/15 19:51	CYC0346	CC52711
C19-C36 Aliphatics1	**98.8** (39.0)		MADEP-EPH		1	DPS	03/30/15 19:51	CYC0346	CC52711
C11-C22 Unadjusted Aromatics1	**39.3** (39.0)		EPH8270		1	VSC	03/30/15 16:19	CYC0347	CC52711
C11-C22 Aromatics1,2	**39.3** (39.0)		EPH8270			VSC	03/30/15 16:19		[CALC]

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1-Chlorooctadecane	*56 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*96 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*94 %*		*40-140*
Surrogate: O-Terphenyl	*71 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-207 4ft-6ft
Date Sampled: 03/25/15 10:45
Percent Solids: 37
Initial Volume: 20.9
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503447
ESS Laboratory Sample ID: 1503447-07
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 3/28/15 12:00

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	**0.380** (0.033)		8270D		1	04/01/15 11:10	CYC0376	CC52823
Acenaphthene	**0.201** (0.033)		8270D		1	04/01/15 11:10	CYC0376	CC52823
Acenaphthylene	**0.183** (0.033)		8270D		1	04/01/15 11:10	CYC0376	CC52823
Anthracene	**0.369** (0.033)		8270D		1	04/01/15 11:10	CYC0376	CC52823
Benzo(a)anthracene	**0.316** (0.033)		8270D		1	04/01/15 11:10	CYC0376	CC52823
Benzo(a)pyrene	**0.542** (0.033)		8270D		1	04/01/15 11:10	CYC0376	CC52823
Benzo(b)fluoranthene	**0.748** (0.033)		8270D		1	04/01/15 11:10	CYC0376	CC52823
Benzo(g,h,i)perylene	**0.185** (0.163)		8270D		5	04/01/15 22:38	CYC0376	CC52823
Benzo(k)fluoranthene	**0.274** (0.033)		8270D		1	04/01/15 11:10	CYC0376	CC52823
Chrysene	**0.424** (0.033)		8270D		1	04/01/15 11:10	CYC0376	CC52823
Dibenzo(a,h)Anthracene	**EL** ND (0.065)		8270D		5	04/01/15 22:38	CYC0376	CC52823
Fluoranthene	**0.814** (0.033)		8270D		1	04/01/15 11:10	CYC0376	CC52823
Fluorene	**0.335** (0.033)		8270D		1	04/01/15 11:10	CYC0376	CC52823
Hexachlorobenzene	ND (0.013)		8270D		1	04/01/15 11:10	CYC0376	CC52823
Indeno(1,2,3-cd)Pyrene	**0.195** (0.163)		8270D		5	04/01/15 22:38	CYC0376	CC52823
Naphthalene	**2.65** (0.033)		8270D		1	04/01/15 11:10	CYC0376	CC52823
Phenanthrene	**1.08** (0.033)		8270D		1	04/01/15 11:10	CYC0376	CC52823
Pyrene	**1.06** (0.033)		8270D		1	04/01/15 11:10	CYC0376	CC52823

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*49 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*66 %*		*30-130*
Surrogate: Nitrobenzene-d5	*69 %*		*30-130*
Surrogate: p-Terphenyl-d14	*73 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-207 6ft-7.5ft
Date Sampled: 03/25/15 10:45
Percent Solids: 61
Initial Volume: 20
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503447
ESS Laboratory Sample ID: 1503447-08
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 3/28/15 12:00

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	ND (0.020)		8270D		1	04/01/15 2:14	CYD0018	CC52823
Acenaphthene	ND (0.020)		8270D		1	04/01/15 2:14	CYD0018	CC52823
Acenaphthylene	ND (0.020)		8270D		1	04/01/15 2:14	CYD0018	CC52823
Anthracene	ND (0.020)		8270D		1	04/01/15 2:14	CYD0018	CC52823
Benzo(a)anthracene	ND (0.020)		8270D		1	04/01/15 2:14	CYD0018	CC52823
Benzo(a)pyrene	ND (0.020)		8270D		1	04/01/15 2:14	CYD0018	CC52823
Benzo(b)fluoranthene	ND (0.020)		8270D		1	04/01/15 2:14	CYD0018	CC52823
Benzo(g,h,i)perylene	ND (0.020)		8270D		1	04/01/15 2:14	CYD0018	CC52823
Benzo(k)fluoranthene	ND (0.020)		8270D		1	04/01/15 2:14	CYD0018	CC52823
Chrysene	ND (0.020)		8270D		1	04/01/15 2:14	CYD0018	CC52823
Dibenzo(a,h)Anthracene	ND (0.020)		8270D		1	04/01/15 2:14	CYD0018	CC52823
Fluoranthene	ND (0.020)		8270D		1	04/01/15 2:14	CYD0018	CC52823
Fluorene	ND (0.020)		8270D		1	04/01/15 2:14	CYD0018	CC52823
Hexachlorobenzene	ND (0.008)		8270D		1	04/01/15 2:14	CYD0018	CC52823
Indeno(1,2,3-cd)Pyrene	ND (0.020)		8270D		1	04/01/15 2:14	CYD0018	CC52823
Naphthalene	ND (0.020)		8270D		1	04/01/15 2:14	CYD0018	CC52823
Phenanthrene	ND (0.020)		8270D		1	04/01/15 2:14	CYD0018	CC52823
Pyrene	ND (0.020)		8270D		1	04/01/15 2:14	CYD0018	CC52823

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*51 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*66 %*		*30-130*
Surrogate: Nitrobenzene-d5	*63 %*		*30-130*
Surrogate: p-Terphenyl-d14	*81 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-207 0ft-3ft
Date Sampled: 03/25/15 10:45
Percent Solids: 37
Initial Volume: 4.2
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1503447
ESS Laboratory Sample ID: 1503447-09
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.0163)		8260B Low		1	03/26/15 15:12	CYC0308	CC52627
1,1,1-Trichloroethane	ND (0.0163)		8260B Low		1	03/26/15 15:12	CYC0308	CC52627
1,1,2,2-Tetrachloroethane	ND (0.0065)		8260B Low		1	03/26/15 15:12	CYC0308	CC52627
1,1,2-Trichloroethane	ND (0.0163)		8260B Low		1	03/26/15 15:12	CYC0308	CC52627
1,1-Dichloroethane	ND (0.0163)		8260B Low		1	03/26/15 15:12	CYC0308	CC52627
1,1-Dichloroethene	ND (0.0163)		8260B Low		1	03/26/15 15:12	CYC0308	CC52627
1,1-Dichloropropene	ND (0.0163)		8260B Low		1	03/26/15 15:12	CYC0308	CC52627
1,2,3-Trichlorobenzene	ND (0.0163)		8260B Low		1	03/26/15 15:12	CYC0308	CC52627
1,2,3-Trichloropropane	ND (0.0163)		8260B Low		1	03/26/15 15:12	CYC0308	CC52627
1,2,4-Trichlorobenzene	ND (0.0163)		8260B Low		1	03/26/15 15:12	CYC0308	CC52627
1,2,4-Trimethylbenzene	ND (0.0163)		8260B Low		1	03/26/15 15:12	CYC0308	CC52627
1,2-Dibromo-3-Chloropropane	ND (0.0163)		8260B Low		1	03/26/15 15:12	CYC0308	CC52627
1,2-Dibromoethane	ND (0.0163)		8260B Low		1	03/26/15 15:12	CYC0308	CC52627
1,2-Dichlorobenzene	ND (0.0163)		8260B Low		1	03/26/15 15:12	CYC0308	CC52627
1,2-Dichloroethane	ND (0.0163)		8260B Low		1	03/26/15 15:12	CYC0308	CC52627
1,2-Dichloropropane	ND (0.0163)		8260B Low		1	03/26/15 15:12	CYC0308	CC52627
1,3,5-Trimethylbenzene	ND (0.0163)		8260B Low		1	03/26/15 15:12	CYC0308	CC52627
1,3-Dichlorobenzene	ND (0.0163)		8260B Low		1	03/26/15 15:12	CYC0308	CC52627
1,3-Dichloropropane	ND (0.0163)		8260B Low		1	03/26/15 15:12	CYC0308	CC52627
1,4-Dichlorobenzene	ND (0.0163)		8260B Low		1	03/26/15 15:12	CYC0308	CC52627
1,4-Dioxane	ND (0.326)		8260B Low		1	03/26/15 15:12	CYC0308	CC52627
2,2-Dichloropropane	ND (0.0163)		8260B Low		1	03/26/15 15:12	CYC0308	CC52627
2-Butanone	**0.0436** (0.0326)		8260B Low		1	03/26/15 15:12	CYC0308	CC52627
2-Chlorotoluene	**0.0237** (0.0163)		8260B Low		1	03/26/15 15:12	CYC0308	CC52627
2-Hexanone	ND (0.0326)		8260B Low		1	03/26/15 15:12	CYC0308	CC52627
4-Chlorotoluene	ND (0.0163)		8260B Low		1	03/26/15 15:12	CYC0308	CC52627
4-Isopropyltoluene	ND (0.0163)		8260B Low		1	03/26/15 15:12	CYC0308	CC52627
4-Methyl-2-Pentanone	ND (0.0326)		8260B Low		1	03/26/15 15:12	CYC0308	CC52627
Acetone	**0.317** (0.0326)		8260B Low		1	03/26/15 15:12	CYC0308	CC52627
Benzene	ND (0.0163)		8260B Low		1	03/26/15 15:12	CYC0308	CC52627
Bromobenzene	ND (0.0163)		8260B Low		1	03/26/15 15:12	CYC0308	CC52627
Bromochloromethane	ND (0.0163)		8260B Low		1	03/26/15 15:12	CYC0308	CC52627

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-207 0ft-3ft
Date Sampled: 03/25/15 10:45
Percent Solids: 37
Initial Volume: 4.2
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1503447
ESS Laboratory Sample ID: 1503447-09
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Bromodichloromethane	ND (0.0163)		8260B Low		1	03/26/15 15:12	CYC0308	CC52627
Bromoform	ND (0.0163)		8260B Low		1	03/26/15 15:12	CYC0308	CC52627
Bromomethane	ND (0.0326)		8260B Low		1	03/26/15 15:12	CYC0308	CC52627
Carbon Disulfide	**0.0334** (0.0163)		8260B Low		1	03/26/15 15:12	CYC0308	CC52627
Carbon Tetrachloride	ND (0.0163)		8260B Low		1	03/26/15 15:12	CYC0308	CC52627
Chlorobenzene	ND (0.0163)		8260B Low		1	03/26/15 15:12	CYC0308	CC52627
Chloroethane	ND (0.0326)		8260B Low		1	03/26/15 15:12	CYC0308	CC52627
Chloroform	ND (0.0163)		8260B Low		1	03/26/15 15:12	CYC0308	CC52627
Chloromethane	ND (0.0326)		8260B Low		1	03/26/15 15:12	CYC0308	CC52627
cis-1,2-Dichloroethene	ND (0.0163)		8260B Low		1	03/26/15 15:12	CYC0308	CC52627
cis-1,3-Dichloropropene	ND (0.0163)		8260B Low		1	03/26/15 15:12	CYC0308	CC52627
Dibromochloromethane	ND (0.0065)		8260B Low		1	03/26/15 15:12	CYC0308	CC52627
Dibromomethane	ND (0.0163)		8260B Low		1	03/26/15 15:12	CYC0308	CC52627
Dichlorodifluoromethane	ND (0.0326)		8260B Low		1	03/26/15 15:12	CYC0308	CC52627
Diethyl Ether	ND (0.0163)		8260B Low		1	03/26/15 15:12	CYC0308	CC52627
Di-isopropyl ether	ND (0.0163)		8260B Low		1	03/26/15 15:12	CYC0308	CC52627
Ethyl tertiary-butyl ether	ND (0.0163)		8260B Low		1	03/26/15 15:12	CYC0308	CC52627
Ethylbenzene	ND (0.0163)		8260B Low		1	03/26/15 15:12	CYC0308	CC52627
Hexachlorobutadiene	ND (0.0163)		8260B Low		1	03/26/15 15:12	CYC0308	CC52627
Isopropylbenzene	ND (0.0163)		8260B Low		1	03/26/15 15:12	CYC0308	CC52627
Methyl tert-Butyl Ether	ND (0.0163)		8260B Low		1	03/26/15 15:12	CYC0308	CC52627
Methylene Chloride	ND (0.0326)		8260B Low		1	03/26/15 15:12	CYC0308	CC52627
Naphthalene	**0.0216** (0.0163)		8260B Low		1	03/26/15 15:12	CYC0308	CC52627
n-Butylbenzene	ND (0.0163)		8260B Low		1	03/26/15 15:12	CYC0308	CC52627
n-Propylbenzene	ND (0.0163)		8260B Low		1	03/26/15 15:12	CYC0308	CC52627
sec-Butylbenzene	ND (0.0163)		8260B Low		1	03/26/15 15:12	CYC0308	CC52627
Styrene	ND (0.0163)		8260B Low		1	03/26/15 15:12	CYC0308	CC52627
tert-Butylbenzene	ND (0.0163)		8260B Low		1	03/26/15 15:12	CYC0308	CC52627
Tertiary-amyl methyl ether	ND (0.0163)		8260B Low		1	03/26/15 15:12	CYC0308	CC52627
Tetrachloroethene	ND (0.0163)		8260B Low		1	03/26/15 15:12	CYC0308	CC52627
Tetrahydrofuran	ND (0.0163)		8260B Low		1	03/26/15 15:12	CYC0308	CC52627
Toluene	ND (0.0163)		8260B Low		1	03/26/15 15:12	CYC0308	CC52627

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-207 0ft-3ft
Date Sampled: 03/25/15 10:45
Percent Solids: 37
Initial Volume: 4.2
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1503447
ESS Laboratory Sample ID: 1503447-09
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
trans-1,2-Dichloroethene	ND (0.0163)		8260B Low		1	03/26/15 15:12	CYC0308	CC52627
trans-1,3-Dichloropropene	ND (0.0163)		8260B Low		1	03/26/15 15:12	CYC0308	CC52627
Trichloroethene	ND (0.0163)		8260B Low		1	03/26/15 15:12	CYC0308	CC52627
Trichlorofluoromethane	ND (0.0163)		8260B Low		1	03/26/15 15:12	CYC0308	CC52627
Vinyl Chloride	ND (0.0326)		8260B Low		1	03/26/15 15:12	CYC0308	CC52627
Xylene O	ND (0.0163)		8260B Low		1	03/26/15 15:12	CYC0308	CC52627
Xylene P,M	ND (0.0326)		8260B Low		1	03/26/15 15:12	CYC0308	CC52627
Xylenes (Total)	ND (0.0326)		8260B Low		1	03/26/15 15:12		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*85 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*80 %*		*70-130*
Surrogate: Dibromofluoromethane	*86 %*		*70-130*
Surrogate: Toluene-d8	*100 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-207 0ft-3ft
Date Sampled: 03/25/15 10:45
Percent Solids: 37
Initial Volume: 30.8
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503447
ESS Laboratory Sample ID: 1503447-09
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 3/30/15 12:52

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.444)		8270D		1	03/31/15 0:14	CYC0357	CD50205
1,2-Dichlorobenzene	ND (0.444)		8270D		1	03/31/15 0:14	CYC0357	CD50205
1,3-Dichlorobenzene	ND (0.444)		8270D		1	03/31/15 0:14	CYC0357	CD50205
1,4-Dichlorobenzene	ND (0.444)		8270D		1	03/31/15 0:14	CYC0357	CD50205
2,4,5-Trichlorophenol	ND (0.444)		8270D		1	03/31/15 0:14	CYC0357	CD50205
2,4,6-Trichlorophenol	ND (0.444)		8270D		1	03/31/15 0:14	CYC0357	CD50205
2,4-Dichlorophenol	ND (0.444)		8270D		1	03/31/15 0:14	CYC0357	CD50205
2,4-Dimethylphenol	ND (0.444)		8270D		1	03/31/15 0:14	CYC0357	CD50205
2,4-Dinitrophenol	ND (2.23)		8270D		1	03/31/15 0:14	CYC0357	CD50205
2,4-Dinitrotoluene	ND (0.444)		8270D		1	03/31/15 0:14	CYC0357	CD50205
2,6-Dinitrotoluene	ND (0.444)		8270D		1	03/31/15 0:14	CYC0357	CD50205
2-Chloronaphthalene	ND (0.444)		8270D		1	03/31/15 0:14	CYC0357	CD50205
2-Chlorophenol	ND (0.444)		8270D		1	03/31/15 0:14	CYC0357	CD50205
2-Methylphenol	ND (0.444)		8270D		1	03/31/15 0:14	CYC0357	CD50205
2-Nitrophenol	ND (0.444)		8270D		1	03/31/15 0:14	CYC0357	CD50205
3,3´-Dichlorobenzidine	ND (0.889)		8270D		1	03/31/15 0:14	CYC0357	CD50205
3+4-Methylphenol	ND (0.889)		8270D		1	03/31/15 0:14	CYC0357	CD50205
4-Bromophenyl-phenylether	ND (0.444)		8270D		1	03/31/15 0:14	CYC0357	CD50205
4-Chloroaniline	ND (0.889)		8270D		1	03/31/15 0:14	CYC0357	CD50205
4-Nitrophenol	ND (2.23)		8270D		1	03/31/15 0:14	CYC0357	CD50205
Acetophenone	ND (0.889)		8270D		1	03/31/15 0:14	CYC0357	CD50205
Aniline	ND (2.23)		8270D		1	03/31/15 0:14	CYC0357	CD50205
Azobenzene	ND (0.444)		8270D		1	03/31/15 0:14	CYC0357	CD50205
bis(2-Chloroethoxy)methane	ND (0.444)		8270D		1	03/31/15 0:14	CYC0357	CD50205
bis(2-Chloroethyl)ether	ND (0.444)		8270D		1	03/31/15 0:14	CYC0357	CD50205
bis(2-chloroisopropyl)Ether	ND (0.444)		8270D		1	03/31/15 0:14	CYC0357	CD50205
bis(2-Ethylhexyl)phthalate	**133** (44.4)		8270D		100	04/01/15 5:54	CYC0357	CD50205
Butylbenzylphthalate	ND (0.444)		8270D		1	03/31/15 0:14	CYC0357	CD50205
Dibenzofuran	ND (0.444)		8270D		1	03/31/15 0:14	CYC0357	CD50205
Diethylphthalate	ND (0.444)		8270D		1	03/31/15 0:14	CYC0357	CD50205
Dimethylphthalate	ND (0.444)		8270D		1	03/31/15 0:14	CYC0357	CD50205
Di-n-butylphthalate	ND (0.444)		8270D		1	03/31/15 0:14	CYC0357	CD50205

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-207 0ft-3ft
Date Sampled: 03/25/15 10:45
Percent Solids: 37
Initial Volume: 30.8
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503447
ESS Laboratory Sample ID: 1503447-09
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 3/30/15 12:52

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Di-n-octylphthalate	**6.22** (0.444)		8270D		1	03/31/15 0:14	CYC0357	CD50205
Hexachlorobenzene	ND (0.444)		8270D		1	03/31/15 0:14	CYC0357	CD50205
Hexachlorobutadiene	ND (0.444)		8270D		1	03/31/15 0:14	CYC0357	CD50205
Hexachloroethane	ND (0.444)		8270D		1	03/31/15 0:14	CYC0357	CD50205
Isophorone	ND (0.444)		8270D		1	03/31/15 0:14	CYC0357	CD50205
Nitrobenzene	ND (0.444)		8270D		1	03/31/15 0:14	CYC0357	CD50205
N-Nitrosodimethylamine	ND (0.444)		8270D		1	03/31/15 0:14	CYC0357	CD50205
Pentachlorophenol	ND (2.23)		8270D		1	03/31/15 0:14	CYC0357	CD50205
Phenol	ND (0.444)		8270D		1	03/31/15 0:14	CYC0357	CD50205

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*39 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*66 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*42 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*58 %*		*30-130*
Surrogate: 2-Fluorophenol	*37 %*		*30-130*
Surrogate: Nitrobenzene-d5	*42 %*		*30-130*
Surrogate: Phenol-d6	*43 %*		*30-130*
Surrogate: p-Terphenyl-d14	*82 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-207 0ft-3ft
Date Sampled: 03/25/15 10:45
Percent Solids: 37

ESS Laboratory Work Order: 1503447
ESS Laboratory Sample ID: 1503447-09
Sample Matrix: Soil

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Corrosivity (pH)	**H 8.03** (N/A)		9045		1	JLK	03/27/15 10:44	S.U.	CC52721
Corrosivity (pH) Sample Temp	**Soil pH measured in water at 16.3 ºC.**								
Eh (ORP)	**H, WL 164** (N/A)		2580		1	JLK	03/27/15 10:44	mv	CC52722
Grain Size	**See Attached** (N/A)								
Hexavalent Chromium	ND (1.1)		7196A		1	JLK	03/28/15 11:00	mg/kg dry	CC52807
Percent Water	**See Attached** (N/A)								
Reactive Cyanide	ND (2.0)		7.3.3.2		1	JLK	03/30/15 11:05	mg/kg	CC53003
Reactive Sulfide	ND (2.0)		7.3.4.1		1	JLK	03/30/15 11:05	mg/kg	CC53003

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-207 0ft-3ft
Date Sampled: 03/25/15 10:45
Percent Solids: 37
Initial Volume: 30
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1503447
ESS Laboratory Sample ID: 1503447-09
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 3/27/15 17:04

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	**228** (34.2)		MADEP-EPH		1	DPS	03/30/15 20:42	CYC0346	CC52711
C19-C36 Aliphatics1	**142** (34.2)		MADEP-EPH		1	DPS	03/30/15 20:42	CYC0346	CC52711
C11-C22 Unadjusted Aromatics1	**894** (34.2)		EPH8270		1	VSC	03/30/15 19:44	CYC0347	CC52711
C11-C22 Aromatics1,2	**894** (34.2)		EPH8270			VSC	03/30/15 19:44		[CALC]

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1-Chlorooctadecane	*67 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*102 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*98 %*		*40-140*
Surrogate: O-Terphenyl	*85 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-206 0ft-0.5ft
Date Sampled: 03/25/15 11:10
Percent Solids: 31
Initial Volume: 30.2
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503447
ESS Laboratory Sample ID: 1503447-10
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 3/30/15 12:52

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.536)		8270D		1	04/01/15 14:47	CYD0001	CD50205
1,2-Dichlorobenzene	ND (0.536)		8270D		1	04/01/15 14:47	CYD0001	CD50205
1,3-Dichlorobenzene	ND (0.536)		8270D		1	04/01/15 14:47	CYD0001	CD50205
1,4-Dichlorobenzene	ND (0.536)		8270D		1	04/01/15 14:47	CYD0001	CD50205
2,4,5-Trichlorophenol	ND (0.536)		8270D		1	04/01/15 14:47	CYD0001	CD50205
2,4,6-Trichlorophenol	ND (0.536)		8270D		1	04/01/15 14:47	CYD0001	CD50205
2,4-Dichlorophenol	ND (0.536)		8270D		1	04/01/15 14:47	CYD0001	CD50205
2,4-Dimethylphenol	ND (0.536)		8270D		1	04/01/15 14:47	CYD0001	CD50205
2,4-Dinitrophenol	ND (2.69)		8270D		1	04/01/15 14:47	CYD0001	CD50205
2,4-Dinitrotoluene	ND (0.536)		8270D		1	04/01/15 14:47	CYD0001	CD50205
2,6-Dinitrotoluene	ND (0.536)		8270D		1	04/01/15 14:47	CYD0001	CD50205
2-Chloronaphthalene	ND (0.536)		8270D		1	04/01/15 14:47	CYD0001	CD50205
2-Chlorophenol	ND (0.536)		8270D		1	04/01/15 14:47	CYD0001	CD50205
2-Methylphenol	ND (0.536)		8270D		1	04/01/15 14:47	CYD0001	CD50205
2-Nitrophenol	ND (0.536)		8270D		1	04/01/15 14:47	CYD0001	CD50205
3,3´-Dichlorobenzidine	ND (1.07)		8270D		1	04/01/15 14:47	CYD0001	CD50205
3+4-Methylphenol	ND (1.07)		8270D		1	04/01/15 14:47	CYD0001	CD50205
4-Bromophenyl-phenylether	ND (0.536)		8270D		1	04/01/15 14:47	CYD0001	CD50205
4-Chloroaniline	ND (1.07)		8270D		1	04/01/15 14:47	CYD0001	CD50205
4-Nitrophenol	ND (2.69)		8270D		1	04/01/15 14:47	CYD0001	CD50205
Acetophenone	ND (1.07)		8270D		1	04/01/15 14:47	CYD0001	CD50205
Aniline	ND (2.69)		8270D		1	04/01/15 14:47	CYD0001	CD50205
Azobenzene	ND (0.536)		8270D		1	04/01/15 14:47	CYD0001	CD50205
bis(2-Chloroethoxy)methane	ND (0.536)		8270D		1	04/01/15 14:47	CYD0001	CD50205
bis(2-Chloroethyl)ether	ND (0.536)		8270D		1	04/01/15 14:47	CYD0001	CD50205
bis(2-chloroisopropyl)Ether	ND (0.536)		8270D		1	04/01/15 14:47	CYD0001	CD50205
bis(2-Ethylhexyl)phthalate	**0.859** (0.536)		8270D		1	04/01/15 14:47	CYD0001	CD50205
Butylbenzylphthalate	ND (0.536)		8270D		1	04/01/15 14:47	CYD0001	CD50205
Dibenzofuran	ND (0.536)		8270D		1	04/01/15 14:47	CYD0001	CD50205
Diethylphthalate	ND (0.536)		8270D		1	04/01/15 14:47	CYD0001	CD50205
Dimethylphthalate	ND (0.536)		8270D		1	04/01/15 14:47	CYD0001	CD50205
Di-n-butylphthalate	ND (0.536)		8270D		1	04/01/15 14:47	CYD0001	CD50205

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-206 0ft-0.5ft
Date Sampled: 03/25/15 11:10
Percent Solids: 31
Initial Volume: 30.2
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503447
ESS Laboratory Sample ID: 1503447-10
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 3/30/15 12:52

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Di-n-octylphthalate	ND (0.536)		8270D		1	04/01/15 14:47	CYD0001	CD50205
Hexachlorobenzene	ND (0.536)		8270D		1	04/01/15 14:47	CYD0001	CD50205
Hexachlorobutadiene	ND (0.536)		8270D		1	04/01/15 14:47	CYD0001	CD50205
Hexachloroethane	ND (0.536)		8270D		1	04/01/15 14:47	CYD0001	CD50205
Isophorone	ND (0.536)		8270D		1	04/01/15 14:47	CYD0001	CD50205
Nitrobenzene	ND (0.536)		8270D		1	04/01/15 14:47	CYD0001	CD50205
N-Nitrosodimethylamine	ND (0.536)		8270D		1	04/01/15 14:47	CYD0001	CD50205
Pentachlorophenol	ND (2.69)		8270D		1	04/01/15 14:47	CYD0001	CD50205
Phenol	ND (0.536)		8270D		1	04/01/15 14:47	CYD0001	CD50205

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*44 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*61 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*47 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*52 %*		*30-130*
Surrogate: 2-Fluorophenol	*44 %*		*30-130*
Surrogate: Nitrobenzene-d5	*46 %*		*30-130*
Surrogate: Phenol-d6	*51 %*		*30-130*
Surrogate: p-Terphenyl-d14	*63 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-206 0ft-0.5ft
Date Sampled: 03/25/15 11:10
Percent Solids: 31
Initial Volume: 20.1
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503447
ESS Laboratory Sample ID: 1503447-10
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 3/28/15 12:00

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	ND (0.040)		8270D		1	04/01/15 12:00	CYC0376	CC52823
Acenaphthene	**0.040** (0.016)		8270D		1	04/01/15 12:00	CYC0376	CC52823
Acenaphthylene	**0.413** (0.040)		8270D		1	04/01/15 12:00	CYC0376	CC52823
Anthracene	**0.974** (0.040)		8270D		1	04/01/15 12:00	CYC0376	CC52823
Benzo(a)anthracene	**0.948** (0.040)		8270D		1	04/01/15 12:00	CYC0376	CC52823
Benzo(a)pyrene	**1.30** (0.040)		8270D		1	04/01/15 12:00	CYC0376	CC52823
Benzo(b)fluoranthene	**1.46** (0.040)		8270D		1	04/01/15 12:00	CYC0376	CC52823
Benzo(g,h,i)perylene	**0.818** (0.040)		8270D		1	04/01/15 12:00	CYC0376	CC52823
Benzo(k)fluoranthene	**0.440** (0.040)		8270D		1	04/01/15 12:00	CYC0376	CC52823
Chrysene	**1.14** (0.040)		8270D		1	04/01/15 12:00	CYC0376	CC52823
Dibenzo(a,h)Anthracene	**0.173** (0.040)		8270D		1	04/01/15 12:00	CYC0376	CC52823
Fluoranthene	**2.06** (0.040)		8270D		1	04/01/15 12:00	CYC0376	CC52823
Fluorene	**0.088** (0.040)		8270D		1	04/01/15 12:00	CYC0376	CC52823
Hexachlorobenzene	ND (0.016)		8270D		1	04/01/15 12:00	CYC0376	CC52823
Indeno(1,2,3-cd)Pyrene	**0.846** (0.040)		8270D		1	04/01/15 12:00	CYC0376	CC52823
Naphthalene	**0.149** (0.040)		8270D		1	04/01/15 12:00	CYC0376	CC52823
Phenanthrene	**0.542** (0.040)		8270D		1	04/01/15 12:00	CYC0376	CC52823
Pyrene	**3.20** (0.040)		8270D		1	04/01/15 12:00	CYC0376	CC52823

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*27 %*	*S-*	*30-130*
Surrogate: 2-Fluorobiphenyl	*44 %*		*30-130*
Surrogate: Nitrobenzene-d5	*35 %*		*30-130*
Surrogate: p-Terphenyl-d14	*56 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-206 0ft-0.5ft
Date Sampled: 03/25/15 11:10
Percent Solids: 31
Initial Volume: 30.1
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1503447
ESS Laboratory Sample ID: 1503447-10
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 3/27/15 17:04

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (40.4)		MADEP-EPH		1	DPS	03/30/15 21:33	CYC0346	CC52711
C19-C36 Aliphatics1	**92.8** (40.4)		MADEP-EPH		1	DPS	03/30/15 21:33	CYC0346	CC52711
C11-C22 Unadjusted Aromatics1	ND (40.4)		EPH8270		1	VSC	03/30/15 20:18	CYC0347	CC52711
C11-C22 Aromatics1,2	ND (40.4)		EPH8270			VSC	03/30/15 20:18		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*53 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*110 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*112 %*		*40-140*
Surrogate: O-Terphenyl	*67 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-206 4ft-6ft
Date Sampled: 03/25/15 11:10
Percent Solids: 61
Initial Volume: 30.2
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503447
ESS Laboratory Sample ID: 1503447-11
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 3/30/15 12:52

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.273)		8270D		1	03/31/15 1:18	CYC0357	CD50205
1,2-Dichlorobenzene	ND (0.273)		8270D		1	03/31/15 1:18	CYC0357	CD50205
1,3-Dichlorobenzene	ND (0.273)		8270D		1	03/31/15 1:18	CYC0357	CD50205
1,4-Dichlorobenzene	ND (0.273)		8270D		1	03/31/15 1:18	CYC0357	CD50205
2,4,5-Trichlorophenol	ND (0.273)		8270D		1	03/31/15 1:18	CYC0357	CD50205
2,4,6-Trichlorophenol	ND (0.273)		8270D		1	03/31/15 1:18	CYC0357	CD50205
2,4-Dichlorophenol	ND (0.273)		8270D		1	03/31/15 1:18	CYC0357	CD50205
2,4-Dimethylphenol	ND (0.273)		8270D		1	03/31/15 1:18	CYC0357	CD50205
2,4-Dinitrophenol	ND (1.37)		8270D		1	03/31/15 1:18	CYC0357	CD50205
2,4-Dinitrotoluene	ND (0.273)		8270D		1	03/31/15 1:18	CYC0357	CD50205
2,6-Dinitrotoluene	ND (0.273)		8270D		1	03/31/15 1:18	CYC0357	CD50205
2-Chloronaphthalene	ND (0.273)		8270D		1	03/31/15 1:18	CYC0357	CD50205
2-Chlorophenol	ND (0.273)		8270D		1	03/31/15 1:18	CYC0357	CD50205
2-Methylphenol	ND (0.273)		8270D		1	03/31/15 1:18	CYC0357	CD50205
2-Nitrophenol	ND (0.273)		8270D		1	03/31/15 1:18	CYC0357	CD50205
3,3´-Dichlorobenzidine	ND (0.547)		8270D		1	03/31/15 1:18	CYC0357	CD50205
3+4-Methylphenol	ND (0.547)		8270D		1	03/31/15 1:18	CYC0357	CD50205
4-Bromophenyl-phenylether	ND (0.273)		8270D		1	03/31/15 1:18	CYC0357	CD50205
4-Chloroaniline	ND (0.547)		8270D		1	03/31/15 1:18	CYC0357	CD50205
4-Nitrophenol	ND (1.37)		8270D		1	03/31/15 1:18	CYC0357	CD50205
Acetophenone	ND (0.547)		8270D		1	03/31/15 1:18	CYC0357	CD50205
Aniline	ND (1.37)		8270D		1	03/31/15 1:18	CYC0357	CD50205
Azobenzene	ND (0.273)		8270D		1	03/31/15 1:18	CYC0357	CD50205
bis(2-Chloroethoxy)methane	ND (0.273)		8270D		1	03/31/15 1:18	CYC0357	CD50205
bis(2-Chloroethyl)ether	ND (0.273)		8270D		1	03/31/15 1:18	CYC0357	CD50205
bis(2-chloroisopropyl)Ether	ND (0.273)		8270D		1	03/31/15 1:18	CYC0357	CD50205
bis(2-Ethylhexyl)phthalate	**32.5** (2.73)		8270D		10	04/01/15 6:29	CYC0357	CD50205
Butylbenzylphthalate	ND (0.273)		8270D		1	03/31/15 1:18	CYC0357	CD50205
Dibenzofuran	ND (0.273)		8270D		1	03/31/15 1:18	CYC0357	CD50205
Diethylphthalate	ND (0.273)		8270D		1	03/31/15 1:18	CYC0357	CD50205
Dimethylphthalate	ND (0.273)		8270D		1	03/31/15 1:18	CYC0357	CD50205
Di-n-butylphthalate	ND (0.273)		8270D		1	03/31/15 1:18	CYC0357	CD50205

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-206 4ft-6ft
Date Sampled: 03/25/15 11:10
Percent Solids: 61
Initial Volume: 30.2
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503447
ESS Laboratory Sample ID: 1503447-11
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 3/30/15 12:52

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Di-n-octylphthalate	ND (0.273)		8270D		1	03/31/15 1:18	CYC0357	CD50205
Hexachlorobenzene	ND (0.273)		8270D		1	03/31/15 1:18	CYC0357	CD50205
Hexachlorobutadiene	ND (0.273)		8270D		1	03/31/15 1:18	CYC0357	CD50205
Hexachloroethane	ND (0.273)		8270D		1	03/31/15 1:18	CYC0357	CD50205
Isophorone	ND (0.273)		8270D		1	03/31/15 1:18	CYC0357	CD50205
Nitrobenzene	ND (0.273)		8270D		1	03/31/15 1:18	CYC0357	CD50205
N-Nitrosodimethylamine	ND (0.273)		8270D		1	03/31/15 1:18	CYC0357	CD50205
Pentachlorophenol	ND (1.37)		8270D		1	03/31/15 1:18	CYC0357	CD50205
Phenol	ND (0.273)		8270D		1	03/31/15 1:18	CYC0357	CD50205

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*53 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*87 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*52 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*67 %*		*30-130*
Surrogate: 2-Fluorophenol	*49 %*		*30-130*
Surrogate: Nitrobenzene-d5	*53 %*		*30-130*
Surrogate: Phenol-d6	*52 %*		*30-130*
Surrogate: p-Terphenyl-d14	*91 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-206 4ft-6ft
Date Sampled: 03/25/15 11:10
Percent Solids: 61
Initial Volume: 20.6
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503447
ESS Laboratory Sample ID: 1503447-11
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 3/28/15 12:00

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	**0.055** (0.020)		8270D		1	04/01/15 12:49	CYC0376	CC52823
Acenaphthene	**0.430** (0.020)		8270D		1	04/01/15 12:49	CYC0376	CC52823
Acenaphthylene	**0.122** (0.020)		8270D		1	04/01/15 12:49	CYC0376	CC52823
Anthracene	**0.523** (0.020)		8270D		1	04/01/15 12:49	CYC0376	CC52823
Benzo(a)anthracene	**0.316** (0.020)		8270D		1	04/01/15 12:49	CYC0376	CC52823
Benzo(a)pyrene	**0.260** (0.020)		8270D		1	04/01/15 12:49	CYC0376	CC52823
Benzo(b)fluoranthene	**0.246** (0.020)		8270D		1	04/01/15 12:49	CYC0376	CC52823
Benzo(g,h,i)perylene	**0.103** (0.020)		8270D		1	04/01/15 12:49	CYC0376	CC52823
Benzo(k)fluoranthene	**0.055** (0.020)		8270D		1	04/01/15 12:49	CYC0376	CC52823
Chrysene	**0.315** (0.020)		8270D		1	04/01/15 12:49	CYC0376	CC52823
Dibenzo(a,h)Anthracene	**0.040** (0.020)		8270D		1	04/01/15 12:49	CYC0376	CC52823
Fluoranthene	**0.550** (0.020)		8270D		1	04/01/15 12:49	CYC0376	CC52823
Fluorene	**0.350** (0.020)		8270D		1	04/01/15 12:49	CYC0376	CC52823
Hexachlorobenzene	ND (0.008)		8270D		1	04/01/15 12:49	CYC0376	CC52823
Indeno(1,2,3-cd)Pyrene	**0.116** (0.020)		8270D		1	04/01/15 12:49	CYC0376	CC52823
Naphthalene	**0.178** (0.020)		8270D		1	04/01/15 12:49	CYC0376	CC52823
Phenanthrene	**1.37** (0.020)		8270D		1	04/01/15 12:49	CYC0376	CC52823
Pyrene	**0.754** (0.020)		8270D		1	04/01/15 12:49	CYC0376	CC52823

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*40 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*54 %*		*30-130*
Surrogate: Nitrobenzene-d5	*52 %*		*30-130*
Surrogate: p-Terphenyl-d14	*63 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-206 4ft-6ft
Date Sampled: 03/25/15 11:10
Percent Solids: 61
Initial Volume: 30.2
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1503447
ESS Laboratory Sample ID: 1503447-11
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 3/27/15 17:04

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	**165** (20.5)		MADEP-EPH		1	DPS	03/30/15 22:24	CYC0346	CC52711
C19-C36 Aliphatics1	**202** (20.5)		MADEP-EPH		1	DPS	03/30/15 22:24	CYC0346	CC52711
C11-C22 Unadjusted Aromatics1	**604** (20.5)		EPH8270		1	VSC	03/30/15 20:52	CYC0347	CC52711
C11-C22 Aromatics1,2	**598** (20.5)		EPH8270			VSC	03/30/15 20:52		[CALC]

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1-Chlorooctadecane	*58 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*109 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*101 %*		*40-140*
Surrogate: O-Terphenyl	*70 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-209 0ft-0.5ft
Date Sampled: 03/25/15 09:30
Percent Solids: 100

ESS Laboratory Work Order: 1503447
ESS Laboratory Sample ID: 1503447-12
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (1.23)		7010		5	KJK	04/02/15 0:00	2.04	100	CC52814
Arsenic	**38.6** (2.45)		6010C		1	KJK	03/30/15 19:33	2.04	100	CC52814
Barium	**63.4** (2.45)		6010C		1	KJK	03/30/15 19:33	2.04	100	CC52814
Beryllium	**0.64** (0.11)		6010C		1	KJK	03/30/15 19:33	2.04	100	CC52814
Cadmium	**0.74** (0.49)		6010C		1	KJK	03/30/15 19:33	2.04	100	CC52814
Chromium	**77.9** (0.98)		6010C		1	KJK	03/30/15 19:33	2.04	100	CC52814
Lead	**245** (4.90)		6010C		1	KJK	03/30/15 19:33	2.04	100	CC52814
Mercury	**1.03** (0.309)		7471B		10	JP	03/30/15 21:10	0.64	40	CC52815
Nickel	**22.4** (2.45)		6010C		1	KJK	03/30/15 19:33	2.04	100	CC52814
Selenium	ND (4.90)		6010C		1	KJK	03/30/15 19:33	2.04	100	CC52814
Silver	**1.23** (0.49)		6010C		1	KJK	03/30/15 19:33	2.04	100	CC52814
Thallium	ND (0.39)		7010		4	JP	04/06/15 23:09	2.04	100	CC52814
Vanadium	**74.6** (0.98)		6010C		1	KJK	03/30/15 19:33	2.04	100	CC52814
Zinc	**356** (2.45)		6010C		1	KJK	03/30/15 19:33	2.04	100	CC52814

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-209 2ft-4ft
Date Sampled: 03/25/15 09:30
Percent Solids: 100

ESS Laboratory Work Order: 1503447
ESS Laboratory Sample ID: 1503447-13
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (4.48)		6010C		1	KJK	03/30/15 20:12	2.23	100	CC52814
Arsenic	**62.2** (2.24)		6010C		1	KJK	03/30/15 20:12	2.23	100	CC52814
Barium	**61.6** (2.24)		6010C		1	KJK	03/30/15 20:12	2.23	100	CC52814
Beryllium	**0.67** (0.10)		6010C		1	KJK	03/30/15 20:12	2.23	100	CC52814
Cadmium	**1.88** (0.45)		6010C		1	KJK	03/30/15 20:12	2.23	100	CC52814
Chromium	**124** (0.90)		6010C		1	KJK	03/30/15 20:12	2.23	100	CC52814
Lead	**233** (4.48)		6010C		1	KJK	03/30/15 20:12	2.23	100	CC52814
Mercury	**0.167** (0.030)		7471B		1	JP	03/30/15 18:23	0.67	40	CC52815
Nickel	**17.8** (2.24)		6010C		1	KJK	03/30/15 20:12	2.23	100	CC52814
Selenium	ND (4.48)		6010C		1	KJK	03/30/15 20:12	2.23	100	CC52814
Silver	**1.49** (0.45)		6010C		1	KJK	03/30/15 20:12	2.23	100	CC52814
Thallium	ND (0.45)		7010		5	KJK	03/31/15 3:09	2.23	100	CC52814
Vanadium	**140** (0.90)		6010C		1	KJK	03/30/15 20:12	2.23	100	CC52814
Zinc	**297** (2.24)		6010C		1	KJK	03/30/15 20:12	2.23	100	CC52814

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-209 6ft-8ft
Date Sampled: 03/25/15 09:30
Percent Solids: 100

ESS Laboratory Work Order: 1503447
ESS Laboratory Sample ID: 1503447-14
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (3.95)		6010C		1	KJK	03/30/15 20:18	2.53	100	CC52814
Arsenic	**3.54** (1.98)		6010C		1	KJK	03/30/15 20:18	2.53	100	CC52814
Barium	**15.1** (1.98)		6010C		1	KJK	03/30/15 20:18	2.53	100	CC52814
Beryllium	**0.27** (0.09)		6010C		1	KJK	03/30/15 20:18	2.53	100	CC52814
Cadmium	ND (0.40)		6010C		1	KJK	03/30/15 20:18	2.53	100	CC52814
Chromium	**13.6** (0.79)		6010C		1	KJK	03/30/15 20:18	2.53	100	CC52814
Lead	ND (3.95)		6010C		1	KJK	03/30/15 20:18	2.53	100	CC52814
Mercury	ND (0.031)		7471B		1	JP	03/30/15 18:25	0.64	40	CC52815
Nickel	**8.32** (1.98)		6010C		1	KJK	03/30/15 20:18	2.53	100	CC52814
Selenium	ND (3.95)		6010C		1	KJK	03/30/15 20:18	2.53	100	CC52814
Silver	ND (0.40)		6010C		1	KJK	03/30/15 20:18	2.53	100	CC52814
Thallium	ND (0.40)		7010		5	KJK	03/31/15 3:15	2.53	100	CC52814
Vanadium	**19.1** (0.79)		6010C		1	KJK	03/30/15 20:18	2.53	100	CC52814
Zinc	**22.9** (1.98)		6010C		1	KJK	03/30/15 20:18	2.53	100	CC52814

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-208 0ft-0.5ft
Date Sampled: 03/25/15 10:00
Percent Solids: 100

ESS Laboratory Work Order: 1503447
ESS Laboratory Sample ID: 1503447-15
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (1.17)		7010		5	KJK	04/02/15 0:56	2.14	100	CC52814
Arsenic	**34.3** (2.34)		6010C		1	KJK	03/30/15 20:22	2.14	100	CC52814
Barium	**58.9** (2.34)		6010C		1	KJK	03/30/15 20:22	2.14	100	CC52814
Beryllium	**0.58** (0.10)		6010C		1	KJK	03/30/15 20:22	2.14	100	CC52814
Cadmium	**0.65** (0.47)		6010C		1	KJK	03/30/15 20:22	2.14	100	CC52814
Chromium	**71.1** (0.93)		6010C		1	KJK	03/30/15 20:22	2.14	100	CC52814
Lead	**218** (4.67)		6010C		1	KJK	03/30/15 20:22	2.14	100	CC52814
Mercury	**0.368** (0.030)		7471B		1	JP	03/30/15 18:30	0.67	40	CC52815
Nickel	**20.9** (2.34)		6010C		1	KJK	03/30/15 20:22	2.14	100	CC52814
Selenium	ND (4.67)		6010C		1	KJK	03/30/15 20:22	2.14	100	CC52814
Silver	**1.10** (0.47)		6010C		1	KJK	03/30/15 20:22	2.14	100	CC52814
Thallium	ND (0.47)		7010		5	KJK	03/31/15 3:21	2.14	100	CC52814
Vanadium	**68.7** (0.93)		6010C		1	KJK	03/30/15 20:22	2.14	100	CC52814
Zinc	**325** (2.34)		6010C		1	KJK	03/30/15 20:22	2.14	100	CC52814

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-208 4ft-6ft
Date Sampled: 03/25/15 10:00
Percent Solids: 100

ESS Laboratory Work Order: 1503447
ESS Laboratory Sample ID: 1503447-16
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (1.24)		7010		5	KJK	04/02/15 1:02	2.01	100	CC52814
Arsenic	**36.1** (2.49)		6010C		1	KJK	03/30/15 20:27	2.01	100	CC52814
Barium	**91.9** (2.49)		6010C		1	KJK	03/30/15 20:27	2.01	100	CC52814
Beryllium	**1.01** (0.11)		6010C		1	KJK	03/30/15 20:27	2.01	100	CC52814
Cadmium	**1.39** (0.50)		6010C		1	KJK	03/30/15 20:27	2.01	100	CC52814
Chromium	**89.5** (1.00)		6010C		1	KJK	03/30/15 20:27	2.01	100	CC52814
Lead	**187** (4.98)		6010C		1	KJK	03/30/15 20:27	2.01	100	CC52814
Mercury	**0.471** (0.030)		7471B		1	JP	03/30/15 18:31	0.67	40	CC52815
Nickel	**30.4** (2.49)		6010C		1	KJK	03/30/15 20:27	2.01	100	CC52814
Selenium	ND (4.98)		6010C		1	KJK	03/30/15 20:27	2.01	100	CC52814
Silver	**0.58** (0.50)		6010C		1	KJK	03/30/15 20:27	2.01	100	CC52814
Thallium	ND (0.40)		7010		4	JP	04/06/15 23:55	2.01	100	CC52814
Vanadium	**76.4** (1.00)		6010C		1	KJK	03/30/15 20:27	2.01	100	CC52814
Zinc	**302** (2.49)		6010C		1	KJK	03/30/15 20:27	2.01	100	CC52814

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-207 0ft-0.5ft
Date Sampled: 03/25/15 10:45
Percent Solids: 100

ESS Laboratory Work Order: 1503447
ESS Laboratory Sample ID: 1503447-17
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (1.24)		7010		5	KJK	04/02/15 1:08	2.02	100	CC52814
Arsenic	**37.6** (2.48)		6010C		1	KJK	03/30/15 20:33	2.02	100	CC52814
Barium	**63.0** (2.48)		6010C		1	KJK	03/30/15 20:33	2.02	100	CC52814
Beryllium	**0.62** (0.11)		6010C		1	KJK	03/30/15 20:33	2.02	100	CC52814
Cadmium	**0.80** (0.50)		6010C		1	KJK	03/30/15 20:33	2.02	100	CC52814
Chromium	**78.7** (0.99)		6010C		1	KJK	03/30/15 20:33	2.02	100	CC52814
Lead	**237** (4.95)		6010C		1	KJK	03/30/15 20:33	2.02	100	CC52814
Mercury	**0.668** (0.130)		7471B		5	JP	03/30/15 21:17	0.76	40	CC52815
Nickel	**22.9** (2.48)		6010C		1	KJK	03/30/15 20:33	2.02	100	CC52814
Selenium	ND (4.95)		6010C		1	KJK	03/30/15 20:33	2.02	100	CC52814
Silver	**1.25** (0.50)		6010C		1	KJK	03/30/15 20:33	2.02	100	CC52814
Thallium	ND (0.40)		7010		4	JP	04/07/15 0:00	2.02	100	CC52814
Vanadium	**77.5** (0.99)		6010C		1	KJK	03/30/15 20:33	2.02	100	CC52814
Zinc	**354** (2.48)		6010C		1	KJK	03/30/15 20:33	2.02	100	CC52814

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-207 4ft-6ft
Date Sampled: 03/25/15 10:45
Percent Solids: 100

ESS Laboratory Work Order: 1503447
ESS Laboratory Sample ID: 1503447-18
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	**1.22** (1.09)		7010		5	KJK	04/02/15 1:13	2.3	100	CC52814
Arsenic	**71.6** (2.17)		6010C		1	KJK	03/30/15 20:38	2.3	100	CC52814
Barium	**98.6** (2.17)		6010C		1	KJK	03/30/15 20:38	2.3	100	CC52814
Beryllium	**0.85** (0.10)		6010C		1	KJK	03/30/15 20:38	2.3	100	CC52814
Cadmium	**2.38** (0.43)		6010C		1	KJK	03/30/15 20:38	2.3	100	CC52814
Chromium	**114** (0.87)		6010C		1	KJK	03/30/15 20:38	2.3	100	CC52814
Lead	**296** (4.35)		6010C		1	KJK	03/30/15 20:38	2.3	100	CC52814
Mercury	**1.43** (0.291)		7471B		10	JP	03/30/15 21:19	0.68	40	CC52815
Nickel	**26.4** (2.17)		6010C		1	KJK	03/30/15 20:38	2.3	100	CC52814
Selenium	ND (4.35)		6010C		1	KJK	03/30/15 20:38	2.3	100	CC52814
Silver	**1.27** (0.43)		6010C		1	KJK	03/30/15 20:38	2.3	100	CC52814
Thallium	ND (0.43)		7010		5	KJK	03/31/15 3:50	2.3	100	CC52814
Vanadium	**104** (0.87)		6010C		1	KJK	03/30/15 20:38	2.3	100	CC52814
Zinc	**402** (2.17)		6010C		1	KJK	03/30/15 20:38	2.3	100	CC52814

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-207 6ft-7.5ft
Date Sampled: 03/25/15 10:45
Percent Solids: 100

ESS Laboratory Work Order: 1503447
ESS Laboratory Sample ID: 1503447-19
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (1.11)		7010		5	KJK	04/02/15 1:19	2.26	100	CC52814
Arsenic	**6.18** (2.21)		6010C		1	KJK	03/30/15 20:44	2.26	100	CC52814
Barium	**22.8** (2.21)		6010C		1	KJK	03/30/15 20:44	2.26	100	CC52814
Beryllium	**0.40** (0.10)		6010C		1	KJK	03/30/15 20:44	2.26	100	CC52814
Cadmium	ND (0.44)		6010C		1	KJK	03/30/15 20:44	2.26	100	CC52814
Chromium	**20.3** (0.88)		6010C		1	KJK	03/30/15 20:44	2.26	100	CC52814
Lead	**6.79** (4.42)		6010C		1	KJK	03/30/15 20:44	2.26	100	CC52814
Mercury	ND (0.024)		7471B		1	JP	03/30/15 18:36	0.83	40	CC52815
Nickel	**12.0** (2.21)		6010C		1	KJK	03/30/15 20:44	2.26	100	CC52814
Selenium	ND (4.42)		6010C		1	KJK	03/30/15 20:44	2.26	100	CC52814
Silver	ND (0.44)		6010C		1	KJK	03/30/15 20:44	2.26	100	CC52814
Thallium	ND (0.44)		7010		5	KJK	03/31/15 3:56	2.26	100	CC52814
Vanadium	**27.1** (0.88)		6010C		1	KJK	03/30/15 20:44	2.26	100	CC52814
Zinc	**33.7** (2.21)		6010C		1	KJK	03/30/15 20:44	2.26	100	CC52814

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-207 0ft-3ft
Date Sampled: 03/25/15 10:45
Percent Solids: 100

ESS Laboratory Work Order: 1503447
ESS Laboratory Sample ID: 1503447-20
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (1.23)		7010		5	KJK	04/02/15 1:25	2.03	100	CC52814
Arsenic	**44.9** (2.46)		6010C		1	KJK	03/30/15 20:48	2.03	100	CC52814
Barium	**71.3** (2.46)		6010C		1	KJK	03/30/15 20:48	2.03	100	CC52814
Beryllium	**0.73** (0.11)		6010C		1	KJK	03/30/15 20:48	2.03	100	CC52814
Cadmium	**1.18** (0.49)		6010C		1	KJK	03/30/15 20:48	2.03	100	CC52814
Chromium	**95.8** (0.99)		6010C		1	KJK	03/30/15 20:48	2.03	100	CC52814
Lead	**261** (4.93)		6010C		1	KJK	03/30/15 20:48	2.03	100	CC52814
Mercury	**0.482** (0.032)		7471B		1	JP	03/30/15 18:38	0.62	40	CC52815
Nickel	**30.3** (2.46)		6010C		1	KJK	03/30/15 20:48	2.03	100	CC52814
Selenium	ND (4.93)		6010C		1	KJK	03/30/15 20:48	2.03	100	CC52814
Silver	**1.71** (0.49)		6010C		1	KJK	03/30/15 20:48	2.03	100	CC52814
Thallium	ND (0.39)		7010		4	JP	04/07/15 0:06	2.03	100	CC52814
Vanadium	**104** (0.99)		6010C		1	KJK	03/30/15 20:48	2.03	100	CC52814
Zinc	**367** (2.46)		6010C		1	KJK	03/30/15 20:48	2.03	100	CC52814

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-206 0ft-0.5ft
Date Sampled: 03/25/15 11:10
Percent Solids: 100

ESS Laboratory Work Order: 1503447
ESS Laboratory Sample ID: 1503447-21
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (1.18)		7010		5	KJK	04/02/15 1:30	2.11	100	CC52814
Arsenic	**34.2** (2.37)		6010C		1	KJK	03/30/15 20:54	2.11	100	CC52814
Barium	**65.2** (2.37)		6010C		1	KJK	03/30/15 20:54	2.11	100	CC52814
Beryllium	**0.64** (0.10)		6010C		1	KJK	03/30/15 20:54	2.11	100	CC52814
Cadmium	**0.90** (0.47)		6010C		1	KJK	03/30/15 20:54	2.11	100	CC52814
Chromium	**81.8** (0.95)		6010C		1	KJK	03/30/15 20:54	2.11	100	CC52814
Lead	**238** (4.74)		6010C		1	KJK	03/30/15 20:54	2.11	100	CC52814
Mercury	**0.935** (0.248)		7471B		10	JP	03/30/15 21:20	0.8	40	CC52815
Nickel	**24.0** (2.37)		6010C		1	KJK	03/30/15 20:54	2.11	100	CC52814
Selenium	ND (4.74)		6010C		1	KJK	03/30/15 20:54	2.11	100	CC52814
Silver	**1.35** (0.47)		6010C		1	KJK	03/30/15 20:54	2.11	100	CC52814
Thallium	ND (0.47)		7010		5	KJK	03/31/15 4:07	2.11	100	CC52814
Vanadium	**78.8** (0.95)		6010C		1	KJK	03/30/15 20:54	2.11	100	CC52814
Zinc	**360** (2.37)		6010C		1	KJK	03/30/15 20:54	2.11	100	CC52814

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-206 4ft-6ft
Date Sampled: 03/25/15 11:10
Percent Solids: 100

ESS Laboratory Work Order: 1503447
ESS Laboratory Sample ID: 1503447-22
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (1.16)		7010		5	KJK	04/02/15 1:36	2.16	100	CC52814
Arsenic	**18.8** (2.31)		6010C		1	KJK	03/30/15 20:59	2.16	100	CC52814
Barium	**44.1** (2.31)		6010C		1	KJK	03/30/15 20:59	2.16	100	CC52814
Beryllium	**0.48** (0.10)		6010C		1	KJK	03/30/15 20:59	2.16	100	CC52814
Cadmium	**0.62** (0.46)		6010C		1	KJK	03/30/15 20:59	2.16	100	CC52814
Chromium	**44.7** (0.93)		6010C		1	KJK	03/30/15 20:59	2.16	100	CC52814
Lead	**93.4** (4.63)		6010C		1	KJK	03/30/15 20:59	2.16	100	CC52814
Mercury	**0.168** (0.031)		7471B		1	JP	03/30/15 18:41	0.63	40	CC52815
Nickel	**14.7** (2.31)		6010C		1	KJK	03/30/15 20:59	2.16	100	CC52814
Selenium	ND (4.63)		6010C		1	KJK	03/30/15 20:59	2.16	100	CC52814
Silver	ND (0.46)		6010C		1	KJK	03/30/15 20:59	2.16	100	CC52814
Thallium	ND (0.46)		7010		5	KJK	03/31/15 4:13	2.16	100	CC52814
Vanadium	**40.2** (0.93)		6010C		1	KJK	03/30/15 20:59	2.16	100	CC52814
Zinc	**143** (2.31)		6010C		1	KJK	03/30/15 20:59	2.16	100	CC52814

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-209 0ft-0.5ft
Date Sampled: 03/25/15 09:30
Percent Solids: 83
Initial Volume: 25.1
Final Volume: 2
Extraction Method: 3540C

ESS Laboratory Work Order: 1503447
ESS Laboratory Sample ID: 1503447-23
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 3/30/15 18:30
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0096)		8082A		1	03/31/15 18:27		CC53006
Aroclor 1221	ND (0.0096)		8082A		1	03/31/15 18:27		CC53006
Aroclor 1232	ND (0.0096)		8082A		1	03/31/15 18:27		CC53006
Aroclor 1242	ND (0.0096)		8082A		1	03/31/15 18:27		CC53006
Aroclor 1248	**P 0.231** (0.0479)		8082A		5	04/01/15 18:21		CC53006
Aroclor 1254	**0.473** (0.0479)		8082A		5	04/01/15 18:21		CC53006
Aroclor 1260	**0.232** (0.0479)		8082A		5	04/01/15 18:21		CC53006
Aroclor 1262	ND (0.0096)		8082A		1	03/31/15 18:27		CC53006
Aroclor 1268	ND (0.0096)		8082A		1	03/31/15 18:27		CC53006

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*119 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*61 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*62 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*61 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-209 2ft-4ft
Date Sampled: 03/25/15 09:30
Percent Solids: 84
Initial Volume: 25.8
Final Volume: 2
Extraction Method: 3540C

ESS Laboratory Work Order: 1503447
ESS Laboratory Sample ID: 1503447-24
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 3/30/15 18:30
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (2.31)		8082A		250	04/01/15 18:40		CC53006
Aroclor 1221	ND (2.31)		8082A		250	04/01/15 18:40		CC53006
Aroclor 1232	ND (2.31)		8082A		250	04/01/15 18:40		CC53006
Aroclor 1242	ND (2.31)		8082A		250	04/01/15 18:40		CC53006
Aroclor 1248	**20.3** (2.31)		8082A		250	04/01/15 18:40		CC53006
Aroclor 1254	ND (2.31)		8082A		250	04/01/15 18:40		CC53006
Aroclor 1260	ND (2.31)		8082A		250	04/01/15 18:40		CC53006
Aroclor 1262	ND (2.31)		8082A		250	04/01/15 18:40		CC53006
Aroclor 1268	ND (2.31)		8082A		250	04/01/15 18:40		CC53006

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	%	SD	30-150
Surrogate: Decachlorobiphenyl [2C]	%	SD	30-150
Surrogate: Tetrachloro-m-xylene	%	SD	30-150
Surrogate: Tetrachloro-m-xylene [2C]	%	SD	30-150

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-208 0ft-0.5ft
Date Sampled: 03/25/15 10:00
Percent Solids: 85
Initial Volume: 26
Final Volume: 2
Extraction Method: 3540C

ESS Laboratory Work Order: 1503447
ESS Laboratory Sample ID: 1503447-25
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 3/30/15 18:30
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0091)		8082A		1	03/31/15 20:59		CC53006
Aroclor 1221	ND (0.0091)		8082A		1	03/31/15 20:59		CC53006
Aroclor 1232	ND (0.0091)		8082A		1	03/31/15 20:59		CC53006
Aroclor 1242	ND (0.0091)		8082A		1	03/31/15 20:59		CC53006
Aroclor 1248	**LC, P 0.175** (0.0453)		8082A		5	04/01/15 19:00		CC53006
Aroclor 1254	**0.452** (0.0453)		8082A		5	04/01/15 19:00		CC53006
Aroclor 1260	**0.197** (0.0453)		8082A		5	04/01/15 19:00		CC53006
Aroclor 1262	ND (0.0091)		8082A		1	03/31/15 20:59		CC53006
Aroclor 1268	ND (0.0091)		8082A		1	03/31/15 20:59		CC53006

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*102 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*53 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*63 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*69 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-207 0ft-0.5ft
Date Sampled: 03/25/15 10:45
Percent Solids: 88
Initial Volume: 26.1
Final Volume: 2
Extraction Method: 3540C

ESS Laboratory Work Order: 1503447
ESS Laboratory Sample ID: 1503447-26
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 3/30/15 18:30
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0087)		8082A		1	03/31/15 21:18		CC53006
Aroclor 1221	ND (0.0087)		8082A		1	03/31/15 21:18		CC53006
Aroclor 1232	ND (0.0087)		8082A		1	03/31/15 21:18		CC53006
Aroclor 1242	ND (0.0087)		8082A		1	03/31/15 21:18		CC53006
Aroclor 1248	**P 0.489** (0.0866)		8082A		10	04/01/15 19:19		CC53006
Aroclor 1254	**0.692** (0.0866)		8082A		10	04/01/15 19:19		CC53006
Aroclor 1260	**0.261** (0.0866)		8082A		10	04/01/15 19:19		CC53006
Aroclor 1262	ND (0.0087)		8082A		1	03/31/15 21:18		CC53006
Aroclor 1268	ND (0.0087)		8082A		1	03/31/15 21:18		CC53006

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*115 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*51 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*69 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*71 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-207 0ft-3ft
Date Sampled: 03/25/15 10:45
Percent Solids: 70
Initial Volume: 25.8
Final Volume: 2
Extraction Method: 3540C

ESS Laboratory Work Order: 1503447
ESS Laboratory Sample ID: 1503447-27
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 3/30/15 18:30
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.557)		8082A		50	04/01/15 19:38		CC53006
Aroclor 1221	ND (0.557)		8082A		50	04/01/15 19:38		CC53006
Aroclor 1232	ND (0.557)		8082A		50	04/01/15 19:38		CC53006
Aroclor 1242	ND (0.557)		8082A		50	04/01/15 19:38		CC53006
Aroclor 1248	**6.42** (0.557)		8082A		50	04/01/15 19:38		CC53006
Aroclor 1254	**2.63** (0.557)		8082A		50	04/01/15 19:38		CC53006
Aroclor 1260	ND (0.557)		8082A		50	04/01/15 19:38		CC53006
Aroclor 1262	ND (0.557)		8082A		50	04/01/15 19:38		CC53006
Aroclor 1268	ND (0.557)		8082A		50	04/01/15 19:38		CC53006

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	%	SD	30-150
Surrogate: Decachlorobiphenyl [2C]	%	SD	30-150
Surrogate: Tetrachloro-m-xylene	%	SD	30-150
Surrogate: Tetrachloro-m-xylene [2C]	%	SD	30-150

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-206 0ft-0.5ft
Date Sampled: 03/25/15 11:10
Percent Solids: 60
Initial Volume: 27
Final Volume: 2
Extraction Method: 3540C

ESS Laboratory Work Order: 1503447
ESS Laboratory Sample ID: 1503447-28
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 3/30/15 18:30
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0123)		8082A		1	03/31/15 21:56		CC53006
Aroclor 1221	ND (0.0123)		8082A		1	03/31/15 21:56		CC53006
Aroclor 1232	ND (0.0123)		8082A		1	03/31/15 21:56		CC53006
Aroclor 1242	ND (0.0123)		8082A		1	03/31/15 21:56		CC53006
Aroclor 1248	**P 0.750** (0.123)		8082A		10	04/01/15 19:57		CC53006
Aroclor 1254	**1.10** (0.123)		8082A		10	04/01/15 19:57		CC53006
Aroclor 1260	**0.426** (0.123)		8082A		10	04/01/15 19:57		CC53006
Aroclor 1262	ND (0.0123)		8082A		1	03/31/15 21:56		CC53006
Aroclor 1268	ND (0.0123)		8082A		1	03/31/15 21:56		CC53006

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*128 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*56 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*68 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*68 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-206 4ft-6ft
Date Sampled: 03/25/15 11:10
Percent Solids: 98
Initial Volume: 26.7
Final Volume: 2
Extraction Method: 3540C

ESS Laboratory Work Order: 1503447
ESS Laboratory Sample ID: 1503447-29
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 3/30/15 18:30
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0076)		8082A		1	03/31/15 22:15		CC53006
Aroclor 1221	ND (0.0076)		8082A		1	03/31/15 22:15		CC53006
Aroclor 1232	ND (0.0076)		8082A		1	03/31/15 22:15		CC53006
Aroclor 1242	ND (0.0076)		8082A		1	03/31/15 22:15		CC53006
Aroclor 1248	**0.312** (0.0381)		8082A		5	04/01/15 20:16		CC53006
Aroclor 1254	**0.305** (0.0381)		8082A		5	04/01/15 20:16		CC53006
Aroclor 1260	**0.0897** (0.0076)		8082A		1	03/31/15 22:15		CC53006
Aroclor 1262	ND (0.0076)		8082A		1	03/31/15 22:15		CC53006
Aroclor 1268	ND (0.0076)		8082A		1	03/31/15 22:15		CC53006

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*79 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*70 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*68 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*60 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503447

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Total Metals										
Batch CC52814 - 3050B										
Blank										
Antimony	ND	5.00	mg/kg wet							
Antimony	ND	0.25	mg/kg wet							
Arsenic	ND	2.50	mg/kg wet							
Barium	ND	2.50	mg/kg wet							
Beryllium	ND	0.11	mg/kg wet							
Cadmium	ND	0.50	mg/kg wet							
Chromium	ND	1.00	mg/kg wet							
Lead	ND	5.00	mg/kg wet							
Nickel	ND	2.50	mg/kg wet							
Selenium	ND	5.00	mg/kg wet							
Silver	ND	0.50	mg/kg wet							
Thallium	ND	0.10	mg/kg wet							
Vanadium	ND	1.00	mg/kg wet							
Zinc	ND	2.50	mg/kg wet							
LCS										
Antimony	62.5	9.80	mg/kg wet	49.70		126	24-282			
Antimony	59.2	19.6	mg/kg wet	49.70		119	80-120			
Arsenic	128	9.80	mg/kg wet	133.0		97	80-120			
Barium	229	9.80	mg/kg wet	229.0		100	80-120			
Beryllium	90.8	0.43	mg/kg wet	95.80		95	80-120			
Cadmium	107	1.96	mg/kg wet	123.0		87	80-120			
Chromium	56.5	3.92	mg/kg wet	63.20		89	80-120			
Lead	101	19.6	mg/kg wet	108.0		94	80-120			
Nickel	262	9.80	mg/kg wet	285.0		92	80-120			
Selenium	72.4	19.6	mg/kg wet	81.40		89	80-120			
Silver	74.0	1.96	mg/kg wet	74.80		99	80-120			
Thallium	45.9	3.92	mg/kg wet	50.10		92	80-120			
Vanadium	136	3.92	mg/kg wet	148.0		92	80-120			
Zinc	182	9.80	mg/kg wet	203.0		90	80-120			
LCS Dup										
Antimony	55.5	8.93	mg/kg wet	49.70		112	24-282	12	20	
Antimony	54.1	17.9	mg/kg wet	49.70		109	80-120	9	20	
Arsenic	123	8.93	mg/kg wet	133.0		92	80-120	5	20	
Barium	190	8.93	mg/kg wet	229.0		83	80-120	19	20	
Beryllium	85.0	0.39	mg/kg wet	95.80		89	80-120	7	20	
Cadmium	100	1.79	mg/kg wet	123.0		81	80-120	7	20	
Chromium	52.3	3.57	mg/kg wet	63.20		83	80-120	8	20	
Lead	95.7	17.9	mg/kg wet	108.0		89	80-120	6	20	
Nickel	243	8.93	mg/kg wet	285.0		85	80-120	8	20	
Selenium	67.4	17.9	mg/kg wet	81.40		83	80-120	7	20	
Silver	69.1	1.79	mg/kg wet	74.80		92	80-120	7	20	
Thallium	44.5	3.57	mg/kg wet	50.10		89	80-120	3	20	
Vanadium	131	3.57	mg/kg wet	148.0		88	80-120	4	20	
Zinc	171	8.93	mg/kg wet	203.0		84	80-120	6	20	

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503447

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Total Metals										
Batch CC52815 - 7471A										
Blank										
Mercury	ND	0.033	mg/kg wet							
LCS										
Mercury	30.0	3.74	mg/kg wet	24.90		120	51-149			
LCS Dup										
Mercury	30.1	3.19	mg/kg wet	24.90		121	51-149	0.6	20	
5035/8260B Volatile Organic Compounds / Low Level										
Batch CC52627 - 5035										
Blank										
1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet							
1,1,1-Trichloroethane	ND	0.0050	mg/kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0020	mg/kg wet							
1,1,2-Trichloroethane	ND	0.0050	mg/kg wet							
1,1-Dichloroethane	ND	0.0050	mg/kg wet							
1,1-Dichloroethene	ND	0.0050	mg/kg wet							
1,1-Dichloropropene	ND	0.0050	mg/kg wet							
1,2,3-Trichlorobenzene	ND	0.0050	mg/kg wet							
1,2,3-Trichloropropane	ND	0.0050	mg/kg wet							
1,2,4-Trichlorobenzene	ND	0.0050	mg/kg wet							
1,2,4-Trimethylbenzene	ND	0.0050	mg/kg wet							
1,2-Dibromo-3-Chloropropane	ND	0.0050	mg/kg wet							
1,2-Dibromoethane	ND	0.0050	mg/kg wet							
1,2-Dichlorobenzene	ND	0.0050	mg/kg wet							
1,2-Dichloroethane	ND	0.0050	mg/kg wet							
1,2-Dichloropropane	ND	0.0050	mg/kg wet							
1,3,5-Trimethylbenzene	ND	0.0050	mg/kg wet							
1,3-Dichlorobenzene	ND	0.0050	mg/kg wet							
1,3-Dichloropropane	ND	0.0050	mg/kg wet							
1,4-Dichlorobenzene	ND	0.0050	mg/kg wet							
1,4-Dioxane	ND	0.100	mg/kg wet							
2,2-Dichloropropane	ND	0.0050	mg/kg wet							
2-Butanone	ND	0.0100	mg/kg wet							
2-Chlorotoluene	ND	0.0050	mg/kg wet							
2-Hexanone	ND	0.0100	mg/kg wet							
4-Chlorotoluene	ND	0.0050	mg/kg wet							
4-Isopropyltoluene	ND	0.0050	mg/kg wet							
4-Methyl-2-Pentanone	ND	0.0100	mg/kg wet							
Acetone	ND	0.0100	mg/kg wet							
Benzene	ND	0.0050	mg/kg wet							
Bromobenzene	ND	0.0050	mg/kg wet							
Bromochloromethane	ND	0.0050	mg/kg wet							
Bromodichloromethane	ND	0.0050	mg/kg wet							
Bromoform	ND	0.0050	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503447

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch CC52627 - 5035										
Bromomethane	ND	0.0100	mg/kg wet							
Carbon Disulfide	ND	0.0050	mg/kg wet							
Carbon Tetrachloride	ND	0.0050	mg/kg wet							
Chlorobenzene	ND	0.0050	mg/kg wet							
Chloroethane	ND	0.0100	mg/kg wet							
Chloroform	ND	0.0050	mg/kg wet							
Chloromethane	ND	0.0100	mg/kg wet							
cis-1,2-Dichloroethene	ND	0.0050	mg/kg wet							
cis-1,3-Dichloropropene	ND	0.0050	mg/kg wet							
Dibromochloromethane	ND	0.0020	mg/kg wet							
Dibromomethane	ND	0.0050	mg/kg wet							
Dichlorodifluoromethane	ND	0.0100	mg/kg wet							
Diethyl Ether	ND	0.0050	mg/kg wet							
Di-isopropyl ether	ND	0.0050	mg/kg wet							
Ethyl tertiary-butyl ether	ND	0.0050	mg/kg wet							
Ethylbenzene	ND	0.0050	mg/kg wet							
Hexachlorobutadiene	ND	0.0050	mg/kg wet							
Isopropylbenzene	ND	0.0050	mg/kg wet							
Methyl tert-Butyl Ether	ND	0.0050	mg/kg wet							
Methylene Chloride	ND	0.0100	mg/kg wet							
Naphthalene	ND	0.0050	mg/kg wet							
n-Butylbenzene	ND	0.0050	mg/kg wet							
n-Propylbenzene	ND	0.0050	mg/kg wet							
sec-Butylbenzene	ND	0.0050	mg/kg wet							
Styrene	ND	0.0050	mg/kg wet							
tert-Butylbenzene	ND	0.0050	mg/kg wet							
Tertiary-amyl methyl ether	ND	0.0050	mg/kg wet							
Tetrachloroethene	ND	0.0050	mg/kg wet							
Tetrahydrofuran	ND	0.0050	mg/kg wet							
Toluene	ND	0.0050	mg/kg wet							
trans-1,2-Dichloroethene	ND	0.0050	mg/kg wet							
trans-1,3-Dichloropropene	ND	0.0050	mg/kg wet							
Trichloroethene	ND	0.0050	mg/kg wet							
Trichlorofluoromethane	ND	0.0050	mg/kg wet							
Vinyl Chloride	ND	0.0100	mg/kg wet							
Xylene O	ND	0.0050	mg/kg wet							
Xylene P,M	ND	0.0100	mg/kg wet							
Surrogate: 1,2-Dichloroethane-d4	*0.0484*		mg/kg wet	*0.05000*		*97*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.0461*		mg/kg wet	*0.05000*		*92*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0447*		mg/kg wet	*0.05000*		*89*	*70-130*			
Surrogate: Toluene-d8	*0.0466*		mg/kg wet	*0.05000*		*93*	*70-130*			
LCS										
1,1,1,2-Tetrachloroethane	0.0567	0.0050	mg/kg wet	0.05000		113	70-130			
1,1,1-Trichloroethane	0.0535	0.0050	mg/kg wet	0.05000		107	70-130			
1,1,2,2-Tetrachloroethane	0.0496	0.0020	mg/kg wet	0.05000		99	70-130			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
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ESS Laboratory Work Order: 1503447

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch CC52627 - 5035										
1,1,2-Trichloroethane	0.0477	0.0050	mg/kg wet	0.05000		95	70-130			
1,1-Dichloroethane	0.0470	0.0050	mg/kg wet	0.05000		94	70-130			
1,1-Dichloroethene	0.0459	0.0050	mg/kg wet	0.05000		92	70-130			
1,1-Dichloropropene	0.0460	0.0050	mg/kg wet	0.05000		92	70-130			
1,2,3-Trichlorobenzene	0.0533	0.0050	mg/kg wet	0.05000		107	70-130			
1,2,3-Trichloropropane	0.0539	0.0050	mg/kg wet	0.05000		108	70-130			
1,2,4-Trichlorobenzene	0.0518	0.0050	mg/kg wet	0.05000		104	70-130			
1,2,4-Trimethylbenzene	0.0496	0.0050	mg/kg wet	0.05000		99	70-130			
1,2-Dibromo-3-Chloropropane	0.0544	0.0050	mg/kg wet	0.05000		109	70-130			
1,2-Dibromoethane	0.0528	0.0050	mg/kg wet	0.05000		106	70-130			
1,2-Dichlorobenzene	0.0503	0.0050	mg/kg wet	0.05000		101	70-130			
1,2-Dichloroethane	0.0494	0.0050	mg/kg wet	0.05000		99	70-130			
1,2-Dichloropropane	0.0456	0.0050	mg/kg wet	0.05000		91	70-130			
1,3,5-Trimethylbenzene	0.0518	0.0050	mg/kg wet	0.05000		104	70-130			
1,3-Dichlorobenzene	0.0502	0.0050	mg/kg wet	0.05000		100	70-130			
1,3-Dichloropropane	0.0535	0.0050	mg/kg wet	0.05000		107	70-130			
1,4-Dichlorobenzene	0.0512	0.0050	mg/kg wet	0.05000		102	70-130			
1,4-Dioxane	0.890	0.100	mg/kg wet	1.000		89	70-130			
2,2-Dichloropropane	0.0549	0.0050	mg/kg wet	0.05000		110	70-130			
2-Butanone	0.239	0.0100	mg/kg wet	0.2500		95	70-130			
2-Chlorotoluene	0.0501	0.0050	mg/kg wet	0.05000		100	70-130			
2-Hexanone	0.279	0.0100	mg/kg wet	0.2500		112	70-130			
4-Chlorotoluene	0.0505	0.0050	mg/kg wet	0.05000		101	70-130			
4-Isopropyltoluene	0.0502	0.0050	mg/kg wet	0.05000		100	70-130			
4-Methyl-2-Pentanone	0.246	0.0100	mg/kg wet	0.2500		98	70-130			
Acetone	0.277	0.0100	mg/kg wet	0.2500		111	70-130			
Benzene	0.0473	0.0050	mg/kg wet	0.05000		95	70-130			
Bromobenzene	0.0515	0.0050	mg/kg wet	0.05000		103	70-130			
Bromochloromethane	0.0493	0.0050	mg/kg wet	0.05000		99	70-130			
Bromodichloromethane	0.0522	0.0050	mg/kg wet	0.05000		104	70-130			
Bromoform	0.0548	0.0050	mg/kg wet	0.05000		110	70-130			
Bromomethane	0.0927	0.0100	mg/kg wet	0.05000		185	70-130			B+
Carbon Disulfide	0.0510	0.0050	mg/kg wet	0.05000		102	70-130			
Carbon Tetrachloride	0.0572	0.0050	mg/kg wet	0.05000		114	70-130			
Chlorobenzene	0.0505	0.0050	mg/kg wet	0.05000		101	70-130			
Chloroethane	0.0441	0.0100	mg/kg wet	0.05000		88	70-130			
Chloroform	0.0502	0.0050	mg/kg wet	0.05000		100	70-130			
Chloromethane	0.0556	0.0100	mg/kg wet	0.05000		111	70-130			
cis-1,2-Dichloroethene	0.0483	0.0050	mg/kg wet	0.05000		97	70-130			
cis-1,3-Dichloropropene	0.0553	0.0050	mg/kg wet	0.05000		111	70-130			
Dibromochloromethane	0.0535	0.0020	mg/kg wet	0.05000		107	70-130			
Dibromomethane	0.0492	0.0050	mg/kg wet	0.05000		98	70-130			
Dichlorodifluoromethane	0.0525	0.0100	mg/kg wet	0.05000		105	70-130			
Diethyl Ether	0.0481	0.0050	mg/kg wet	0.05000		96	70-130			
Di-isopropyl ether	0.0461	0.0050	mg/kg wet	0.05000		92	70-130			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503447

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch CC52627 - 5035										
Ethyl tertiary-butyl ether	0.0441	0.0050	mg/kg wet	0.05000		88	70-130			
Ethylbenzene	0.0505	0.0050	mg/kg wet	0.05000		101	70-130			
Hexachlorobutadiene	0.0592	0.0050	mg/kg wet	0.05000		118	70-130			
Isopropylbenzene	0.0501	0.0050	mg/kg wet	0.05000		100	70-130			
Methyl tert-Butyl Ether	0.0480	0.0050	mg/kg wet	0.05000		96	70-130			
Methylene Chloride	0.0470	0.0100	mg/kg wet	0.05000		94	70-130			
Naphthalene	0.0460	0.0050	mg/kg wet	0.05000		92	70-130			
n-Butylbenzene	0.0503	0.0050	mg/kg wet	0.05000		101	70-130			
n-Propylbenzene	0.0491	0.0050	mg/kg wet	0.05000		98	70-130			
sec-Butylbenzene	0.0500	0.0050	mg/kg wet	0.05000		100	70-130			
Styrene	0.0520	0.0050	mg/kg wet	0.05000		104	70-130			
tert-Butylbenzene	0.0503	0.0050	mg/kg wet	0.05000		101	70-130			
Tertiary-amyl methyl ether	0.0465	0.0050	mg/kg wet	0.05000		93	70-130			
Tetrachloroethene	0.0524	0.0050	mg/kg wet	0.05000		105	70-130			
Tetrahydrofuran	0.0429	0.0050	mg/kg wet	0.05000		86	70-130			
Toluene	0.0474	0.0050	mg/kg wet	0.05000		95	70-130			
trans-1,2-Dichloroethene	0.0439	0.0050	mg/kg wet	0.05000		88	70-130			
trans-1,3-Dichloropropene	0.0548	0.0050	mg/kg wet	0.05000		110	70-130			
Trichloroethene	0.0486	0.0050	mg/kg wet	0.05000		97	70-130			
Trichlorofluoromethane	0.0468	0.0050	mg/kg wet	0.05000		94	70-130			
Vinyl Chloride	0.0512	0.0100	mg/kg wet	0.05000		102	70-130			
Xylene O	0.0505	0.0050	mg/kg wet	0.05000		101	70-130			
Xylene P,M	0.102	0.0100	mg/kg wet	0.1000		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0475*		mg/kg wet	*0.05000*		*95*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.0472*		mg/kg wet	*0.05000*		*94*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0458*		mg/kg wet	*0.05000*		*92*	*70-130*			
Surrogate: Toluene-d8	*0.0481*		mg/kg wet	*0.05000*		*96*	*70-130*			
LCS Dup										
1,1,1,2-Tetrachloroethane	0.0522	0.0050	mg/kg wet	0.05000		104	70-130	8	25	
1,1,1-Trichloroethane	0.0485	0.0050	mg/kg wet	0.05000		97	70-130	10	25	
1,1,2,2-Tetrachloroethane	0.0449	0.0020	mg/kg wet	0.05000		90	70-130	10	25	
1,1,2-Trichloroethane	0.0436	0.0050	mg/kg wet	0.05000		87	70-130	9	25	
1,1-Dichloroethane	0.0423	0.0050	mg/kg wet	0.05000		85	70-130	11	25	
1,1-Dichloroethene	0.0412	0.0050	mg/kg wet	0.05000		82	70-130	11	25	
1,1-Dichloropropene	0.0414	0.0050	mg/kg wet	0.05000		83	70-130	10	25	
1,2,3-Trichlorobenzene	0.0479	0.0050	mg/kg wet	0.05000		96	70-130	11	25	
1,2,3-Trichloropropane	0.0478	0.0050	mg/kg wet	0.05000		96	70-130	12	25	
1,2,4-Trichlorobenzene	0.0468	0.0050	mg/kg wet	0.05000		94	70-130	10	25	
1,2,4-Trimethylbenzene	0.0443	0.0050	mg/kg wet	0.05000		89	70-130	11	25	
1,2-Dibromo-3-Chloropropane	0.0473	0.0050	mg/kg wet	0.05000		95	70-130	14	25	
1,2-Dibromoethane	0.0485	0.0050	mg/kg wet	0.05000		97	70-130	9	25	
1,2-Dichlorobenzene	0.0447	0.0050	mg/kg wet	0.05000		89	70-130	12	25	
1,2-Dichloroethane	0.0451	0.0050	mg/kg wet	0.05000		90	70-130	9	25	
1,2-Dichloropropane	0.0411	0.0050	mg/kg wet	0.05000		82	70-130	11	25	
1,3,5-Trimethylbenzene	0.0463	0.0050	mg/kg wet	0.05000		93	70-130	11	25	

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503447

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch CC52627 - 5035										
1,3-Dichlorobenzene	0.0449	0.0050	mg/kg wet	0.05000		90	70-130	11	25	
1,3-Dichloropropane	0.0495	0.0050	mg/kg wet	0.05000		99	70-130	8	25	
1,4-Dichlorobenzene	0.0452	0.0050	mg/kg wet	0.05000		90	70-130	12	25	
1,4-Dioxane	0.856	0.100	mg/kg wet	1.000		86	70-130	4	20	
2,2-Dichloropropane	0.0489	0.0050	mg/kg wet	0.05000		98	70-130	11	25	
2-Butanone	0.218	0.0100	mg/kg wet	0.2500		87	70-130	9	25	
2-Chlorotoluene	0.0449	0.0050	mg/kg wet	0.05000		90	70-130	11	25	
2-Hexanone	0.254	0.0100	mg/kg wet	0.2500		101	70-130	10	25	
4-Chlorotoluene	0.0452	0.0050	mg/kg wet	0.05000		90	70-130	11	25	
4-Isopropyltoluene	0.0444	0.0050	mg/kg wet	0.05000		89	70-130	12	25	
4-Methyl-2-Pentanone	0.221	0.0100	mg/kg wet	0.2500		88	70-130	11	25	
Acetone	0.250	0.0100	mg/kg wet	0.2500		100	70-130	10	25	
Benzene	0.0426	0.0050	mg/kg wet	0.05000		85	70-130	10	25	
Bromobenzene	0.0456	0.0050	mg/kg wet	0.05000		91	70-130	12	25	
Bromochloromethane	0.0451	0.0050	mg/kg wet	0.05000		90	70-130	9	25	
Bromodichloromethane	0.0472	0.0050	mg/kg wet	0.05000		94	70-130	10	25	
Bromoform	0.0498	0.0050	mg/kg wet	0.05000		100	70-130	10	25	
Bromomethane	0.0760	0.0100	mg/kg wet	0.05000		152	70-130	20	25	B+
Carbon Disulfide	0.0460	0.0050	mg/kg wet	0.05000		92	70-130	10	25	
Carbon Tetrachloride	0.0511	0.0050	mg/kg wet	0.05000		102	70-130	11	25	
Chlorobenzene	0.0468	0.0050	mg/kg wet	0.05000		94	70-130	8	25	
Chloroethane	0.0394	0.0100	mg/kg wet	0.05000		79	70-130	11	25	
Chloroform	0.0450	0.0050	mg/kg wet	0.05000		90	70-130	11	25	
Chloromethane	0.0499	0.0100	mg/kg wet	0.05000		100	70-130	11	25	
cis-1,2-Dichloroethene	0.0444	0.0050	mg/kg wet	0.05000		89	70-130	8	25	
cis-1,3-Dichloropropene	0.0498	0.0050	mg/kg wet	0.05000		100	70-130	11	25	
Dibromochloromethane	0.0484	0.0020	mg/kg wet	0.05000		97	70-130	10	25	
Dibromomethane	0.0452	0.0050	mg/kg wet	0.05000		90	70-130	8	25	
Dichlorodifluoromethane	0.0470	0.0100	mg/kg wet	0.05000		94	70-130	11	25	
Diethyl Ether	0.0435	0.0050	mg/kg wet	0.05000		87	70-130	10	25	
Di-isopropyl ether	0.0417	0.0050	mg/kg wet	0.05000		83	70-130	10	25	
Ethyl tertiary-butyl ether	0.0373	0.0050	mg/kg wet	0.05000		75	70-130	17	25	
Ethylbenzene	0.0468	0.0050	mg/kg wet	0.05000		94	70-130	8	25	
Hexachlorobutadiene	0.0523	0.0050	mg/kg wet	0.05000		105	70-130	12	25	
Isopropylbenzene	0.0449	0.0050	mg/kg wet	0.05000		90	70-130	11	25	
Methyl tert-Butyl Ether	0.0416	0.0050	mg/kg wet	0.05000		83	70-130	14	25	
Methylene Chloride	0.0408	0.0100	mg/kg wet	0.05000		82	70-130	14	25	
Naphthalene	0.0419	0.0050	mg/kg wet	0.05000		84	70-130	9	25	
n-Butylbenzene	0.0453	0.0050	mg/kg wet	0.05000		91	70-130	11	25	
n-Propylbenzene	0.0439	0.0050	mg/kg wet	0.05000		88	70-130	11	25	
sec-Butylbenzene	0.0447	0.0050	mg/kg wet	0.05000		89	70-130	11	25	
Styrene	0.0472	0.0050	mg/kg wet	0.05000		94	70-130	10	25	
tert-Butylbenzene	0.0451	0.0050	mg/kg wet	0.05000		90	70-130	11	25	
Tertiary-amyl methyl ether	0.0396	0.0050	mg/kg wet	0.05000		79	70-130	16	25	
Tetrachloroethene	0.0481	0.0050	mg/kg wet	0.05000		96	70-130	8	25	

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503447

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch CC52627 - 5035										
Tetrahydrofuran	0.0412	0.0050	mg/kg wet	0.05000		82	70-130	4	25	
Toluene	0.0426	0.0050	mg/kg wet	0.05000		85	70-130	11	25	
trans-1,2-Dichloroethene	0.0398	0.0050	mg/kg wet	0.05000		80	70-130	10	25	
trans-1,3-Dichloropropene	0.0491	0.0050	mg/kg wet	0.05000		98	70-130	11	25	
Trichloroethene	0.0438	0.0050	mg/kg wet	0.05000		88	70-130	10	25	
Trichlorofluoromethane	0.0416	0.0050	mg/kg wet	0.05000		83	70-130	12	25	
Vinyl Chloride	0.0449	0.0100	mg/kg wet	0.05000		90	70-130	13	25	
Xylene O	0.0465	0.0050	mg/kg wet	0.05000		93	70-130	8	25	
Xylene P,M	0.0939	0.0100	mg/kg wet	0.1000		94	70-130	8	25	
Surrogate: 1,2-Dichloroethane-d4	*0.0476*		mg/kg wet	*0.05000*		*95*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.0484*		mg/kg wet	*0.05000*		*97*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0455*		mg/kg wet	*0.05000*		*91*	*70-130*			
Surrogate: Toluene-d8	*0.0493*		mg/kg wet	*0.05000*		*99*	*70-130*			
8082A Polychlorinated Biphenyls (PCB)										
Batch CC53006 - 3540C										
Blank										
Aroclor 1016	ND	0.0080	mg/kg wet							
Aroclor 1221	ND	0.0080	mg/kg wet							
Aroclor 1232	ND	0.0080	mg/kg wet							
Aroclor 1242	ND	0.0080	mg/kg wet							
Aroclor 1248	ND	0.0080	mg/kg wet							
Aroclor 1254	ND	0.0080	mg/kg wet							
Aroclor 1260	ND	0.0080	mg/kg wet							
Aroclor 1262	ND	0.0080	mg/kg wet							
Aroclor 1268	ND	0.0080	mg/kg wet							
Surrogate: Decachlorobiphenyl	*0.00260*		mg/kg wet	*0.004000*		*65*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.00229*		mg/kg wet	*0.004000*		*57*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.00316*		mg/kg wet	*0.004000*		*79*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.00307*		mg/kg wet	*0.004000*		*77*	*30-150*			
LCS										
Aroclor 1016	0.0844	0.0080	mg/kg wet	0.08000		106	40-140			
Aroclor 1260	0.0702	0.0080	mg/kg wet	0.08000		88	40-140			
Surrogate: Decachlorobiphenyl	*0.00301*		mg/kg wet	*0.004000*		*75*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.00277*		mg/kg wet	*0.004000*		*69*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.00358*		mg/kg wet	*0.004000*		*90*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.00354*		mg/kg wet	*0.004000*		*89*	*30-150*			
LCS Dup										
Aroclor 1016	0.0885	0.0080	mg/kg wet	0.08000		111	40-140	5	30	
Aroclor 1260	0.0761	0.0080	mg/kg wet	0.08000		95	40-140	8	30	
Surrogate: Decachlorobiphenyl	*0.00266*		mg/kg wet	*0.004000*		*67*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.00272*		mg/kg wet	*0.004000*		*68*	*30-150*			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503447

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CC53006 - 3540C										
Surrogate: Tetrachloro-m-xylene	*0.00350*		mg/kg wet	*0.004000*		*88*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.00348*		mg/kg wet	*0.004000*		*87*	*30-150*			
8270D Semi-Volatile Organic Compounds										
Batch CD50205 - 3546										
Blank										
1,2,4-Trichlorobenzene	ND	0.333	mg/kg wet							
1,2-Dichlorobenzene	ND	0.333	mg/kg wet							
1,3-Dichlorobenzene	ND	0.333	mg/kg wet							
1,4-Dichlorobenzene	ND	0.333	mg/kg wet							
2,4,5-Trichlorophenol	ND	0.333	mg/kg wet							
2,4,6-Trichlorophenol	ND	0.333	mg/kg wet							
2,4-Dichlorophenol	ND	0.333	mg/kg wet							
2,4-Dimethylphenol	ND	0.333	mg/kg wet							
2,4-Dinitrophenol	ND	1.67	mg/kg wet							
2,4-Dinitrotoluene	ND	0.333	mg/kg wet							
2,6-Dinitrotoluene	ND	0.333	mg/kg wet							
2-Chloronaphthalene	ND	0.333	mg/kg wet							
2-Chlorophenol	ND	0.333	mg/kg wet							
2-Methylphenol	ND	0.333	mg/kg wet							
2-Nitrophenol	ND	0.333	mg/kg wet							
3,3´-Dichlorobenzidine	ND	0.667	mg/kg wet							
3+4-Methylphenol	ND	0.667	mg/kg wet							
4-Bromophenyl-phenylether	ND	0.333	mg/kg wet							
4-Chloroaniline	ND	0.667	mg/kg wet							
4-Nitrophenol	ND	1.67	mg/kg wet							
Acetophenone	ND	0.667	mg/kg wet							
Aniline	ND	1.67	mg/kg wet							
Azobenzene	ND	0.333	mg/kg wet							
bis(2-Chloroethoxy)methane	ND	0.333	mg/kg wet							
bis(2-Chloroethyl)ether	ND	0.333	mg/kg wet							
bis(2-chloroisopropyl)Ether	ND	0.333	mg/kg wet							
bis(2-Ethylhexyl)phthalate	ND	0.333	mg/kg wet							
Butylbenzylphthalate	ND	0.333	mg/kg wet							
Dibenzofuran	ND	0.333	mg/kg wet							
Diethylphthalate	ND	0.333	mg/kg wet							
Dimethylphthalate	ND	0.333	mg/kg wet							
Di-n-butylphthalate	ND	0.333	mg/kg wet							
Di-n-octylphthalate	ND	0.333	mg/kg wet							
Hexachlorobutadiene	ND	0.333	mg/kg wet							
Hexachloroethane	ND	0.333	mg/kg wet							
Isophorone	ND	0.333	mg/kg wet							
Nitrobenzene	ND	0.333	mg/kg wet							
N-Nitrosodimethylamine	ND	0.333	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503447

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D Semi-Volatile Organic Compounds										
Batch CD50205 - 3546										
Pentachlorophenol	ND	1.67	mg/kg wet							
Phenol	ND	0.333	mg/kg wet							
Surrogate: 1,2-Dichlorobenzene-d4	*2.01*		mg/kg wet	*3.333*		*60*	*30-130*			
Surrogate: 2,4,6-Tribromophenol	*4.41*		mg/kg wet	*5.000*		*88*	*30-130*			
Surrogate: 2-Chlorophenol-d4	*2.99*		mg/kg wet	*5.000*		*60*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*2.18*		mg/kg wet	*3.333*		*66*	*30-130*			
Surrogate: 2-Fluorophenol	*2.84*		mg/kg wet	*5.000*		*57*	*30-130*			
Surrogate: Nitrobenzene-d5	*1.86*		mg/kg wet	*3.333*		*56*	*30-130*			
Surrogate: Phenol-d6	*2.91*		mg/kg wet	*5.000*		*58*	*30-130*			
Surrogate: p-Terphenyl-d14	*3.07*		mg/kg wet	*3.333*		*92*	*30-130*			
LCS										
1,2,4-Trichlorobenzene	1.71	0.333	mg/kg wet	3.333		51	40-140			
1,2-Dichlorobenzene	1.43	0.333	mg/kg wet	3.333		43	40-140			
1,3-Dichlorobenzene	1.43	0.333	mg/kg wet	3.333		43	40-140			
1,4-Dichlorobenzene	1.44	0.333	mg/kg wet	3.333		43	40-140			
2,4,5-Trichlorophenol	2.42	0.333	mg/kg wet	3.333		73	30-130			
2,4,6-Trichlorophenol	2.32	0.333	mg/kg wet	3.333		70	30-130			
2,4-Dichlorophenol	1.98	0.333	mg/kg wet	3.333		59	30-130			
2,4-Dimethylphenol	2.08	0.333	mg/kg wet	3.333		62	30-130			
2,4-Dinitrophenol	2.15	1.67	mg/kg wet	3.333		64	30-130			
2,4-Dinitrotoluene	2.48	0.333	mg/kg wet	3.333		74	40-140			
2,6-Dinitrotoluene	2.27	0.333	mg/kg wet	3.333		68	40-140			
2-Chloronaphthalene	1.73	0.333	mg/kg wet	3.333		52	40-140			
2-Chlorophenol	1.48	0.333	mg/kg wet	3.333		44	30-130			
2-Methylphenol	1.65	0.333	mg/kg wet	3.333		49	30-130			
2-Nitrophenol	1.82	0.333	mg/kg wet	3.333		55	30-130			
3,3´-Dichlorobenzidine	2.00	0.667	mg/kg wet	3.333		60	40-140			
3+4-Methylphenol	4.14	0.667	mg/kg wet	6.667		62	30-130			
4-Bromophenyl-phenylether	2.52	0.333	mg/kg wet	3.333		76	40-140			
4-Chloroaniline	1.46	0.667	mg/kg wet	3.333		44	40-140			
4-Nitrophenol	3.73	1.67	mg/kg wet	3.333		112	30-130			
Acetophenone	1.61	0.667	mg/kg wet	3.333		48	40-140			
Aniline	1.06	1.67	mg/kg wet	3.333		32	40-140			B-
Azobenzene	2.13	0.333	mg/kg wet	3.333		64	40-140			
bis(2-Chloroethoxy)methane	1.74	0.333	mg/kg wet	3.333		52	40-140			
bis(2-Chloroethyl)ether	1.39	0.333	mg/kg wet	3.333		42	40-140			
bis(2-chloroisopropyl)Ether	1.19	0.333	mg/kg wet	3.333		36	40-140			B-
bis(2-Ethylhexyl)phthalate	2.61	0.333	mg/kg wet	3.333		78	40-140			
Butylbenzylphthalate	2.69	0.333	mg/kg wet	3.333		81	40-140			
Dibenzofuran	2.16	0.333	mg/kg wet	3.333		65	40-140			
Diethylphthalate	2.56	0.333	mg/kg wet	3.333		77	40-140			
Dimethylphthalate	2.24	0.333	mg/kg wet	3.333		67	40-140			
Di-n-butylphthalate	2.61	0.333	mg/kg wet	3.333		78	40-140			
Di-n-octylphthalate	2.71	0.333	mg/kg wet	3.333		81	40-140			
Hexachlorobutadiene	1.83	0.333	mg/kg wet	3.333		55	40-140			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503447

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D Semi-Volatile Organic Compounds										
Batch CD50205 - 3546										
Hexachloroethane	1.50	0.333	mg/kg wet	3.333		45	40-140			
Isophorone	1.72	0.333	mg/kg wet	3.333		52	40-140			
Nitrobenzene	1.65	0.333	mg/kg wet	3.333		49	40-140			
N-Nitrosodimethylamine	1.34	0.333	mg/kg wet	3.333		40	40-140			
Pentachlorophenol	2.98	1.67	mg/kg wet	3.333		89	30-130			
Phenol	1.81	0.333	mg/kg wet	3.333		54	30-130			
Surrogate: 1,2-Dichlorobenzene-d4	*1.67*		mg/kg wet	*3.333*		*50*	*30-130*			
Surrogate: 2,4,6-Tribromophenol	*5.01*		mg/kg wet	*5.000*		*100*	*30-130*			
Surrogate: 2-Chlorophenol-d4	*2.44*		mg/kg wet	*5.000*		*49*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*2.18*		mg/kg wet	*3.333*		*65*	*30-130*			
Surrogate: 2-Fluorophenol	*2.39*		mg/kg wet	*5.000*		*48*	*30-130*			
Surrogate: Nitrobenzene-d5	*1.67*		mg/kg wet	*3.333*		*50*	*30-130*			
Surrogate: Phenol-d6	*2.49*		mg/kg wet	*5.000*		*50*	*30-130*			
Surrogate: p-Terphenyl-d14	*3.27*		mg/kg wet	*3.333*		*98*	*30-130*			
LCS Dup										
1,2,4-Trichlorobenzene	1.79	0.333	mg/kg wet	3.333		54	40-140	4	30	
1,2-Dichlorobenzene	1.61	0.333	mg/kg wet	3.333		48	40-140	12	30	
1,3-Dichlorobenzene	1.62	0.333	mg/kg wet	3.333		49	40-140	12	30	
1,4-Dichlorobenzene	1.61	0.333	mg/kg wet	3.333		48	40-140	11	30	
2,4,5-Trichlorophenol	2.48	0.333	mg/kg wet	3.333		74	30-130	3	30	
2,4,6-Trichlorophenol	2.45	0.333	mg/kg wet	3.333		73	30-130	5	30	
2,4-Dichlorophenol	2.07	0.333	mg/kg wet	3.333		62	30-130	4	30	
2,4-Dimethylphenol	2.09	0.333	mg/kg wet	3.333		63	30-130	0.6	30	
2,4-Dinitrophenol	2.14	1.67	mg/kg wet	3.333		64	30-130	0.2	30	
2,4-Dinitrotoluene	2.42	0.333	mg/kg wet	3.333		73	40-140	2	30	
2,6-Dinitrotoluene	2.31	0.333	mg/kg wet	3.333		69	40-140	2	30	
2-Chloronaphthalene	1.76	0.333	mg/kg wet	3.333		53	40-140	2	30	
2-Chlorophenol	1.64	0.333	mg/kg wet	3.333		49	30-130	10	30	
2-Methylphenol	1.76	0.333	mg/kg wet	3.333		53	30-130	7	30	
2-Nitrophenol	1.84	0.333	mg/kg wet	3.333		55	30-130	1	30	
3,3´-Dichlorobenzidine	1.59	0.667	mg/kg wet	3.333		48	40-140	23	30	
3+4-Methylphenol	4.53	0.667	mg/kg wet	6.667		68	30-130	9	30	
4-Bromophenyl-phenylether	2.57	0.333	mg/kg wet	3.333		77	40-140	2	30	
4-Chloroaniline	1.50	0.667	mg/kg wet	3.333		45	40-140	3	30	
4-Nitrophenol	3.50	1.67	mg/kg wet	3.333		105	30-130	6	30	
Acetophenone	1.80	0.667	mg/kg wet	3.333		54	40-140	11	30	
Aniline	1.07	1.67	mg/kg wet	3.333		32	40-140	1	30	B-
Azobenzene	2.16	0.333	mg/kg wet	3.333		65	40-140	2	30	
bis(2-Chloroethoxy)methane	1.78	0.333	mg/kg wet	3.333		54	40-140	2	30	
bis(2-Chloroethyl)ether	1.46	0.333	mg/kg wet	3.333		44	40-140	5	30	
bis(2-chloroisopropyl)Ether	1.33	0.333	mg/kg wet	3.333		40	40-140	11	30	
bis(2-Ethylhexyl)phthalate	2.55	0.333	mg/kg wet	3.333		77	40-140	2	30	
Butylbenzylphthalate	2.63	0.333	mg/kg wet	3.333		79	40-140	2	30	
Dibenzofuran	2.23	0.333	mg/kg wet	3.333		67	40-140	3	30	
Diethylphthalate	2.53	0.333	mg/kg wet	3.333		76	40-140	1	30	

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503447

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D Semi-Volatile Organic Compounds										
Batch CD50205 - 3546										
Dimethylphthalate	2.27	0.333	mg/kg wet	3.333		68	40-140	1	30	
Di-n-butylphthalate	2.50	0.333	mg/kg wet	3.333		75	40-140	4	30	
Di-n-octylphthalate	2.60	0.333	mg/kg wet	3.333		78	40-140	4	30	
Hexachlorobutadiene	1.91	0.333	mg/kg wet	3.333		57	40-140	4	30	
Hexachloroethane	1.74	0.333	mg/kg wet	3.333		52	40-140	15	30	
Isophorone	1.77	0.333	mg/kg wet	3.333		53	40-140	3	30	
Nitrobenzene	1.74	0.333	mg/kg wet	3.333		52	40-140	6	30	
N-Nitrosodimethylamine	1.60	0.333	mg/kg wet	3.333		48	40-140	17	30	
Pentachlorophenol	2.89	1.67	mg/kg wet	3.333		87	30-130	3	30	
Phenol	1.74	0.333	mg/kg wet	3.333		52	30-130	4	30	
Surrogate: 1,2-Dichlorobenzene-d4	*1.75*		mg/kg wet	*3.333*		*53*	*30-130*			
Surrogate: 2,4,6-Tribromophenol	*4.63*		mg/kg wet	*5.000*		*93*	*30-130*			
Surrogate: 2-Chlorophenol-d4	*2.65*		mg/kg wet	*5.000*		*53*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*2.10*		mg/kg wet	*3.333*		*63*	*30-130*			
Surrogate: 2-Fluorophenol	*2.52*		mg/kg wet	*5.000*		*50*	*30-130*			
Surrogate: Nitrobenzene-d5	*1.67*		mg/kg wet	*3.333*		*50*	*30-130*			
Surrogate: Phenol-d6	*2.63*		mg/kg wet	*5.000*		*53*	*30-130*			
Surrogate: p-Terphenyl-d14	*3.00*		mg/kg wet	*3.333*		*90*	*30-130*			
8270D(SIM) Polynuclear Aromatic Hydrocarbons										
Batch CC52823 - 3546										
Blank										
2-Methylnaphthalene	ND	0.012	mg/kg wet							
Acenaphthene	ND	0.012	mg/kg wet							
Acenaphthylene	ND	0.012	mg/kg wet							
Anthracene	ND	0.012	mg/kg wet							
Benzo(a)anthracene	ND	0.012	mg/kg wet							
Benzo(a)pyrene	ND	0.012	mg/kg wet							
Benzo(b)fluoranthene	ND	0.012	mg/kg wet							
Benzo(g,h,i)perylene	ND	0.012	mg/kg wet							
Benzo(k)fluoranthene	ND	0.012	mg/kg wet							
Chrysene	ND	0.012	mg/kg wet							
Dibenzo(a,h)Anthracene	ND	0.012	mg/kg wet							
Fluoranthene	ND	0.012	mg/kg wet							
Fluorene	ND	0.012	mg/kg wet							
Hexachlorobenzene	ND	0.012	mg/kg wet							
Indeno(1,2,3-cd)Pyrene	ND	0.012	mg/kg wet							
Naphthalene	ND	0.012	mg/kg wet							
Phenanthrene	ND	0.012	mg/kg wet							
Pyrene	ND	0.012	mg/kg wet							
Surrogate: 1,2-Dichlorobenzene-d4	*0.127*		mg/kg wet	*0.2500*		*51*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*0.158*		mg/kg wet	*0.2500*		*63*	*30-130*			
Surrogate: Nitrobenzene-d5	*0.147*		mg/kg wet	*0.2500*		*59*	*30-130*			
Surrogate: p-Terphenyl-d14	*0.207*		mg/kg wet	*0.2500*		*83*	*30-130*			
LCS										

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503447

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D(SIM) Polynuclear Aromatic Hydrocarbons										
Batch CC52823 - 3546										
2-Methylnaphthalene	0.125	0.012	mg/kg wet	0.2000		63	40-140			
Acenaphthene	0.147	0.012	mg/kg wet	0.2000		73	40-140			
Acenaphthylene	0.146	0.012	mg/kg wet	0.2000		73	40-140			
Anthracene	0.144	0.012	mg/kg wet	0.2000		72	40-140			
Benzo(a)anthracene	0.151	0.012	mg/kg wet	0.2000		75	40-140			
Benzo(a)pyrene	0.155	0.012	mg/kg wet	0.2000		77	40-140			
Benzo(b)fluoranthene	0.161	0.012	mg/kg wet	0.2000		80	40-140			
Benzo(g,h,i)perylene	0.130	0.012	mg/kg wet	0.2000		65	40-140			
Benzo(k)fluoranthene	0.162	0.012	mg/kg wet	0.2000		81	40-140			
Chrysene	0.162	0.012	mg/kg wet	0.2000		81	40-140			
Dibenzo(a,h)Anthracene	0.142	0.012	mg/kg wet	0.2000		71	40-140			
Fluoranthene	0.154	0.012	mg/kg wet	0.2000		77	40-140			
Fluorene	0.155	0.012	mg/kg wet	0.2000		78	40-140			
Hexachlorobenzene	0.250	0.012	mg/kg wet	0.2000		125	40-140			
Indeno(1,2,3-cd)Pyrene	0.137	0.012	mg/kg wet	0.2000		69	40-140			
Naphthalene	0.127	0.012	mg/kg wet	0.2000		63	40-140			
Phenanthrene	0.142	0.012	mg/kg wet	0.2000		71	40-140			
Pyrene	0.157	0.012	mg/kg wet	0.2000		79	40-140			
Surrogate: 1,2-Dichlorobenzene-d4	*0.175*		mg/kg wet	*0.2500*		*70*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*0.216*		mg/kg wet	*0.2500*		*86*	*30-130*			
Surrogate: Nitrobenzene-d5	*0.208*		mg/kg wet	*0.2500*		*83*	*30-130*			
Surrogate: p-Terphenyl-d14	*0.234*		mg/kg wet	*0.2500*		*93*	*30-130*			
LCS Dup										
2-Methylnaphthalene	0.120	0.012	mg/kg wet	0.2000		60	40-140	5	30	
Acenaphthene	0.139	0.012	mg/kg wet	0.2000		69	40-140	6	30	
Acenaphthylene	0.138	0.012	mg/kg wet	0.2000		69	40-140	6	30	
Anthracene	0.141	0.012	mg/kg wet	0.2000		71	40-140	2	30	
Benzo(a)anthracene	0.145	0.012	mg/kg wet	0.2000		73	40-140	4	30	
Benzo(a)pyrene	0.152	0.012	mg/kg wet	0.2000		76	40-140	2	30	
Benzo(b)fluoranthene	0.162	0.012	mg/kg wet	0.2000		81	40-140	0.6	30	
Benzo(g,h,i)perylene	0.125	0.012	mg/kg wet	0.2000		62	40-140	4	30	
Benzo(k)fluoranthene	0.158	0.012	mg/kg wet	0.2000		79	40-140	2	30	
Chrysene	0.156	0.012	mg/kg wet	0.2000		78	40-140	4	30	
Dibenzo(a,h)Anthracene	0.136	0.012	mg/kg wet	0.2000		68	40-140	4	30	
Fluoranthene	0.148	0.012	mg/kg wet	0.2000		74	40-140	4	30	
Fluorene	0.149	0.012	mg/kg wet	0.2000		75	40-140	4	30	
Hexachlorobenzene	0.170	0.012	mg/kg wet	0.2000		85	40-140	39	30	D+
Indeno(1,2,3-cd)Pyrene	0.132	0.012	mg/kg wet	0.2000		66	40-140	4	30	
Naphthalene	0.119	0.012	mg/kg wet	0.2000		59	40-140	7	30	
Phenanthrene	0.137	0.012	mg/kg wet	0.2000		69	40-140	3	30	
Pyrene	0.155	0.012	mg/kg wet	0.2000		78	40-140	2	30	
Surrogate: 1,2-Dichlorobenzene-d4	*0.151*		mg/kg wet	*0.2500*		*61*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*0.186*		mg/kg wet	*0.2500*		*74*	*30-130*			
Surrogate: Nitrobenzene-d5	*0.178*		mg/kg wet	*0.2500*		*71*	*30-130*			
Surrogate: p-Terphenyl-d14	*0.218*		mg/kg wet	*0.2500*		*87*	*30-130*			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503447

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Classical Chemistry										
Batch CC52807 - General Preparation										
Blank										
Hexavalent Chromium	ND	0.7	mg/kg wet							
LCS										
Hexavalent Chromium	32.4	0.7	mg/kg wet	33.32		97	80-120			
LCS Dup										
Hexavalent Chromium	32.6	0.7	mg/kg wet	33.32		98	80-120	0.5	20	
Reference										
Hexavalent Chromium	99.8	2.0	mg/kg wet	125.0		80	61-139			
Batch CC53003 - General Preparation										
Blank										
Reactive Cyanide	ND	2.0	mg/kg							
Reactive Sulfide	ND	2.0	mg/kg							
LCS										
Reactive Cyanide	3.8	2.0	mg/kg	100.3		4	0.68-5.41			
Reactive Sulfide	0.2	2.0	mg/kg	10.00		2	0-44			
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CC52711 - 3546										
Blank										
C19-C36 Aliphatics1	ND	15.0	mg/kg wet							
C9-C18 Aliphatics1	ND	15.0	mg/kg wet							
Decane (C10)	ND	0.5	mg/kg wet							
Docosane (C22)	ND	0.5	mg/kg wet							
Dodecane (C12)	ND	0.5	mg/kg wet							
Eicosane (C20)	ND	0.5	mg/kg wet							
Hexacosane (C26)	ND	0.5	mg/kg wet							
Hexadecane (C16)	ND	0.5	mg/kg wet							
Hexatriacontane (C36)	ND	0.5	mg/kg wet							
Nonadecane (C19)	ND	0.5	mg/kg wet							
Nonane (C9)	ND	0.5	mg/kg wet							
Octacosane (C28)	ND	0.5	mg/kg wet							
Octadecane (C18)	ND	0.5	mg/kg wet							
Tetracosane (C24)	ND	0.5	mg/kg wet							
Tetradecane (C14)	ND	0.5	mg/kg wet							
Triacontane (C30)	ND	0.5	mg/kg wet							
Surrogate: 1-Chlorooctadecane	*1.20*		mg/kg wet	*2.000*		*60*	*40-140*			
Blank										
2-Methylnaphthalene	ND	0.20	mg/kg wet							
Acenaphthene	ND	0.40	mg/kg wet							
Acenaphthylene	ND	0.20	mg/kg wet							
Anthracene	ND	0.40	mg/kg wet							
Benzo(a)anthracene	ND	0.40	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503447

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CC52711 - 3546										
Benzo(a)pyrene	ND	0.40	mg/kg wet							
Benzo(b)fluoranthene	ND	0.40	mg/kg wet							
Benzo(g,h,i)perylene	ND	0.40	mg/kg wet							
Benzo(k)fluoranthene	ND	0.40	mg/kg wet							
C11-C22 Unadjusted Aromatics1	ND	15.0	mg/kg wet							
Chrysene	ND	0.40	mg/kg wet							
Dibenzo(a,h)Anthracene	ND	0.20	mg/kg wet							
Fluoranthene	ND	0.40	mg/kg wet							
Fluorene	ND	0.40	mg/kg wet							
Indeno(1,2,3-cd)Pyrene	ND	0.40	mg/kg wet							
Naphthalene	ND	0.40	mg/kg wet							
Phenanthrene	ND	0.40	mg/kg wet							
Pyrene	ND	0.40	mg/kg wet							
Surrogate: 2-Bromonaphthalene	*1.20*		mg/kg wet	*2.000*		*60*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*1.16*		mg/kg wet	*2.000*		*58*	*40-140*			
Surrogate: O-Terphenyl	*1.49*		mg/kg wet	*2.000*		*74*	*40-140*			
LCS										
C19-C36 Aliphatics1	14.1	15.0	mg/kg wet	16.00		88	40-140			
C9-C18 Aliphatics1	8.1	15.0	mg/kg wet	12.00		68	40-140			
Decane (C10)	1.0	0.5	mg/kg wet	2.000		50	40-140			
Docosane (C22)	1.5	0.5	mg/kg wet	2.000		75	40-140			
Dodecane (C12)	1.0	0.5	mg/kg wet	2.000		51	40-140			
Eicosane (C20)	1.5	0.5	mg/kg wet	2.000		73	40-140			
Hexacosane (C26)	1.5	0.5	mg/kg wet	2.000		77	40-140			
Hexadecane (C16)	1.4	0.5	mg/kg wet	2.000		68	40-140			
Hexatriacontane (C36)	1.5	0.5	mg/kg wet	2.000		75	40-140			
Nonadecane (C19)	1.5	0.5	mg/kg wet	2.000		74	40-140			
Nonane (C9)	0.8	0.5	mg/kg wet	2.000		41	30-140			
Octacosane (C28)	1.5	0.5	mg/kg wet	2.000		75	40-140			
Octadecane (C18)	1.4	0.5	mg/kg wet	2.000		71	40-140			
Tetracosane (C24)	1.4	0.5	mg/kg wet	2.000		72	40-140			
Tetradecane (C14)	1.2	0.5	mg/kg wet	2.000		61	40-140			
Triacontane (C30)	1.5	0.5	mg/kg wet	2.000		74	40-140			
Surrogate: 1-Chlorooctadecane	*1.15*		mg/kg wet	*2.000*		*58*	*40-140*			
LCS										
2-Methylnaphthalene	1.32	0.20	mg/kg wet	2.000		66	40-140			
Acenaphthene	1.48	0.40	mg/kg wet	2.000		74	40-140			
Acenaphthylene	1.48	0.20	mg/kg wet	2.000		74	40-140			
Anthracene	1.72	0.40	mg/kg wet	2.000		86	40-140			
Benzo(a)anthracene	1.71	0.40	mg/kg wet	2.000		85	40-140			
Benzo(a)pyrene	1.81	0.40	mg/kg wet	2.000		90	40-140			
Benzo(b)fluoranthene	1.63	0.40	mg/kg wet	2.000		82	40-140			
Benzo(g,h,i)perylene	1.66	0.40	mg/kg wet	2.000		83	40-140			
Benzo(k)fluoranthene	1.66	0.40	mg/kg wet	2.000		83	40-140			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503447

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CC52711 - 3546										
C11-C22 Unadjusted Aromatics1	30.2	15.0	mg/kg wet	34.00		89	40-140			
Chrysene	1.74	0.40	mg/kg wet	2.000		87	40-140			
Dibenzo(a,h)Anthracene	1.58	0.20	mg/kg wet	2.000		79	40-140			
Fluoranthene	1.66	0.40	mg/kg wet	2.000		83	40-140			
Fluorene	1.56	0.40	mg/kg wet	2.000		78	40-140			
Indeno(1,2,3-cd)Pyrene	1.63	0.40	mg/kg wet	2.000		81	40-140			
Naphthalene	1.21	0.40	mg/kg wet	2.000		60	40-140			
Phenanthrene	1.66	0.40	mg/kg wet	2.000		83	40-140			
Pyrene	1.68	0.40	mg/kg wet	2.000		84	40-140			
Surrogate: 2-Bromonaphthalene	*2.16*		mg/kg wet	*2.000*		*108*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*2.08*		mg/kg wet	*2.000*		*104*	*40-140*			
Surrogate: O-Terphenyl	*1.50*		mg/kg wet	*2.000*		*75*	*40-140*			
LCS										
2-Methylnaphthalene Breakthrough	0.0		%				0-5			
Naphthalene Breakthrough	0.0		%				0-5			
LCS Dup										
C19-C36 Aliphatics1	13.5	15.0	mg/kg wet	16.00		84	40-140	4	25	
C9-C18 Aliphatics1	7.9	15.0	mg/kg wet	12.00		66	40-140	2	25	
Decane (C10)	1.0	0.5	mg/kg wet	2.000		50	40-140	1	25	
Docosane (C22)	1.5	0.5	mg/kg wet	2.000		73	40-140	3	25	
Dodecane (C12)	1.0	0.5	mg/kg wet	2.000		50	40-140	2	25	
Eicosane (C20)	1.4	0.5	mg/kg wet	2.000		71	40-140	3	25	
Hexacosane (C26)	1.5	0.5	mg/kg wet	2.000		75	40-140	2	25	
Hexadecane (C16)	1.3	0.5	mg/kg wet	2.000		66	40-140	3	25	
Hexatriacontane (C36)	1.5	0.5	mg/kg wet	2.000		73	40-140	2	25	
Nonadecane (C19)	1.4	0.5	mg/kg wet	2.000		72	40-140	3	25	
Nonane (C9)	0.8	0.5	mg/kg wet	2.000		41	30-140	1	25	
Octacosane (C28)	1.5	0.5	mg/kg wet	2.000		73	40-140	2	25	
Octadecane (C18)	1.4	0.5	mg/kg wet	2.000		69	40-140	3	25	
Tetracosane (C24)	1.4	0.5	mg/kg wet	2.000		71	40-140	2	25	
Tetradecane (C14)	1.2	0.5	mg/kg wet	2.000		59	40-140	4	25	
Triacontane (C30)	1.4	0.5	mg/kg wet	2.000		72	40-140	2	25	
Surrogate: 1-Chlorooctadecane	*1.07*		mg/kg wet	*2.000*		*54*	*40-140*			
LCS Dup										
2-Methylnaphthalene	1.23	0.20	mg/kg wet	2.000		61	40-140	8	20	
Acenaphthene	1.36	0.40	mg/kg wet	2.000		68	40-140	9	20	
Acenaphthylene	1.34	0.20	mg/kg wet	2.000		67	40-140	10	20	
Anthracene	1.62	0.40	mg/kg wet	2.000		81	40-140	6	20	
Benzo(a)anthracene	1.63	0.40	mg/kg wet	2.000		81	40-140	5	20	
Benzo(a)pyrene	1.73	0.40	mg/kg wet	2.000		86	40-140	4	20	
Benzo(b)fluoranthene	1.57	0.40	mg/kg wet	2.000		78	40-140	4	20	
Benzo(g,h,i)perylene	1.58	0.40	mg/kg wet	2.000		79	40-140	5	20	
Benzo(k)fluoranthene	1.61	0.40	mg/kg wet	2.000		80	40-140	3	20	

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503447

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CC52711 - 3546										
C11-C22 Unadjusted Aromatics1	29.0	15.0	mg/kg wet	34.00		85	40-140	4	25	
Chrysene	1.67	0.40	mg/kg wet	2.000		84	40-140	4	20	
Dibenzo(a,h)Anthracene	1.50	0.20	mg/kg wet	2.000		75	40-140	5	20	
Fluoranthene	1.63	0.40	mg/kg wet	2.000		82	40-140	2	20	
Fluorene	1.49	0.40	mg/kg wet	2.000		75	40-140	4	20	
Indeno(1,2,3-cd)Pyrene	1.56	0.40	mg/kg wet	2.000		78	40-140	4	20	
Naphthalene	1.16	0.40	mg/kg wet	2.000		58	40-140	4	20	
Phenanthrene	1.59	0.40	mg/kg wet	2.000		79	40-140	4	20	
Pyrene	1.61	0.40	mg/kg wet	2.000		80	40-140	4	20	
Surrogate: 2-Bromonaphthalene	*1.95*		mg/kg wet	*2.000*		*98*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*1.87*		mg/kg wet	*2.000*		*93*	*40-140*			
Surrogate: O-Terphenyl	*1.43*		mg/kg wet	*2.000*		*71*	*40-140*			
LCS Dup										
2-Methylnaphthalene Breakthrough	0.0		%				0-5		200	
Naphthalene Breakthrough	0.0		%				0-5		200	

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase ESS Laboratory Work Order: 1503447

Notes and Definitions

LC	Lower value is used due to matrix interferences (LC).
B+	Blank Spike recovery is above upper control limit (B+).
C-	Continuing Calibration recovery is below lower control limit (C-).
C+	Continuing Calibration recovery is above upper control limit (C+).
D	Diluted.
D+	Relative percent difference for duplicate is outside of criteria (D+).
EL	Elevated Method Reporting Limits due to sample matrix (EL).
B-	Blank Spike recovery is below lower control limit (B-).
IM	Internal Standard(s) outside of criteria due to matrix (UCM/coelution is present) (IM).
Z-10	Soil pH measured in water at 16.3 ºC.
P	Percent difference between primary and confirmation results exceeds 40% (P).
PT	Pentachlorophenol tailing factor > 2.
S-	Surrogate recovery(ies) below lower control limit (S-).
SD	Surrogate recovery(ies) diluted below the MRL (SD).
U	Analyte included in the analysis, but not detected
WL	Results obtained from a deionized water leach of the sample.
Z-08	See Attached
H	Estimated value. Sample hold times were exceeded (H).
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	Detection Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report
[2C]	Result was taken from the second column. Dual column analysis.

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503447

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Department of Defense (DoD) Environmental Laboratory Accreditation Program (ELAP)
A2LA Accredited: Testing Cert# 2864.01
http://www.a2la.org/scopepdf/2864-01.pdf

Rhode Island Potable and Non Potable Water: LAI00179
http://www.health.ri.gov/find/labs/analytical/ESS.pdf

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750
http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI0002
http://www.maine.gov/dhhs/mecdc/environmental-health/water/dwp-services/labcert/documents/AllLabs.xls

Massachusetts Potable and Non Potable Water: M-RI002
http://public.dep.state.ma.us/Labcert/Labcert.aspx

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424
http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313
http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006
http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

United States Department of Agriculture Soil Permit: P330-12-00139

Pennsylvania: 68-01752
http://www.depweb.state.pa.us/portal/server.pt/community/labs/13780/laboratory_accreditation_program/590095

CHEMISTRY

A2LA Accredited: Testing Cert # 2864.01
Lead in Paint, Phthalates, Lead in Children's Metals Products (Including Jewelry)
http://www.A2LA.org/dirsearchnew/newsearch.cfm

CPSC ID# 1141
Lead Paint, Lead in Children's Metals Jewelry
http://www.cpsc.gov/cgi-bin/labapplist.aspx

LABORATORY TESTING DATA SHEET

Project Name Wynn Everett | Project Location Everett, MA | Reviewed By Matthew Daly

Project No. 01.0171521.13 **ESS-1503447** | Assigned By D. Scanlon

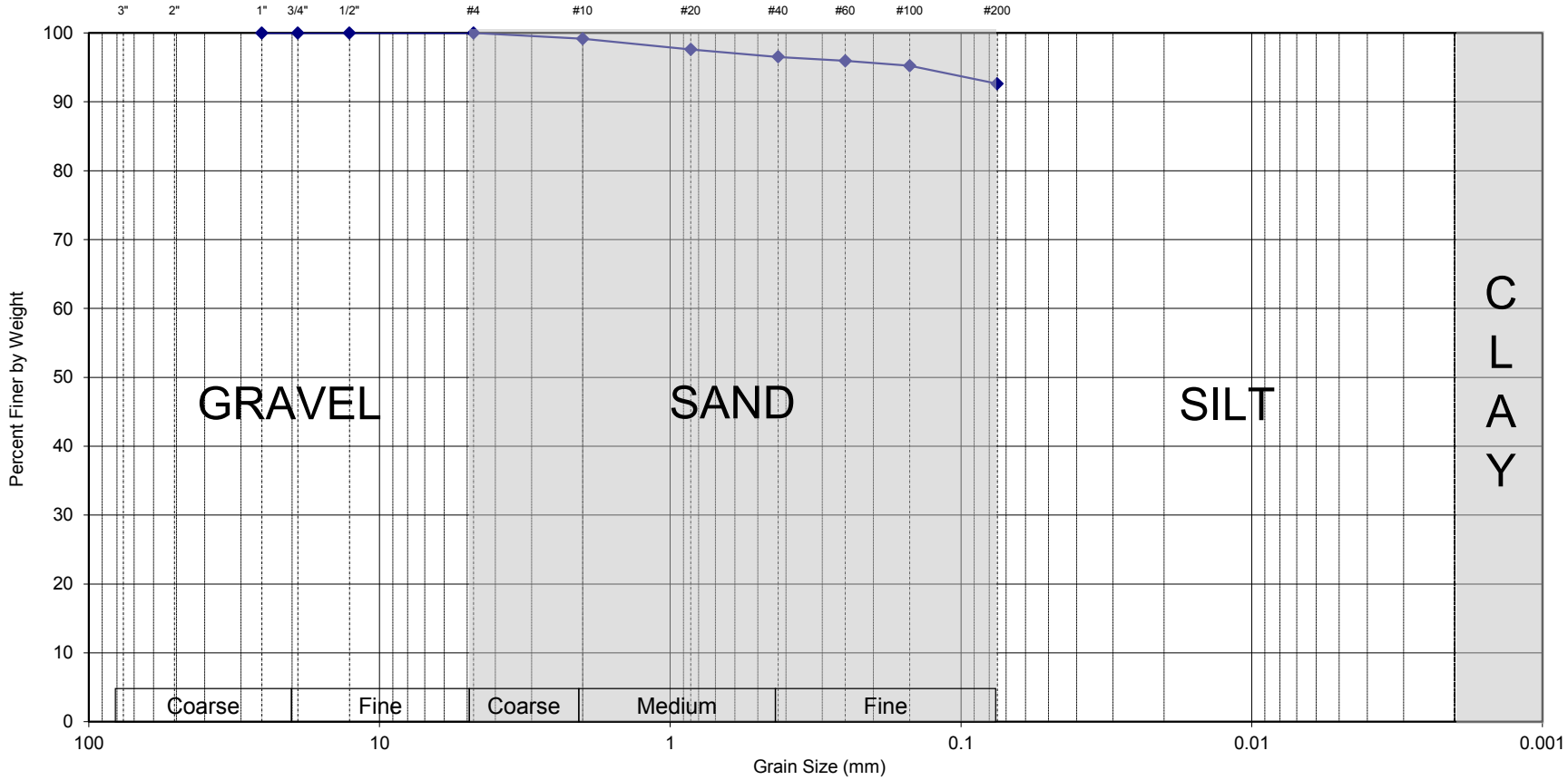
Project Manager D. Leone/C. Taylor | Report Date 3/27/15 | Date Reviewed *3/27/15*

Boring ID	Depth (ft)	ESS Sample ID	Lab No.	Identification Tests								Strength Tests				Laboratory Log and Soil Description
				Water Content %	LL %	PL %	Sieve -200 %	Hyd -2µ %	ORG %	G_s	Dry unit wt. pcf	Torvane or Type Test	Failure Criteria	$\sigma_1 - \sigma_3$ psf	Strain %	
GZ-207	0-3	1503447-09	15-S-242	249.9			92.6									Dark gray Organic SILT, trace Sand

THIELSCH ENGINEERING

195 Frances Avenue
Cranston, RI 02910 401-467-6454

U.S. STANDARD SIEVE AND HYDROMETER



Gravel	Sand	Fines
0.0%	7.4%	92.6%

Lab #	Sample ID	ESS Sample ID	Sample Date	Description	WC	LL	PL	PI
15-S-242	B-207	1503447-09	3/25/15	Dark gray Organic SILT, trace Sand	250			

Sieve Size	% Passing
¾"	100.0
½"	100.0
#4	100.0
#10	99.2
#20	97.6
#40	96.5
#60	95.9
#100	95.3
#200	92.6

THIELSCH ENGINEERING
195 Frances Ave., Cranston, RI 02109
401-467-6454

Wynn Everett
ESS Project 1503447
GZA File # 01.0171521.13

Tested by:	MK/MS	Date:	3/27/15
Reviewed by:	MBP	Date:	3/27/15

SOILS LABORATORY TESTING ASSIGNMENT SHEET

THIELSCH ENGINEERING 401-467-6454 195 Frances Ave., Cranston, RI 02910

Project Name **Wynn Everett** Client _____ Assigned By _____

CTS Project No. **74-14-0002.01** Site Location _____ Collected By _____

ESS Project No. **1503447** Date Assigned _____ Received By _____

Project Manager **Christine Taylor** Date Received _____ Date Required **5 DAY - 4/2/15**

Sample Information					Lab No.	Identification Tests							Permeability		Compaction			Strength		Consol.	Notes
Boring/ Test Pit No.	Sample No.	Depth Ft.	Sample Date	ESS SAMPLE ID		Water Cont. %	LL & PL %	Org. %	Sieve -200 %	Hyd -2μ %	G_s	γ_t pcf	Sand	Clay	Mod.	Std.	CBR	Tor-vane	Type Test $\frac{\sigma_c \text{ or } \sigma^c}{}$	Cc/ 1+eo	#
						D2216	D4318	D2974	D422		D854		D2434	D5084	D1557	D698	D1883		D2166/ D4767/ D2850	D2435	
GZ-207	0'-3'		3/25/15	1503447-09		X			X												

Notes: _____

Sample and Cooler Receipt Checklist

Client: GZA GeoEnvironmental, Inc.
Client Project ID: _____
Shipped/Delivered Via: ESS Courier

ESS Project ID: 15030447
Date Project Due: 4/2/15
Days For Project: 5 Day

Items to be checked upon receipt:

1. Air Bill Manifest Present?	* No	10. Are the samples properly preserved?	Yes
Air No.:		11. Proper sample containers used?	Yes
2. Were Custody Seals Present?	No	12. Any air bubbles in the VOA vials?	N/A
3. Were Custody Seals Intact?	N/A	13. Holding times exceeded?	No
4. Is Radiation count < 100 CPM?	Yes	14. Sufficient sample volumes?	Yes
5. Is a cooler present?	Yes	15. Any Subcontracting needed?	* Yes
Cooler Temp: **4.2**		16. Are ESS labels on correct containers?	**Yes|No**
Iced With: **Ice**		17. Were samples received intact?	**Yes|No**
6. Was COC included with samples?	Yes	ESS Sample IDs: _____	
7. Was COC signed and dated by client?	Yes	Sub Lab: _____	
8. Does the COC match the sample	Yes	Analysis: _____	
9. Is COC complete and correct?	Yes	TAT: _____	

18. Was there need to call project manager to discuss status? If yes, please explain.
Added -23-29 for PCB Drying nr 3/30/15

Who was called?:_____ By whom? _____

Sample Number	Properly Preserved	Container Type	# of Containers	Preservative
1	Yes	8 oz Soil Jar	2	NP
2	Yes	8 oz Soil Jar	2	NP
3	Yes	2 oz Soil Jar	1	NP
3	Yes	8 oz Soil Jar	2	NP
4	Yes	8 oz Soil Jar	2	NP
5	Yes	2 oz Soil Jar	1	NP
5	Yes	8 oz Soil Jar	2	NP
6	Yes	8 oz Soil Jar	2	NP
7	Yes	2 oz Soil Jar	1	NP
7	Yes	8 oz Soil Jar	2	NP
8	Yes	2 oz Soil Jar	1	NP
8	Yes	8 oz Soil Jar	2	NP
9	Yes	4 oz Soil Jar	1	NP
9	Yes	40 ml - VOA	1	MeOH
9	Yes	40 ml - VOA	2	other
9	Yes	8 oz Soil Jar	2	NP
9	Yes	Other Glass	1	NP
10	Yes	8 oz Soil Jar	2	NP
11	Yes	8 oz Soil Jar	2	NP
12	Yes	8 oz Soil Jar	1	NP
13	Yes	8 oz Soil Jar	1	NP
14	Yes	8 oz Soil Jar	1	NP
15	Yes	8 oz Soil Jar	1	NP
16	Yes	8 oz Soil Jar	1	NP
17	Yes	8 oz Soil Jar	1	NP

Sample and Cooler Receipt Checklist

Client: GZA GeoEnvironmental, Inc. ESS Project ID: 15030447

18	Yes	8 oz Soil Jar	1	NP
19	Yes	8 oz Soil Jar	1	NP
20	Yes	8 oz Soil Jar	1	NP
21	Yes	8 oz Soil Jar	1	NP
22	Yes	8 oz Soil Jar	1	NP
23	Yes	8 oz Soil Jar	1	NP
24	Yes	8 oz Soil Jar	1	NP
25	Yes	8 oz Soil Jar	1	NP
26	Yes	8 oz Soil Jar	1	NP
27	Yes	8 oz Soil Jar	1	NP
28	Yes	8 oz Soil Jar	1	NP
29	Yes	8 oz Soil Jar	1	NP

Completed By: _____ Date/Time: 3/30/15 1218

Reviewed By: _____ Date/Time: _____

Sample and Cooler Receipt Checklist

Client: GZA GeoEnvironmental, Inc.
Client Project ID: _____
Shipped/Delivered Via: ESS Courier

ESS Project ID: 15030447
Date Project Due: 4/2/15
Days For Project: 5 Day

Items to be checked upon receipt:

1. Air Bill Manifest Present?	* No	10. Are the samples properly preserved?	Yes
Air No.:		11. Proper sample containers used?	Yes
2. Were Custody Seals Present?	No	12. Any air bubbles in the VOA vials?	N/A
3. Were Custody Seals Intact?	N/A	13. Holding times exceeded?	No
4. Is Radiation count < 100 CPM?	Yes	14. Sufficient sample volumes?	Yes
5. Is a cooler present?	Yes	15. Any Subcontracting needed?	* Yes
Cooler Temp: **4.2**		16. Are ESS labels on correct containers?	Yes | No
Iced With: **Ice**		17. Were samples received intact?	Yes | No
6. Was COC included with samples?	Yes	ESS Sample IDs:	09
7. Was COC signed and dated by client?	Yes	Sub Lab:	CTS
8. Does the COC match the sample	Yes	Analysis:	Gram Size / % Water
9. Is COC complete and correct?	Yes	TAT:	5DAY

18. Was there need to call project manager to discuss status? If yes, please explain.
LC Vials frozen 3/26/15 1218 WS 3/26/15

Who was called?: _____ By whom? _____

Sample Number	Properly Preserved	Container Type	# of Containers	Preservative
1	Yes	8 oz Soil Jar	2	NP
2	Yes	8 oz Soil Jar	2	NP
3	Yes	2 oz Soil Jar	1	NP
3	Yes	8 oz Soil Jar	2	NP
4	Yes	8 oz Soil Jar	2	NP
5	Yes	2 oz Soil Jar	1	NP
5	Yes	8 oz Soil Jar	2	NP
6	Yes	8 oz Soil Jar	2	NP
7	Yes	2 oz Soil Jar	1	NP
7	Yes	8 oz Soil Jar	2	NP
8	Yes	2 oz Soil Jar	1	NP
8	Yes	8 oz Soil Jar	2	NP
9	Yes	4 oz Soil Jar	1	NP
9	Yes	40 ml - VOA	1	MeOH
9	Yes	40 ml - VOA	2	other
9	Yes	8 oz Soil Jar	2	NP
9	Yes	Other Glass	1	NP
10	Yes	8 oz Soil Jar	2	NP
11	Yes	8 oz Soil Jar	2	NP
12	Yes	8 oz Soil Jar	1	NP
13	Yes	8 oz Soil Jar	1	NP
14	Yes	8 oz Soil Jar	1	NP
15	Yes	8 oz Soil Jar	1	NP
16	Yes	8 oz Soil Jar	1	NP
17	Yes	8 oz Soil Jar	1	NP

Sample and Cooler Receipt Checklist

Client: GZA GeoEnvironmental, Inc. ESS Project ID: 15030447

18	Yes	8 oz Soil Jar	1	NP
19	Yes	8 oz Soil Jar	1	NP
20	Yes	8 oz Soil Jar	1	NP
21	Yes	8 oz Soil Jar	1	NP
22	Yes	8 oz Soil Jar	1	NP

Completed By: _____ Date/Time: 3/26/15 1317

Reviewed By: _____ Date/Time: 3/26/15 1326

ESS Laboratory
Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

ESS LAB PROJECT ID: 1503447

Turn Time ___X___ Standard Rush_____ Approved By: _____

Reporting Limits -

State where samples were collected: **MA** RI CT NH NJ NY ME Other_____

Is this project for any of the following: (please circle)
MA-MCP CT-RCP NJ-DKQP RGP DOD Other____

Electonic Deliverable Yes____ No____
Format: Excel___ Access___ PDF___ Other_____

GZA Project Manager: David E. Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Ave
Norwood, MA 02062
(781) 278-3700

Project No.: 01.0171521.13 Task 001
Project Name: Wynn - Everett
Contract Pricing _____
Special Pricing WO#: _____

	ESS Lab Sample ID	Date	Collection Time	Grab -G Composite-C	Matrix	Sample Identification	# of Containers	MCP-14 Metals	PAHs by SIM	TOC	SVOCs	PCBs (Aroclors)	EPH	Hexavalent Chromium	Reactivity (Sulfide and Cyanide)	VOCs	% water	Grain Size Analysis	Comment #
								Analysis											
23	1 12	3-25-15	0930	G	S	GZ-209 (0'-0.5')		X	X	X	X	X	X						
						GZ-209 (0.5'-2')		HOLD AND FREEZE											
24	2 13					GZ-209 (2'-4')		X	X	X	X	X	X						
						GZ-209 (4'-6')		HOLD AND FREEZE											
25	3 14		↓			GZ-209 (6'-8')		X	X										
26	4 15		10:00			GZ-208 (0'-0.5')		X	X	X	X	X	X						
27						GZ-208 (0.5'-2')		HOLD AND FREEZE											
						GZ-208 (2'-4')		HOLD AND FREEZE											
28	5 16					GZ-208 (4'-6')		X	X										
		↓	↓	↓	↓	GZ-208 (6'-8')		HOLD AND FREEZE											

Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-_____

Container Type: P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filter

Cooler Present ___X___ Yes _____ No

Seals Intact _____ Yes _____ No NA: X

Cooler Temperature: 3.8°/4.2° ICE 3/26/15

Sampled by : Daniel Scanlon (Daniel.Scanlon@gza.com)

Comments: (1) TCLP 20X Rule Applies

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	3/25/15 @ 1800	0830 Bill Beacon 3/26/15	0845 Bill Beacon 3/26/15		3/26/15 1011

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Tel. (401) 461-7181 Fax (401) 461-4486
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CHAIN OF CUSTODY

ESS LAB PROJECT ID: 1503447

Turn Time ___X___ Standard Rush_____ Approved By: _____

Reporting Limits -

State where samples were collected: **MA** RI CT NH NJ NY ME Other_____

Is this project for any of the following: (please circle)
MA-MCP CT-RCP NJ-DKQP RGP DOD Other____

Electonic Deliverable Yes____ No____
Format: Excel___ Access___ PDF___ Other_____

GZA Project Manager: David E. Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Ave
Norwood, MA 02062
(781) 278-3700

Project No.: 01.0171521.13 Task 001
Project Name: Wynn - Everett
Contract Pricing _____
Special Pricing WO#: _____

ESS Lab Sample ID	Date	Collection Time	Grab -G Composite-C	Matrix	Sample Identification	# of Containers	Analysis: MCP-14 Metals	PAHs by SIM	TOC	SVOCs	PCBs (Aroclors)	EPH	Hexavalent Chromium	Reactivity (Sulfide and Cyanide)	VOCs	% water	Grain Size Analysis	Comment #
6 17	3-25-15	1045	G	S	GZ-207 (0'-0.5')		X	X	X	X	X	X						
					GZ-207 (0.5'-2')		HOLD	AND	FREEZE									
					GZ-207 (2'-4')		HOLD	AND	FREEZE									
7 18					GZ-207 (4'-6')		X	X										
8 19		↓			GZ-207 (6-7.5')		X	X										
9 20		1045			GZ-207 (0'-3')		X		X	X	X	X	X	X	X	X	X	(1)
10 21		1110			GZ-206 (0'-0.5')		X	X	X	X	X	X						
					GZ-206 (0.5'-2')		HOLD	AND	FREEZE									
					GZ-206 (2'-4')		HOLD	AND	FREEZE									
11 22	↓	↓	↓	↓	GZ-206 (4'-6')		X	X	X	X	X	X						

Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-_____

Container Type: P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filter

Cooler Present ___X___ Yes _____No
Seals Intact _____ Yes _____No NA: K
Cooler Temperature: 3.8°/4.2° ICE NP 3/26/15

Sampled by : Daniel Scanlon (Daniel.Scanlon@gza.com)

Comments: (1) TCLP 20X Rule Applies

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	3-25-15 @ 1800	0630 3/26/15	0845 3/26/15		1011 3/26/15

Page 2 of 5

CERTIFICATE OF ANALYSIS

David E Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Avenue
Norwood, MA 02062

RE: Wynn Everett Sediment Phase (01.0171521.13 Task 001)
ESS Laboratory Work Order Number: 1503448

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard
Laboratory Director

REVIEWED
By ESS Laboratory at 9:48 am, Apr 10, 2015

Analytical Summary
The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with NELAC Standards, A2LA and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.

Subcontracted Analyses
CTS - Cranston, RI — Grain Size Analysis, Percent Water

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503448

SAMPLE RECEIPT

The following samples were received on March 26, 2015 for the analyses specified on the enclosed Chain of Custody Record.

To achieve CAM compliance for MCP data, ESS Laboratory has performed and reviewed all QA/QC Requirements and Performance Standards listed in each method. Holding times and preservation have also been reviewed. All CAM requirements have been achieved unless noted in the project narrative.

Each method has been set-up in the laboratory to reach required MCP standards. The methods for aqueous VOA and Soil Methanol VOA have known limitations for certain analytes. The regulatory standards may not be achieved due to these limitations. In addition, for all methods, matrix interferences, dilutions, and %Solids may elevate method reporting limits above regulatory standards. ESS Laboratory can provide, upon request, a Data Checker (regulatory standard comparison spreadsheet) electronic deliverable which will highlight these exceedances.

For EPH soil samples, the aromatic range results have been corrected for identified cartridge contaminant in accordance with the CAM protocol.

Low Level VOA vials were frozen by ESS Laboratory on March 26, 2015 at 1325.

Question I: Samples GZ-205 (4-6), GZ-205 (6-8), GZ--213 (4-6), GZ-218 (4-6), and GZ-219 (4-6) samples for SVOC were analyzed for a subset of the required MCP list per the client's request.

Samples were decanted, per client request, upon receipt by ESS.

Lab Number	Sample Name	Matrix	Analysis
1503448-01	GZ-206 0ft-3ft	Soil	§, 2580, 7.3.3.2, 7.3.4.1, 7196A, 8260B, 8260B Low, 8270D, 9045, EPH8270, MADEP-EPH
1503448-02	GZ-205 0ft-0.5ft	Soil	8270D, EPH8270, MADEP-EPH
1503448-03	GZ-205 4ft-6ft	Soil	8270D
1503448-04	GZ-205 6ft-8ft	Soil	8270D
1503448-05	GZ-205 0ft-3ft	Soil	§, 2580, 7.3.3.2, 7.3.4.1, 7196A, 8260B Low, 8270D, 9045, EPH8270, MADEP-EPH
1503448-06	GZ-213 0ft-0.5ft	Soil	8270D, EPH8270, MADEP-EPH
1503448-07	GZ-213 4ft-6ft	Soil	8270D
1503448-08	GZ-213 0ft-3ft	Soil	§, 2580, 7.3.3.2, 7.3.4.1, 7196A, 8260B Low, 8270D, 9045, EPH8270, MADEP-EPH
1503448-09	GZ-218 0ft-0.5ft	Soil	8270D, EPH8270, MADEP-EPH
1503448-10	GZ-218 0.5ft-2ft	Soil	8270D, EPH8270, MADEP-EPH
1503448-11	GZ-218 4ft-6ft	Soil	8270D
1503448-12	GZ-219 0ft-0.5ft	Soil	8270D, EPH8270, MADEP-EPH
1503448-13	GZ-219 4ft-6ft	Soil	8270D

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase ESS Laboratory Work Order: 1503448

1503448-14	GZ-219 0ft-3ft	Soil	§, 2580, 7.3.3.2, 7.3.4.1, 7196A, 8260B Low, 8270D, 9045, EPH8270, MADEP-EPH
1503448-15	GZ-206 0ft-3ft	Soil	6010C, 7010, 7471B
1503448-16	GZ-205 0ft-0.5ft	Soil	6010C, 7010, 7471B
1503448-17	GZ-205 4ft-6ft	Soil	6010C, 7010, 7471B
1503448-18	GZ-205 6ft-8ft	Soil	6010C, 7010, 7471B
1503448-19	GZ-205 0ft-3ft	Soil	6010C, 7010, 7471B
1503448-20	GZ-213 0ft-0.5ft	Soil	6010C, 7010, 7471B
1503448-21	GZ-213 4ft-6ft	Soil	6010C, 7010, 7471B
1503448-22	GZ-213 0ft-3ft	Soil	6010C, 7010, 7471B
1503448-23	GZ-218 0ft-0.5ft	Soil	6010C, 7010, 7471B
1503448-24	GZ-218 0.5ft-2ft	Soil	6010C, 7010, 7471B
1503448-25	GZ-218 4ft-6ft	Soil	6010C, 7010, 7471B
1503448-26	GZ-219 0ft-0.5ft	Soil	6010C, 7010, 7471B
1503448-27	GZ-219 4ft-6ft	Soil	6010C, 7010, 7471B
1503448-28	GZ-219 0ft-3ft	Soil	6010C, 7010, 7471B
1503448-29	GZ-206 0ft-3ft	Soil	8082A
1503448-30	GZ-205 0ft-0.5ft	Soil	8082A
1503448-31	GZ-205 0ft-3ft	Soil	8082A
1503448-32	GZ-213 0ft-0.5ft	Soil	8082A
1503448-33	GZ-213 0ft-3ft	Soil	8082A
1503448-34	GZ-218 0ft-0.5ft	Soil	8082A
1503448-35	GZ-218 0.5ft-2ft	Soil	8082A
1503448-36	GZ-219 0ft-0.5ft	Soil	8082A
1503448-37	GZ-219 0ft-3ft	Soil	8082A

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503448

PROJECT NARRATIVE

5035/8260B Volatile Organic Compounds / Low Level

1503448-01 **Reported above the quantitation limit; Estimated value (E).**
2-Chlorotoluene , 4-Chlorotoluene , Naphthalene

CC52627-BS1 **Blank Spike recovery is above upper control limit (B+).**
Bromomethane (185% @ 70-130%)

CC52627-BSD1 **Blank Spike recovery is above upper control limit (B+).**
Bromomethane (152% @ 70-130%)

CC52716-BS1 **Blank Spike recovery is above upper control limit (B+).**
Acetone (160% @ 70-130%), Bromomethane (155% @ 70-130%)

CC52716-BSD1 **Blank Spike recovery is above upper control limit (B+).**
Bromomethane (150% @ 70-130%)

CC52716-BSD1 **Relative percent difference for duplicate is outside of criteria (D+).**
Acetone (55% @ 25%)

CYC0308-CCV1 **Continuing Calibration recovery is above upper control limit (C+).**
Bromomethane (171% @ 70-130%)

CYC0324-CCV1 **Continuing Calibration recovery is above upper control limit (C+).**
Bromomethane (150% @ 70-130%)

5035/8260B Volatile Organic Compounds / Methanol

1503448-01 **Present in Method Blank (B).**
Acetone

CC52745-BS1 **Blank Spike recovery is above upper control limit (B+).**
Acetone (141% @ 70-130%)

CC52745-BSD1 **Blank Spike recovery is above upper control limit (B+).**
Acetone (140% @ 70-130%)

8082A Polychlorinated Biphenyls (PCB)

1503448-29 **Surrogate recovery(ies) diluted below the MRL (SD).**
Decachlorobiphenyl (% @ 30-150%), Decachlorobiphenyl [2C] (% @ 30-150%), Tetrachloro-m-xylene (% @ 30-150%), Tetrachloro-m-xylene [2C] (% @ 30-150%)

1503448-30 **Percent difference between primary and confirmation results exceeds 40% (P).**
Aroclor 1248 , Aroclor 1260

1503448-31 **Surrogate recovery(ies) diluted below the MRL (SD).**
Decachlorobiphenyl (% @ 30-150%), Decachlorobiphenyl [2C] (% @ 30-150%), Tetrachloro-m-xylene (% @ 30-150%), Tetrachloro-m-xylene [2C] (% @ 30-150%)

1503448-32 **Percent difference between primary and confirmation results exceeds 40% (P).**
Aroclor 1248

1503448-34 **Lower value is used due to matrix interferences (LC).**
Aroclor 1248

1503448-34 **Percent difference between primary and confirmation results exceeds 40% (P).**
Aroclor 1248

1503448-36 **Percent difference between primary and confirmation results exceeds 40% (P).**

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase Aroclor 1248

ESS Laboratory Work Order: 1503448

8270D Semi-Volatile Organic Compounds

1503448-02	**Internal Standard(s) outside of criteria due to matrix (UCM/coelution is present) (IM).**
	Chrysene-d12 (217% @ 50-200%), Perylene-d12 (205% @ 50-200%)
1503448-06	**Internal Standard(s) outside of criteria due to matrix (UCM/coelution is present) (IM).**
	Chrysene-d12 (205% @ 50-200%)
1503448-10	**Internal Standard(s) outside of criteria due to matrix (UCM/coelution is present) (IM).**
	Perylene-d12 (204% @ 50-200%)
1503448-10	**Surrogate recovery(ies) below lower control limit (S-).**
	2,4,6-Tribromophenol (27% @ 30-130%)
CD50205-BS1	**Blank Spike recovery is below lower control limit (B-).**
	Aniline (32% @ 40-140%), bis(2-chloroisopropyl)Ether (36% @ 40-140%)
CD50205-BSD1	**Blank Spike recovery is below lower control limit (B-).**
	Aniline (32% @ 40-140%)
CYC0348-CCV1	**Continuing Calibration recovery is above upper control limit (C+).**
	2,4,6-Tribromophenol (135% @ 80-120%), 4-Nitrophenol (131% @ 80-120%)
CYC0348-CCV1	**Continuing Calibration recovery is below lower control limit (C-).**
	2,4-Dinitrophenol (68% @ 80-120%), bis(2-chloroisopropyl)Ether (74% @ 80-120%)
CYC0348-TUN1	**Pentachlorophenol tailing factor > 2.**
CYC0357-CCV1	**Continuing Calibration recovery is above upper control limit (C+).**
	2,4,6-Tribromophenol (129% @ 80-120%), 4-Nitrophenol (122% @ 80-120%)
CYC0357-CCV1	**Continuing Calibration recovery is below lower control limit (C-).**
	bis(2-chloroisopropyl)Ether (78% @ 80-120%)
CYC0357-TUN1	**Pentachlorophenol tailing factor > 2.**

8270D(SIM) Polynuclear Aromatic Hydrocarbons

1503448-03	**Elevated Method Reporting Limits due to sample matrix (EL).**
1503448-10	**Elevated Method Reporting Limits due to sample matrix (EL).**
CC52823-BSD1	**Relative percent difference for duplicate is outside of criteria (D+).**
	Hexachlorobenzene (39% @ 30%)
CYC0345-CCV1	**Continuing Calibration recovery is above upper control limit (C+).**
	Hexachlorobenzene (178% @ 70-130%)
CYD0018-CCV1	**Continuing Calibration recovery is above upper control limit (C+).**
	Hexachlorobenzene (158% @ 70-130%)

Classical Chemistry

1503448-01	**Estimated value. Sample hold times were exceeded (H).**
	Corrosivity (pH) , Eh (ORP)
1503448-05	**Estimated value. Sample hold times were exceeded (H).**
	Corrosivity (pH) , Eh (ORP)
1503448-08	**Estimated value. Sample hold times were exceeded (H).**
	Corrosivity (pH) , Eh (ORP)
1503448-14	**Estimated value. Sample hold times were exceeded (H).**
	Corrosivity (pH) , Eh (ORP)

Total Metals

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase ESS Laboratory Work Order: 1503448

CC52816-BS1 **Blank Spike recovery is above upper control limit (B+).**
Antimony (134% @ 80-120%)

CC52816-BSD1 **Relative percent difference for duplicate is outside of criteria (D+).**
Zinc (32% @ 20%)

No other observations noted.

End of Project Narrative.

DATA USABILITY LINKS

Definitions of Quality Control Parameters

Semivolatile Organics Internal Standard Information

Semivolatile Organics Surrogate Information

Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503448

CURRENT SW-846 METHODOLOGY VERSIONS

Analytical Methods

1010A - Flashpoint
6010C - ICP
6020A - ICP MS
7010 - Graphite Furnace
7196A - Hexavalent Chromium
7470A - Aqueous Mercury
7471B - Solid Mercury
8011 - EDB/DBCP/TCP
8015D - GRO/DRO
8081B - Pesticides
8082A - PCB
8100M - TPH
8151A - Herbicides
8260B - VOA
8270D - SVOA
8270D SIM - SVOA Low Level
9014 - Cyanide
9038 - Sulfate
9040C - Aqueous pH
9045D - Solid pH (Corrosivity)
9050A - Specific Conductance
9056A - Anions (IC)
9060A - TOC
9095B - Paint Filter
MADEP 04-1.1 - EPH / VPH

Prep Methods

3005A - Aqueous ICP and Graphite Furnace Digestion
3020A - Aqueous ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3546 - Microwave Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5030C - Aqueous Purge and Trap
5035 - Solid Purge and Trap

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503448

MassDEP Analytical Protocol Certification Form

MADEP RTN: _____

This form provides certification for the following data set: **1503448-01 through 1503448-37**

Matrices: ( ) Ground Water/Surface Water (X) Soil/Sediment ( ) Drinking Water ( ) Air ( ) Other:_____

CAM Protocol (check all that apply below):

(X) 8260 VOC CAM II A	(X) 7470/7471 Hg CAM III B	( ) MassDEP VPH CAM IV A	( ) 8081 Pesticides CAM V B	(X) 7196 Hex Cr CAM VI B	( ) MassDEP APH CAM IX A
(X) 8270 SVOC CAM II B	(X) 7010 Metals CAM III C	(X) MassDEP EPH CAM IV B	( ) 8151 Herbicides CAM V C	( ) 8330 Explosives CAM VIII A	( ) TO-15 VOC CAM IX B
(X) 6010 Metals CAM III A	( ) 6020 Metals CAM III D	(X) 8082 PCB CAM V A	( ) 6860 Perchlorate CAM VIII B	( ) 9014 Total Cyanide/PAC CAM VI A	

Affirmative responses to questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	Yes ( ) No (X)
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	Yes (X) No ( )
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	Yes (X) No ( )
D	Does the laboratory report comply with all the reporting requirements specified in the CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	Yes (X) No ( )
E	a. VPH, EPH, APH and TO-15 only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	Yes (X) No ( )
	b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	Yes ( ) No ( )
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	Yes (X) No ( )

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocols(s)?	Yes (X) No ( )*
	***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**	
H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	Yes ( ) No (X)*
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	Yes ( ) No (X)*

All negative responses must be addressed in an attached laboratory narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: _____ Date: April 10, 2015

Printed Name: Laurel Stoddard Position: Laboratory Director

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-206 0ft-3ft
Date Sampled: 03/25/15 11:10
Percent Solids: 34
Initial Volume: 5.1
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1503448
ESS Laboratory Sample ID: 1503448-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.0143)		8260B Low		1	03/26/15 15:40	CYC0308	CC52627
1,1,1-Trichloroethane	ND (0.0143)		8260B Low		1	03/26/15 15:40	CYC0308	CC52627
1,1,2,2-Tetrachloroethane	ND (0.0057)		8260B Low		1	03/26/15 15:40	CYC0308	CC52627
1,1,2-Trichloroethane	ND (0.0143)		8260B Low		1	03/26/15 15:40	CYC0308	CC52627
1,1-Dichloroethane	ND (0.0143)		8260B Low		1	03/26/15 15:40	CYC0308	CC52627
1,1-Dichloroethene	ND (0.0143)		8260B Low		1	03/26/15 15:40	CYC0308	CC52627
1,1-Dichloropropene	ND (0.0143)		8260B Low		1	03/26/15 15:40	CYC0308	CC52627
1,2,3-Trichlorobenzene	ND (0.0143)		8260B Low		1	03/26/15 15:40	CYC0308	CC52627
1,2,3-Trichloropropane	ND (0.0143)		8260B Low		1	03/26/15 15:40	CYC0308	CC52627
1,2,4-Trichlorobenzene	ND (0.0143)		8260B Low		1	03/26/15 15:40	CYC0308	CC52627
1,2,4-Trimethylbenzene	**0.0716** (0.0143)		8260B Low		1	03/26/15 15:40	CYC0308	CC52627
1,2-Dibromo-3-Chloropropane	ND (0.0143)		8260B Low		1	03/26/15 15:40	CYC0308	CC52627
1,2-Dibromoethane	ND (0.0143)		8260B Low		1	03/26/15 15:40	CYC0308	CC52627
1,2-Dichlorobenzene	ND (0.0143)		8260B Low		1	03/26/15 15:40	CYC0308	CC52627
1,2-Dichloroethane	ND (0.0143)		8260B Low		1	03/26/15 15:40	CYC0308	CC52627
1,2-Dichloropropane	ND (0.0143)		8260B Low		1	03/26/15 15:40	CYC0308	CC52627
1,3,5-Trimethylbenzene	**0.0448** (0.0143)		8260B Low		1	03/26/15 15:40	CYC0308	CC52627
1,3-Dichlorobenzene	ND (0.0143)		8260B Low		1	03/26/15 15:40	CYC0308	CC52627
1,3-Dichloropropane	ND (0.0143)		8260B Low		1	03/26/15 15:40	CYC0308	CC52627
1,4-Dichlorobenzene	ND (0.0143)		8260B Low		1	03/26/15 15:40	CYC0308	CC52627
1,4-Dioxane	ND (0.285)		8260B Low		1	03/26/15 15:40	CYC0308	CC52627
2,2-Dichloropropane	ND (0.0143)		8260B Low		1	03/26/15 15:40	CYC0308	CC52627
2-Butanone	**0.316** (0.0285)		8260B Low		1	03/26/15 15:40	CYC0308	CC52627
2-Chlorotoluene	**E 3.35** (0.0143)		8260B Low		1	03/26/15 15:40	CYC0308	CC52627
2-Hexanone	ND (0.0285)		8260B Low		1	03/26/15 15:40	CYC0308	CC52627
4-Chlorotoluene	**E 1.89** (0.0143)		8260B Low		1	03/26/15 15:40	CYC0308	CC52627
4-Isopropyltoluene	ND (0.0143)		8260B Low		1	03/26/15 15:40	CYC0308	CC52627
4-Methyl-2-Pentanone	ND (0.0285)		8260B Low		1	03/26/15 15:40	CYC0308	CC52627
Acetone	**1.75** (0.0285)		8260B Low		1	03/26/15 15:40	CYC0308	CC52627
Benzene	**0.0469** (0.0143)		8260B Low		1	03/26/15 15:40	CYC0308	CC52627
Bromobenzene	ND (0.0143)		8260B Low		1	03/26/15 15:40	CYC0308	CC52627
Bromochloromethane	ND (0.0143)		8260B Low		1	03/26/15 15:40	CYC0308	CC52627

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-206 0ft-3ft
Date Sampled: 03/25/15 11:10
Percent Solids: 34
Initial Volume: 5.1
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1503448
ESS Laboratory Sample ID: 1503448-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Bromodichloromethane	ND (0.0143)		8260B Low		1	03/26/15 15:40	CYC0308	CC52627
Bromoform	ND (0.0143)		8260B Low		1	03/26/15 15:40	CYC0308	CC52627
Bromomethane	ND (0.0285)		8260B Low		1	03/26/15 15:40	CYC0308	CC52627
Carbon Disulfide	**0.0422** (0.0143)		8260B Low		1	03/26/15 15:40	CYC0308	CC52627
Carbon Tetrachloride	ND (0.0143)		8260B Low		1	03/26/15 15:40	CYC0308	CC52627
Chlorobenzene	**0.0641** (0.0143)		8260B Low		1	03/26/15 15:40	CYC0308	CC52627
Chloroethane	ND (0.0285)		8260B Low		1	03/26/15 15:40	CYC0308	CC52627
Chloroform	ND (0.0143)		8260B Low		1	03/26/15 15:40	CYC0308	CC52627
Chloromethane	ND (0.0285)		8260B Low		1	03/26/15 15:40	CYC0308	CC52627
cis-1,2-Dichloroethene	ND (0.0143)		8260B Low		1	03/26/15 15:40	CYC0308	CC52627
cis-1,3-Dichloropropene	ND (0.0143)		8260B Low		1	03/26/15 15:40	CYC0308	CC52627
Dibromochloromethane	ND (0.0057)		8260B Low		1	03/26/15 15:40	CYC0308	CC52627
Dibromomethane	ND (0.0143)		8260B Low		1	03/26/15 15:40	CYC0308	CC52627
Dichlorodifluoromethane	ND (0.0285)		8260B Low		1	03/26/15 15:40	CYC0308	CC52627
Diethyl Ether	ND (0.0143)		8260B Low		1	03/26/15 15:40	CYC0308	CC52627
Di-isopropyl ether	ND (0.0143)		8260B Low		1	03/26/15 15:40	CYC0308	CC52627
Ethyl tertiary-butyl ether	ND (0.0143)		8260B Low		1	03/26/15 15:40	CYC0308	CC52627
Ethylbenzene	**0.398** (0.0143)		8260B Low		1	03/26/15 15:40	CYC0308	CC52627
Hexachlorobutadiene	ND (0.0143)		8260B Low		1	03/26/15 15:40	CYC0308	CC52627
Isopropylbenzene	**0.0155** (0.0143)		8260B Low		1	03/26/15 15:40	CYC0308	CC52627
Methyl tert-Butyl Ether	ND (0.0143)		8260B Low		1	03/26/15 15:40	CYC0308	CC52627
Methylene Chloride	ND (0.0285)		8260B Low		1	03/26/15 15:40	CYC0308	CC52627
Naphthalene	**E 0.994** (0.0143)		8260B Low		1	03/26/15 15:40	CYC0308	CC52627
n-Butylbenzene	ND (0.0143)		8260B Low		1	03/26/15 15:40	CYC0308	CC52627
n-Propylbenzene	ND (0.0143)		8260B Low		1	03/26/15 15:40	CYC0308	CC52627
sec-Butylbenzene	**0.0161** (0.0143)		8260B Low		1	03/26/15 15:40	CYC0308	CC52627
Styrene	ND (0.0143)		8260B Low		1	03/26/15 15:40	CYC0308	CC52627
tert-Butylbenzene	ND (0.0143)		8260B Low		1	03/26/15 15:40	CYC0308	CC52627
Tertiary-amyl methyl ether	ND (0.0143)		8260B Low		1	03/26/15 15:40	CYC0308	CC52627
Tetrachloroethene	ND (0.0143)		8260B Low		1	03/26/15 15:40	CYC0308	CC52627
Tetrahydrofuran	ND (0.0143)		8260B Low		1	03/26/15 15:40	CYC0308	CC52627
Toluene	**0.100** (0.0143)		8260B Low		1	03/26/15 15:40	CYC0308	CC52627

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-206 0ft-3ft
Date Sampled: 03/25/15 11:10
Percent Solids: 34
Initial Volume: 5.1
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1503448
ESS Laboratory Sample ID: 1503448-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
trans-1,2-Dichloroethene	ND (0.0143)		8260B Low		1	03/26/15 15:40	CYC0308	CC52627
trans-1,3-Dichloropropene	ND (0.0143)		8260B Low		1	03/26/15 15:40	CYC0308	CC52627
Trichloroethene	ND (0.0143)		8260B Low		1	03/26/15 15:40	CYC0308	CC52627
Trichlorofluoromethane	ND (0.0143)		8260B Low		1	03/26/15 15:40	CYC0308	CC52627
Vinyl Chloride	ND (0.0285)		8260B Low		1	03/26/15 15:40	CYC0308	CC52627
Xylene O	**0.102** (0.0143)		8260B Low		1	03/26/15 15:40	CYC0308	CC52627
Xylene P,M	**0.143** (0.0285)		8260B Low		1	03/26/15 15:40	CYC0308	CC52627
Xylenes (Total)	**0.245** (0.0285)		8260B Low		1	03/26/15 15:40		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*89 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*85 %*		*70-130*
Surrogate: Dibromofluoromethane	*90 %*		*70-130*
Surrogate: Toluene-d8	*100 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-206 0ft-3ft
Date Sampled: 03/25/15 11:10
Percent Solids: 34
Initial Volume: 14.3
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 1503448
ESS Laboratory Sample ID: 1503448-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Methanol

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.497)		8260B		1	03/27/15 21:08	CYC0336	CC52745
1,1,1-Trichloroethane	ND (0.248)		8260B		1	03/27/15 21:08	CYC0336	CC52745
1,1,2,2-Tetrachloroethane	ND (0.248)		8260B		1	03/27/15 21:08	CYC0336	CC52745
1,1,2-Trichloroethane	ND (0.248)		8260B		1	03/27/15 21:08	CYC0336	CC52745
1,1-Dichloroethane	ND (0.248)		8260B		1	03/27/15 21:08	CYC0336	CC52745
1,1-Dichloroethene	ND (0.248)		8260B		1	03/27/15 21:08	CYC0336	CC52745
1,1-Dichloropropene	ND (0.248)		8260B		1	03/27/15 21:08	CYC0336	CC52745
1,2,3-Trichlorobenzene	ND (0.248)		8260B		1	03/27/15 21:08	CYC0336	CC52745
1,2,3-Trichloropropane	ND (0.248)		8260B		1	03/27/15 21:08	CYC0336	CC52745
1,2,4-Trichlorobenzene	ND (0.248)		8260B		1	03/27/15 21:08	CYC0336	CC52745
1,2,4-Trimethylbenzene	ND (0.248)		8260B		1	03/27/15 21:08	CYC0336	CC52745
1,2-Dibromo-3-Chloropropane	ND (0.993)		8260B		1	03/27/15 21:08	CYC0336	CC52745
1,2-Dibromoethane	ND (0.248)		8260B		1	03/27/15 21:08	CYC0336	CC52745
1,2-Dichlorobenzene	ND (0.248)		8260B		1	03/27/15 21:08	CYC0336	CC52745
1,2-Dichloroethane	ND (0.248)		8260B		1	03/27/15 21:08	CYC0336	CC52745
1,2-Dichloropropane	ND (0.248)		8260B		1	03/27/15 21:08	CYC0336	CC52745
1,3,5-Trimethylbenzene	ND (0.248)		8260B		1	03/27/15 21:08	CYC0336	CC52745
1,3-Dichlorobenzene	ND (0.248)		8260B		1	03/27/15 21:08	CYC0336	CC52745
1,3-Dichloropropane	ND (0.248)		8260B		1	03/27/15 21:08	CYC0336	CC52745
1,4-Dichlorobenzene	ND (0.248)		8260B		1	03/27/15 21:08	CYC0336	CC52745
1,4-Dioxane - Screen	ND (24.8)		8260B		1	03/27/15 21:08	CYC0336	CC52745
2,2-Dichloropropane	ND (0.497)		8260B		1	03/27/15 21:08	CYC0336	CC52745
2-Butanone	ND (0.993)		8260B		1	03/27/15 21:08	CYC0336	CC52745
2-Chlorotoluene	**7.56** (0.248)		8260B		1	03/27/15 21:08	CYC0336	CC52745
2-Hexanone	ND (0.993)		8260B		1	03/27/15 21:08	CYC0336	CC52745
4-Chlorotoluene	**2.25** (0.248)		8260B		1	03/27/15 21:08	CYC0336	CC52745
4-Isopropyltoluene	ND (0.248)		8260B		1	03/27/15 21:08	CYC0336	CC52745
4-Methyl-2-Pentanone	ND (0.993)		8260B		1	03/27/15 21:08	CYC0336	CC52745
Acetone	**B 1.44** (0.993)		8260B		1	03/27/15 21:08	CYC0336	CC52745
Benzene	ND (0.248)		8260B		1	03/27/15 21:08	CYC0336	CC52745
Bromobenzene	ND (0.248)		8260B		1	03/27/15 21:08	CYC0336	CC52745
Bromochloromethane	ND (0.248)		8260B		1	03/27/15 21:08	CYC0336	CC52745

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-206 0ft-3ft
Date Sampled: 03/25/15 11:10
Percent Solids: 34
Initial Volume: 14.3
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 1503448
ESS Laboratory Sample ID: 1503448-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Methanol

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Bromodichloromethane	ND (0.248)		8260B		1	03/27/15 21:08	CYC0336	CC52745
Bromoform	ND (0.248)		8260B		1	03/27/15 21:08	CYC0336	CC52745
Bromomethane	ND (0.497)		8260B		1	03/27/15 21:08	CYC0336	CC52745
Carbon Disulfide	ND (0.248)		8260B		1	03/27/15 21:08	CYC0336	CC52745
Carbon Tetrachloride	ND (0.248)		8260B		1	03/27/15 21:08	CYC0336	CC52745
Chlorobenzene	ND (0.248)		8260B		1	03/27/15 21:08	CYC0336	CC52745
Chloroethane	ND (0.497)		8260B		1	03/27/15 21:08	CYC0336	CC52745
Chloroform	ND (0.248)		8260B		1	03/27/15 21:08	CYC0336	CC52745
Chloromethane	ND (0.497)		8260B		1	03/27/15 21:08	CYC0336	CC52745
cis-1,2-Dichloroethene	ND (0.248)		8260B		1	03/27/15 21:08	CYC0336	CC52745
cis-1,3-Dichloropropene	ND (0.248)		8260B		1	03/27/15 21:08	CYC0336	CC52745
Dibromochloromethane	ND (0.248)		8260B		1	03/27/15 21:08	CYC0336	CC52745
Dibromomethane	ND (0.248)		8260B		1	03/27/15 21:08	CYC0336	CC52745
Dichlorodifluoromethane	ND (0.248)		8260B		1	03/27/15 21:08	CYC0336	CC52745
Diethyl Ether	ND (0.248)		8260B		1	03/27/15 21:08	CYC0336	CC52745
Di-isopropyl ether	ND (0.248)		8260B		1	03/27/15 21:08	CYC0336	CC52745
Ethyl tertiary-butyl ether	ND (0.248)		8260B		1	03/27/15 21:08	CYC0336	CC52745
Ethylbenzene	**0.447** (0.248)		8260B		1	03/27/15 21:08	CYC0336	CC52745
Hexachlorobutadiene	ND (0.248)		8260B		1	03/27/15 21:08	CYC0336	CC52745
Isopropylbenzene	ND (0.248)		8260B		1	03/27/15 21:08	CYC0336	CC52745
Methyl tert-Butyl Ether	ND (0.248)		8260B		1	03/27/15 21:08	CYC0336	CC52745
Methylene Chloride	ND (0.993)		8260B		1	03/27/15 21:08	CYC0336	CC52745
Naphthalene	**4.84** (0.248)		8260B		1	03/27/15 21:08	CYC0336	CC52745
n-Butylbenzene	ND (0.248)		8260B		1	03/27/15 21:08	CYC0336	CC52745
n-Propylbenzene	ND (0.248)		8260B		1	03/27/15 21:08	CYC0336	CC52745
sec-Butylbenzene	ND (0.248)		8260B		1	03/27/15 21:08	CYC0336	CC52745
Styrene	ND (0.248)		8260B		1	03/27/15 21:08	CYC0336	CC52745
tert-Butylbenzene	ND (0.248)		8260B		1	03/27/15 21:08	CYC0336	CC52745
Tertiary-amyl methyl ether	ND (0.248)		8260B		1	03/27/15 21:08	CYC0336	CC52745
Tetrachloroethene	ND (0.248)		8260B		1	03/27/15 21:08	CYC0336	CC52745
Tetrahydrofuran	ND (0.993)		8260B		1	03/27/15 21:08	CYC0336	CC52745
Toluene	ND (0.248)		8260B		1	03/27/15 21:08	CYC0336	CC52745

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-206 0ft-3ft
Date Sampled: 03/25/15 11:10
Percent Solids: 34
Initial Volume: 14.3
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 1503448
ESS Laboratory Sample ID: 1503448-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Methanol

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
trans-1,2-Dichloroethene	ND (0.248)		8260B		1	03/27/15 21:08	CYC0336	CC52745
trans-1,3-Dichloropropene	ND (0.248)		8260B		1	03/27/15 21:08	CYC0336	CC52745
Trichloroethene	ND (0.248)		8260B		1	03/27/15 21:08	CYC0336	CC52745
Trichlorofluoromethane	ND (0.248)		8260B		1	03/27/15 21:08	CYC0336	CC52745
Vinyl Chloride	ND (0.248)		8260B		1	03/27/15 21:08	CYC0336	CC52745
Xylene O	ND (0.248)		8260B		1	03/27/15 21:08	CYC0336	CC52745
Xylene P,M	ND (0.497)		8260B		1	03/27/15 21:08	CYC0336	CC52745
Xylenes (Total)	ND (0.497)		8260B		1	03/27/15 21:08		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*81 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*71 %*		*70-130*
Surrogate: Dibromofluoromethane	*92 %*		*70-130*
Surrogate: Toluene-d8	*76 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-206 0ft-3ft
Date Sampled: 03/25/15 11:10
Percent Solids: 34
Initial Volume: 30.7
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503448
ESS Laboratory Sample ID: 1503448-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: JXS
Prepared: 3/30/15 12:52

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.474)		8270D		1	03/31/15 1:49	CYC0357	CD50205
1,2-Dichlorobenzene	ND (0.474)		8270D		1	03/31/15 1:49	CYC0357	CD50205
1,3-Dichlorobenzene	ND (0.474)		8270D		1	03/31/15 1:49	CYC0357	CD50205
1,4-Dichlorobenzene	ND (0.474)		8270D		1	03/31/15 1:49	CYC0357	CD50205
2,4,5-Trichlorophenol	ND (0.474)		8270D		1	03/31/15 1:49	CYC0357	CD50205
2,4,6-Trichlorophenol	ND (0.474)		8270D		1	03/31/15 1:49	CYC0357	CD50205
2,4-Dichlorophenol	ND (0.474)		8270D		1	03/31/15 1:49	CYC0357	CD50205
2,4-Dimethylphenol	ND (0.474)		8270D		1	03/31/15 1:49	CYC0357	CD50205
2,4-Dinitrophenol	ND (2.38)		8270D		1	03/31/15 1:49	CYC0357	CD50205
2,4-Dinitrotoluene	ND (0.474)		8270D		1	03/31/15 1:49	CYC0357	CD50205
2,6-Dinitrotoluene	ND (0.474)		8270D		1	03/31/15 1:49	CYC0357	CD50205
2-Chloronaphthalene	ND (0.474)		8270D		1	03/31/15 1:49	CYC0357	CD50205
2-Chlorophenol	ND (0.474)		8270D		1	03/31/15 1:49	CYC0357	CD50205
2-Methylphenol	ND (0.474)		8270D		1	03/31/15 1:49	CYC0357	CD50205
2-Nitrophenol	ND (0.474)		8270D		1	03/31/15 1:49	CYC0357	CD50205
3,3´-Dichlorobenzidine	ND (0.949)		8270D		1	03/31/15 1:49	CYC0357	CD50205
3+4-Methylphenol	ND (0.949)		8270D		1	03/31/15 1:49	CYC0357	CD50205
4-Bromophenyl-phenylether	ND (0.474)		8270D		1	03/31/15 1:49	CYC0357	CD50205
4-Chloroaniline	ND (0.949)		8270D		1	03/31/15 1:49	CYC0357	CD50205
4-Nitrophenol	ND (2.38)		8270D		1	03/31/15 1:49	CYC0357	CD50205
Acetophenone	ND (0.949)		8270D		1	03/31/15 1:49	CYC0357	CD50205
Aniline	ND (2.38)		8270D		1	03/31/15 1:49	CYC0357	CD50205
Azobenzene	ND (0.474)		8270D		1	03/31/15 1:49	CYC0357	CD50205
bis(2-Chloroethoxy)methane	ND (0.474)		8270D		1	03/31/15 1:49	CYC0357	CD50205
bis(2-Chloroethyl)ether	ND (0.474)		8270D		1	03/31/15 1:49	CYC0357	CD50205
bis(2-chloroisopropyl)Ether	ND (0.474)		8270D		1	03/31/15 1:49	CYC0357	CD50205
bis(2-Ethylhexyl)phthalate	**113** (47.4)		8270D		100	04/01/15 8:54	CYC0357	CD50205
Butylbenzylphthalate	ND (0.474)		8270D		1	03/31/15 1:49	CYC0357	CD50205
Dibenzofuran	ND (0.474)		8270D		1	03/31/15 1:49	CYC0357	CD50205
Diethylphthalate	ND (0.474)		8270D		1	03/31/15 1:49	CYC0357	CD50205
Dimethylphthalate	ND (0.474)		8270D		1	03/31/15 1:49	CYC0357	CD50205
Di-n-butylphthalate	ND (0.474)		8270D		1	03/31/15 1:49	CYC0357	CD50205

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-206 0ft-3ft
Date Sampled: 03/25/15 11:10
Percent Solids: 34
Initial Volume: 30.7
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503448
ESS Laboratory Sample ID: 1503448-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: JXS
Prepared: 3/30/15 12:52

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Di-n-octylphthalate	**2.85** (0.474)		8270D		1	03/31/15 1:49	CYC0357	CD50205
Hexachlorobenzene	ND (0.474)		8270D		1	03/31/15 1:49	CYC0357	CD50205
Hexachlorobutadiene	ND (0.474)		8270D		1	03/31/15 1:49	CYC0357	CD50205
Hexachloroethane	ND (0.474)		8270D		1	03/31/15 1:49	CYC0357	CD50205
Isophorone	ND (0.474)		8270D		1	03/31/15 1:49	CYC0357	CD50205
Nitrobenzene	ND (0.474)		8270D		1	03/31/15 1:49	CYC0357	CD50205
N-Nitrosodimethylamine	ND (0.474)		8270D		1	03/31/15 1:49	CYC0357	CD50205
Pentachlorophenol	ND (2.38)		8270D		1	03/31/15 1:49	CYC0357	CD50205
Phenol	ND (0.474)		8270D		1	03/31/15 1:49	CYC0357	CD50205

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*43 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*84 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*46 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*59 %*		*30-130*
Surrogate: 2-Fluorophenol	*41 %*		*30-130*
Surrogate: Nitrobenzene-d5	*46 %*		*30-130*
Surrogate: Phenol-d6	*47 %*		*30-130*
Surrogate: p-Terphenyl-d14	*84 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-206 0ft-3ft
Date Sampled: 03/25/15 11:10
Percent Solids: 34

ESS Laboratory Work Order: 1503448
ESS Laboratory Sample ID: 1503448-01
Sample Matrix: Soil

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Corrosivity (pH)	**H 7.44** (N/A)		9045		1	JLK	03/27/15 10:44	S.U.	CC52721
Corrosivity (pH) Sample Temp	**Soil pH measured in water at 17.3 °C.**								
Eh (ORP)	**H, WL 190** (N/A)		2580		1	JLK	03/27/15 10:44	mv	CC52722
Grain Size	**See Attached** (N/A)								
Hexavalent Chromium	ND (1.2)		7196A		1	JLK	03/28/15 11:00	mg/kg dry	CC52807
Percent Water	**See Attached** (N/A)								
Reactive Cyanide	ND (2.0)		7.3.3.2		1	JLK	03/30/15 11:05	mg/kg	CC53003
Reactive Sulfide	ND (2.0)		7.3.4.1		1	JLK	03/30/15 11:05	mg/kg	CC53003

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-206 0ft-3ft
Date Sampled: 03/25/15 11:10
Percent Solids: 34
Initial Volume: 30.1
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1503448
ESS Laboratory Sample ID: 1503448-01
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 3/27/15 17:04

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	**123** (36.3)		MADEP-EPH		1	DPS	03/30/15 23:14	CYC0346	CC52711
C19-C36 Aliphatics1	**184** (36.3)		MADEP-EPH		1	DPS	03/30/15 23:14	CYC0346	CC52711
C11-C22 Unadjusted Aromatics1	**1950** (36.3)		EPH8270		1	VSC	03/30/15 21:26	CYC0347	CC52711
C11-C22 Aromatics1,2	**1950** (36.3)		EPH8270			VSC	03/30/15 21:26		[CALC]

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1-Chlorooctadecane	*57 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*111 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*109 %*		*40-140*
Surrogate: O-Terphenyl	*110 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-205 0ft-0.5ft
Date Sampled: 03/25/15 11:45
Percent Solids: 39
Initial Volume: 30.8
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503448
ESS Laboratory Sample ID: 1503448-02
Sample Matrix: Soil
Units: mg/kg dry
Analyst: JXS
Prepared: 3/30/15 12:52

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.419)		8270D		1	04/01/15 15:22	CYD0001	CD50205
1,2-Dichlorobenzene	ND (0.419)		8270D		1	04/01/15 15:22	CYD0001	CD50205
1,3-Dichlorobenzene	ND (0.419)		8270D		1	04/01/15 15:22	CYD0001	CD50205
1,4-Dichlorobenzene	ND (0.419)		8270D		1	04/01/15 15:22	CYD0001	CD50205
2,4,5-Trichlorophenol	ND (0.419)		8270D		1	04/01/15 15:22	CYD0001	CD50205
2,4,6-Trichlorophenol	ND (0.419)		8270D		1	04/01/15 15:22	CYD0001	CD50205
2,4-Dichlorophenol	ND (0.419)		8270D		1	04/01/15 15:22	CYD0001	CD50205
2,4-Dimethylphenol	ND (0.419)		8270D		1	04/01/15 15:22	CYD0001	CD50205
2,4-Dinitrophenol	ND (2.10)		8270D		1	04/01/15 15:22	CYD0001	CD50205
2,4-Dinitrotoluene	ND (0.419)		8270D		1	04/01/15 15:22	CYD0001	CD50205
2,6-Dinitrotoluene	ND (0.419)		8270D		1	04/01/15 15:22	CYD0001	CD50205
2-Chloronaphthalene	ND (0.419)		8270D		1	04/01/15 15:22	CYD0001	CD50205
2-Chlorophenol	ND (0.419)		8270D		1	04/01/15 15:22	CYD0001	CD50205
2-Methylphenol	ND (0.419)		8270D		1	04/01/15 15:22	CYD0001	CD50205
2-Nitrophenol	ND (0.419)		8270D		1	04/01/15 15:22	CYD0001	CD50205
3,3´-Dichlorobenzidine	ND (0.839)		8270D		1	04/01/15 15:22	CYD0001	CD50205
3+4-Methylphenol	ND (0.839)		8270D		1	04/01/15 15:22	CYD0001	CD50205
4-Bromophenyl-phenylether	ND (0.419)		8270D		1	04/01/15 15:22	CYD0001	CD50205
4-Chloroaniline	ND (0.839)		8270D		1	04/01/15 15:22	CYD0001	CD50205
4-Nitrophenol	ND (2.10)		8270D		1	04/01/15 15:22	CYD0001	CD50205
Acetophenone	ND (0.839)		8270D		1	04/01/15 15:22	CYD0001	CD50205
Aniline	ND (2.10)		8270D		1	04/01/15 15:22	CYD0001	CD50205
Azobenzene	ND (0.419)		8270D		1	04/01/15 15:22	CYD0001	CD50205
bis(2-Chloroethoxy)methane	ND (0.419)		8270D		1	04/01/15 15:22	CYD0001	CD50205
bis(2-Chloroethyl)ether	ND (0.419)		8270D		1	04/01/15 15:22	CYD0001	CD50205
bis(2-chloroisopropyl)Ether	ND (0.419)		8270D		1	04/01/15 15:22	CYD0001	CD50205
bis(2-Ethylhexyl)phthalate	**1.67** (0.419)		8270D		1	04/01/15 15:22	CYD0001	CD50205
Butylbenzylphthalate	ND (0.419)		8270D		1	04/01/15 15:22	CYD0001	CD50205
Dibenzofuran	ND (0.419)		8270D		1	04/01/15 15:22	CYD0001	CD50205
Diethylphthalate	ND (0.419)		8270D		1	04/01/15 15:22	CYD0001	CD50205
Dimethylphthalate	ND (0.419)		8270D		1	04/01/15 15:22	CYD0001	CD50205
Di-n-butylphthalate	ND (0.419)		8270D		1	04/01/15 15:22	CYD0001	CD50205

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-205 0ft-0.5ft
Date Sampled: 03/25/15 11:45
Percent Solids: 39
Initial Volume: 30.8
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503448
ESS Laboratory Sample ID: 1503448-02
Sample Matrix: Soil
Units: mg/kg dry
Analyst: JXS
Prepared: 3/30/15 12:52

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Di-n-octylphthalate	ND (0.419)		8270D		1	04/01/15 15:22	CYD0001	CD50205
Hexachlorobenzene	ND (0.419)		8270D		1	04/01/15 15:22	CYD0001	CD50205
Hexachlorobutadiene	ND (0.419)		8270D		1	04/01/15 15:22	CYD0001	CD50205
Hexachloroethane	ND (0.419)		8270D		1	04/01/15 15:22	CYD0001	CD50205
Isophorone	ND (0.419)		8270D		1	04/01/15 15:22	CYD0001	CD50205
Nitrobenzene	ND (0.419)		8270D		1	04/01/15 15:22	CYD0001	CD50205
N-Nitrosodimethylamine	ND (0.419)		8270D		1	04/01/15 15:22	CYD0001	CD50205
Pentachlorophenol	ND (2.10)		8270D		1	04/01/15 15:22	CYD0001	CD50205
Phenol	ND (0.419)		8270D		1	04/01/15 15:22	CYD0001	CD50205

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*37 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*62 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*42 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*50 %*		*30-130*
Surrogate: 2-Fluorophenol	*38 %*		*30-130*
Surrogate: Nitrobenzene-d5	*40 %*		*30-130*
Surrogate: Phenol-d6	*48 %*		*30-130*
Surrogate: p-Terphenyl-d14	*64 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-205 0ft-0.5ft
Date Sampled: 03/25/15 11:45
Percent Solids: 39
Initial Volume: 20.1
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503448
ESS Laboratory Sample ID: 1503448-02
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 3/28/15 12:00

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	ND (0.032)		8270D		1	04/01/15 13:38	CYC0376	CC52823
Acenaphthene	ND (0.032)		8270D		1	04/01/15 13:38	CYC0376	CC52823
Acenaphthylene	**0.131** (0.032)		8270D		1	04/01/15 13:38	CYC0376	CC52823
Anthracene	**0.143** (0.032)		8270D		1	04/01/15 13:38	CYC0376	CC52823
Benzo(a)anthracene	**0.421** (0.032)		8270D		1	04/01/15 13:38	CYC0376	CC52823
Benzo(a)pyrene	**0.552** (0.032)		8270D		1	04/01/15 13:38	CYC0376	CC52823
Benzo(b)fluoranthene	**0.785** (0.032)		8270D		1	04/01/15 13:38	CYC0376	CC52823
Benzo(g,h,i)perylene	**0.347** (0.032)		8270D		1	04/01/15 13:38	CYC0376	CC52823
Benzo(k)fluoranthene	**0.252** (0.032)		8270D		1	04/01/15 13:38	CYC0376	CC52823
Chrysene	**0.526** (0.032)		8270D		1	04/01/15 13:38	CYC0376	CC52823
Dibenzo(a,h)Anthracene	**0.099** (0.032)		8270D		1	04/01/15 13:38	CYC0376	CC52823
Fluoranthene	**0.813** (0.032)		8270D		1	04/01/15 13:38	CYC0376	CC52823
Fluorene	**0.043** (0.032)		8270D		1	04/01/15 13:38	CYC0376	CC52823
Hexachlorobenzene	ND (0.013)		8270D		1	04/01/15 13:38	CYC0376	CC52823
Indeno(1,2,3-cd)Pyrene	**0.407** (0.032)		8270D		1	04/01/15 13:38	CYC0376	CC52823
Naphthalene	**0.126** (0.032)		8270D		1	04/01/15 13:38	CYC0376	CC52823
Phenanthrene	**0.302** (0.032)		8270D		1	04/01/15 13:38	CYC0376	CC52823
Pyrene	**0.847** (0.032)		8270D		1	04/01/15 13:38	CYC0376	CC52823

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*33 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*58 %*		*30-130*
Surrogate: Nitrobenzene-d5	*48 %*		*30-130*
Surrogate: p-Terphenyl-d14	*79 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-205 0ft-0.5ft
Date Sampled: 03/25/15 11:45
Percent Solids: 39
Initial Volume: 30.7
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1503448
ESS Laboratory Sample ID: 1503448-02
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 3/27/15 17:04

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (31.6)		MADEP-EPH		1	DPS	03/31/15 0:06	CYC0346	CC52711
C19-C36 Aliphatics1	**71.8** (31.6)		MADEP-EPH		1	DPS	03/31/15 0:06	CYC0346	CC52711
C11-C22 Unadjusted Aromatics1	**43.2** (31.6)		EPH8270		1	VSC	03/30/15 22:00	CYC0347	CC52711
C11-C22 Aromatics1,2	**43.2** (31.6)		EPH8270			VSC	03/30/15 22:00		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*64 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*113 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*112 %*		*40-140*
Surrogate: O-Terphenyl	*80 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-205 4ft-6ft
Date Sampled: 03/25/15 11:45
Percent Solids: 41
Initial Volume: 20.6
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503448
ESS Laboratory Sample ID: 1503448-03
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 3/28/15 12:00

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	**0.430** (0.148)		8270D		5	04/01/15 23:28	CYD0015	CC52823
Acenaphthene	**0.447** (0.148)		8270D		5	04/01/15 23:28	CYD0015	CC52823
Acenaphthylene	**0.509** (0.148)		8270D		5	04/01/15 23:28	CYD0015	CC52823
Anthracene	**1.07** (0.148)		8270D		5	04/01/15 23:28	CYD0015	CC52823
Benzo(a)anthracene	**0.975** (0.148)		8270D		5	04/01/15 23:28	CYD0015	CC52823
Benzo(a)pyrene	**0.904** (0.148)		8270D		5	04/01/15 23:28	CYD0015	CC52823
Benzo(b)fluoranthene	**1.16** (0.148)		8270D		5	04/01/15 23:28	CYD0015	CC52823
Benzo(g,h,i)perylene	**0.420** (0.295)		8270D		10	04/02/15 15:00	CYD0015	CC52823
Benzo(k)fluoranthene	**0.392** (0.148)		8270D		5	04/01/15 23:28	CYD0015	CC52823
Chrysene	**1.12** (0.148)		8270D		5	04/01/15 23:28	CYD0015	CC52823
Dibenzo(a,h)Anthracene	**0.121** (0.118)		8270D		10	04/02/15 15:00	CYD0015	CC52823
Fluoranthene	**2.30** (0.148)		8270D		5	04/01/15 23:28	CYD0015	CC52823
Fluorene	**0.665** (0.148)		8270D		5	04/01/15 23:28	CYD0015	CC52823
Hexachlorobenzene	ND (0.030)		8270D		5	04/01/15 23:28	CYD0015	CC52823
Indeno(1,2,3-cd)Pyrene	**0.459** (0.295)		8270D		10	04/02/15 15:00	CYD0015	CC52823
Naphthalene	**3.52** (0.148)		8270D		5	04/01/15 23:28	CYD0015	CC52823
Phenanthrene	**2.26** (0.148)		8270D		5	04/01/15 23:28	CYD0015	CC52823
Pyrene	**2.58** (0.148)		8270D		5	04/01/15 23:28	CYD0015	CC52823

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*40 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*62 %*		*30-130*
Surrogate: Nitrobenzene-d5	*54 %*		*30-130*
Surrogate: p-Terphenyl-d14	*70 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-205 6ft-8ft
Date Sampled: 03/25/15 11:45
Percent Solids: 72
Initial Volume: 20.2
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503448
ESS Laboratory Sample ID: 1503448-04
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 3/28/15 12:00

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	ND (0.017)		8270D		1	04/01/15 5:26	CYC0376	CC52823
Acenaphthene	ND (0.017)		8270D		1	04/01/15 5:26	CYC0376	CC52823
Acenaphthylene	**0.018** (0.017)		8270D		1	04/01/15 5:26	CYC0376	CC52823
Anthracene	**0.034** (0.017)		8270D		1	04/01/15 5:26	CYC0376	CC52823
Benzo(a)anthracene	**0.052** (0.017)		8270D		1	04/01/15 5:26	CYC0376	CC52823
Benzo(a)pyrene	**0.048** (0.017)		8270D		1	04/01/15 5:26	CYC0376	CC52823
Benzo(b)fluoranthene	**0.054** (0.017)		8270D		1	04/01/15 5:26	CYC0376	CC52823
Benzo(g,h,i)perylene	**0.029** (0.017)		8270D		1	04/01/15 5:26	CYC0376	CC52823
Benzo(k)fluoranthene	ND (0.017)		8270D		1	04/01/15 5:26	CYC0376	CC52823
Chrysene	**0.057** (0.017)		8270D		1	04/01/15 5:26	CYC0376	CC52823
Dibenzo(a,h)Anthracene	ND (0.017)		8270D		1	04/01/15 5:26	CYC0376	CC52823
Fluoranthene	**0.095** (0.017)		8270D		1	04/01/15 5:26	CYC0376	CC52823
Fluorene	ND (0.017)		8270D		1	04/01/15 5:26	CYC0376	CC52823
Hexachlorobenzene	ND (0.007)		8270D		1	04/01/15 5:26	CYC0376	CC52823
Indeno(1,2,3-cd)Pyrene	**0.031** (0.017)		8270D		1	04/01/15 5:26	CYC0376	CC52823
Naphthalene	**0.025** (0.017)		8270D		1	04/01/15 5:26	CYC0376	CC52823
Phenanthrene	**0.026** (0.017)		8270D		1	04/01/15 5:26	CYC0376	CC52823
Pyrene	**0.106** (0.017)		8270D		1	04/01/15 5:26	CYC0376	CC52823

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*54 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*68 %*		*30-130*
Surrogate: Nitrobenzene-d5	*68 %*		*30-130*
Surrogate: p-Terphenyl-d14	*80 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-205 0ft-3ft
Date Sampled: 03/25/15 11:45
Percent Solids: 32
Initial Volume: 5
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1503448
ESS Laboratory Sample ID: 1503448-05
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.0158)		8260B Low		1	03/27/15 13:19	CYC0324	CC52716
1,1,1-Trichloroethane	ND (0.0158)		8260B Low		1	03/27/15 13:19	CYC0324	CC52716
1,1,2,2-Tetrachloroethane	ND (0.0063)		8260B Low		1	03/27/15 13:19	CYC0324	CC52716
1,1,2-Trichloroethane	ND (0.0158)		8260B Low		1	03/27/15 13:19	CYC0324	CC52716
1,1-Dichloroethane	ND (0.0158)		8260B Low		1	03/27/15 13:19	CYC0324	CC52716
1,1-Dichloroethene	ND (0.0158)		8260B Low		1	03/27/15 13:19	CYC0324	CC52716
1,1-Dichloropropene	ND (0.0158)		8260B Low		1	03/27/15 13:19	CYC0324	CC52716
1,2,3-Trichlorobenzene	ND (0.0158)		8260B Low		1	03/27/15 13:19	CYC0324	CC52716
1,2,3-Trichloropropane	ND (0.0158)		8260B Low		1	03/27/15 13:19	CYC0324	CC52716
1,2,4-Trichlorobenzene	ND (0.0158)		8260B Low		1	03/27/15 13:19	CYC0324	CC52716
1,2,4-Trimethylbenzene	ND (0.0158)		8260B Low		1	03/27/15 13:19	CYC0324	CC52716
1,2-Dibromo-3-Chloropropane	ND (0.0158)		8260B Low		1	03/27/15 13:19	CYC0324	CC52716
1,2-Dibromoethane	ND (0.0158)		8260B Low		1	03/27/15 13:19	CYC0324	CC52716
1,2-Dichlorobenzene	ND (0.0158)		8260B Low		1	03/27/15 13:19	CYC0324	CC52716
1,2-Dichloroethane	ND (0.0158)		8260B Low		1	03/27/15 13:19	CYC0324	CC52716
1,2-Dichloropropane	ND (0.0158)		8260B Low		1	03/27/15 13:19	CYC0324	CC52716
1,3,5-Trimethylbenzene	ND (0.0158)		8260B Low		1	03/27/15 13:19	CYC0324	CC52716
1,3-Dichlorobenzene	ND (0.0158)		8260B Low		1	03/27/15 13:19	CYC0324	CC52716
1,3-Dichloropropane	ND (0.0158)		8260B Low		1	03/27/15 13:19	CYC0324	CC52716
1,4-Dichlorobenzene	ND (0.0158)		8260B Low		1	03/27/15 13:19	CYC0324	CC52716
1,4-Dioxane	ND (0.316)		8260B Low		1	03/27/15 13:19	CYC0324	CC52716
2,2-Dichloropropane	ND (0.0158)		8260B Low		1	03/27/15 13:19	CYC0324	CC52716
2-Butanone	**0.0433** (0.0316)		8260B Low		1	03/27/15 13:19	CYC0324	CC52716
2-Chlorotoluene	**0.0790** (0.0158)		8260B Low		1	03/27/15 13:19	CYC0324	CC52716
2-Hexanone	ND (0.0316)		8260B Low		1	03/27/15 13:19	CYC0324	CC52716
4-Chlorotoluene	ND (0.0158)		8260B Low		1	03/27/15 13:19	CYC0324	CC52716
4-Isopropyltoluene	ND (0.0158)		8260B Low		1	03/27/15 13:19	CYC0324	CC52716
4-Methyl-2-Pentanone	ND (0.0316)		8260B Low		1	03/27/15 13:19	CYC0324	CC52716
Acetone	**0.278** (0.0316)		8260B Low		1	03/27/15 13:19	CYC0324	CC52716
Benzene	ND (0.0158)		8260B Low		1	03/27/15 13:19	CYC0324	CC52716
Bromobenzene	ND (0.0158)		8260B Low		1	03/27/15 13:19	CYC0324	CC52716
Bromochloromethane	ND (0.0158)		8260B Low		1	03/27/15 13:19	CYC0324	CC52716

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-205 0ft-3ft
Date Sampled: 03/25/15 11:45
Percent Solids: 32
Initial Volume: 5
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1503448
ESS Laboratory Sample ID: 1503448-05
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Bromodichloromethane	ND (0.0158)		8260B Low		1	03/27/15 13:19	CYC0324	CC52716
Bromoform	ND (0.0158)		8260B Low		1	03/27/15 13:19	CYC0324	CC52716
Bromomethane	ND (0.0316)		8260B Low		1	03/27/15 13:19	CYC0324	CC52716
Carbon Disulfide	**0.0240** (0.0158)		8260B Low		1	03/27/15 13:19	CYC0324	CC52716
Carbon Tetrachloride	ND (0.0158)		8260B Low		1	03/27/15 13:19	CYC0324	CC52716
Chlorobenzene	ND (0.0158)		8260B Low		1	03/27/15 13:19	CYC0324	CC52716
Chloroethane	ND (0.0316)		8260B Low		1	03/27/15 13:19	CYC0324	CC52716
Chloroform	ND (0.0158)		8260B Low		1	03/27/15 13:19	CYC0324	CC52716
Chloromethane	ND (0.0316)		8260B Low		1	03/27/15 13:19	CYC0324	CC52716
cis-1,2-Dichloroethene	ND (0.0158)		8260B Low		1	03/27/15 13:19	CYC0324	CC52716
cis-1,3-Dichloropropene	ND (0.0158)		8260B Low		1	03/27/15 13:19	CYC0324	CC52716
Dibromochloromethane	ND (0.0063)		8260B Low		1	03/27/15 13:19	CYC0324	CC52716
Dibromomethane	ND (0.0158)		8260B Low		1	03/27/15 13:19	CYC0324	CC52716
Dichlorodifluoromethane	ND (0.0316)		8260B Low		1	03/27/15 13:19	CYC0324	CC52716
Diethyl Ether	ND (0.0158)		8260B Low		1	03/27/15 13:19	CYC0324	CC52716
Di-isopropyl ether	ND (0.0158)		8260B Low		1	03/27/15 13:19	CYC0324	CC52716
Ethyl tertiary-butyl ether	ND (0.0158)		8260B Low		1	03/27/15 13:19	CYC0324	CC52716
Ethylbenzene	ND (0.0158)		8260B Low		1	03/27/15 13:19	CYC0324	CC52716
Hexachlorobutadiene	ND (0.0158)		8260B Low		1	03/27/15 13:19	CYC0324	CC52716
Isopropylbenzene	ND (0.0158)		8260B Low		1	03/27/15 13:19	CYC0324	CC52716
Methyl tert-Butyl Ether	ND (0.0158)		8260B Low		1	03/27/15 13:19	CYC0324	CC52716
Methylene Chloride	ND (0.0316)		8260B Low		1	03/27/15 13:19	CYC0324	CC52716
Naphthalene	ND (0.0158)		8260B Low		1	03/27/15 13:19	CYC0324	CC52716
n-Butylbenzene	ND (0.0158)		8260B Low		1	03/27/15 13:19	CYC0324	CC52716
n-Propylbenzene	ND (0.0158)		8260B Low		1	03/27/15 13:19	CYC0324	CC52716
sec-Butylbenzene	ND (0.0158)		8260B Low		1	03/27/15 13:19	CYC0324	CC52716
Styrene	ND (0.0158)		8260B Low		1	03/27/15 13:19	CYC0324	CC52716
tert-Butylbenzene	ND (0.0158)		8260B Low		1	03/27/15 13:19	CYC0324	CC52716
Tertiary-amyl methyl ether	ND (0.0158)		8260B Low		1	03/27/15 13:19	CYC0324	CC52716
Tetrachloroethene	ND (0.0158)		8260B Low		1	03/27/15 13:19	CYC0324	CC52716
Tetrahydrofuran	ND (0.0158)		8260B Low		1	03/27/15 13:19	CYC0324	CC52716
Toluene	ND (0.0158)		8260B Low		1	03/27/15 13:19	CYC0324	CC52716

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-205 0ft-3ft
Date Sampled: 03/25/15 11:45
Percent Solids: 32
Initial Volume: 5
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1503448
ESS Laboratory Sample ID: 1503448-05
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
trans-1,2-Dichloroethene	ND (0.0158)		8260B Low		1	03/27/15 13:19	CYC0324	CC52716
trans-1,3-Dichloropropene	ND (0.0158)		8260B Low		1	03/27/15 13:19	CYC0324	CC52716
Trichloroethene	ND (0.0158)		8260B Low		1	03/27/15 13:19	CYC0324	CC52716
Trichlorofluoromethane	ND (0.0158)		8260B Low		1	03/27/15 13:19	CYC0324	CC52716
Vinyl Chloride	ND (0.0316)		8260B Low		1	03/27/15 13:19	CYC0324	CC52716
Xylene O	ND (0.0158)		8260B Low		1	03/27/15 13:19	CYC0324	CC52716
Xylene P,M	ND (0.0316)		8260B Low		1	03/27/15 13:19	CYC0324	CC52716
Xylenes (Total)	ND (0.0316)		8260B Low		1	03/27/15 13:19		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*92 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*82 %*		*70-130*
Surrogate: Dibromofluoromethane	*88 %*		*70-130*
Surrogate: Toluene-d8	*99 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-205 0ft-3ft
Date Sampled: 03/25/15 11:45
Percent Solids: 32
Initial Volume: 30.3
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503448
ESS Laboratory Sample ID: 1503448-05
Sample Matrix: Soil
Units: mg/kg dry
Analyst: JXS
Prepared: 3/30/15 12:52

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.521)		8270D		1	03/31/15 2:52	CYC0357	CD50205
1,2-Dichlorobenzene	ND (0.521)		8270D		1	03/31/15 2:52	CYC0357	CD50205
1,3-Dichlorobenzene	ND (0.521)		8270D		1	03/31/15 2:52	CYC0357	CD50205
1,4-Dichlorobenzene	ND (0.521)		8270D		1	03/31/15 2:52	CYC0357	CD50205
2,4,5-Trichlorophenol	ND (0.521)		8270D		1	03/31/15 2:52	CYC0357	CD50205
2,4,6-Trichlorophenol	ND (0.521)		8270D		1	03/31/15 2:52	CYC0357	CD50205
2,4-Dichlorophenol	ND (0.521)		8270D		1	03/31/15 2:52	CYC0357	CD50205
2,4-Dimethylphenol	ND (0.521)		8270D		1	03/31/15 2:52	CYC0357	CD50205
2,4-Dinitrophenol	ND (2.61)		8270D		1	03/31/15 2:52	CYC0357	CD50205
2,4-Dinitrotoluene	ND (0.521)		8270D		1	03/31/15 2:52	CYC0357	CD50205
2,6-Dinitrotoluene	ND (0.521)		8270D		1	03/31/15 2:52	CYC0357	CD50205
2-Chloronaphthalene	ND (0.521)		8270D		1	03/31/15 2:52	CYC0357	CD50205
2-Chlorophenol	ND (0.521)		8270D		1	03/31/15 2:52	CYC0357	CD50205
2-Methylphenol	ND (0.521)		8270D		1	03/31/15 2:52	CYC0357	CD50205
2-Nitrophenol	ND (0.521)		8270D		1	03/31/15 2:52	CYC0357	CD50205
3,3´-Dichlorobenzidine	ND (1.04)		8270D		1	03/31/15 2:52	CYC0357	CD50205
3+4-Methylphenol	ND (1.04)		8270D		1	03/31/15 2:52	CYC0357	CD50205
4-Bromophenyl-phenylether	ND (0.521)		8270D		1	03/31/15 2:52	CYC0357	CD50205
4-Chloroaniline	ND (1.04)		8270D		1	03/31/15 2:52	CYC0357	CD50205
4-Nitrophenol	ND (2.61)		8270D		1	03/31/15 2:52	CYC0357	CD50205
Acetophenone	ND (1.04)		8270D		1	03/31/15 2:52	CYC0357	CD50205
Aniline	ND (2.61)		8270D		1	03/31/15 2:52	CYC0357	CD50205
Azobenzene	ND (0.521)		8270D		1	03/31/15 2:52	CYC0357	CD50205
bis(2-Chloroethoxy)methane	ND (0.521)		8270D		1	03/31/15 2:52	CYC0357	CD50205
bis(2-Chloroethyl)ether	ND (0.521)		8270D		1	03/31/15 2:52	CYC0357	CD50205
bis(2-chloroisopropyl)Ether	ND (0.521)		8270D		1	03/31/15 2:52	CYC0357	CD50205
bis(2-Ethylhexyl)phthalate	**694** (52.1)		8270D		100	04/01/15 9:30	CYC0357	CD50205
Butylbenzylphthalate	ND (0.521)		8270D		1	03/31/15 2:52	CYC0357	CD50205
Dibenzofuran	ND (0.521)		8270D		1	03/31/15 2:52	CYC0357	CD50205
Diethylphthalate	ND (0.521)		8270D		1	03/31/15 2:52	CYC0357	CD50205
Dimethylphthalate	ND (0.521)		8270D		1	03/31/15 2:52	CYC0357	CD50205
Di-n-butylphthalate	ND (0.521)		8270D		1	03/31/15 2:52	CYC0357	CD50205

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-205 0ft-3ft
Date Sampled: 03/25/15 11:45
Percent Solids: 32
Initial Volume: 30.3
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503448
ESS Laboratory Sample ID: 1503448-05
Sample Matrix: Soil
Units: mg/kg dry
Analyst: JXS
Prepared: 3/30/15 12:52

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Di-n-octylphthalate	**2.47** (0.521)		8270D		1	03/31/15 2:52	CYC0357	CD50205
Hexachlorobenzene	ND (0.521)		8270D		1	03/31/15 2:52	CYC0357	CD50205
Hexachlorobutadiene	ND (0.521)		8270D		1	03/31/15 2:52	CYC0357	CD50205
Hexachloroethane	ND (0.521)		8270D		1	03/31/15 2:52	CYC0357	CD50205
Isophorone	ND (0.521)		8270D		1	03/31/15 2:52	CYC0357	CD50205
Nitrobenzene	ND (0.521)		8270D		1	03/31/15 2:52	CYC0357	CD50205
N-Nitrosodimethylamine	ND (0.521)		8270D		1	03/31/15 2:52	CYC0357	CD50205
Pentachlorophenol	ND (2.61)		8270D		1	03/31/15 2:52	CYC0357	CD50205
Phenol	ND (0.521)		8270D		1	03/31/15 2:52	CYC0357	CD50205

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*40 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*77 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*42 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*57 %*		*30-130*
Surrogate: 2-Fluorophenol	*37 %*		*30-130*
Surrogate: Nitrobenzene-d5	*39 %*		*30-130*
Surrogate: Phenol-d6	*43 %*		*30-130*
Surrogate: p-Terphenyl-d14	*77 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-205 0ft-3ft
Date Sampled: 03/25/15 11:45
Percent Solids: 32

ESS Laboratory Work Order: 1503448
ESS Laboratory Sample ID: 1503448-05
Sample Matrix: Soil

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Corrosivity (pH)	**H 7.51** (N/A)		9045		1	JLK	03/27/15 10:44	S.U.	CC52721
Corrosivity (pH) Sample Temp	**Soil pH measured in water at 13.7 ºC.**								
Eh (ORP)	**H, WL 96** (N/A)		2580		1	JLK	03/27/15 10:44	mv	CC52722
Grain Size	**See Attached** (N/A)								
Hexavalent Chromium	ND (1.2)		7196A		1	JLK	03/28/15 11:00	mg/kg dry	CC52807
Percent Water	**See Attached** (N/A)								
Reactive Cyanide	ND (2.0)		7.3.3.2		1	JLK	03/30/15 11:05	mg/kg	CC53003
Reactive Sulfide	ND (2.0)		7.3.4.1		1	JLK	03/30/15 11:05	mg/kg	CC53003

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-205 0ft-3ft
Date Sampled: 03/25/15 11:45
Percent Solids: 32
Initial Volume: 30
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1503448
ESS Laboratory Sample ID: 1503448-05
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 3/27/15 17:04

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	**269** (39.5)		MADEP-EPH		1	DPS	03/31/15 0:56	CYC0346	CC52711
C19-C36 Aliphatics1	**141** (39.5)		MADEP-EPH		1	DPS	03/31/15 0:56	CYC0346	CC52711
C11-C22 Unadjusted Aromatics1	**744** (39.5)		EPH8270		1	VSC	03/30/15 22:34	CYC0347	CC52711
C11-C22 Aromatics1,2	**744** (39.5)		EPH8270			VSC	03/30/15 22:34		[CALC]

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1-Chlorooctadecane	*58 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*114 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*113 %*		*40-140*
Surrogate: O-Terphenyl	*87 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-213 0ft-0.5ft
Date Sampled: 03/25/15 13:52
Percent Solids: 58
Initial Volume: 30.4
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503448
ESS Laboratory Sample ID: 1503448-06
Sample Matrix: Soil
Units: mg/kg dry
Analyst: JXS
Prepared: 3/30/15 12:52

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.284)		8270D		1	04/01/15 15:57	CYD0001	CD50205
1,2-Dichlorobenzene	ND (0.284)		8270D		1	04/01/15 15:57	CYD0001	CD50205
1,3-Dichlorobenzene	ND (0.284)		8270D		1	04/01/15 15:57	CYD0001	CD50205
1,4-Dichlorobenzene	ND (0.284)		8270D		1	04/01/15 15:57	CYD0001	CD50205
2,4,5-Trichlorophenol	ND (0.284)		8270D		1	04/01/15 15:57	CYD0001	CD50205
2,4,6-Trichlorophenol	ND (0.284)		8270D		1	04/01/15 15:57	CYD0001	CD50205
2,4-Dichlorophenol	ND (0.284)		8270D		1	04/01/15 15:57	CYD0001	CD50205
2,4-Dimethylphenol	ND (0.284)		8270D		1	04/01/15 15:57	CYD0001	CD50205
2,4-Dinitrophenol	ND (1.43)		8270D		1	04/01/15 15:57	CYD0001	CD50205
2,4-Dinitrotoluene	ND (0.284)		8270D		1	04/01/15 15:57	CYD0001	CD50205
2,6-Dinitrotoluene	ND (0.284)		8270D		1	04/01/15 15:57	CYD0001	CD50205
2-Chloronaphthalene	ND (0.284)		8270D		1	04/01/15 15:57	CYD0001	CD50205
2-Chlorophenol	ND (0.284)		8270D		1	04/01/15 15:57	CYD0001	CD50205
2-Methylphenol	ND (0.284)		8270D		1	04/01/15 15:57	CYD0001	CD50205
2-Nitrophenol	ND (0.284)		8270D		1	04/01/15 15:57	CYD0001	CD50205
3,3´-Dichlorobenzidine	ND (0.570)		8270D		1	04/01/15 15:57	CYD0001	CD50205
3+4-Methylphenol	ND (0.570)		8270D		1	04/01/15 15:57	CYD0001	CD50205
4-Bromophenyl-phenylether	ND (0.284)		8270D		1	04/01/15 15:57	CYD0001	CD50205
4-Chloroaniline	ND (0.570)		8270D		1	04/01/15 15:57	CYD0001	CD50205
4-Nitrophenol	ND (1.43)		8270D		1	04/01/15 15:57	CYD0001	CD50205
Acetophenone	ND (0.570)		8270D		1	04/01/15 15:57	CYD0001	CD50205
Aniline	ND (1.43)		8270D		1	04/01/15 15:57	CYD0001	CD50205
Azobenzene	ND (0.284)		8270D		1	04/01/15 15:57	CYD0001	CD50205
bis(2-Chloroethoxy)methane	ND (0.284)		8270D		1	04/01/15 15:57	CYD0001	CD50205
bis(2-Chloroethyl)ether	ND (0.284)		8270D		1	04/01/15 15:57	CYD0001	CD50205
bis(2-chloroisopropyl)Ether	ND (0.284)		8270D		1	04/01/15 15:57	CYD0001	CD50205
bis(2-Ethylhexyl)phthalate	**3.29** (0.284)		8270D		1	04/01/15 15:57	CYD0001	CD50205
Butylbenzylphthalate	ND (0.284)		8270D		1	04/01/15 15:57	CYD0001	CD50205
Dibenzofuran	ND (0.284)		8270D		1	04/01/15 15:57	CYD0001	CD50205
Diethylphthalate	ND (0.284)		8270D		1	04/01/15 15:57	CYD0001	CD50205
Dimethylphthalate	ND (0.284)		8270D		1	04/01/15 15:57	CYD0001	CD50205
Di-n-butylphthalate	ND (0.284)		8270D		1	04/01/15 15:57	CYD0001	CD50205

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-213 0ft-0.5ft
Date Sampled: 03/25/15 13:52
Percent Solids: 58
Initial Volume: 30.4
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503448
ESS Laboratory Sample ID: 1503448-06
Sample Matrix: Soil
Units: mg/kg dry
Analyst: JXS
Prepared: 3/30/15 12:52

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Di-n-octylphthalate	ND (0.284)		8270D		1	04/01/15 15:57	CYD0001	CD50205
Hexachlorobenzene	ND (0.284)		8270D		1	04/01/15 15:57	CYD0001	CD50205
Hexachlorobutadiene	ND (0.284)		8270D		1	04/01/15 15:57	CYD0001	CD50205
Hexachloroethane	ND (0.284)		8270D		1	04/01/15 15:57	CYD0001	CD50205
Isophorone	ND (0.284)		8270D		1	04/01/15 15:57	CYD0001	CD50205
Nitrobenzene	ND (0.284)		8270D		1	04/01/15 15:57	CYD0001	CD50205
N-Nitrosodimethylamine	ND (0.284)		8270D		1	04/01/15 15:57	CYD0001	CD50205
Pentachlorophenol	ND (1.43)		8270D		1	04/01/15 15:57	CYD0001	CD50205
Phenol	ND (0.284)		8270D		1	04/01/15 15:57	CYD0001	CD50205

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*36 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*58 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*38 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*46 %*		*30-130*
Surrogate: 2-Fluorophenol	*36 %*		*30-130*
Surrogate: Nitrobenzene-d5	*38 %*		*30-130*
Surrogate: Phenol-d6	*41 %*		*30-130*
Surrogate: p-Terphenyl-d14	*61 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-213 0ft-0.5ft
Date Sampled: 03/25/15 13:52
Percent Solids: 58
Initial Volume: 20
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503448
ESS Laboratory Sample ID: 1503448-06
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 3/28/15 12:00

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	**0.028** (0.022)		8270D		1	04/01/15 16:53	CYD0015	CC52823
Acenaphthene	**0.024** (0.022)		8270D		1	04/01/15 16:53	CYD0015	CC52823
Acenaphthylene	**0.163** (0.022)		8270D		1	04/01/15 16:53	CYD0015	CC52823
Anthracene	**0.171** (0.022)		8270D		1	04/01/15 16:53	CYD0015	CC52823
Benzo(a)anthracene	**0.314** (0.022)		8270D		1	04/01/15 16:53	CYD0015	CC52823
Benzo(a)pyrene	**0.425** (0.022)		8270D		1	04/01/15 16:53	CYD0015	CC52823
Benzo(b)fluoranthene	**0.569** (0.022)		8270D		1	04/01/15 16:53	CYD0015	CC52823
Benzo(g,h,i)perylene	**0.212** (0.022)		8270D		1	04/01/15 16:53	CYD0015	CC52823
Benzo(k)fluoranthene	**0.182** (0.022)		8270D		1	04/01/15 16:53	CYD0015	CC52823
Chrysene	**0.362** (0.022)		8270D		1	04/01/15 16:53	CYD0015	CC52823
Dibenzo(a,h)Anthracene	**0.070** (0.022)		8270D		1	04/01/15 16:53	CYD0015	CC52823
Fluoranthene	**0.525** (0.022)		8270D		1	04/01/15 16:53	CYD0015	CC52823
Fluorene	**0.052** (0.022)		8270D		1	04/01/15 16:53	CYD0015	CC52823
Hexachlorobenzene	ND (0.009)		8270D		1	04/01/15 16:53	CYD0015	CC52823
Indeno(1,2,3-cd)Pyrene	**0.266** (0.022)		8270D		1	04/01/15 16:53	CYD0015	CC52823
Naphthalene	**0.073** (0.022)		8270D		1	04/01/15 16:53	CYD0015	CC52823
Phenanthrene	**0.262** (0.022)		8270D		1	04/01/15 16:53	CYD0015	CC52823
Pyrene	**0.751** (0.022)		8270D		1	04/01/15 16:53	CYD0015	CC52823

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*33 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*50 %*		*30-130*
Surrogate: Nitrobenzene-d5	*50 %*		*30-130*
Surrogate: p-Terphenyl-d14	*64 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-213 0ft-0.5ft
Date Sampled: 03/25/15 13:52
Percent Solids: 58
Initial Volume: 30
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1503448
ESS Laboratory Sample ID: 1503448-06
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 3/27/15 17:04

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (21.6)		MADEP-EPH		1	DPS	03/31/15 1:47	CYC0346	CC52711
C19-C36 Aliphatics1	**78.6** (21.6)		MADEP-EPH		1	DPS	03/31/15 1:47	CYC0346	CC52711
C11-C22 Unadjusted Aromatics1	**61.3** (21.6)		EPH8270		1	VSC	03/30/15 23:09	CYC0347	CC52711
C11-C22 Aromatics1,2	**57.6** (21.6)		EPH8270			VSC	03/30/15 23:09		[CALC]

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1-Chlorooctadecane	*56 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*107 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*106 %*		*40-140*
Surrogate: O-Terphenyl	*80 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-213 4ft-6ft
Date Sampled: 03/25/15 13:52
Percent Solids: 76
Initial Volume: 20.6
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503448
ESS Laboratory Sample ID: 1503448-07
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 3/28/15 12:00

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	ND (0.016)		8270D		1	04/01/15 6:15	CYC0376	CC52823
Acenaphthene	ND (0.016)		8270D		1	04/01/15 6:15	CYC0376	CC52823
Acenaphthylene	ND (0.016)		8270D		1	04/01/15 6:15	CYC0376	CC52823
Anthracene	ND (0.016)		8270D		1	04/01/15 6:15	CYC0376	CC52823
Benzo(a)anthracene	ND (0.016)		8270D		1	04/01/15 6:15	CYC0376	CC52823
Benzo(a)pyrene	ND (0.016)		8270D		1	04/01/15 6:15	CYC0376	CC52823
Benzo(b)fluoranthene	ND (0.016)		8270D		1	04/01/15 6:15	CYC0376	CC52823
Benzo(g,h,i)perylene	ND (0.016)		8270D		1	04/01/15 6:15	CYC0376	CC52823
Benzo(k)fluoranthene	ND (0.016)		8270D		1	04/01/15 6:15	CYC0376	CC52823
Chrysene	ND (0.016)		8270D		1	04/01/15 6:15	CYC0376	CC52823
Dibenzo(a,h)Anthracene	ND (0.016)		8270D		1	04/01/15 6:15	CYC0376	CC52823
Fluoranthene	ND (0.016)		8270D		1	04/01/15 6:15	CYC0376	CC52823
Fluorene	ND (0.016)		8270D		1	04/01/15 6:15	CYC0376	CC52823
Hexachlorobenzene	ND (0.006)		8270D		1	04/01/15 6:15	CYC0376	CC52823
Indeno(1,2,3-cd)Pyrene	ND (0.016)		8270D		1	04/01/15 6:15	CYC0376	CC52823
Naphthalene	ND (0.016)		8270D		1	04/01/15 6:15	CYC0376	CC52823
Phenanthrene	ND (0.016)		8270D		1	04/01/15 6:15	CYC0376	CC52823
Pyrene	ND (0.016)		8270D		1	04/01/15 6:15	CYC0376	CC52823

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*57 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*72 %*		*30-130*
Surrogate: Nitrobenzene-d5	*71 %*		*30-130*
Surrogate: p-Terphenyl-d14	*80 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-213 0ft-3ft
Date Sampled: 03/25/15 13:52
Percent Solids: 65
Initial Volume: 18.6
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1503448
ESS Laboratory Sample ID: 1503448-08
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.0021)		8260B Low		1	03/26/15 16:37	CYC0308	CC52627
1,1,1-Trichloroethane	ND (0.0021)		8260B Low		1	03/26/15 16:37	CYC0308	CC52627
1,1,2,2-Tetrachloroethane	ND (0.0008)		8260B Low		1	03/26/15 16:37	CYC0308	CC52627
1,1,2-Trichloroethane	ND (0.0021)		8260B Low		1	03/26/15 16:37	CYC0308	CC52627
1,1-Dichloroethane	ND (0.0021)		8260B Low		1	03/26/15 16:37	CYC0308	CC52627
1,1-Dichloroethene	ND (0.0021)		8260B Low		1	03/26/15 16:37	CYC0308	CC52627
1,1-Dichloropropene	ND (0.0021)		8260B Low		1	03/26/15 16:37	CYC0308	CC52627
1,2,3-Trichlorobenzene	ND (0.0021)		8260B Low		1	03/26/15 16:37	CYC0308	CC52627
1,2,3-Trichloropropane	ND (0.0021)		8260B Low		1	03/26/15 16:37	CYC0308	CC52627
1,2,4-Trichlorobenzene	ND (0.0021)		8260B Low		1	03/26/15 16:37	CYC0308	CC52627
1,2,4-Trimethylbenzene	ND (0.0021)		8260B Low		1	03/26/15 16:37	CYC0308	CC52627
1,2-Dibromo-3-Chloropropane	ND (0.0021)		8260B Low		1	03/26/15 16:37	CYC0308	CC52627
1,2-Dibromoethane	ND (0.0021)		8260B Low		1	03/26/15 16:37	CYC0308	CC52627
1,2-Dichlorobenzene	ND (0.0021)		8260B Low		1	03/26/15 16:37	CYC0308	CC52627
1,2-Dichloroethane	ND (0.0021)		8260B Low		1	03/26/15 16:37	CYC0308	CC52627
1,2-Dichloropropane	ND (0.0021)		8260B Low		1	03/26/15 16:37	CYC0308	CC52627
1,3,5-Trimethylbenzene	ND (0.0021)		8260B Low		1	03/26/15 16:37	CYC0308	CC52627
1,3-Dichlorobenzene	ND (0.0021)		8260B Low		1	03/26/15 16:37	CYC0308	CC52627
1,3-Dichloropropane	ND (0.0021)		8260B Low		1	03/26/15 16:37	CYC0308	CC52627
1,4-Dichlorobenzene	ND (0.0021)		8260B Low		1	03/26/15 16:37	CYC0308	CC52627
1,4-Dioxane	ND (0.0412)		8260B Low		1	03/26/15 16:37	CYC0308	CC52627
2,2-Dichloropropane	ND (0.0021)		8260B Low		1	03/26/15 16:37	CYC0308	CC52627
2-Butanone	**0.0068** (0.0041)		8260B Low		1	03/26/15 16:37	CYC0308	CC52627
2-Chlorotoluene	ND (0.0021)		8260B Low		1	03/26/15 16:37	CYC0308	CC52627
2-Hexanone	ND (0.0041)		8260B Low		1	03/26/15 16:37	CYC0308	CC52627
4-Chlorotoluene	ND (0.0021)		8260B Low		1	03/26/15 16:37	CYC0308	CC52627
4-Isopropyltoluene	ND (0.0021)		8260B Low		1	03/26/15 16:37	CYC0308	CC52627
4-Methyl-2-Pentanone	ND (0.0041)		8260B Low		1	03/26/15 16:37	CYC0308	CC52627
Acetone	**0.0504** (0.0041)		8260B Low		1	03/26/15 16:37	CYC0308	CC52627
Benzene	ND (0.0021)		8260B Low		1	03/26/15 16:37	CYC0308	CC52627
Bromobenzene	ND (0.0021)		8260B Low		1	03/26/15 16:37	CYC0308	CC52627
Bromochloromethane	ND (0.0021)		8260B Low		1	03/26/15 16:37	CYC0308	CC52627

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-213 0ft-3ft
Date Sampled: 03/25/15 13:52
Percent Solids: 65
Initial Volume: 18.6
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1503448
ESS Laboratory Sample ID: 1503448-08
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Bromodichloromethane	ND (0.0021)		8260B Low		1	03/26/15 16:37	CYC0308	CC52627
Bromoform	ND (0.0021)		8260B Low		1	03/26/15 16:37	CYC0308	CC52627
Bromomethane	ND (0.0041)		8260B Low		1	03/26/15 16:37	CYC0308	CC52627
Carbon Disulfide	**0.0045** (0.0021)		8260B Low		1	03/26/15 16:37	CYC0308	CC52627
Carbon Tetrachloride	ND (0.0021)		8260B Low		1	03/26/15 16:37	CYC0308	CC52627
Chlorobenzene	ND (0.0021)		8260B Low		1	03/26/15 16:37	CYC0308	CC52627
Chloroethane	ND (0.0041)		8260B Low		1	03/26/15 16:37	CYC0308	CC52627
Chloroform	ND (0.0021)		8260B Low		1	03/26/15 16:37	CYC0308	CC52627
Chloromethane	ND (0.0041)		8260B Low		1	03/26/15 16:37	CYC0308	CC52627
cis-1,2-Dichloroethene	ND (0.0021)		8260B Low		1	03/26/15 16:37	CYC0308	CC52627
cis-1,3-Dichloropropene	ND (0.0021)		8260B Low		1	03/26/15 16:37	CYC0308	CC52627
Dibromochloromethane	ND (0.0008)		8260B Low		1	03/26/15 16:37	CYC0308	CC52627
Dibromomethane	ND (0.0021)		8260B Low		1	03/26/15 16:37	CYC0308	CC52627
Dichlorodifluoromethane	ND (0.0041)		8260B Low		1	03/26/15 16:37	CYC0308	CC52627
Diethyl Ether	ND (0.0021)		8260B Low		1	03/26/15 16:37	CYC0308	CC52627
Di-isopropyl ether	ND (0.0021)		8260B Low		1	03/26/15 16:37	CYC0308	CC52627
Ethyl tertiary-butyl ether	ND (0.0021)		8260B Low		1	03/26/15 16:37	CYC0308	CC52627
Ethylbenzene	ND (0.0021)		8260B Low		1	03/26/15 16:37	CYC0308	CC52627
Hexachlorobutadiene	ND (0.0021)		8260B Low		1	03/26/15 16:37	CYC0308	CC52627
Isopropylbenzene	ND (0.0021)		8260B Low		1	03/26/15 16:37	CYC0308	CC52627
Methyl tert-Butyl Ether	ND (0.0021)		8260B Low		1	03/26/15 16:37	CYC0308	CC52627
Methylene Chloride	ND (0.0041)		8260B Low		1	03/26/15 16:37	CYC0308	CC52627
Naphthalene	ND (0.0021)		8260B Low		1	03/26/15 16:37	CYC0308	CC52627
n-Butylbenzene	ND (0.0021)		8260B Low		1	03/26/15 16:37	CYC0308	CC52627
n-Propylbenzene	ND (0.0021)		8260B Low		1	03/26/15 16:37	CYC0308	CC52627
sec-Butylbenzene	ND (0.0021)		8260B Low		1	03/26/15 16:37	CYC0308	CC52627
Styrene	ND (0.0021)		8260B Low		1	03/26/15 16:37	CYC0308	CC52627
tert-Butylbenzene	ND (0.0021)		8260B Low		1	03/26/15 16:37	CYC0308	CC52627
Tertiary-amyl methyl ether	ND (0.0021)		8260B Low		1	03/26/15 16:37	CYC0308	CC52627
Tetrachloroethene	ND (0.0021)		8260B Low		1	03/26/15 16:37	CYC0308	CC52627
Tetrahydrofuran	ND (0.0021)		8260B Low		1	03/26/15 16:37	CYC0308	CC52627
Toluene	ND (0.0021)		8260B Low		1	03/26/15 16:37	CYC0308	CC52627

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-213 0ft-3ft
Date Sampled: 03/25/15 13:52
Percent Solids: 65
Initial Volume: 18.6
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1503448
ESS Laboratory Sample ID: 1503448-08
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
trans-1,2-Dichloroethene	ND (0.0021)		8260B Low		1	03/26/15 16:37	CYC0308	CC52627
trans-1,3-Dichloropropene	ND (0.0021)		8260B Low		1	03/26/15 16:37	CYC0308	CC52627
Trichloroethene	ND (0.0021)		8260B Low		1	03/26/15 16:37	CYC0308	CC52627
Trichlorofluoromethane	ND (0.0021)		8260B Low		1	03/26/15 16:37	CYC0308	CC52627
Vinyl Chloride	ND (0.0041)		8260B Low		1	03/26/15 16:37	CYC0308	CC52627
Xylene O	ND (0.0021)		8260B Low		1	03/26/15 16:37	CYC0308	CC52627
Xylene P,M	ND (0.0041)		8260B Low		1	03/26/15 16:37	CYC0308	CC52627
Xylenes (Total)	ND (0.0041)		8260B Low		1	03/26/15 16:37		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*105 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*89 %*		*70-130*
Surrogate: Dibromofluoromethane	*93 %*		*70-130*
Surrogate: Toluene-d8	*98 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-213 0ft-3ft
Date Sampled: 03/25/15 13:52
Percent Solids: 65
Initial Volume: 30.1
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503448
ESS Laboratory Sample ID: 1503448-08
Sample Matrix: Soil
Units: mg/kg dry
Analyst: JXS
Prepared: 3/30/15 12:52

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.254)		8270D		1	03/31/15 3:55	CYC0357	CD50205
1,2-Dichlorobenzene	ND (0.254)		8270D		1	03/31/15 3:55	CYC0357	CD50205
1,3-Dichlorobenzene	ND (0.254)		8270D		1	03/31/15 3:55	CYC0357	CD50205
1,4-Dichlorobenzene	ND (0.254)		8270D		1	03/31/15 3:55	CYC0357	CD50205
2,4,5-Trichlorophenol	ND (0.254)		8270D		1	03/31/15 3:55	CYC0357	CD50205
2,4,6-Trichlorophenol	ND (0.254)		8270D		1	03/31/15 3:55	CYC0357	CD50205
2,4-Dichlorophenol	ND (0.254)		8270D		1	03/31/15 3:55	CYC0357	CD50205
2,4-Dimethylphenol	ND (0.254)		8270D		1	03/31/15 3:55	CYC0357	CD50205
2,4-Dinitrophenol	ND (1.27)		8270D		1	03/31/15 3:55	CYC0357	CD50205
2,4-Dinitrotoluene	ND (0.254)		8270D		1	03/31/15 3:55	CYC0357	CD50205
2,6-Dinitrotoluene	ND (0.254)		8270D		1	03/31/15 3:55	CYC0357	CD50205
2-Chloronaphthalene	ND (0.254)		8270D		1	03/31/15 3:55	CYC0357	CD50205
2-Chlorophenol	ND (0.254)		8270D		1	03/31/15 3:55	CYC0357	CD50205
2-Methylphenol	ND (0.254)		8270D		1	03/31/15 3:55	CYC0357	CD50205
2-Nitrophenol	ND (0.254)		8270D		1	03/31/15 3:55	CYC0357	CD50205
3,3´-Dichlorobenzidine	ND (0.509)		8270D		1	03/31/15 3:55	CYC0357	CD50205
3+4-Methylphenol	ND (0.509)		8270D		1	03/31/15 3:55	CYC0357	CD50205
4-Bromophenyl-phenylether	ND (0.254)		8270D		1	03/31/15 3:55	CYC0357	CD50205
4-Chloroaniline	ND (0.509)		8270D		1	03/31/15 3:55	CYC0357	CD50205
4-Nitrophenol	ND (1.27)		8270D		1	03/31/15 3:55	CYC0357	CD50205
Acetophenone	ND (0.509)		8270D		1	03/31/15 3:55	CYC0357	CD50205
Aniline	ND (1.27)		8270D		1	03/31/15 3:55	CYC0357	CD50205
Azobenzene	ND (0.254)		8270D		1	03/31/15 3:55	CYC0357	CD50205
bis(2-Chloroethoxy)methane	ND (0.254)		8270D		1	03/31/15 3:55	CYC0357	CD50205
bis(2-Chloroethyl)ether	ND (0.254)		8270D		1	03/31/15 3:55	CYC0357	CD50205
bis(2-chloroisopropyl)Ether	ND (0.254)		8270D		1	03/31/15 3:55	CYC0357	CD50205
bis(2-Ethylhexyl)phthalate	ND (0.254)		8270D		1	03/31/15 3:55	CYC0357	CD50205
Butylbenzylphthalate	ND (0.254)		8270D		1	03/31/15 3:55	CYC0357	CD50205
Dibenzofuran	ND (0.254)		8270D		1	03/31/15 3:55	CYC0357	CD50205
Diethylphthalate	ND (0.254)		8270D		1	03/31/15 3:55	CYC0357	CD50205
Dimethylphthalate	ND (0.254)		8270D		1	03/31/15 3:55	CYC0357	CD50205
Di-n-butylphthalate	ND (0.254)		8270D		1	03/31/15 3:55	CYC0357	CD50205

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-213 0ft-3ft
Date Sampled: 03/25/15 13:52
Percent Solids: 65
Initial Volume: 30.1
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503448
ESS Laboratory Sample ID: 1503448-08
Sample Matrix: Soil
Units: mg/kg dry
Analyst: JXS
Prepared: 3/30/15 12:52

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Di-n-octylphthalate	ND (0.254)		8270D		1	03/31/15 3:55	CYC0357	CD50205
Hexachlorobenzene	ND (0.254)		8270D		1	03/31/15 3:55	CYC0357	CD50205
Hexachlorobutadiene	ND (0.254)		8270D		1	03/31/15 3:55	CYC0357	CD50205
Hexachloroethane	ND (0.254)		8270D		1	03/31/15 3:55	CYC0357	CD50205
Isophorone	ND (0.254)		8270D		1	03/31/15 3:55	CYC0357	CD50205
Nitrobenzene	ND (0.254)		8270D		1	03/31/15 3:55	CYC0357	CD50205
N-Nitrosodimethylamine	ND (0.254)		8270D		1	03/31/15 3:55	CYC0357	CD50205
Pentachlorophenol	ND (1.27)		8270D		1	03/31/15 3:55	CYC0357	CD50205
Phenol	ND (0.254)		8270D		1	03/31/15 3:55	CYC0357	CD50205

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*49 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*67 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*50 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*55 %*		*30-130*
Surrogate: 2-Fluorophenol	*45 %*		*30-130*
Surrogate: Nitrobenzene-d5	*45 %*		*30-130*
Surrogate: Phenol-d6	*48 %*		*30-130*
Surrogate: p-Terphenyl-d14	*81 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-213 0ft-3ft
Date Sampled: 03/25/15 13:52
Percent Solids: 65

ESS Laboratory Work Order: 1503448
ESS Laboratory Sample ID: 1503448-08
Sample Matrix: Soil

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Corrosivity (pH)	**H 7.80** (N/A)		9045		1	JLK	03/27/15 10:44	S.U.	CC52721
Corrosivity (pH) Sample Temp	**Soil pH measured in water at 14.8 °C.**								
Eh (ORP)	**H, WL 121** (N/A)		2580		1	JLK	03/27/15 10:44	mv	CC52722
Grain Size	**See Attached** (N/A)								
Hexavalent Chromium	ND (0.6)		7196A		1	JLK	03/28/15 11:00	mg/kg dry	CC52807
Percent Water	**See Attached** (N/A)								
Reactive Cyanide	ND (2.0)		7.3.3.2		1	JLK	03/30/15 11:05	mg/kg	CC53003
Reactive Sulfide	**8.6** (2.0)		7.3.4.1		1	JLK	03/30/15 11:05	mg/kg	CC53003

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-213 0ft-3ft
Date Sampled: 03/25/15 13:52
Percent Solids: 65
Initial Volume: 30
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1503448
ESS Laboratory Sample ID: 1503448-08
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 3/27/15 17:04

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (19.1)		MADEP-EPH		1	DPS	03/31/15 2:38	CYC0346	CC52711
C19-C36 Aliphatics1	**20.9** (19.1)		MADEP-EPH		1	DPS	03/31/15 2:38	CYC0346	CC52711
C11-C22 Unadjusted Aromatics1	**22.7** (19.1)		EPH8270		1	VSC	03/30/15 23:43	CYC0347	CC52711
C11-C22 Aromatics1,2	**21.6** (19.1)		EPH8270			VSC	03/30/15 23:43		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*62 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*109 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*111 %*		*40-140*
Surrogate: O-Terphenyl	*73 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-218 0ft-0.5ft
Date Sampled: 03/25/15 14:23
Percent Solids: 49
Initial Volume: 30.3
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503448
ESS Laboratory Sample ID: 1503448-09
Sample Matrix: Soil
Units: mg/kg dry
Analyst: JXS
Prepared: 3/30/15 12:52

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.335)		8270D		1	03/31/15 5:30	CYC0357	CD50205
1,2-Dichlorobenzene	ND (0.335)		8270D		1	03/31/15 5:30	CYC0357	CD50205
1,3-Dichlorobenzene	ND (0.335)		8270D		1	03/31/15 5:30	CYC0357	CD50205
1,4-Dichlorobenzene	ND (0.335)		8270D		1	03/31/15 5:30	CYC0357	CD50205
2,4,5-Trichlorophenol	ND (0.335)		8270D		1	03/31/15 5:30	CYC0357	CD50205
2,4,6-Trichlorophenol	ND (0.335)		8270D		1	03/31/15 5:30	CYC0357	CD50205
2,4-Dichlorophenol	ND (0.335)		8270D		1	03/31/15 5:30	CYC0357	CD50205
2,4-Dimethylphenol	ND (0.335)		8270D		1	03/31/15 5:30	CYC0357	CD50205
2,4-Dinitrophenol	ND (1.68)		8270D		1	03/31/15 5:30	CYC0357	CD50205
2,4-Dinitrotoluene	ND (0.335)		8270D		1	03/31/15 5:30	CYC0357	CD50205
2,6-Dinitrotoluene	ND (0.335)		8270D		1	03/31/15 5:30	CYC0357	CD50205
2-Chloronaphthalene	ND (0.335)		8270D		1	03/31/15 5:30	CYC0357	CD50205
2-Chlorophenol	ND (0.335)		8270D		1	03/31/15 5:30	CYC0357	CD50205
2-Methylphenol	ND (0.335)		8270D		1	03/31/15 5:30	CYC0357	CD50205
2-Nitrophenol	ND (0.335)		8270D		1	03/31/15 5:30	CYC0357	CD50205
3,3´-Dichlorobenzidine	ND (0.671)		8270D		1	03/31/15 5:30	CYC0357	CD50205
3+4-Methylphenol	ND (0.671)		8270D		1	03/31/15 5:30	CYC0357	CD50205
4-Bromophenyl-phenylether	ND (0.335)		8270D		1	03/31/15 5:30	CYC0357	CD50205
4-Chloroaniline	ND (0.671)		8270D		1	03/31/15 5:30	CYC0357	CD50205
4-Nitrophenol	ND (1.68)		8270D		1	03/31/15 5:30	CYC0357	CD50205
Acetophenone	ND (0.671)		8270D		1	03/31/15 5:30	CYC0357	CD50205
Aniline	ND (1.68)		8270D		1	03/31/15 5:30	CYC0357	CD50205
Azobenzene	ND (0.335)		8270D		1	03/31/15 5:30	CYC0357	CD50205
bis(2-Chloroethoxy)methane	ND (0.335)		8270D		1	03/31/15 5:30	CYC0357	CD50205
bis(2-Chloroethyl)ether	ND (0.335)		8270D		1	03/31/15 5:30	CYC0357	CD50205
bis(2-chloroisopropyl)Ether	ND (0.335)		8270D		1	03/31/15 5:30	CYC0357	CD50205
bis(2-Ethylhexyl)phthalate	**3.37** (0.335)		8270D		1	03/31/15 5:30	CYC0357	CD50205
Butylbenzylphthalate	ND (0.335)		8270D		1	03/31/15 5:30	CYC0357	CD50205
Dibenzofuran	ND (0.335)		8270D		1	03/31/15 5:30	CYC0357	CD50205
Diethylphthalate	ND (0.335)		8270D		1	03/31/15 5:30	CYC0357	CD50205
Dimethylphthalate	ND (0.335)		8270D		1	03/31/15 5:30	CYC0357	CD50205
Di-n-butylphthalate	ND (0.335)		8270D		1	03/31/15 5:30	CYC0357	CD50205

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-218 0ft-0.5ft
Date Sampled: 03/25/15 14:23
Percent Solids: 49
Initial Volume: 30.3
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503448
ESS Laboratory Sample ID: 1503448-09
Sample Matrix: Soil
Units: mg/kg dry
Analyst: JXS
Prepared: 3/30/15 12:52

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Di-n-octylphthalate	ND (0.335)		8270D		1	03/31/15 5:30	CYC0357	CD50205
Hexachlorobenzene	ND (0.335)		8270D		1	03/31/15 5:30	CYC0357	CD50205
Hexachlorobutadiene	ND (0.335)		8270D		1	03/31/15 5:30	CYC0357	CD50205
Hexachloroethane	ND (0.335)		8270D		1	03/31/15 5:30	CYC0357	CD50205
Isophorone	ND (0.335)		8270D		1	03/31/15 5:30	CYC0357	CD50205
Nitrobenzene	ND (0.335)		8270D		1	03/31/15 5:30	CYC0357	CD50205
N-Nitrosodimethylamine	ND (0.335)		8270D		1	03/31/15 5:30	CYC0357	CD50205
Pentachlorophenol	ND (1.68)		8270D		1	03/31/15 5:30	CYC0357	CD50205
Phenol	ND (0.335)		8270D		1	03/31/15 5:30	CYC0357	CD50205

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*38 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*67 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*40 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*57 %*		*30-130*
Surrogate: 2-Fluorophenol	*36 %*		*30-130*
Surrogate: Nitrobenzene-d5	*38 %*		*30-130*
Surrogate: Phenol-d6	*41 %*		*30-130*
Surrogate: p-Terphenyl-d14	*74 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-218 0ft-0.5ft
Date Sampled: 03/25/15 14:23
Percent Solids: 49
Initial Volume: 20.9
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503448
ESS Laboratory Sample ID: 1503448-09
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 3/28/15 12:00

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	**0.033** (0.024)		8270D		1	04/02/15 0:17	CYD0015	CC52823
Acenaphthene	**0.032** (0.024)		8270D		1	04/02/15 0:17	CYD0015	CC52823
Acenaphthylene	**0.212** (0.024)		8270D		1	04/02/15 0:17	CYD0015	CC52823
Anthracene	**0.234** (0.024)		8270D		1	04/02/15 0:17	CYD0015	CC52823
Benzo(a)anthracene	**0.527** (0.024)		8270D		1	04/02/15 0:17	CYD0015	CC52823
Benzo(a)pyrene	**0.735** (0.024)		8270D		1	04/02/15 0:17	CYD0015	CC52823
Benzo(b)fluoranthene	**1.20** (0.024)		8270D		1	04/02/15 0:17	CYD0015	CC52823
Benzo(g,h,i)perylene	**0.404** (0.024)		8270D		1	04/02/15 0:17	CYD0015	CC52823
Benzo(k)fluoranthene	**0.293** (0.024)		8270D		1	04/02/15 0:17	CYD0015	CC52823
Chrysene	**0.713** (0.024)		8270D		1	04/02/15 0:17	CYD0015	CC52823
Dibenzo(a,h)Anthracene	**0.127** (0.024)		8270D		1	04/02/15 0:17	CYD0015	CC52823
Fluoranthene	**0.991** (0.024)		8270D		1	04/02/15 0:17	CYD0015	CC52823
Fluorene	**0.054** (0.024)		8270D		1	04/02/15 0:17	CYD0015	CC52823
Hexachlorobenzene	ND (0.010)		8270D		1	04/02/15 0:17	CYD0015	CC52823
Indeno(1,2,3-cd)Pyrene	**0.493** (0.024)		8270D		1	04/02/15 0:17	CYD0015	CC52823
Naphthalene	**0.100** (0.024)		8270D		1	04/02/15 0:17	CYD0015	CC52823
Phenanthrene	**0.345** (0.024)		8270D		1	04/02/15 0:17	CYD0015	CC52823
Pyrene	**1.12** (0.024)		8270D		1	04/02/15 0:17	CYD0015	CC52823

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*36 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*50 %*		*30-130*
Surrogate: Nitrobenzene-d5	*45 %*		*30-130*
Surrogate: p-Terphenyl-d14	*62 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-218 0ft-0.5ft
Date Sampled: 03/25/15 14:23
Percent Solids: 49
Initial Volume: 30.3
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1503448
ESS Laboratory Sample ID: 1503448-09
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 3/27/15 17:04

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (25.2)		MADEP-EPH		1	DPS	03/31/15 3:28	CYC0346	CC52711
C19-C36 Aliphatics1	**97.5** (25.2)		MADEP-EPH		1	DPS	03/31/15 3:28	CYC0346	CC52711
C11-C22 Unadjusted Aromatics1	**62.0** (25.2)		EPH8270		1	VSC	03/31/15 0:17	CYC0347	CC52711
C11-C22 Aromatics1,2	**57.2** (25.2)		EPH8270			VSC	03/31/15 0:17		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*55 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*112 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*109 %*		*40-140*
Surrogate: O-Terphenyl	*71 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-218 0.5ft-2ft
Date Sampled: 03/25/15 14:23
Percent Solids: 57
Initial Volume: 30.5
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503448
ESS Laboratory Sample ID: 1503448-10
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 3/30/15 12:52

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.289)		8270D		1	04/01/15 11:16	CYD0001	CD50205
1,2-Dichlorobenzene	ND (0.289)		8270D		1	04/01/15 11:16	CYD0001	CD50205
1,3-Dichlorobenzene	ND (0.289)		8270D		1	04/01/15 11:16	CYD0001	CD50205
1,4-Dichlorobenzene	ND (0.289)		8270D		1	04/01/15 11:16	CYD0001	CD50205
2,4,5-Trichlorophenol	ND (0.289)		8270D		1	04/01/15 11:16	CYD0001	CD50205
2,4,6-Trichlorophenol	ND (0.289)		8270D		1	04/01/15 11:16	CYD0001	CD50205
2,4-Dichlorophenol	ND (0.289)		8270D		1	04/01/15 11:16	CYD0001	CD50205
2,4-Dimethylphenol	ND (0.289)		8270D		1	04/01/15 11:16	CYD0001	CD50205
2,4-Dinitrophenol	ND (1.45)		8270D		1	04/01/15 11:16	CYD0001	CD50205
2,4-Dinitrotoluene	ND (0.289)		8270D		1	04/01/15 11:16	CYD0001	CD50205
2,6-Dinitrotoluene	ND (0.289)		8270D		1	04/01/15 11:16	CYD0001	CD50205
2-Chloronaphthalene	ND (0.289)		8270D		1	04/01/15 11:16	CYD0001	CD50205
2-Chlorophenol	ND (0.289)		8270D		1	04/01/15 11:16	CYD0001	CD50205
2-Methylphenol	ND (0.289)		8270D		1	04/01/15 11:16	CYD0001	CD50205
2-Nitrophenol	ND (0.289)		8270D		1	04/01/15 11:16	CYD0001	CD50205
3,3´-Dichlorobenzidine	ND (0.578)		8270D		1	04/01/15 11:16	CYD0001	CD50205
3+4-Methylphenol	ND (0.578)		8270D		1	04/01/15 11:16	CYD0001	CD50205
4-Bromophenyl-phenylether	ND (0.289)		8270D		1	04/01/15 11:16	CYD0001	CD50205
4-Chloroaniline	ND (0.578)		8270D		1	04/01/15 11:16	CYD0001	CD50205
4-Nitrophenol	ND (1.45)		8270D		1	04/01/15 11:16	CYD0001	CD50205
Acetophenone	ND (0.578)		8270D		1	04/01/15 11:16	CYD0001	CD50205
Aniline	ND (1.45)		8270D		1	04/01/15 11:16	CYD0001	CD50205
Azobenzene	ND (0.289)		8270D		1	04/01/15 11:16	CYD0001	CD50205
bis(2-Chloroethoxy)methane	ND (0.289)		8270D		1	04/01/15 11:16	CYD0001	CD50205
bis(2-Chloroethyl)ether	ND (0.289)		8270D		1	04/01/15 11:16	CYD0001	CD50205
bis(2-chloroisopropyl)Ether	ND (0.289)		8270D		1	04/01/15 11:16	CYD0001	CD50205
bis(2-Ethylhexyl)phthalate	**0.307** (0.289)		8270D		1	04/01/15 11:16	CYD0001	CD50205
Butylbenzylphthalate	ND (0.289)		8270D		1	04/01/15 11:16	CYD0001	CD50205
Dibenzofuran	ND (0.289)		8270D		1	04/01/15 11:16	CYD0001	CD50205
Diethylphthalate	ND (0.289)		8270D		1	04/01/15 11:16	CYD0001	CD50205
Dimethylphthalate	ND (0.289)		8270D		1	04/01/15 11:16	CYD0001	CD50205
Di-n-butylphthalate	ND (0.289)		8270D		1	04/01/15 11:16	CYD0001	CD50205

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-218 0.5ft-2ft
Date Sampled: 03/25/15 14:23
Percent Solids: 57
Initial Volume: 30.5
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503448
ESS Laboratory Sample ID: 1503448-10
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 3/30/15 12:52

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Di-n-octylphthalate	ND (0.289)		8270D		1	04/01/15 11:16	CYD0001	CD50205
Hexachlorobenzene	ND (0.289)		8270D		1	04/01/15 11:16	CYD0001	CD50205
Hexachlorobutadiene	ND (0.289)		8270D		1	04/01/15 11:16	CYD0001	CD50205
Hexachloroethane	ND (0.289)		8270D		1	04/01/15 11:16	CYD0001	CD50205
Isophorone	ND (0.289)		8270D		1	04/01/15 11:16	CYD0001	CD50205
Nitrobenzene	ND (0.289)		8270D		1	04/01/15 11:16	CYD0001	CD50205
N-Nitrosodimethylamine	ND (0.289)		8270D		1	04/01/15 11:16	CYD0001	CD50205
Pentachlorophenol	ND (1.45)		8270D		1	04/01/15 11:16	CYD0001	CD50205
Phenol	ND (0.289)		8270D		1	04/01/15 11:16	CYD0001	CD50205

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*37 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*27 %*	*S-*	*30-130*
Surrogate: 2-Chlorophenol-d4	*39 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*45 %*		*30-130*
Surrogate: 2-Fluorophenol	*37 %*		*30-130*
Surrogate: Nitrobenzene-d5	*39 %*		*30-130*
Surrogate: Phenol-d6	*42 %*		*30-130*
Surrogate: p-Terphenyl-d14	*61 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-218 0.5ft-2ft
Date Sampled: 03/25/15 14:23
Percent Solids: 57
Initial Volume: 20.2
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503448
ESS Laboratory Sample ID: 1503448-10
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 3/28/15 12:00

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	ND (0.109)		8270D		5	04/02/15 14:10	CYD0016	CC52823
Acenaphthene	**0.030** (0.022)		8270D		5	04/02/15 14:10	CYD0016	CC52823
Acenaphthylene	**0.328** (0.109)		8270D		5	04/02/15 14:10	CYD0016	CC52823
Anthracene	**0.336** (0.109)		8270D		5	04/02/15 14:10	CYD0016	CC52823
Benzo(a)anthracene	**0.718** (0.109)		8270D		5	04/02/15 14:10	CYD0016	CC52823
Benzo(a)pyrene	**0.674** (0.109)		8270D		5	04/02/15 14:10	CYD0016	CC52823
Benzo(b)fluoranthene	**0.804** (0.109)		8270D		5	04/02/15 14:10	CYD0016	CC52823
Benzo(g,h,i)perylene	**0.282** (0.109)		8270D		5	04/02/15 14:10	CYD0016	CC52823
Benzo(k)fluoranthene	**0.216** (0.109)		8270D		5	04/02/15 14:10	CYD0016	CC52823
Chrysene	**0.882** (0.109)		8270D		5	04/02/15 14:10	CYD0016	CC52823
Dibenzo(a,h)Anthracene	ND (0.109)		8270D		5	04/02/15 14:10	CYD0016	CC52823
Fluoranthene	**1.24** (0.109)		8270D		5	04/02/15 14:10	CYD0016	CC52823
Fluorene	**0.081** (0.044)		8270D		5	04/02/15 14:10	CYD0016	CC52823
Hexachlorobenzene	ND (0.022)		8270D		5	04/02/15 14:10	CYD0016	CC52823
Indeno(1,2,3-cd)Pyrene	**0.330** (0.109)		8270D		5	04/02/15 14:10	CYD0016	CC52823
Naphthalene	ND (0.109)		8270D		5	04/02/15 14:10	CYD0016	CC52823
Phenanthrene	**0.248** (0.109)		8270D		5	04/02/15 14:10	CYD0016	CC52823
Pyrene	**1.49** (0.109)		8270D		5	04/02/15 14:10	CYD0016	CC52823

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*34 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*52 %*		*30-130*
Surrogate: Nitrobenzene-d5	*49 %*		*30-130*
Surrogate: p-Terphenyl-d14	*65 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-218 0.5ft-2ft
Date Sampled: 03/25/15 14:23
Percent Solids: 57
Initial Volume: 30.6
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1503448
ESS Laboratory Sample ID: 1503448-10
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 3/27/15 17:04

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (21.6)		MADEP-EPH		1	DPS	03/31/15 4:19	CYC0346	CC52711
C19-C36 Aliphatics1	**43.3** (21.6)		MADEP-EPH		1	DPS	03/31/15 4:19	CYC0346	CC52711
C11-C22 Unadjusted Aromatics1	**42.7** (21.6)		EPH8270		1	JXS	04/02/15 15:00	CYD0009	CC52711
C11-C22 Aromatics1,2	**38.8** (21.6)		EPH8270			JXS	04/02/15 15:00		[CALC]

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1-Chlorooctadecane	*50 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*109 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*108 %*		*40-140*
Surrogate: O-Terphenyl	*71 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-218 4ft-6ft
Date Sampled: 03/25/15 14:23
Percent Solids: 72
Initial Volume: 20.3
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503448
ESS Laboratory Sample ID: 1503448-11
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 3/28/15 12:00

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	ND (0.017)		8270D		1	04/02/15 1:56	CYD0015	CC52823
Acenaphthene	ND (0.017)		8270D		1	04/02/15 1:56	CYD0015	CC52823
Acenaphthylene	ND (0.017)		8270D		1	04/02/15 1:56	CYD0015	CC52823
Anthracene	ND (0.017)		8270D		1	04/02/15 1:56	CYD0015	CC52823
Benzo(a)anthracene	ND (0.017)		8270D		1	04/02/15 1:56	CYD0015	CC52823
Benzo(a)pyrene	ND (0.017)		8270D		1	04/02/15 1:56	CYD0015	CC52823
Benzo(b)fluoranthene	ND (0.017)		8270D		1	04/02/15 1:56	CYD0015	CC52823
Benzo(g,h,i)perylene	ND (0.017)		8270D		1	04/02/15 1:56	CYD0015	CC52823
Benzo(k)fluoranthene	ND (0.017)		8270D		1	04/02/15 1:56	CYD0015	CC52823
Chrysene	ND (0.017)		8270D		1	04/02/15 1:56	CYD0015	CC52823
Dibenzo(a,h)Anthracene	ND (0.017)		8270D		1	04/02/15 1:56	CYD0015	CC52823
Fluoranthene	ND (0.017)		8270D		1	04/02/15 1:56	CYD0015	CC52823
Fluorene	ND (0.017)		8270D		1	04/02/15 1:56	CYD0015	CC52823
Hexachlorobenzene	ND (0.007)		8270D		1	04/02/15 1:56	CYD0015	CC52823
Indeno(1,2,3-cd)Pyrene	ND (0.017)		8270D		1	04/02/15 1:56	CYD0015	CC52823
Naphthalene	ND (0.017)		8270D		1	04/02/15 1:56	CYD0015	CC52823
Phenanthrene	ND (0.017)		8270D		1	04/02/15 1:56	CYD0015	CC52823
Pyrene	**0.018** (0.017)		8270D		1	04/02/15 1:56	CYD0015	CC52823

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*56 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*66 %*		*30-130*
Surrogate: Nitrobenzene-d5	*69 %*		*30-130*
Surrogate: p-Terphenyl-d14	*77 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-219 0ft-0.5ft
Date Sampled: 03/25/15 15:06
Percent Solids: 54
Initial Volume: 30.4
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503448
ESS Laboratory Sample ID: 1503448-12
Sample Matrix: Soil
Units: mg/kg dry
Analyst: JXS
Prepared: 3/30/15 12:52

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.306)		8270D		1	03/31/15 6:33	CYC0357	CD50205
1,2-Dichlorobenzene	ND (0.306)		8270D		1	03/31/15 6:33	CYC0357	CD50205
1,3-Dichlorobenzene	ND (0.306)		8270D		1	03/31/15 6:33	CYC0357	CD50205
1,4-Dichlorobenzene	ND (0.306)		8270D		1	03/31/15 6:33	CYC0357	CD50205
2,4,5-Trichlorophenol	ND (0.306)		8270D		1	03/31/15 6:33	CYC0357	CD50205
2,4,6-Trichlorophenol	ND (0.306)		8270D		1	03/31/15 6:33	CYC0357	CD50205
2,4-Dichlorophenol	ND (0.306)		8270D		1	03/31/15 6:33	CYC0357	CD50205
2,4-Dimethylphenol	ND (0.306)		8270D		1	03/31/15 6:33	CYC0357	CD50205
2,4-Dinitrophenol	ND (1.53)		8270D		1	03/31/15 6:33	CYC0357	CD50205
2,4-Dinitrotoluene	ND (0.306)		8270D		1	03/31/15 6:33	CYC0357	CD50205
2,6-Dinitrotoluene	ND (0.306)		8270D		1	03/31/15 6:33	CYC0357	CD50205
2-Chloronaphthalene	ND (0.306)		8270D		1	03/31/15 6:33	CYC0357	CD50205
2-Chlorophenol	ND (0.306)		8270D		1	03/31/15 6:33	CYC0357	CD50205
2-Methylphenol	ND (0.306)		8270D		1	03/31/15 6:33	CYC0357	CD50205
2-Nitrophenol	ND (0.306)		8270D		1	03/31/15 6:33	CYC0357	CD50205
3,3´-Dichlorobenzidine	ND (0.612)		8270D		1	03/31/15 6:33	CYC0357	CD50205
3+4-Methylphenol	ND (0.612)		8270D		1	03/31/15 6:33	CYC0357	CD50205
4-Bromophenyl-phenylether	ND (0.306)		8270D		1	03/31/15 6:33	CYC0357	CD50205
4-Chloroaniline	ND (0.612)		8270D		1	03/31/15 6:33	CYC0357	CD50205
4-Nitrophenol	ND (1.53)		8270D		1	03/31/15 6:33	CYC0357	CD50205
Acetophenone	ND (0.612)		8270D		1	03/31/15 6:33	CYC0357	CD50205
Aniline	ND (1.53)		8270D		1	03/31/15 6:33	CYC0357	CD50205
Azobenzene	ND (0.306)		8270D		1	03/31/15 6:33	CYC0357	CD50205
bis(2-Chloroethoxy)methane	ND (0.306)		8270D		1	03/31/15 6:33	CYC0357	CD50205
bis(2-Chloroethyl)ether	ND (0.306)		8270D		1	03/31/15 6:33	CYC0357	CD50205
bis(2-chloroisopropyl)Ether	ND (0.306)		8270D		1	03/31/15 6:33	CYC0357	CD50205
bis(2-Ethylhexyl)phthalate	**0.631** (0.306)		8270D		1	03/31/15 6:33	CYC0357	CD50205
Butylbenzylphthalate	ND (0.306)		8270D		1	03/31/15 6:33	CYC0357	CD50205
Dibenzofuran	ND (0.306)		8270D		1	03/31/15 6:33	CYC0357	CD50205
Diethylphthalate	ND (0.306)		8270D		1	03/31/15 6:33	CYC0357	CD50205
Dimethylphthalate	ND (0.306)		8270D		1	03/31/15 6:33	CYC0357	CD50205
Di-n-butylphthalate	ND (0.306)		8270D		1	03/31/15 6:33	CYC0357	CD50205

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-219 0ft-0.5ft
Date Sampled: 03/25/15 15:06
Percent Solids: 54
Initial Volume: 30.4
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503448
ESS Laboratory Sample ID: 1503448-12
Sample Matrix: Soil
Units: mg/kg dry
Analyst: JXS
Prepared: 3/30/15 12:52

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Di-n-octylphthalate	ND (0.306)		8270D		1	03/31/15 6:33	CYC0357	CD50205
Hexachlorobenzene	ND (0.306)		8270D		1	03/31/15 6:33	CYC0357	CD50205
Hexachlorobutadiene	ND (0.306)		8270D		1	03/31/15 6:33	CYC0357	CD50205
Hexachloroethane	ND (0.306)		8270D		1	03/31/15 6:33	CYC0357	CD50205
Isophorone	ND (0.306)		8270D		1	03/31/15 6:33	CYC0357	CD50205
Nitrobenzene	ND (0.306)		8270D		1	03/31/15 6:33	CYC0357	CD50205
N-Nitrosodimethylamine	ND (0.306)		8270D		1	03/31/15 6:33	CYC0357	CD50205
Pentachlorophenol	ND (1.53)		8270D		1	03/31/15 6:33	CYC0357	CD50205
Phenol	ND (0.306)		8270D		1	03/31/15 6:33	CYC0357	CD50205

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*44 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*93 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*46 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*57 %*		*30-130*
Surrogate: 2-Fluorophenol	*43 %*		*30-130*
Surrogate: Nitrobenzene-d5	*44 %*		*30-130*
Surrogate: Phenol-d6	*49 %*		*30-130*
Surrogate: p-Terphenyl-d14	*81 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-219 0ft-0.5ft
Date Sampled: 03/25/15 15:06
Percent Solids: 54
Initial Volume: 20.9
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503448
ESS Laboratory Sample ID: 1503448-12
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 3/28/15 12:00

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	**0.031** (0.022)		8270D		1	04/02/15 8:23	CYD0016	CC52823
Acenaphthene	**0.027** (0.022)		8270D		1	04/02/15 8:23	CYD0016	CC52823
Acenaphthylene	**0.127** (0.022)		8270D		1	04/02/15 8:23	CYD0016	CC52823
Anthracene	**0.175** (0.022)		8270D		1	04/02/15 8:23	CYD0016	CC52823
Benzo(a)anthracene	**0.355** (0.022)		8270D		1	04/02/15 8:23	CYD0016	CC52823
Benzo(a)pyrene	**0.459** (0.022)		8270D		1	04/02/15 8:23	CYD0016	CC52823
Benzo(b)fluoranthene	**0.719** (0.022)		8270D		1	04/02/15 8:23	CYD0016	CC52823
Benzo(g,h,i)perylene	**0.249** (0.022)		8270D		1	04/02/15 8:23	CYD0016	CC52823
Benzo(k)fluoranthene	**0.167** (0.022)		8270D		1	04/02/15 8:23	CYD0016	CC52823
Chrysene	**0.491** (0.022)		8270D		1	04/02/15 8:23	CYD0016	CC52823
Dibenzo(a,h)Anthracene	**0.072** (0.022)		8270D		1	04/02/15 8:23	CYD0016	CC52823
Fluoranthene	**0.624** (0.022)		8270D		1	04/02/15 8:23	CYD0016	CC52823
Fluorene	**0.046** (0.022)		8270D		1	04/02/15 8:23	CYD0016	CC52823
Hexachlorobenzene	ND (0.009)		8270D		1	04/02/15 8:23	CYD0016	CC52823
Indeno(1,2,3-cd)Pyrene	**0.295** (0.022)		8270D		1	04/02/15 8:23	CYD0016	CC52823
Naphthalene	**0.082** (0.022)		8270D		1	04/02/15 8:23	CYD0016	CC52823
Phenanthrene	**0.227** (0.022)		8270D		1	04/02/15 8:23	CYD0016	CC52823
Pyrene	**0.849** (0.022)		8270D		1	04/02/15 8:23	CYD0016	CC52823

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*32 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*52 %*		*30-130*
Surrogate: Nitrobenzene-d5	*41 %*		*30-130*
Surrogate: p-Terphenyl-d14	*59 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-219 0ft-0.5ft
Date Sampled: 03/25/15 15:06
Percent Solids: 54
Initial Volume: 30.2
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1503448
ESS Laboratory Sample ID: 1503448-12
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 3/27/15 17:04

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (23.1)		MADEP-EPH		1	DPS	03/31/15 6:52	CYC0346	CC52711
C19-C36 Aliphatics1	**108** (23.1)		MADEP-EPH		1	DPS	03/31/15 6:52	CYC0346	CC52711
C11-C22 Unadjusted Aromatics1	**68.7** (23.1)		EPH8270		1	VSC	03/31/15 1:25	CYC0347	CC52711
C11-C22 Aromatics1,2	**63.0** (23.1)		EPH8270			VSC	03/31/15 1:25		[CALC]

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1-Chlorooctadecane	*65 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*110 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*105 %*		*40-140*
Surrogate: O-Terphenyl	*73 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-219 4ft-6ft
Date Sampled: 03/25/15 15:06
Percent Solids: 78
Initial Volume: 20.4
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503448
ESS Laboratory Sample ID: 1503448-13
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 3/28/15 12:00

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	ND (0.016)		8270D		1	04/02/15 2:45	CYD0015	CC52823
Acenaphthene	ND (0.016)		8270D		1	04/02/15 2:45	CYD0015	CC52823
Acenaphthylene	ND (0.016)		8270D		1	04/02/15 2:45	CYD0015	CC52823
Anthracene	ND (0.016)		8270D		1	04/02/15 2:45	CYD0015	CC52823
Benzo(a)anthracene	ND (0.016)		8270D		1	04/02/15 2:45	CYD0015	CC52823
Benzo(a)pyrene	ND (0.016)		8270D		1	04/02/15 2:45	CYD0015	CC52823
Benzo(b)fluoranthene	ND (0.016)		8270D		1	04/02/15 2:45	CYD0015	CC52823
Benzo(g,h,i)perylene	ND (0.016)		8270D		1	04/02/15 2:45	CYD0015	CC52823
Benzo(k)fluoranthene	ND (0.016)		8270D		1	04/02/15 2:45	CYD0015	CC52823
Chrysene	ND (0.016)		8270D		1	04/02/15 2:45	CYD0015	CC52823
Dibenzo(a,h)Anthracene	ND (0.016)		8270D		1	04/02/15 2:45	CYD0015	CC52823
Fluoranthene	ND (0.016)		8270D		1	04/02/15 2:45	CYD0015	CC52823
Fluorene	ND (0.016)		8270D		1	04/02/15 2:45	CYD0015	CC52823
Hexachlorobenzene	ND (0.006)		8270D		1	04/02/15 2:45	CYD0015	CC52823
Indeno(1,2,3-cd)Pyrene	ND (0.016)		8270D		1	04/02/15 2:45	CYD0015	CC52823
Naphthalene	ND (0.016)		8270D		1	04/02/15 2:45	CYD0015	CC52823
Phenanthrene	ND (0.016)		8270D		1	04/02/15 2:45	CYD0015	CC52823
Pyrene	ND (0.016)		8270D		1	04/02/15 2:45	CYD0015	CC52823

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*42 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*53 %*		*30-130*
Surrogate: Nitrobenzene-d5	*52 %*		*30-130*
Surrogate: p-Terphenyl-d14	*61 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-219 0ft-3ft
Date Sampled: 03/25/15 15:06
Percent Solids: 64
Initial Volume: 6.7
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1503448
ESS Laboratory Sample ID: 1503448-14
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.0059)		8260B Low		1	03/26/15 17:05	CYC0308	CC52627
1,1,1-Trichloroethane	ND (0.0059)		8260B Low		1	03/26/15 17:05	CYC0308	CC52627
1,1,2,2-Tetrachloroethane	ND (0.0023)		8260B Low		1	03/26/15 17:05	CYC0308	CC52627
1,1,2-Trichloroethane	ND (0.0059)		8260B Low		1	03/26/15 17:05	CYC0308	CC52627
1,1-Dichloroethane	ND (0.0059)		8260B Low		1	03/26/15 17:05	CYC0308	CC52627
1,1-Dichloroethene	ND (0.0059)		8260B Low		1	03/26/15 17:05	CYC0308	CC52627
1,1-Dichloropropene	ND (0.0059)		8260B Low		1	03/26/15 17:05	CYC0308	CC52627
1,2,3-Trichlorobenzene	ND (0.0059)		8260B Low		1	03/26/15 17:05	CYC0308	CC52627
1,2,3-Trichloropropane	ND (0.0059)		8260B Low		1	03/26/15 17:05	CYC0308	CC52627
1,2,4-Trichlorobenzene	ND (0.0059)		8260B Low		1	03/26/15 17:05	CYC0308	CC52627
1,2,4-Trimethylbenzene	ND (0.0059)		8260B Low		1	03/26/15 17:05	CYC0308	CC52627
1,2-Dibromo-3-Chloropropane	ND (0.0059)		8260B Low		1	03/26/15 17:05	CYC0308	CC52627
1,2-Dibromoethane	ND (0.0059)		8260B Low		1	03/26/15 17:05	CYC0308	CC52627
1,2-Dichlorobenzene	ND (0.0059)		8260B Low		1	03/26/15 17:05	CYC0308	CC52627
1,2-Dichloroethane	ND (0.0059)		8260B Low		1	03/26/15 17:05	CYC0308	CC52627
1,2-Dichloropropane	ND (0.0059)		8260B Low		1	03/26/15 17:05	CYC0308	CC52627
1,3,5-Trimethylbenzene	ND (0.0059)		8260B Low		1	03/26/15 17:05	CYC0308	CC52627
1,3-Dichlorobenzene	ND (0.0059)		8260B Low		1	03/26/15 17:05	CYC0308	CC52627
1,3-Dichloropropane	ND (0.0059)		8260B Low		1	03/26/15 17:05	CYC0308	CC52627
1,4-Dichlorobenzene	ND (0.0059)		8260B Low		1	03/26/15 17:05	CYC0308	CC52627
1,4-Dioxane	ND (0.117)		8260B Low		1	03/26/15 17:05	CYC0308	CC52627
2,2-Dichloropropane	ND (0.0059)		8260B Low		1	03/26/15 17:05	CYC0308	CC52627
2-Butanone	ND (0.0117)		8260B Low		1	03/26/15 17:05	CYC0308	CC52627
2-Chlorotoluene	ND (0.0059)		8260B Low		1	03/26/15 17:05	CYC0308	CC52627
2-Hexanone	ND (0.0117)		8260B Low		1	03/26/15 17:05	CYC0308	CC52627
4-Chlorotoluene	ND (0.0059)		8260B Low		1	03/26/15 17:05	CYC0308	CC52627
4-Isopropyltoluene	ND (0.0059)		8260B Low		1	03/26/15 17:05	CYC0308	CC52627
4-Methyl-2-Pentanone	ND (0.0117)		8260B Low		1	03/26/15 17:05	CYC0308	CC52627
Acetone	ND (0.0117)		8260B Low		1	03/26/15 17:05	CYC0308	CC52627
Benzene	ND (0.0059)		8260B Low		1	03/26/15 17:05	CYC0308	CC52627
Bromobenzene	ND (0.0059)		8260B Low		1	03/26/15 17:05	CYC0308	CC52627
Bromochloromethane	ND (0.0059)		8260B Low		1	03/26/15 17:05	CYC0308	CC52627

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-219 0ft-3ft
Date Sampled: 03/25/15 15:06
Percent Solids: 64
Initial Volume: 6.7
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1503448
ESS Laboratory Sample ID: 1503448-14
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Bromodichloromethane	ND (0.0059)		8260B Low		1	03/26/15 17:05	CYC0308	CC52627
Bromoform	ND (0.0059)		8260B Low		1	03/26/15 17:05	CYC0308	CC52627
Bromomethane	ND (0.0117)		8260B Low		1	03/26/15 17:05	CYC0308	CC52627
Carbon Disulfide	**0.0078** (0.0059)		8260B Low		1	03/26/15 17:05	CYC0308	CC52627
Carbon Tetrachloride	ND (0.0059)		8260B Low		1	03/26/15 17:05	CYC0308	CC52627
Chlorobenzene	ND (0.0059)		8260B Low		1	03/26/15 17:05	CYC0308	CC52627
Chloroethane	ND (0.0117)		8260B Low		1	03/26/15 17:05	CYC0308	CC52627
Chloroform	ND (0.0059)		8260B Low		1	03/26/15 17:05	CYC0308	CC52627
Chloromethane	ND (0.0117)		8260B Low		1	03/26/15 17:05	CYC0308	CC52627
cis-1,2-Dichloroethene	ND (0.0059)		8260B Low		1	03/26/15 17:05	CYC0308	CC52627
cis-1,3-Dichloropropene	ND (0.0059)		8260B Low		1	03/26/15 17:05	CYC0308	CC52627
Dibromochloromethane	ND (0.0023)		8260B Low		1	03/26/15 17:05	CYC0308	CC52627
Dibromomethane	ND (0.0059)		8260B Low		1	03/26/15 17:05	CYC0308	CC52627
Dichlorodifluoromethane	ND (0.0117)		8260B Low		1	03/26/15 17:05	CYC0308	CC52627
Diethyl Ether	ND (0.0059)		8260B Low		1	03/26/15 17:05	CYC0308	CC52627
Di-isopropyl ether	ND (0.0059)		8260B Low		1	03/26/15 17:05	CYC0308	CC52627
Ethyl tertiary-butyl ether	ND (0.0059)		8260B Low		1	03/26/15 17:05	CYC0308	CC52627
Ethylbenzene	ND (0.0059)		8260B Low		1	03/26/15 17:05	CYC0308	CC52627
Hexachlorobutadiene	ND (0.0059)		8260B Low		1	03/26/15 17:05	CYC0308	CC52627
Isopropylbenzene	ND (0.0059)		8260B Low		1	03/26/15 17:05	CYC0308	CC52627
Methyl tert-Butyl Ether	ND (0.0059)		8260B Low		1	03/26/15 17:05	CYC0308	CC52627
Methylene Chloride	ND (0.0117)		8260B Low		1	03/26/15 17:05	CYC0308	CC52627
Naphthalene	ND (0.0059)		8260B Low		1	03/26/15 17:05	CYC0308	CC52627
n-Butylbenzene	ND (0.0059)		8260B Low		1	03/26/15 17:05	CYC0308	CC52627
n-Propylbenzene	ND (0.0059)		8260B Low		1	03/26/15 17:05	CYC0308	CC52627
sec-Butylbenzene	ND (0.0059)		8260B Low		1	03/26/15 17:05	CYC0308	CC52627
Styrene	ND (0.0059)		8260B Low		1	03/26/15 17:05	CYC0308	CC52627
tert-Butylbenzene	ND (0.0059)		8260B Low		1	03/26/15 17:05	CYC0308	CC52627
Tertiary-amyl methyl ether	ND (0.0059)		8260B Low		1	03/26/15 17:05	CYC0308	CC52627
Tetrachloroethene	ND (0.0059)		8260B Low		1	03/26/15 17:05	CYC0308	CC52627
Tetrahydrofuran	ND (0.0059)		8260B Low		1	03/26/15 17:05	CYC0308	CC52627
Toluene	ND (0.0059)		8260B Low		1	03/26/15 17:05	CYC0308	CC52627

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-219 0ft-3ft
Date Sampled: 03/25/15 15:06
Percent Solids: 64
Initial Volume: 6.7
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1503448
ESS Laboratory Sample ID: 1503448-14
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
trans-1,2-Dichloroethene	ND (0.0059)		8260B Low		1	03/26/15 17:05	CYC0308	CC52627
trans-1,3-Dichloropropene	ND (0.0059)		8260B Low		1	03/26/15 17:05	CYC0308	CC52627
Trichloroethene	ND (0.0059)		8260B Low		1	03/26/15 17:05	CYC0308	CC52627
Trichlorofluoromethane	ND (0.0059)		8260B Low		1	03/26/15 17:05	CYC0308	CC52627
Vinyl Chloride	ND (0.0117)		8260B Low		1	03/26/15 17:05	CYC0308	CC52627
Xylene O	ND (0.0059)		8260B Low		1	03/26/15 17:05	CYC0308	CC52627
Xylene P,M	ND (0.0117)		8260B Low		1	03/26/15 17:05	CYC0308	CC52627
Xylenes (Total)	ND (0.0117)		8260B Low		1	03/26/15 17:05		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*93 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*95 %*		*70-130*
Surrogate: Dibromofluoromethane	*88 %*		*70-130*
Surrogate: Toluene-d8	*96 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-219 0ft-3ft
Date Sampled: 03/25/15 15:06
Percent Solids: 64
Initial Volume: 30.1
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503448
ESS Laboratory Sample ID: 1503448-14
Sample Matrix: Soil
Units: mg/kg dry
Analyst: JXS
Prepared: 3/30/15 12:52

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.261)		8270D		1	03/31/15 7:05	CYC0357	CD50205
1,2-Dichlorobenzene	ND (0.261)		8270D		1	03/31/15 7:05	CYC0357	CD50205
1,3-Dichlorobenzene	ND (0.261)		8270D		1	03/31/15 7:05	CYC0357	CD50205
1,4-Dichlorobenzene	ND (0.261)		8270D		1	03/31/15 7:05	CYC0357	CD50205
2,4,5-Trichlorophenol	ND (0.261)		8270D		1	03/31/15 7:05	CYC0357	CD50205
2,4,6-Trichlorophenol	ND (0.261)		8270D		1	03/31/15 7:05	CYC0357	CD50205
2,4-Dichlorophenol	ND (0.261)		8270D		1	03/31/15 7:05	CYC0357	CD50205
2,4-Dimethylphenol	ND (0.261)		8270D		1	03/31/15 7:05	CYC0357	CD50205
2,4-Dinitrophenol	ND (1.31)		8270D		1	03/31/15 7:05	CYC0357	CD50205
2,4-Dinitrotoluene	ND (0.261)		8270D		1	03/31/15 7:05	CYC0357	CD50205
2,6-Dinitrotoluene	ND (0.261)		8270D		1	03/31/15 7:05	CYC0357	CD50205
2-Chloronaphthalene	ND (0.261)		8270D		1	03/31/15 7:05	CYC0357	CD50205
2-Chlorophenol	ND (0.261)		8270D		1	03/31/15 7:05	CYC0357	CD50205
2-Methylphenol	ND (0.261)		8270D		1	03/31/15 7:05	CYC0357	CD50205
2-Nitrophenol	ND (0.261)		8270D		1	03/31/15 7:05	CYC0357	CD50205
3,3´-Dichlorobenzidine	ND (0.522)		8270D		1	03/31/15 7:05	CYC0357	CD50205
3+4-Methylphenol	ND (0.522)		8270D		1	03/31/15 7:05	CYC0357	CD50205
4-Bromophenyl-phenylether	ND (0.261)		8270D		1	03/31/15 7:05	CYC0357	CD50205
4-Chloroaniline	ND (0.522)		8270D		1	03/31/15 7:05	CYC0357	CD50205
4-Nitrophenol	ND (1.31)		8270D		1	03/31/15 7:05	CYC0357	CD50205
Acetophenone	ND (0.522)		8270D		1	03/31/15 7:05	CYC0357	CD50205
Aniline	ND (1.31)		8270D		1	03/31/15 7:05	CYC0357	CD50205
Azobenzene	ND (0.261)		8270D		1	03/31/15 7:05	CYC0357	CD50205
bis(2-Chloroethoxy)methane	ND (0.261)		8270D		1	03/31/15 7:05	CYC0357	CD50205
bis(2-Chloroethyl)ether	ND (0.261)		8270D		1	03/31/15 7:05	CYC0357	CD50205
bis(2-chloroisopropyl)Ether	ND (0.261)		8270D		1	03/31/15 7:05	CYC0357	CD50205
bis(2-Ethylhexyl)phthalate	ND (0.261)		8270D		1	03/31/15 7:05	CYC0357	CD50205
Butylbenzylphthalate	ND (0.261)		8270D		1	03/31/15 7:05	CYC0357	CD50205
Dibenzofuran	ND (0.261)		8270D		1	03/31/15 7:05	CYC0357	CD50205
Diethylphthalate	ND (0.261)		8270D		1	03/31/15 7:05	CYC0357	CD50205
Dimethylphthalate	ND (0.261)		8270D		1	03/31/15 7:05	CYC0357	CD50205
Di-n-butylphthalate	ND (0.261)		8270D		1	03/31/15 7:05	CYC0357	CD50205

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-219 0ft-3ft
Date Sampled: 03/25/15 15:06
Percent Solids: 64
Initial Volume: 30.1
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503448
ESS Laboratory Sample ID: 1503448-14
Sample Matrix: Soil
Units: mg/kg dry
Analyst: JXS
Prepared: 3/30/15 12:52

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Di-n-octylphthalate	ND (0.261)		8270D		1	03/31/15 7:05	CYC0357	CD50205
Hexachlorobenzene	ND (0.261)		8270D		1	03/31/15 7:05	CYC0357	CD50205
Hexachlorobutadiene	ND (0.261)		8270D		1	03/31/15 7:05	CYC0357	CD50205
Hexachloroethane	ND (0.261)		8270D		1	03/31/15 7:05	CYC0357	CD50205
Isophorone	ND (0.261)		8270D		1	03/31/15 7:05	CYC0357	CD50205
Nitrobenzene	ND (0.261)		8270D		1	03/31/15 7:05	CYC0357	CD50205
N-Nitrosodimethylamine	ND (0.261)		8270D		1	03/31/15 7:05	CYC0357	CD50205
Pentachlorophenol	ND (1.31)		8270D		1	03/31/15 7:05	CYC0357	CD50205
Phenol	ND (0.261)		8270D		1	03/31/15 7:05	CYC0357	CD50205

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*47 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*75 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*48 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*60 %*		*30-130*
Surrogate: 2-Fluorophenol	*42 %*		*30-130*
Surrogate: Nitrobenzene-d5	*44 %*		*30-130*
Surrogate: Phenol-d6	*49 %*		*30-130*
Surrogate: p-Terphenyl-d14	*85 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-219 0ft-3ft
Date Sampled: 03/25/15 15:06
Percent Solids: 64

ESS Laboratory Work Order: 1503448
ESS Laboratory Sample ID: 1503448-14
Sample Matrix: Soil

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Corrosivity (pH)	**H 8.04** (N/A)		9045		1	JLK	03/27/15 10:44	S.U.	CC52721
Corrosivity (pH) Sample Temp	**Soil pH measured in water at 15.0 °C.**								
Eh (ORP)	**H, WL 165** (N/A)		2580		1	JLK	03/27/15 10:44	mv	CC52722
Grain Size	**See Attached** (N/A)								
Hexavalent Chromium	ND (0.7)		7196A		1	JLK	03/28/15 11:00	mg/kg dry	CC52807
Percent Water	**See Attached** (N/A)								
Reactive Cyanide	ND (2.0)		7.3.3.2		1	JLK	03/30/15 11:05	mg/kg	CC53003
Reactive Sulfide	ND (2.0)		7.3.4.1		1	JLK	03/30/15 11:05	mg/kg	CC53003

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-219 0ft-3ft
Date Sampled: 03/25/15 15:06
Percent Solids: 64
Initial Volume: 30
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1503448
ESS Laboratory Sample ID: 1503448-14
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 3/27/15 17:04

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (19.6)		MADEP-EPH		1	DPS	03/31/15 7:42	CYC0346	CC52711
C19-C36 Aliphatics1	**29.4** (19.6)		MADEP-EPH		1	DPS	03/31/15 7:42	CYC0346	CC52711
C11-C22 Unadjusted Aromatics1	**25.9** (19.6)		EPH8270		1	VSC	03/31/15 1:59	CYC0347	CC52711
C11-C22 Aromatics1,2	**24.6** (19.6)		EPH8270			VSC	03/31/15 1:59		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*64 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*114 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*113 %*		*40-140*
Surrogate: O-Terphenyl	*72 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-206 0ft-3ft
Date Sampled: 03/25/15 11:10
Percent Solids: 100

ESS Laboratory Work Order: 1503448
ESS Laboratory Sample ID: 1503448-15
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (1.24)		7010		5	KJK	04/02/15 2:10	2.01	100	CC52816
Arsenic	**45.8** (2.49)		6010C		1	KJK	03/30/15 22:14	2.01	100	CC52816
Barium	**60.4** (2.49)		6010C		1	KJK	03/30/15 22:14	2.01	100	CC52816
Beryllium	**0.64** (0.11)		6010C		1	KJK	03/30/15 22:14	2.01	100	CC52816
Cadmium	**1.28** (0.50)		6010C		1	KJK	03/30/15 22:14	2.01	100	CC52816
Chromium	**90.9** (1.00)		6010C		1	KJK	03/30/15 22:14	2.01	100	CC52816
Lead	**251** (4.98)		6010C		1	KJK	03/30/15 22:14	2.01	100	CC52816
Mercury	**1.04** (0.305)		7471B		10	JP	03/30/15 21:22	0.65	40	CC52817
Nickel	**26.9** (2.49)		6010C		1	KJK	03/30/15 22:14	2.01	100	CC52816
Selenium	ND (4.98)		6010C		1	KJK	03/30/15 22:14	2.01	100	CC52816
Silver	**1.58** (0.50)		6010C		1	KJK	03/30/15 22:14	2.01	100	CC52816
Thallium	ND (0.40)		7010		4	JP	04/07/15 0:12	2.01	100	CC52816
Vanadium	**108** (1.00)		6010C		1	KJK	03/30/15 22:14	2.01	100	CC52816
Zinc	**365** (2.49)		6010C		1	KJK	03/30/15 22:14	2.01	100	CC52816

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-205 0ft-0.5ft
Date Sampled: 03/25/15 11:45
Percent Solids: 100

ESS Laboratory Work Order: 1503448
ESS Laboratory Sample ID: 1503448-16
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (1.17)		7010		5	KJK	04/02/15 2:58	2.13	100	CC52816
Arsenic	**25.8** (2.35)		6010C		1	KJK	03/30/15 22:41	2.13	100	CC52816
Barium	**49.5** (2.35)		6010C		1	KJK	03/30/15 22:41	2.13	100	CC52816
Beryllium	**0.47** (0.10)		6010C		1	KJK	03/30/15 22:41	2.13	100	CC52816
Cadmium	**0.64** (0.47)		6010C		1	KJK	03/30/15 22:41	2.13	100	CC52816
Chromium	**59.4** (0.94)		6010C		1	KJK	03/30/15 22:41	2.13	100	CC52816
Lead	**186** (4.69)		6010C		1	KJK	03/30/15 22:41	2.13	100	CC52816
Mercury	**0.259** (0.025)		7471B		1	JP	03/30/15 19:16	0.8	40	CC52817
Nickel	**17.8** (2.35)		6010C		1	KJK	03/30/15 22:41	2.13	100	CC52816
Selenium	ND (4.69)		6010C		1	KJK	03/30/15 22:41	2.13	100	CC52816
Silver	**0.91** (0.47)		6010C		1	KJK	03/30/15 22:41	2.13	100	CC52816
Thallium	ND (0.47)		7010		5	KJK	03/30/15 23:54	2.13	100	CC52816
Vanadium	**58.0** (0.94)		6010C		1	KJK	03/30/15 22:41	2.13	100	CC52816
Zinc	**277** (2.35)		6010C		1	KJK	03/30/15 22:41	2.13	100	CC52816

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-205 4ft-6ft
Date Sampled: 03/25/15 11:45
Percent Solids: 100

ESS Laboratory Work Order: 1503448
ESS Laboratory Sample ID: 1503448-17
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (1.16)		7010		5	KJK	04/02/15 3:04	2.15	100	CC52816
Arsenic	**31.2** (2.33)		6010C		1	KJK	03/30/15 22:46	2.15	100	CC52816
Barium	**75.0** (2.33)		6010C		1	KJK	03/30/15 22:46	2.15	100	CC52816
Beryllium	**0.57** (0.10)		6010C		1	KJK	03/30/15 22:46	2.15	100	CC52816
Cadmium	**1.43** (0.47)		6010C		1	KJK	03/30/15 22:46	2.15	100	CC52816
Chromium	**76.4** (0.93)		6010C		1	KJK	03/30/15 22:46	2.15	100	CC52816
Lead	**192** (4.65)		6010C		1	KJK	03/30/15 22:46	2.15	100	CC52816
Mercury	**0.307** (0.030)		7471B		1	JP	03/30/15 19:17	0.65	40	CC52817
Nickel	**17.4** (2.33)		6010C		1	KJK	03/30/15 22:46	2.15	100	CC52816
Selenium	ND (4.65)		6010C		1	KJK	03/30/15 22:46	2.15	100	CC52816
Silver	**0.76** (0.47)		6010C		1	KJK	03/30/15 22:46	2.15	100	CC52816
Thallium	ND (0.47)		7010		5	KJK	03/31/15 0:00	2.15	100	CC52816
Vanadium	**76.3** (0.93)		6010C		1	KJK	03/30/15 22:46	2.15	100	CC52816
Zinc	**263** (2.33)		6010C		1	KJK	03/30/15 22:46	2.15	100	CC52816

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-205 6ft-8ft
Date Sampled: 03/25/15 11:45
Percent Solids: 100

ESS Laboratory Work Order: 1503448
ESS Laboratory Sample ID: 1503448-18
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (4.02)		6010C		1	KJK	03/30/15 22:52	2.49	100	CC52816
Arsenic	**5.22** (2.01)		6010C		1	KJK	03/30/15 22:52	2.49	100	CC52816
Barium	**17.5** (2.01)		6010C		1	KJK	03/30/15 22:52	2.49	100	CC52816
Beryllium	**0.30** (0.09)		6010C		1	KJK	03/30/15 22:52	2.49	100	CC52816
Cadmium	ND (0.40)		6010C		1	KJK	03/30/15 22:52	2.49	100	CC52816
Chromium	**15.5** (0.80)		6010C		1	KJK	03/30/15 22:52	2.49	100	CC52816
Lead	**6.50** (4.02)		6010C		1	KJK	03/30/15 22:52	2.49	100	CC52816
Mercury	ND (0.027)		7471B		1	JP	03/30/15 19:19	0.73	40	CC52817
Nickel	**9.16** (2.01)		6010C		1	KJK	03/30/15 22:52	2.49	100	CC52816
Selenium	ND (4.02)		6010C		1	KJK	03/30/15 22:52	2.49	100	CC52816
Silver	ND (0.40)		6010C		1	KJK	03/30/15 22:52	2.49	100	CC52816
Thallium	ND (0.40)		7010		5	KJK	03/31/15 0:05	2.49	100	CC52816
Vanadium	**21.8** (0.80)		6010C		1	KJK	03/30/15 22:52	2.49	100	CC52816
Zinc	**27.4** (2.01)		6010C		1	KJK	03/30/15 22:52	2.49	100	CC52816

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-205 0ft-3ft
Date Sampled: 03/25/15 11:45
Percent Solids: 100

ESS Laboratory Work Order: 1503448
ESS Laboratory Sample ID: 1503448-19
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (1.20)		7010		5	KJK	04/02/15 3:21	2.08	100	CC52816
Arsenic	**35.7** (2.40)		6010C		1	KJK	03/30/15 22:56	2.08	100	CC52816
Barium	**44.5** (2.40)		6010C		1	KJK	03/30/15 22:56	2.08	100	CC52816
Beryllium	**0.60** (0.11)		6010C		1	KJK	03/30/15 22:56	2.08	100	CC52816
Cadmium	**1.06** (0.48)		6010C		1	KJK	03/30/15 22:56	2.08	100	CC52816
Chromium	**62.2** (0.96)		6010C		1	KJK	03/30/15 22:56	2.08	100	CC52816
Lead	**142** (4.81)		6010C		1	KJK	03/30/15 22:56	2.08	100	CC52816
Mercury	**0.672** (0.143)		7471B		5	JP	03/30/15 21:34	0.69	40	CC52817
Nickel	**17.9** (2.40)		6010C		1	KJK	03/30/15 22:56	2.08	100	CC52816
Selenium	ND (4.81)		6010C		1	KJK	03/30/15 22:56	2.08	100	CC52816
Silver	ND (0.48)		6010C		1	KJK	03/30/15 22:56	2.08	100	CC52816
Thallium	ND (0.38)		7010		4	JP	04/07/15 0:40	2.08	100	CC52816
Vanadium	**76.3** (0.96)		6010C		1	KJK	03/30/15 22:56	2.08	100	CC52816
Zinc	**240** (2.40)		6010C		1	KJK	03/30/15 22:56	2.08	100	CC52816

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-213 0ft-0.5ft
Date Sampled: 03/25/15 13:52
Percent Solids: 100

ESS Laboratory Work Order: 1503448
ESS Laboratory Sample ID: 1503448-20
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (1.23)		7010		5	KJK	04/02/15 3:27	2.03	100	CC52816
Arsenic	**54.1** (2.46)		6010C		1	KJK	03/30/15 23:14	2.03	100	CC52816
Barium	**33.4** (2.46)		6010C		1	KJK	03/30/15 23:14	2.03	100	CC52816
Beryllium	**0.33** (0.11)		6010C		1	KJK	03/30/15 23:14	2.03	100	CC52816
Cadmium	**0.72** (0.49)		6010C		1	KJK	03/30/15 23:14	2.03	100	CC52816
Chromium	**36.1** (0.99)		6010C		1	KJK	03/30/15 23:14	2.03	100	CC52816
Lead	**190** (4.93)		6010C		1	KJK	03/30/15 23:14	2.03	100	CC52816
Mercury	**0.551** (0.032)		7471B		1	JP	03/30/15 19:22	0.61	40	CC52817
Nickel	**13.0** (2.46)		6010C		1	KJK	03/30/15 23:14	2.03	100	CC52816
Selenium	ND (4.93)		6010C		1	KJK	03/30/15 23:14	2.03	100	CC52816
Silver	**0.71** (0.49)		6010C		1	KJK	03/30/15 23:14	2.03	100	CC52816
Thallium	ND (0.39)		7010		4	JP	04/07/15 0:46	2.03	100	CC52816
Vanadium	**55.1** (0.99)		6010C		1	KJK	03/30/15 23:14	2.03	100	CC52816
Zinc	**325** (2.46)		6010C		1	KJK	03/30/15 23:14	2.03	100	CC52816

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-213 4ft-6ft
Date Sampled: 03/25/15 13:52
Percent Solids: 100

ESS Laboratory Work Order: 1503448
ESS Laboratory Sample ID: 1503448-21
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (4.74)		6010C		1	KJK	03/30/15 23:20	2.11	100	CC52816
Arsenic	**5.95** (2.37)		6010C		1	KJK	03/30/15 23:20	2.11	100	CC52816
Barium	**18.5** (2.37)		6010C		1	KJK	03/30/15 23:20	2.11	100	CC52816
Beryllium	**0.32** (0.10)		6010C		1	KJK	03/30/15 23:20	2.11	100	CC52816
Cadmium	ND (0.47)		6010C		1	KJK	03/30/15 23:20	2.11	100	CC52816
Chromium	**17.1** (0.95)		6010C		1	KJK	03/30/15 23:20	2.11	100	CC52816
Lead	**5.40** (4.74)		6010C		1	KJK	03/30/15 23:20	2.11	100	CC52816
Mercury	ND (0.030)		7471B		1	JP	03/30/15 19:24	0.65	40	CC52817
Nickel	**10.3** (2.37)		6010C		1	KJK	03/30/15 23:20	2.11	100	CC52816
Selenium	ND (4.74)		6010C		1	KJK	03/30/15 23:20	2.11	100	CC52816
Silver	ND (0.47)		6010C		1	KJK	03/30/15 23:20	2.11	100	CC52816
Thallium	ND (0.47)		7010		5	KJK	03/31/15 0:22	2.11	100	CC52816
Vanadium	**24.8** (0.95)		6010C		1	KJK	03/30/15 23:20	2.11	100	CC52816
Zinc	**35.6** (2.37)		6010C		1	KJK	03/30/15 23:20	2.11	100	CC52816

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-213 0ft-3ft
Date Sampled: 03/25/15 13:52
Percent Solids: 100

ESS Laboratory Work Order: 1503448
ESS Laboratory Sample ID: 1503448-22
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (4.41)		6010C		1	KJK	03/30/15 23:24	2.27	100	CC52816
Arsenic	**57.9** (2.20)		6010C		1	KJK	03/30/15 23:24	2.27	100	CC52816
Barium	**25.2** (2.20)		6010C		1	KJK	03/30/15 23:24	2.27	100	CC52816
Beryllium	**0.28** (0.10)		6010C		1	KJK	03/30/15 23:24	2.27	100	CC52816
Cadmium	**2.39** (0.44)		6010C		1	KJK	03/30/15 23:24	2.27	100	CC52816
Chromium	**23.2** (0.88)		6010C		1	KJK	03/30/15 23:24	2.27	100	CC52816
Lead	**282** (4.41)		6010C		1	KJK	03/30/15 23:24	2.27	100	CC52816
Mercury	**0.467** (0.031)		7471B		1	JP	03/30/15 19:29	0.64	40	CC52817
Nickel	**8.91** (2.20)		6010C		1	KJK	03/30/15 23:24	2.27	100	CC52816
Selenium	**6.85** (2.20)		7010		5	JP	03/31/15 13:39	2.27	100	CC52816
Silver	ND (0.44)		6010C		1	KJK	03/30/15 23:24	2.27	100	CC52816
Thallium	ND (0.44)		7010		5	KJK	03/31/15 0:28	2.27	100	CC52816
Vanadium	**22.4** (0.88)		6010C		1	KJK	03/30/15 23:24	2.27	100	CC52816
Zinc	**913** (2.20)		6010C		1	KJK	03/30/15 23:24	2.27	100	CC52816

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-218 0ft-0.5ft
Date Sampled: 03/25/15 14:23
Percent Solids: 100

ESS Laboratory Work Order: 1503448
ESS Laboratory Sample ID: 1503448-23
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (1.13)		7010		5	KJK	04/02/15 3:32	2.22	100	CC52816
Arsenic	**58.2** (2.25)		6010C		1	KJK	03/30/15 23:30	2.22	100	CC52816
Barium	**44.2** (2.25)		6010C		1	KJK	03/30/15 23:30	2.22	100	CC52816
Beryllium	**0.38** (0.10)		6010C		1	KJK	03/30/15 23:30	2.22	100	CC52816
Cadmium	ND (0.45)		6010C		1	KJK	03/30/15 23:30	2.22	100	CC52816
Chromium	**48.2** (0.90)		6010C		1	KJK	03/30/15 23:30	2.22	100	CC52816
Lead	**279** (4.50)		6010C		1	KJK	03/30/15 23:30	2.22	100	CC52816
Mercury	**0.393** (0.028)		7471B		1	JP	03/30/15 19:31	0.71	40	CC52817
Nickel	**16.5** (2.25)		6010C		1	KJK	03/30/15 23:30	2.22	100	CC52816
Selenium	ND (4.50)		6010C		1	KJK	03/30/15 23:30	2.22	100	CC52816
Silver	**0.73** (0.45)		6010C		1	KJK	03/30/15 23:30	2.22	100	CC52816
Thallium	ND (0.45)		7010		5	KJK	03/31/15 0:33	2.22	100	CC52816
Vanadium	**61.0** (0.90)		6010C		1	KJK	03/30/15 23:30	2.22	100	CC52816
Zinc	**270** (2.25)		6010C		1	KJK	03/30/15 23:30	2.22	100	CC52816

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-218 0.5ft-2ft
Date Sampled: 03/25/15 14:23
Percent Solids: 100

ESS Laboratory Work Order: 1503448
ESS Laboratory Sample ID: 1503448-24
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (4.55)		6010C		1	KJK	03/30/15 23:35	2.2	100	CC52816
Arsenic	**183** (2.27)		6010C		1	KJK	03/30/15 23:35	2.2	100	CC52816
Barium	**68.2** (2.27)		6010C		1	KJK	03/30/15 23:35	2.2	100	CC52816
Beryllium	**0.67** (0.10)		6010C		1	KJK	03/30/15 23:35	2.2	100	CC52816
Cadmium	**0.79** (0.45)		6010C		1	KJK	03/30/15 23:35	2.2	100	CC52816
Chromium	**49.6** (0.91)		6010C		1	KJK	03/30/15 23:35	2.2	100	CC52816
Lead	**738** (4.55)		6010C		1	KJK	03/30/15 23:35	2.2	100	CC52816
Mercury	**7.07** (1.62)		7471B		50	JP	03/30/15 21:35	0.61	40	CC52817
Nickel	**18.0** (2.27)		6010C		1	KJK	03/30/15 23:35	2.2	100	CC52816
Selenium	**28.6** (4.55)		6010C		1	KJK	03/30/15 23:35	2.2	100	CC52816
Silver	ND (0.45)		6010C		1	KJK	03/30/15 23:35	2.2	100	CC52816
Thallium	ND (0.45)		7010		5	KJK	03/31/15 0:39	2.2	100	CC52816
Vanadium	**45.0** (0.91)		6010C		1	KJK	03/30/15 23:35	2.2	100	CC52816
Zinc	**410** (2.27)		6010C		1	KJK	03/30/15 23:35	2.2	100	CC52816

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-218 4ft-6ft
Date Sampled: 03/25/15 14:23
Percent Solids: 100

ESS Laboratory Work Order: 1503448
ESS Laboratory Sample ID: 1503448-25
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (4.37)		6010C		1	KJK	03/30/15 23:40	2.29	100	CC52816
Arsenic	**8.14** (2.18)		6010C		1	KJK	03/30/15 23:40	2.29	100	CC52816
Barium	**20.2** (2.18)		6010C		1	KJK	03/30/15 23:40	2.29	100	CC52816
Beryllium	**0.35** (0.10)		6010C		1	KJK	03/30/15 23:40	2.29	100	CC52816
Cadmium	ND (0.44)		6010C		1	KJK	03/30/15 23:40	2.29	100	CC52816
Chromium	**17.2** (0.87)		6010C		1	KJK	03/30/15 23:40	2.29	100	CC52816
Lead	**25.8** (4.37)		6010C		1	KJK	03/30/15 23:40	2.29	100	CC52816
Mercury	**0.074** (0.032)		7471B		1	JP	03/30/15 19:34	0.61	40	CC52817
Nickel	**10.1** (2.18)		6010C		1	KJK	03/30/15 23:40	2.29	100	CC52816
Selenium	ND (4.37)		6010C		1	KJK	03/30/15 23:40	2.29	100	CC52816
Silver	ND (0.44)		6010C		1	KJK	03/30/15 23:40	2.29	100	CC52816
Thallium	ND (0.44)		7010		5	KJK	03/31/15 0:55	2.29	100	CC52816
Vanadium	**23.2** (0.87)		6010C		1	KJK	03/30/15 23:40	2.29	100	CC52816
Zinc	**55.4** (2.18)		6010C		1	KJK	03/30/15 23:40	2.29	100	CC52816

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-219 0ft-0.5ft
Date Sampled: 03/25/15 15:06
Percent Solids: 100

ESS Laboratory Work Order: 1503448
ESS Laboratory Sample ID: 1503448-26
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (1.08)		7010		5	KJK	04/02/15 3:37	2.31	100	CC52816
Arsenic	**71.7** (2.16)		6010C		1	KJK	03/30/15 23:44	2.31	100	CC52816
Barium	**36.8** (2.16)		6010C		1	KJK	03/30/15 23:44	2.31	100	CC52816
Beryllium	**0.33** (0.10)		6010C		1	KJK	03/30/15 23:44	2.31	100	CC52816
Cadmium	ND (0.43)		6010C		1	KJK	03/30/15 23:44	2.31	100	CC52816
Chromium	**38.2** (0.87)		6010C		1	KJK	03/30/15 23:44	2.31	100	CC52816
Lead	**271** (4.33)		6010C		1	KJK	03/30/15 23:44	2.31	100	CC52816
Mercury	**0.572** (0.031)		7471B		1	JP	03/30/15 19:36	0.64	40	CC52817
Nickel	**17.5** (2.16)		6010C		1	KJK	03/30/15 23:44	2.31	100	CC52816
Selenium	ND (4.33)		6010C		1	KJK	03/30/15 23:44	2.31	100	CC52816
Silver	**0.58** (0.43)		6010C		1	KJK	03/30/15 23:44	2.31	100	CC52816
Thallium	ND (0.43)		7010		5	KJK	03/31/15 1:01	2.31	100	CC52816
Vanadium	**50.2** (0.87)		6010C		1	KJK	03/30/15 23:44	2.31	100	CC52816
Zinc	**266** (2.16)		6010C		1	KJK	03/30/15 23:44	2.31	100	CC52816

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-219 4ft-6ft
Date Sampled: 03/25/15 15:06
Percent Solids: 100

ESS Laboratory Work Order: 1503448
ESS Laboratory Sample ID: 1503448-27
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (4.67)		6010C		1	KJK	03/30/15 23:50	2.14	100	CC52816
Arsenic	**3.96** (2.34)		6010C		1	KJK	03/30/15 23:50	2.14	100	CC52816
Barium	**12.2** (2.34)		6010C		1	KJK	03/30/15 23:50	2.14	100	CC52816
Beryllium	**0.22** (0.10)		6010C		1	KJK	03/30/15 23:50	2.14	100	CC52816
Cadmium	ND (0.47)		6010C		1	KJK	03/30/15 23:50	2.14	100	CC52816
Chromium	**11.8** (0.93)		6010C		1	KJK	03/30/15 23:50	2.14	100	CC52816
Lead	ND (4.67)		6010C		1	KJK	03/30/15 23:50	2.14	100	CC52816
Mercury	ND (0.024)		7471B		1	JP	03/30/15 19:37	0.81	40	CC52817
Nickel	**7.45** (2.34)		6010C		1	KJK	03/30/15 23:50	2.14	100	CC52816
Selenium	ND (4.67)		6010C		1	KJK	03/30/15 23:50	2.14	100	CC52816
Silver	ND (0.47)		6010C		1	KJK	03/30/15 23:50	2.14	100	CC52816
Thallium	ND (0.47)		7010		5	KJK	03/31/15 1:06	2.14	100	CC52816
Vanadium	**18.1** (0.93)		6010C		1	KJK	03/30/15 23:50	2.14	100	CC52816
Zinc	**21.3** (2.34)		6010C		1	KJK	03/30/15 23:50	2.14	100	CC52816

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-219 0ft-3ft
Date Sampled: 03/25/15 15:06
Percent Solids: 100

ESS Laboratory Work Order: 1503448
ESS Laboratory Sample ID: 1503448-28
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	**1.32** (1.25)		7010		5	KJK	04/02/15 3:43	2	100	CC52816
Arsenic	**66.3** (2.50)		6010C		1	KJK	03/30/15 23:54	2	100	CC52816
Barium	**52.0** (2.50)		6010C		1	KJK	03/30/15 23:54	2	100	CC52816
Beryllium	**0.47** (0.11)		6010C		1	KJK	03/30/15 23:54	2	100	CC52816
Cadmium	**1.00** (0.50)		6010C		1	KJK	03/30/15 23:54	2	100	CC52816
Chromium	**40.4** (1.00)		6010C		1	KJK	03/30/15 23:54	2	100	CC52816
Lead	**506** (5.00)		6010C		1	KJK	03/30/15 23:54	2	100	CC52816
Mercury	**1.20** (0.330)		7471B		10	JP	03/30/15 21:37	0.6	40	CC52817
Nickel	**13.4** (2.50)		6010C		1	KJK	03/30/15 23:54	2	100	CC52816
Selenium	**15.2** (2.50)		7010		5	KJK	04/02/15 11:53	2	100	CC52816
Silver	ND (0.50)		6010C		1	KJK	03/30/15 23:54	2	100	CC52816
Thallium	ND (0.40)		7010		4	JP	04/07/15 0:51	2	100	CC52816
Vanadium	**33.2** (1.00)		6010C		1	KJK	03/30/15 23:54	2	100	CC52816
Zinc	**481** (2.50)		6010C		1	KJK	03/30/15 23:54	2	100	CC52816

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-206 0ft-3ft
Date Sampled: 03/25/15 11:10
Percent Solids: 87
Initial Volume: 26.1
Final Volume: 2
Extraction Method: 3540C

ESS Laboratory Work Order: 1503448
ESS Laboratory Sample ID: 1503448-29
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 3/30/15 18:30
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.440)		8082A		50	04/01/15 20:35		CC53006
Aroclor 1221	ND (0.440)		8082A		50	04/01/15 20:35		CC53006
Aroclor 1232	ND (0.440)		8082A		50	04/01/15 20:35		CC53006
Aroclor 1242	ND (0.440)		8082A		50	04/01/15 20:35		CC53006
Aroclor 1248	**5.43** (0.440)		8082A		50	04/01/15 20:35		CC53006
Aroclor 1254	**3.09** (0.440)		8082A		50	04/01/15 20:35		CC53006
Aroclor 1260	**0.667** (0.440)		8082A		50	04/01/15 20:35		CC53006
Aroclor 1262	ND (0.440)		8082A		50	04/01/15 20:35		CC53006
Aroclor 1268	ND (0.440)		8082A		50	04/01/15 20:35		CC53006

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	%	SD	30-150
Surrogate: Decachlorobiphenyl [2C]	%	SD	30-150
Surrogate: Tetrachloro-m-xylene	%	SD	30-150
Surrogate: Tetrachloro-m-xylene [2C]	%	SD	30-150

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-205 0ft-0.5ft
Date Sampled: 03/25/15 11:45
Percent Solids: 84
Initial Volume: 25.8
Final Volume: 2
Extraction Method: 3540C

ESS Laboratory Work Order: 1503448
ESS Laboratory Sample ID: 1503448-30
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 3/30/15 18:30
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0092)		8082A		1	03/31/15 22:53		CC53006
Aroclor 1221	ND (0.0092)		8082A		1	03/31/15 22:53		CC53006
Aroclor 1232	ND (0.0092)		8082A		1	03/31/15 22:53		CC53006
Aroclor 1242	ND (0.0092)		8082A		1	03/31/15 22:53		CC53006
Aroclor 1248	**P 0.482** (0.0922)		8082A		10	04/01/15 20:55		CC53006
Aroclor 1254	**0.662** (0.0922)		8082A		10	04/01/15 20:55		CC53006
Aroclor 1260	**P 0.249** (0.0922)		8082A		10	04/01/15 20:55		CC53006
Aroclor 1262	ND (0.0092)		8082A		1	03/31/15 22:53		CC53006
Aroclor 1268	ND (0.0092)		8082A		1	03/31/15 22:53		CC53006

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*126 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*65 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*81 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*75 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-205 0ft-3ft
Date Sampled: 03/25/15 11:45
Percent Solids: 94
Initial Volume: 26
Final Volume: 2
Extraction Method: 3540C

ESS Laboratory Work Order: 1503448
ESS Laboratory Sample ID: 1503448-31
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 3/30/15 18:30
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (2.05)		8082A		250	04/01/15 23:09		CC53006
Aroclor 1221	ND (2.05)		8082A		250	04/01/15 23:09		CC53006
Aroclor 1232	ND (2.05)		8082A		250	04/01/15 23:09		CC53006
Aroclor 1242	ND (2.05)		8082A		250	04/01/15 23:09		CC53006
Aroclor 1248	**21.5** (2.05)		8082A		250	04/01/15 23:09		CC53006
Aroclor 1254	ND (2.05)		8082A		250	04/01/15 23:09		CC53006
Aroclor 1260	ND (2.05)		8082A		250	04/01/15 23:09		CC53006
Aroclor 1262	ND (2.05)		8082A		250	04/01/15 23:09		CC53006
Aroclor 1268	ND (2.05)		8082A		250	04/01/15 23:09		CC53006

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	%	SD	30-150
Surrogate: Decachlorobiphenyl [2C]	%	SD	30-150
Surrogate: Tetrachloro-m-xylene	%	SD	30-150
Surrogate: Tetrachloro-m-xylene [2C]	%	SD	30-150

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-213 0ft-0.5ft
Date Sampled: 03/25/15 13:52
Percent Solids: 98
Initial Volume: 27.4
Final Volume: 2
Extraction Method: 3540C

ESS Laboratory Work Order: 1503448
ESS Laboratory Sample ID: 1503448-32
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 3/30/15 18:30
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0075)		8082A		1	03/31/15 17:55		CC53007
Aroclor 1221	ND (0.0075)		8082A		1	03/31/15 17:55		CC53007
Aroclor 1232	ND (0.0075)		8082A		1	03/31/15 17:55		CC53007
Aroclor 1242	ND (0.0075)		8082A		1	03/31/15 17:55		CC53007
Aroclor 1248	**P 0.479** (0.0374)		8082A		5	04/01/15 23:28		CC53007
Aroclor 1254	**0.594** (0.0374)		8082A		5	04/01/15 23:28		CC53007
Aroclor 1260	**0.138** (0.0075)		8082A		1	03/31/15 17:55		CC53007
Aroclor 1262	ND (0.0075)		8082A		1	03/31/15 17:55		CC53007
Aroclor 1268	ND (0.0075)		8082A		1	03/31/15 17:55		CC53007

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*81 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*132 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*70 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*49 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-213 0ft-3ft
Date Sampled: 03/25/15 13:52
Percent Solids: 98
Initial Volume: 26.9
Final Volume: 2
Extraction Method: 3540C

ESS Laboratory Work Order: 1503448
ESS Laboratory Sample ID: 1503448-33
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 3/30/15 18:30
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0076)		8082A		1	03/31/15 18:15		CC53007
Aroclor 1221	ND (0.0076)		8082A		1	03/31/15 18:15		CC53007
Aroclor 1232	ND (0.0076)		8082A		1	03/31/15 18:15		CC53007
Aroclor 1242	ND (0.0076)		8082A		1	03/31/15 18:15		CC53007
Aroclor 1248	**0.0307** (0.0076)		8082A		1	03/31/15 18:15		CC53007
Aroclor 1254	**0.0247** (0.0076)		8082A		1	03/31/15 18:15		CC53007
Aroclor 1260	ND (0.0076)		8082A		1	03/31/15 18:15		CC53007
Aroclor 1262	ND (0.0076)		8082A		1	03/31/15 18:15		CC53007
Aroclor 1268	ND (0.0076)		8082A		1	03/31/15 18:15		CC53007

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*72 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*62 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*68 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*54 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-218 0ft-0.5ft
Date Sampled: 03/25/15 14:23
Percent Solids: 93
Initial Volume: 26.7
Final Volume: 2
Extraction Method: 3540C

ESS Laboratory Work Order: 1503448
ESS Laboratory Sample ID: 1503448-34
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 3/30/15 18:30
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0080)		8082A		1	03/31/15 18:34		CC53007
Aroclor 1221	ND (0.0080)		8082A		1	03/31/15 18:34		CC53007
Aroclor 1232	ND (0.0080)		8082A		1	03/31/15 18:34		CC53007
Aroclor 1242	ND (0.0080)		8082A		1	03/31/15 18:34		CC53007
Aroclor 1248	**LC, P 0.136** (0.0402)		8082A		5	04/01/15 23:47		CC53007
Aroclor 1254	**0.424** (0.0402)		8082A		5	04/01/15 23:47		CC53007
Aroclor 1260	**0.140** (0.0080)		8082A		1	03/31/15 18:34		CC53007
Aroclor 1262	ND (0.0080)		8082A		1	03/31/15 18:34		CC53007
Aroclor 1268	ND (0.0080)		8082A		1	03/31/15 18:34		CC53007

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*71 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*86 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*57 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*39 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-218 0.5ft-2ft
Date Sampled: 03/25/15 14:23
Percent Solids: 97
Initial Volume: 26.6
Final Volume: 2
Extraction Method: 3540C

ESS Laboratory Work Order: 1503448
ESS Laboratory Sample ID: 1503448-35
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 3/30/15 18:30
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0078)		8082A		1	03/31/15 20:47		CC53007
Aroclor 1221	ND (0.0078)		8082A		1	03/31/15 20:47		CC53007
Aroclor 1232	ND (0.0078)		8082A		1	03/31/15 20:47		CC53007
Aroclor 1242	ND (0.0078)		8082A		1	03/31/15 20:47		CC53007
Aroclor 1248	ND (0.0078)		8082A		1	03/31/15 20:47		CC53007
Aroclor 1254	ND (0.0078)		8082A		1	03/31/15 20:47		CC53007
Aroclor 1260	ND (0.0078)		8082A		1	03/31/15 20:47		CC53007
Aroclor 1262	ND (0.0078)		8082A		1	03/31/15 20:47		CC53007
Aroclor 1268	ND (0.0078)		8082A		1	03/31/15 20:47		CC53007

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*46 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*42 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*42 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*31 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-219 0ft-0.5ft
Date Sampled: 03/25/15 15:06
Percent Solids: 98
Initial Volume: 26.9
Final Volume: 2
Extraction Method: 3540C

ESS Laboratory Work Order: 1503448
ESS Laboratory Sample ID: 1503448-36
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 3/30/15 18:30
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0076)		8082A		1	03/31/15 21:07		CC53007
Aroclor 1221	ND (0.0076)		8082A		1	03/31/15 21:07		CC53007
Aroclor 1232	ND (0.0076)		8082A		1	03/31/15 21:07		CC53007
Aroclor 1242	ND (0.0076)		8082A		1	03/31/15 21:07		CC53007
Aroclor 1248	**P 0.112** (0.0076)		8082A		1	03/31/15 21:07		CC53007
Aroclor 1254	**0.287** (0.0380)		8082A		5	04/02/15 0:06		CC53007
Aroclor 1260	**0.0935** (0.0076)		8082A		1	03/31/15 21:07		CC53007
Aroclor 1262	ND (0.0076)		8082A		1	03/31/15 21:07		CC53007
Aroclor 1268	ND (0.0076)		8082A		1	03/31/15 21:07		CC53007

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*76 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*85 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*61 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*43 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-219 0ft-3ft
Date Sampled: 03/25/15 15:06
Percent Solids: 97
Initial Volume: 25.2
Final Volume: 2
Extraction Method: 3540C

ESS Laboratory Work Order: 1503448
ESS Laboratory Sample ID: 1503448-37
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 3/30/15 18:30
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0081)		8082A		1	03/31/15 21:26		CC53007
Aroclor 1221	ND (0.0081)		8082A		1	03/31/15 21:26		CC53007
Aroclor 1232	ND (0.0081)		8082A		1	03/31/15 21:26		CC53007
Aroclor 1242	ND (0.0081)		8082A		1	03/31/15 21:26		CC53007
Aroclor 1248	ND (0.0081)		8082A		1	03/31/15 21:26		CC53007
Aroclor 1254	ND (0.0081)		8082A		1	03/31/15 21:26		CC53007
Aroclor 1260	ND (0.0081)		8082A		1	03/31/15 21:26		CC53007
Aroclor 1262	ND (0.0081)		8082A		1	03/31/15 21:26		CC53007
Aroclor 1268	ND (0.0081)		8082A		1	03/31/15 21:26		CC53007

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*53 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*53 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*49 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*38 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503448

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Total Metals										
Batch CC52816 - 3050B										
Blank										
Antimony	ND	5.00	mg/kg wet							
Antimony	ND	0.25	mg/kg wet							
Arsenic	ND	2.50	mg/kg wet							
Barium	ND	2.50	mg/kg wet							
Beryllium	ND	0.11	mg/kg wet							
Cadmium	ND	0.50	mg/kg wet							
Chromium	ND	1.00	mg/kg wet							
Lead	ND	5.00	mg/kg wet							
Nickel	ND	2.50	mg/kg wet							
Selenium	ND	5.00	mg/kg wet							
Selenium	ND	0.50	mg/kg wet							
Silver	ND	0.50	mg/kg wet							
Thallium	ND	0.10	mg/kg wet							
Vanadium	ND	1.00	mg/kg wet							
Zinc	ND	2.50	mg/kg wet							
LCS										
Antimony	70.3	8.62	mg/kg wet	49.70		141	24-282			
Antimony	66.5	17.2	mg/kg wet	49.70		134	80-120			B+
Arsenic	131	8.62	mg/kg wet	133.0		98	80-120			
Barium	218	8.62	mg/kg wet	229.0		95	80-120			
Beryllium	94.9	0.38	mg/kg wet	95.80		99	80-120			
Cadmium	111	1.72	mg/kg wet	123.0		91	80-120			
Chromium	58.4	3.45	mg/kg wet	63.20		92	80-120			
Lead	104	17.2	mg/kg wet	108.0		96	80-120			
Nickel	276	8.62	mg/kg wet	285.0		97	80-120			
Selenium	71.2	17.2	mg/kg wet	81.40		87	80-120			
Selenium	74.7	17.2	mg/kg wet	81.40		92	80-120			
Silver	75.5	1.72	mg/kg wet	74.80		101	80-120			
Thallium	38.3	3.45	mg/kg wet	50.10		77	63-137			
Vanadium	145	3.45	mg/kg wet	148.0		98	80-120			
Zinc	249	8.62	mg/kg wet	203.0		123	80-120			
LCS Dup										
Antimony	59.4	19.2	mg/kg wet	49.70		120	80-120	11	20	
Antimony	68.5	9.62	mg/kg wet	49.70		138	24-282	3	20	
Arsenic	122	9.62	mg/kg wet	133.0		92	80-120	7	20	
Barium	199	9.62	mg/kg wet	229.0		87	80-120	9	20	
Beryllium	88.6	0.42	mg/kg wet	95.80		92	80-120	7	20	
Cadmium	105	1.92	mg/kg wet	123.0		85	80-120	6	20	
Chromium	54.1	3.85	mg/kg wet	63.20		86	80-120	8	20	
Lead	98.2	19.2	mg/kg wet	108.0		91	80-120	6	20	
Nickel	255	9.62	mg/kg wet	285.0		90	80-120	8	20	
Selenium	82.9	19.2	mg/kg wet	81.40		102	80-120	15	20	
Selenium	69.9	19.2	mg/kg wet	81.40		86	80-120	7	20	
Silver	73.2	1.92	mg/kg wet	74.80		98	80-120	3	20	

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503448

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Total Metals										
Batch CC52816 - 3050B										
Thallium	43.1	3.85	mg/kg wet	50.10		86	63-137	12	20	
Vanadium	141	3.85	mg/kg wet	148.0		95	80-120	3	20	
Zinc	180	9.62	mg/kg wet	203.0		89	80-120	32	20	D+
Batch CC52817 - 7471A										
Blank										
Mercury	ND	0.033	mg/kg wet							
LCS										
Mercury	30.6	3.30	mg/kg wet	24.90		123	51-149			
LCS Dup										
Mercury	29.0	3.74	mg/kg wet	24.90		116	51-149	5	20	
5035/8260B Volatile Organic Compounds / Low Level										
Batch CC52627 - 5035										
Blank										
1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet							
1,1,1-Trichloroethane	ND	0.0050	mg/kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0020	mg/kg wet							
1,1,2-Trichloroethane	ND	0.0050	mg/kg wet							
1,1-Dichloroethane	ND	0.0050	mg/kg wet							
1,1-Dichloroethene	ND	0.0050	mg/kg wet							
1,1-Dichloropropene	ND	0.0050	mg/kg wet							
1,2,3-Trichlorobenzene	ND	0.0050	mg/kg wet							
1,2,3-Trichloropropane	ND	0.0050	mg/kg wet							
1,2,4-Trichlorobenzene	ND	0.0050	mg/kg wet							
1,2,4-Trimethylbenzene	ND	0.0050	mg/kg wet							
1,2-Dibromo-3-Chloropropane	ND	0.0050	mg/kg wet							
1,2-Dibromoethane	ND	0.0050	mg/kg wet							
1,2-Dichlorobenzene	ND	0.0050	mg/kg wet							
1,2-Dichloroethane	ND	0.0050	mg/kg wet							
1,2-Dichloropropane	ND	0.0050	mg/kg wet							
1,3,5-Trimethylbenzene	ND	0.0050	mg/kg wet							
1,3-Dichlorobenzene	ND	0.0050	mg/kg wet							
1,3-Dichloropropane	ND	0.0050	mg/kg wet							
1,4-Dichlorobenzene	ND	0.0050	mg/kg wet							
1,4-Dioxane	ND	0.100	mg/kg wet							
2,2-Dichloropropane	ND	0.0050	mg/kg wet							
2-Butanone	ND	0.0100	mg/kg wet							
2-Chlorotoluene	ND	0.0050	mg/kg wet							
2-Hexanone	ND	0.0100	mg/kg wet							
4-Chlorotoluene	ND	0.0050	mg/kg wet							
4-Isopropyltoluene	ND	0.0050	mg/kg wet							
4-Methyl-2-Pentanone	ND	0.0100	mg/kg wet							
Acetone	ND	0.0100	mg/kg wet							
Benzene	ND	0.0050	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503448

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch CC52627 - 5035										
Bromobenzene	ND	0.0050	mg/kg wet							
Bromochloromethane	ND	0.0050	mg/kg wet							
Bromodichloromethane	ND	0.0050	mg/kg wet							
Bromoform	ND	0.0050	mg/kg wet							
Bromomethane	ND	0.0100	mg/kg wet							
Carbon Disulfide	ND	0.0050	mg/kg wet							
Carbon Tetrachloride	ND	0.0050	mg/kg wet							
Chlorobenzene	ND	0.0050	mg/kg wet							
Chloroethane	ND	0.0100	mg/kg wet							
Chloroform	ND	0.0050	mg/kg wet							
Chloromethane	ND	0.0100	mg/kg wet							
cis-1,2-Dichloroethene	ND	0.0050	mg/kg wet							
cis-1,3-Dichloropropene	ND	0.0050	mg/kg wet							
Dibromochloromethane	ND	0.0020	mg/kg wet							
Dibromomethane	ND	0.0050	mg/kg wet							
Dichlorodifluoromethane	ND	0.0100	mg/kg wet							
Diethyl Ether	ND	0.0050	mg/kg wet							
Di-isopropyl ether	ND	0.0050	mg/kg wet							
Ethyl tertiary-butyl ether	ND	0.0050	mg/kg wet							
Ethylbenzene	ND	0.0050	mg/kg wet							
Hexachlorobutadiene	ND	0.0050	mg/kg wet							
Isopropylbenzene	ND	0.0050	mg/kg wet							
Methyl tert-Butyl Ether	ND	0.0050	mg/kg wet							
Methylene Chloride	ND	0.0100	mg/kg wet							
Naphthalene	ND	0.0050	mg/kg wet							
n-Butylbenzene	ND	0.0050	mg/kg wet							
n-Propylbenzene	ND	0.0050	mg/kg wet							
sec-Butylbenzene	ND	0.0050	mg/kg wet							
Styrene	ND	0.0050	mg/kg wet							
tert-Butylbenzene	ND	0.0050	mg/kg wet							
Tertiary-amyl methyl ether	ND	0.0050	mg/kg wet							
Tetrachloroethene	ND	0.0050	mg/kg wet							
Tetrahydrofuran	ND	0.0050	mg/kg wet							
Toluene	ND	0.0050	mg/kg wet							
trans-1,2-Dichloroethene	ND	0.0050	mg/kg wet							
trans-1,3-Dichloropropene	ND	0.0050	mg/kg wet							
Trichloroethene	ND	0.0050	mg/kg wet							
Trichlorofluoromethane	ND	0.0050	mg/kg wet							
Vinyl Chloride	ND	0.0100	mg/kg wet							
Xylene O	ND	0.0050	mg/kg wet							
Xylene P,M	ND	0.0100	mg/kg wet							
Surrogate: 1,2-Dichloroethane-d4	*0.0484*		mg/kg wet	*0.05000*		*97*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.0461*		mg/kg wet	*0.05000*		*92*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0447*		mg/kg wet	*0.05000*		*89*	*70-130*			
Surrogate: Toluene-d8	*0.0466*		mg/kg wet	*0.05000*		*93*	*70-130*			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503448

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch CC52627 - 5035										
LCS										
1,1,1,2-Tetrachloroethane	0.0567	0.0050	mg/kg wet	0.05000		113	70-130			
1,1,1-Trichloroethane	0.0535	0.0050	mg/kg wet	0.05000		107	70-130			
1,1,2,2-Tetrachloroethane	0.0496	0.0020	mg/kg wet	0.05000		99	70-130			
1,1,2-Trichloroethane	0.0477	0.0050	mg/kg wet	0.05000		95	70-130			
1,1-Dichloroethane	0.0470	0.0050	mg/kg wet	0.05000		94	70-130			
1,1-Dichloroethene	0.0459	0.0050	mg/kg wet	0.05000		92	70-130			
1,1-Dichloropropene	0.0460	0.0050	mg/kg wet	0.05000		92	70-130			
1,2,3-Trichlorobenzene	0.0533	0.0050	mg/kg wet	0.05000		107	70-130			
1,2,3-Trichloropropane	0.0539	0.0050	mg/kg wet	0.05000		108	70-130			
1,2,4-Trichlorobenzene	0.0518	0.0050	mg/kg wet	0.05000		104	70-130			
1,2,4-Trimethylbenzene	0.0496	0.0050	mg/kg wet	0.05000		99	70-130			
1,2-Dibromo-3-Chloropropane	0.0544	0.0050	mg/kg wet	0.05000		109	70-130			
1,2-Dibromoethane	0.0528	0.0050	mg/kg wet	0.05000		106	70-130			
1,2-Dichlorobenzene	0.0503	0.0050	mg/kg wet	0.05000		101	70-130			
1,2-Dichloroethane	0.0494	0.0050	mg/kg wet	0.05000		99	70-130			
1,2-Dichloropropane	0.0456	0.0050	mg/kg wet	0.05000		91	70-130			
1,3,5-Trimethylbenzene	0.0518	0.0050	mg/kg wet	0.05000		104	70-130			
1,3-Dichlorobenzene	0.0502	0.0050	mg/kg wet	0.05000		100	70-130			
1,3-Dichloropropane	0.0535	0.0050	mg/kg wet	0.05000		107	70-130			
1,4-Dichlorobenzene	0.0512	0.0050	mg/kg wet	0.05000		102	70-130			
1,4-Dioxane	0.890	0.100	mg/kg wet	1.000		89	70-130			
2,2-Dichloropropane	0.0549	0.0050	mg/kg wet	0.05000		110	70-130			
2-Butanone	0.239	0.0100	mg/kg wet	0.2500		95	70-130			
2-Chlorotoluene	0.0501	0.0050	mg/kg wet	0.05000		100	70-130			
2-Hexanone	0.279	0.0100	mg/kg wet	0.2500		112	70-130			
4-Chlorotoluene	0.0505	0.0050	mg/kg wet	0.05000		101	70-130			
4-Isopropyltoluene	0.0502	0.0050	mg/kg wet	0.05000		100	70-130			
4-Methyl-2-Pentanone	0.246	0.0100	mg/kg wet	0.2500		98	70-130			
Acetone	0.277	0.0100	mg/kg wet	0.2500		111	70-130			
Benzene	0.0473	0.0050	mg/kg wet	0.05000		95	70-130			
Bromobenzene	0.0515	0.0050	mg/kg wet	0.05000		103	70-130			
Bromochloromethane	0.0493	0.0050	mg/kg wet	0.05000		99	70-130			
Bromodichloromethane	0.0522	0.0050	mg/kg wet	0.05000		104	70-130			
Bromoform	0.0548	0.0050	mg/kg wet	0.05000		110	70-130			
Bromomethane	0.0927	0.0100	mg/kg wet	0.05000		185	70-130			B+
Carbon Disulfide	0.0510	0.0050	mg/kg wet	0.05000		102	70-130			
Carbon Tetrachloride	0.0572	0.0050	mg/kg wet	0.05000		114	70-130			
Chlorobenzene	0.0505	0.0050	mg/kg wet	0.05000		101	70-130			
Chloroethane	0.0441	0.0100	mg/kg wet	0.05000		88	70-130			
Chloroform	0.0502	0.0050	mg/kg wet	0.05000		100	70-130			
Chloromethane	0.0556	0.0100	mg/kg wet	0.05000		111	70-130			
cis-1,2-Dichloroethene	0.0483	0.0050	mg/kg wet	0.05000		97	70-130			
cis-1,3-Dichloropropene	0.0553	0.0050	mg/kg wet	0.05000		111	70-130			
Dibromochloromethane	0.0535	0.0020	mg/kg wet	0.05000		107	70-130			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503448

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch CC52627 - 5035										
Dibromomethane	0.0492	0.0050	mg/kg wet	0.05000		98	70-130			
Dichlorodifluoromethane	0.0525	0.0100	mg/kg wet	0.05000		105	70-130			
Diethyl Ether	0.0481	0.0050	mg/kg wet	0.05000		96	70-130			
Di-isopropyl ether	0.0461	0.0050	mg/kg wet	0.05000		92	70-130			
Ethyl tertiary-butyl ether	0.0441	0.0050	mg/kg wet	0.05000		88	70-130			
Ethylbenzene	0.0505	0.0050	mg/kg wet	0.05000		101	70-130			
Hexachlorobutadiene	0.0592	0.0050	mg/kg wet	0.05000		118	70-130			
Isopropylbenzene	0.0501	0.0050	mg/kg wet	0.05000		100	70-130			
Methyl tert-Butyl Ether	0.0480	0.0050	mg/kg wet	0.05000		96	70-130			
Methylene Chloride	0.0470	0.0100	mg/kg wet	0.05000		94	70-130			
Naphthalene	0.0460	0.0050	mg/kg wet	0.05000		92	70-130			
n-Butylbenzene	0.0503	0.0050	mg/kg wet	0.05000		101	70-130			
n-Propylbenzene	0.0491	0.0050	mg/kg wet	0.05000		98	70-130			
sec-Butylbenzene	0.0500	0.0050	mg/kg wet	0.05000		100	70-130			
Styrene	0.0520	0.0050	mg/kg wet	0.05000		104	70-130			
tert-Butylbenzene	0.0503	0.0050	mg/kg wet	0.05000		101	70-130			
Tertiary-amyl methyl ether	0.0465	0.0050	mg/kg wet	0.05000		93	70-130			
Tetrachloroethene	0.0524	0.0050	mg/kg wet	0.05000		105	70-130			
Tetrahydrofuran	0.0429	0.0050	mg/kg wet	0.05000		86	70-130			
Toluene	0.0474	0.0050	mg/kg wet	0.05000		95	70-130			
trans-1,2-Dichloroethene	0.0439	0.0050	mg/kg wet	0.05000		88	70-130			
trans-1,3-Dichloropropene	0.0548	0.0050	mg/kg wet	0.05000		110	70-130			
Trichloroethene	0.0486	0.0050	mg/kg wet	0.05000		97	70-130			
Trichlorofluoromethane	0.0468	0.0050	mg/kg wet	0.05000		94	70-130			
Vinyl Chloride	0.0512	0.0100	mg/kg wet	0.05000		102	70-130			
Xylene O	0.0505	0.0050	mg/kg wet	0.05000		101	70-130			
Xylene P,M	0.102	0.0100	mg/kg wet	0.1000		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0475*		mg/kg wet	*0.05000*		*95*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.0472*		mg/kg wet	*0.05000*		*94*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0458*		mg/kg wet	*0.05000*		*92*	*70-130*			
Surrogate: Toluene-d8	*0.0481*		mg/kg wet	*0.05000*		*96*	*70-130*			
LCS Dup										
1,1,1,2-Tetrachloroethane	0.0522	0.0050	mg/kg wet	0.05000		104	70-130	8	25	
1,1,1-Trichloroethane	0.0485	0.0050	mg/kg wet	0.05000		97	70-130	10	25	
1,1,2,2-Tetrachloroethane	0.0449	0.0020	mg/kg wet	0.05000		90	70-130	10	25	
1,1,2-Trichloroethane	0.0436	0.0050	mg/kg wet	0.05000		87	70-130	9	25	
1,1-Dichloroethane	0.0423	0.0050	mg/kg wet	0.05000		85	70-130	11	25	
1,1-Dichloroethene	0.0412	0.0050	mg/kg wet	0.05000		82	70-130	11	25	
1,1-Dichloropropene	0.0414	0.0050	mg/kg wet	0.05000		83	70-130	10	25	
1,2,3-Trichlorobenzene	0.0479	0.0050	mg/kg wet	0.05000		96	70-130	11	25	
1,2,3-Trichloropropane	0.0478	0.0050	mg/kg wet	0.05000		96	70-130	12	25	
1,2,4-Trichlorobenzene	0.0468	0.0050	mg/kg wet	0.05000		94	70-130	10	25	
1,2,4-Trimethylbenzene	0.0443	0.0050	mg/kg wet	0.05000		89	70-130	11	25	
1,2-Dibromo-3-Chloropropane	0.0473	0.0050	mg/kg wet	0.05000		95	70-130	14	25	
1,2-Dibromoethane	0.0485	0.0050	mg/kg wet	0.05000		97	70-130	9	25	

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503448

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch CC52627 - 5035										
1,2-Dichlorobenzene	0.0447	0.0050	mg/kg wet	0.05000		89	70-130	12	25	
1,2-Dichloroethane	0.0451	0.0050	mg/kg wet	0.05000		90	70-130	9	25	
1,2-Dichloropropane	0.0411	0.0050	mg/kg wet	0.05000		82	70-130	11	25	
1,3,5-Trimethylbenzene	0.0463	0.0050	mg/kg wet	0.05000		93	70-130	11	25	
1,3-Dichlorobenzene	0.0449	0.0050	mg/kg wet	0.05000		90	70-130	11	25	
1,3-Dichloropropane	0.0495	0.0050	mg/kg wet	0.05000		99	70-130	8	25	
1,4-Dichlorobenzene	0.0452	0.0050	mg/kg wet	0.05000		90	70-130	12	25	
1,4-Dioxane	0.856	0.100	mg/kg wet	1.000		86	70-130	4	20	
2,2-Dichloropropane	0.0489	0.0050	mg/kg wet	0.05000		98	70-130	11	25	
2-Butanone	0.218	0.0100	mg/kg wet	0.2500		87	70-130	9	25	
2-Chlorotoluene	0.0449	0.0050	mg/kg wet	0.05000		90	70-130	11	25	
2-Hexanone	0.254	0.0100	mg/kg wet	0.2500		101	70-130	10	25	
4-Chlorotoluene	0.0452	0.0050	mg/kg wet	0.05000		90	70-130	11	25	
4-Isopropyltoluene	0.0444	0.0050	mg/kg wet	0.05000		89	70-130	12	25	
4-Methyl-2-Pentanone	0.221	0.0100	mg/kg wet	0.2500		88	70-130	11	25	
Acetone	0.250	0.0100	mg/kg wet	0.2500		100	70-130	10	25	
Benzene	0.0426	0.0050	mg/kg wet	0.05000		85	70-130	10	25	
Bromobenzene	0.0456	0.0050	mg/kg wet	0.05000		91	70-130	12	25	
Bromochloromethane	0.0451	0.0050	mg/kg wet	0.05000		90	70-130	9	25	
Bromodichloromethane	0.0472	0.0050	mg/kg wet	0.05000		94	70-130	10	25	
Bromoform	0.0498	0.0050	mg/kg wet	0.05000		100	70-130	10	25	
Bromomethane	0.0760	0.0100	mg/kg wet	0.05000		152	70-130	20	25	B+
Carbon Disulfide	0.0460	0.0050	mg/kg wet	0.05000		92	70-130	10	25	
Carbon Tetrachloride	0.0511	0.0050	mg/kg wet	0.05000		102	70-130	11	25	
Chlorobenzene	0.0468	0.0050	mg/kg wet	0.05000		94	70-130	8	25	
Chloroethane	0.0394	0.0100	mg/kg wet	0.05000		79	70-130	11	25	
Chloroform	0.0450	0.0050	mg/kg wet	0.05000		90	70-130	11	25	
Chloromethane	0.0499	0.0100	mg/kg wet	0.05000		100	70-130	11	25	
cis-1,2-Dichloroethene	0.0444	0.0050	mg/kg wet	0.05000		89	70-130	8	25	
cis-1,3-Dichloropropene	0.0498	0.0050	mg/kg wet	0.05000		100	70-130	11	25	
Dibromochloromethane	0.0484	0.0020	mg/kg wet	0.05000		97	70-130	10	25	
Dibromomethane	0.0452	0.0050	mg/kg wet	0.05000		90	70-130	8	25	
Dichlorodifluoromethane	0.0470	0.0100	mg/kg wet	0.05000		94	70-130	11	25	
Diethyl Ether	0.0435	0.0050	mg/kg wet	0.05000		87	70-130	10	25	
Di-isopropyl ether	0.0417	0.0050	mg/kg wet	0.05000		83	70-130	10	25	
Ethyl tertiary-butyl ether	0.0373	0.0050	mg/kg wet	0.05000		75	70-130	17	25	
Ethylbenzene	0.0468	0.0050	mg/kg wet	0.05000		94	70-130	8	25	
Hexachlorobutadiene	0.0523	0.0050	mg/kg wet	0.05000		105	70-130	12	25	
Isopropylbenzene	0.0449	0.0050	mg/kg wet	0.05000		90	70-130	11	25	
Methyl tert-Butyl Ether	0.0416	0.0050	mg/kg wet	0.05000		83	70-130	14	25	
Methylene Chloride	0.0408	0.0100	mg/kg wet	0.05000		82	70-130	14	25	
Naphthalene	0.0419	0.0050	mg/kg wet	0.05000		84	70-130	9	25	
n-Butylbenzene	0.0453	0.0050	mg/kg wet	0.05000		91	70-130	11	25	
n-Propylbenzene	0.0439	0.0050	mg/kg wet	0.05000		88	70-130	11	25	
sec-Butylbenzene	0.0447	0.0050	mg/kg wet	0.05000		89	70-130	11	25	

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503448

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch CC52627 - 5035										
Styrene	0.0472	0.0050	mg/kg wet	0.05000		94	70-130	10	25	
tert-Butylbenzene	0.0451	0.0050	mg/kg wet	0.05000		90	70-130	11	25	
Tertiary-amyl methyl ether	0.0396	0.0050	mg/kg wet	0.05000		79	70-130	16	25	
Tetrachloroethene	0.0481	0.0050	mg/kg wet	0.05000		96	70-130	8	25	
Tetrahydrofuran	0.0412	0.0050	mg/kg wet	0.05000		82	70-130	4	25	
Toluene	0.0426	0.0050	mg/kg wet	0.05000		85	70-130	11	25	
trans-1,2-Dichloroethene	0.0398	0.0050	mg/kg wet	0.05000		80	70-130	10	25	
trans-1,3-Dichloropropene	0.0491	0.0050	mg/kg wet	0.05000		98	70-130	11	25	
Trichloroethene	0.0438	0.0050	mg/kg wet	0.05000		88	70-130	10	25	
Trichlorofluoromethane	0.0416	0.0050	mg/kg wet	0.05000		83	70-130	12	25	
Vinyl Chloride	0.0449	0.0100	mg/kg wet	0.05000		90	70-130	13	25	
Xylene O	0.0465	0.0050	mg/kg wet	0.05000		93	70-130	8	25	
Xylene P,M	0.0939	0.0100	mg/kg wet	0.1000		94	70-130	8	25	
Surrogate: 1,2-Dichloroethane-d4	*0.0476*		mg/kg wet	*0.05000*		*95*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.0484*		mg/kg wet	*0.05000*		*97*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0455*		mg/kg wet	*0.05000*		*91*	*70-130*			
Surrogate: Toluene-d8	*0.0493*		mg/kg wet	*0.05000*		*99*	*70-130*			
Batch CC52716 - 5035										
Blank										
1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet							
1,1,1-Trichloroethane	ND	0.0050	mg/kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0020	mg/kg wet							
1,1,2-Trichloroethane	ND	0.0050	mg/kg wet							
1,1-Dichloroethane	ND	0.0050	mg/kg wet							
1,1-Dichloroethene	ND	0.0050	mg/kg wet							
1,1-Dichloropropene	ND	0.0050	mg/kg wet							
1,2,3-Trichlorobenzene	ND	0.0050	mg/kg wet							
1,2,3-Trichloropropane	ND	0.0050	mg/kg wet							
1,2,4-Trichlorobenzene	ND	0.0050	mg/kg wet							
1,2,4-Trimethylbenzene	ND	0.0050	mg/kg wet							
1,2-Dibromo-3-Chloropropane	ND	0.0050	mg/kg wet							
1,2-Dibromoethane	ND	0.0050	mg/kg wet							
1,2-Dichlorobenzene	ND	0.0050	mg/kg wet							
1,2-Dichloroethane	ND	0.0050	mg/kg wet							
1,2-Dichloropropane	ND	0.0050	mg/kg wet							
1,3,5-Trimethylbenzene	ND	0.0050	mg/kg wet							
1,3-Dichlorobenzene	ND	0.0050	mg/kg wet							
1,3-Dichloropropane	ND	0.0050	mg/kg wet							
1,4-Dichlorobenzene	ND	0.0050	mg/kg wet							
1,4-Dioxane	ND	0.100	mg/kg wet							
2,2-Dichloropropane	ND	0.0050	mg/kg wet							
2-Butanone	ND	0.0100	mg/kg wet							
2-Chlorotoluene	ND	0.0050	mg/kg wet							
2-Hexanone	ND	0.0100	mg/kg wet							
4-Chlorotoluene	ND	0.0050	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503448

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch CC52716 - 5035										
4-Isopropyltoluene	ND	0.0050	mg/kg wet							
4-Methyl-2-Pentanone	ND	0.0100	mg/kg wet							
Acetone	ND	0.0100	mg/kg wet							
Benzene	ND	0.0050	mg/kg wet							
Bromobenzene	ND	0.0050	mg/kg wet							
Bromochloromethane	ND	0.0050	mg/kg wet							
Bromodichloromethane	ND	0.0050	mg/kg wet							
Bromoform	ND	0.0050	mg/kg wet							
Bromomethane	ND	0.0100	mg/kg wet							
Carbon Disulfide	ND	0.0050	mg/kg wet							
Carbon Tetrachloride	ND	0.0050	mg/kg wet							
Chlorobenzene	ND	0.0050	mg/kg wet							
Chloroethane	ND	0.0100	mg/kg wet							
Chloroform	ND	0.0050	mg/kg wet							
Chloromethane	ND	0.0100	mg/kg wet							
cis-1,2-Dichloroethene	ND	0.0050	mg/kg wet							
cis-1,3-Dichloropropene	ND	0.0050	mg/kg wet							
Dibromochloromethane	ND	0.0020	mg/kg wet							
Dibromomethane	ND	0.0050	mg/kg wet							
Dichlorodifluoromethane	ND	0.0100	mg/kg wet							
Diethyl Ether	ND	0.0050	mg/kg wet							
Di-isopropyl ether	ND	0.0050	mg/kg wet							
Ethyl tertiary-butyl ether	ND	0.0050	mg/kg wet							
Ethylbenzene	ND	0.0050	mg/kg wet							
Hexachlorobutadiene	ND	0.0050	mg/kg wet							
Isopropylbenzene	ND	0.0050	mg/kg wet							
Methyl tert-Butyl Ether	ND	0.0050	mg/kg wet							
Methylene Chloride	ND	0.0100	mg/kg wet							
Naphthalene	ND	0.0050	mg/kg wet							
n-Butylbenzene	ND	0.0050	mg/kg wet							
n-Propylbenzene	ND	0.0050	mg/kg wet							
sec-Butylbenzene	ND	0.0050	mg/kg wet							
Styrene	ND	0.0050	mg/kg wet							
tert-Butylbenzene	ND	0.0050	mg/kg wet							
Tertiary-amyl methyl ether	ND	0.0050	mg/kg wet							
Tetrachloroethene	ND	0.0050	mg/kg wet							
Tetrahydrofuran	ND	0.0050	mg/kg wet							
Toluene	ND	0.0050	mg/kg wet							
trans-1,2-Dichloroethene	ND	0.0050	mg/kg wet							
trans-1,3-Dichloropropene	ND	0.0050	mg/kg wet							
Trichloroethene	ND	0.0050	mg/kg wet							
Trichlorofluoromethane	ND	0.0050	mg/kg wet							
Vinyl Chloride	ND	0.0100	mg/kg wet							
Xylene O	ND	0.0050	mg/kg wet							
Xylene P,M	ND	0.0100	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503448

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch CC52716 - 5035										
Surrogate: 1,2-Dichloroethane-d4	*0.0462*		mg/kg wet	*0.05000*		*92*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.0459*		mg/kg wet	*0.05000*		*92*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0441*		mg/kg wet	*0.05000*		*88*	*70-130*			
Surrogate: Toluene-d8	*0.0468*		mg/kg wet	*0.05000*		*94*	*70-130*			
LCS										
1,1,1,2-Tetrachloroethane	0.0543	0.0050	mg/kg wet	0.05000		109	70-130			
1,1,1-Trichloroethane	0.0501	0.0050	mg/kg wet	0.05000		100	70-130			
1,1,2,2-Tetrachloroethane	0.0484	0.0020	mg/kg wet	0.05000		97	70-130			
1,1,2-Trichloroethane	0.0452	0.0050	mg/kg wet	0.05000		90	70-130			
1,1-Dichloroethane	0.0446	0.0050	mg/kg wet	0.05000		89	70-130			
1,1-Dichloroethene	0.0432	0.0050	mg/kg wet	0.05000		86	70-130			
1,1-Dichloropropene	0.0432	0.0050	mg/kg wet	0.05000		86	70-130			
1,2,3-Trichlorobenzene	0.0496	0.0050	mg/kg wet	0.05000		99	70-130			
1,2,3-Trichloropropane	0.0532	0.0050	mg/kg wet	0.05000		106	70-130			
1,2,4-Trichlorobenzene	0.0488	0.0050	mg/kg wet	0.05000		98	70-130			
1,2,4-Trimethylbenzene	0.0471	0.0050	mg/kg wet	0.05000		94	70-130			
1,2-Dibromo-3-Chloropropane	0.0562	0.0050	mg/kg wet	0.05000		112	70-130			
1,2-Dibromoethane	0.0509	0.0050	mg/kg wet	0.05000		102	70-130			
1,2-Dichlorobenzene	0.0464	0.0050	mg/kg wet	0.05000		93	70-130			
1,2-Dichloroethane	0.0470	0.0050	mg/kg wet	0.05000		94	70-130			
1,2-Dichloropropane	0.0438	0.0050	mg/kg wet	0.05000		88	70-130			
1,3,5-Trimethylbenzene	0.0495	0.0050	mg/kg wet	0.05000		99	70-130			
1,3-Dichlorobenzene	0.0467	0.0050	mg/kg wet	0.05000		93	70-130			
1,3-Dichloropropane	0.0520	0.0050	mg/kg wet	0.05000		104	70-130			
1,4-Dichlorobenzene	0.0474	0.0050	mg/kg wet	0.05000		95	70-130			
1,4-Dioxane	0.931	0.100	mg/kg wet	1.000		93	70-130			
2,2-Dichloropropane	0.0520	0.0050	mg/kg wet	0.05000		104	70-130			
2-Butanone	0.263	0.0100	mg/kg wet	0.2500		105	70-130			
2-Chlorotoluene	0.0480	0.0050	mg/kg wet	0.05000		96	70-130			
2-Hexanone	0.316	0.0100	mg/kg wet	0.2500		126	70-130			
4-Chlorotoluene	0.0482	0.0050	mg/kg wet	0.05000		96	70-130			
4-Isopropyltoluene	0.0474	0.0050	mg/kg wet	0.05000		95	70-130			
4-Methyl-2-Pentanone	0.246	0.0100	mg/kg wet	0.2500		98	70-130			
Acetone	0.400	0.0100	mg/kg wet	0.2500		160	70-130			B+
Benzene	0.0448	0.0050	mg/kg wet	0.05000		90	70-130			
Bromobenzene	0.0494	0.0050	mg/kg wet	0.05000		99	70-130			
Bromochloromethane	0.0474	0.0050	mg/kg wet	0.05000		95	70-130			
Bromodichloromethane	0.0490	0.0050	mg/kg wet	0.05000		98	70-130			
Bromoform	0.0526	0.0050	mg/kg wet	0.05000		105	70-130			
Bromomethane	0.0777	0.0100	mg/kg wet	0.05000		155	70-130			B+
Carbon Disulfide	0.0482	0.0050	mg/kg wet	0.05000		96	70-130			
Carbon Tetrachloride	0.0518	0.0050	mg/kg wet	0.05000		104	70-130			
Chlorobenzene	0.0484	0.0050	mg/kg wet	0.05000		97	70-130			
Chloroethane	0.0417	0.0100	mg/kg wet	0.05000		83	70-130			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503448

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch CC52716 - 5035										
Chloroform	0.0471	0.0050	mg/kg wet	0.05000		94	70-130			
Chloromethane	0.0522	0.0100	mg/kg wet	0.05000		104	70-130			
cis-1,2-Dichloroethene	0.0458	0.0050	mg/kg wet	0.05000		92	70-130			
cis-1,3-Dichloropropene	0.0529	0.0050	mg/kg wet	0.05000		106	70-130			
Dibromochloromethane	0.0514	0.0020	mg/kg wet	0.05000		103	70-130			
Dibromomethane	0.0466	0.0050	mg/kg wet	0.05000		93	70-130			
Dichlorodifluoromethane	0.0484	0.0100	mg/kg wet	0.05000		97	70-130			
Diethyl Ether	0.0474	0.0050	mg/kg wet	0.05000		95	70-130			
Di-isopropyl ether	0.0451	0.0050	mg/kg wet	0.05000		90	70-130			
Ethyl tertiary-butyl ether	0.0431	0.0050	mg/kg wet	0.05000		86	70-130			
Ethylbenzene	0.0483	0.0050	mg/kg wet	0.05000		97	70-130			
Hexachlorobutadiene	0.0533	0.0050	mg/kg wet	0.05000		107	70-130			
Isopropylbenzene	0.0472	0.0050	mg/kg wet	0.05000		94	70-130			
Methyl tert-Butyl Ether	0.0463	0.0050	mg/kg wet	0.05000		93	70-130			
Methylene Chloride	0.0444	0.0100	mg/kg wet	0.05000		89	70-130			
Naphthalene	0.0444	0.0050	mg/kg wet	0.05000		89	70-130			
n-Butylbenzene	0.0472	0.0050	mg/kg wet	0.05000		94	70-130			
n-Propylbenzene	0.0473	0.0050	mg/kg wet	0.05000		95	70-130			
sec-Butylbenzene	0.0472	0.0050	mg/kg wet	0.05000		94	70-130			
Styrene	0.0493	0.0050	mg/kg wet	0.05000		99	70-130			
tert-Butylbenzene	0.0476	0.0050	mg/kg wet	0.05000		95	70-130			
Tertiary-amyl methyl ether	0.0453	0.0050	mg/kg wet	0.05000		91	70-130			
Tetrachloroethene	0.0492	0.0050	mg/kg wet	0.05000		98	70-130			
Tetrahydrofuran	0.0446	0.0050	mg/kg wet	0.05000		89	70-130			
Toluene	0.0439	0.0050	mg/kg wet	0.05000		88	70-130			
trans-1,2-Dichloroethene	0.0416	0.0050	mg/kg wet	0.05000		83	70-130			
trans-1,3-Dichloropropene	0.0534	0.0050	mg/kg wet	0.05000		107	70-130			
Trichloroethene	0.0451	0.0050	mg/kg wet	0.05000		90	70-130			
Trichlorofluoromethane	0.0430	0.0050	mg/kg wet	0.05000		86	70-130			
Vinyl Chloride	0.0471	0.0100	mg/kg wet	0.05000		94	70-130			
Xylene O	0.0479	0.0050	mg/kg wet	0.05000		96	70-130			
Xylene P,M	0.0960	0.0100	mg/kg wet	0.1000		96	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0468*		mg/kg wet	*0.05000*		*94*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.0480*		mg/kg wet	*0.05000*		*96*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0456*		mg/kg wet	*0.05000*		*91*	*70-130*			
Surrogate: Toluene-d8	*0.0504*		mg/kg wet	*0.05000*		*101*	*70-130*			
LCS Dup										
1,1,1,2-Tetrachloroethane	0.0536	0.0050	mg/kg wet	0.05000		107	70-130	1	25	
1,1,1-Trichloroethane	0.0469	0.0050	mg/kg wet	0.05000		94	70-130	7	25	
1,1,2,2-Tetrachloroethane	0.0467	0.0020	mg/kg wet	0.05000		93	70-130	4	25	
1,1,2-Trichloroethane	0.0421	0.0050	mg/kg wet	0.05000		84	70-130	7	25	
1,1-Dichloroethane	0.0422	0.0050	mg/kg wet	0.05000		84	70-130	6	25	
1,1-Dichloroethene	0.0402	0.0050	mg/kg wet	0.05000		80	70-130	7	25	
1,1-Dichloropropene	0.0408	0.0050	mg/kg wet	0.05000		82	70-130	6	25	
1,2,3-Trichlorobenzene	0.0497	0.0050	mg/kg wet	0.05000		99	70-130	0.1	25	

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503448

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch CC52716 - 5035										
1,2,3-Trichloropropane	0.0503	0.0050	mg/kg wet	0.05000		101	70-130	6	25	
1,2,4-Trichlorobenzene	0.0491	0.0050	mg/kg wet	0.05000		98	70-130	0.6	25	
1,2,4-Trimethylbenzene	0.0458	0.0050	mg/kg wet	0.05000		92	70-130	3	25	
1,2-Dibromo-3-Chloropropane	0.0490	0.0050	mg/kg wet	0.05000		98	70-130	14	25	
1,2-Dibromoethane	0.0491	0.0050	mg/kg wet	0.05000		98	70-130	4	25	
1,2-Dichlorobenzene	0.0461	0.0050	mg/kg wet	0.05000		92	70-130	0.6	25	
1,2-Dichloroethane	0.0442	0.0050	mg/kg wet	0.05000		88	70-130	6	25	
1,2-Dichloropropane	0.0409	0.0050	mg/kg wet	0.05000		82	70-130	7	25	
1,3,5-Trimethylbenzene	0.0483	0.0050	mg/kg wet	0.05000		97	70-130	2	25	
1,3-Dichlorobenzene	0.0464	0.0050	mg/kg wet	0.05000		93	70-130	0.8	25	
1,3-Dichloropropane	0.0499	0.0050	mg/kg wet	0.05000		100	70-130	4	25	
1,4-Dichlorobenzene	0.0478	0.0050	mg/kg wet	0.05000		96	70-130	0.8	25	
1,4-Dioxane	0.812	0.100	mg/kg wet	1.000		81	70-130	14	20	
2,2-Dichloropropane	0.0489	0.0050	mg/kg wet	0.05000		98	70-130	6	25	
2-Butanone	0.209	0.0100	mg/kg wet	0.2500		84	70-130	23	25	
2-Chlorotoluene	0.0465	0.0050	mg/kg wet	0.05000		93	70-130	3	25	
2-Hexanone	0.252	0.0100	mg/kg wet	0.2500		101	70-130	23	25	
4-Chlorotoluene	0.0471	0.0050	mg/kg wet	0.05000		94	70-130	2	25	
4-Isopropyltoluene	0.0467	0.0050	mg/kg wet	0.05000		93	70-130	1	25	
4-Methyl-2-Pentanone	0.218	0.0100	mg/kg wet	0.2500		87	70-130	12	25	
Acetone	0.229	0.0100	mg/kg wet	0.2500		91	70-130	55	25	D+
Benzene	0.0422	0.0050	mg/kg wet	0.05000		84	70-130	6	25	
Bromobenzene	0.0488	0.0050	mg/kg wet	0.05000		98	70-130	1	25	
Bromochloromethane	0.0450	0.0050	mg/kg wet	0.05000		90	70-130	5	25	
Bromodichloromethane	0.0466	0.0050	mg/kg wet	0.05000		93	70-130	5	25	
Bromoform	0.0521	0.0050	mg/kg wet	0.05000		104	70-130	1	25	
Bromomethane	0.0748	0.0100	mg/kg wet	0.05000		150	70-130	4	25	B+
Carbon Disulfide	0.0460	0.0050	mg/kg wet	0.05000		92	70-130	5	25	
Carbon Tetrachloride	0.0489	0.0050	mg/kg wet	0.05000		98	70-130	6	25	
Chlorobenzene	0.0473	0.0050	mg/kg wet	0.05000		95	70-130	2	25	
Chloroethane	0.0395	0.0100	mg/kg wet	0.05000		79	70-130	5	25	
Chloroform	0.0443	0.0050	mg/kg wet	0.05000		89	70-130	6	25	
Chloromethane	0.0481	0.0100	mg/kg wet	0.05000		96	70-130	8	25	
cis-1,2-Dichloroethene	0.0440	0.0050	mg/kg wet	0.05000		88	70-130	4	25	
cis-1,3-Dichloropropene	0.0502	0.0050	mg/kg wet	0.05000		100	70-130	5	25	
Dibromochloromethane	0.0500	0.0020	mg/kg wet	0.05000		100	70-130	3	25	
Dibromomethane	0.0446	0.0050	mg/kg wet	0.05000		89	70-130	4	25	
Dichlorodifluoromethane	0.0459	0.0100	mg/kg wet	0.05000		92	70-130	5	25	
Diethyl Ether	0.0430	0.0050	mg/kg wet	0.05000		86	70-130	10	25	
Di-isopropyl ether	0.0415	0.0050	mg/kg wet	0.05000		83	70-130	8	25	
Ethyl tertiary-butyl ether	0.0424	0.0050	mg/kg wet	0.05000		85	70-130	2	25	
Ethylbenzene	0.0467	0.0050	mg/kg wet	0.05000		93	70-130	3	25	
Hexachlorobutadiene	0.0548	0.0050	mg/kg wet	0.05000		110	70-130	3	25	
Isopropylbenzene	0.0466	0.0050	mg/kg wet	0.05000		93	70-130	1	25	
Methyl tert-Butyl Ether	0.0455	0.0050	mg/kg wet	0.05000		91	70-130	2	25	

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503448

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch CC52716 - 5035										
Methylene Chloride	0.0420	0.0100	mg/kg wet	0.05000		84	70-130	6	25	
Naphthalene	0.0444	0.0050	mg/kg wet	0.05000		89	70-130	0.1	25	
n-Butylbenzene	0.0462	0.0050	mg/kg wet	0.05000		92	70-130	2	25	
n-Propylbenzene	0.0457	0.0050	mg/kg wet	0.05000		91	70-130	3	25	
sec-Butylbenzene	0.0466	0.0050	mg/kg wet	0.05000		93	70-130	1	25	
Styrene	0.0480	0.0050	mg/kg wet	0.05000		96	70-130	3	25	
tert-Butylbenzene	0.0470	0.0050	mg/kg wet	0.05000		94	70-130	1	25	
Tertiary-amyl methyl ether	0.0449	0.0050	mg/kg wet	0.05000		90	70-130	0.9	25	
Tetrachloroethene	0.0479	0.0050	mg/kg wet	0.05000		96	70-130	3	25	
Tetrahydrofuran	0.0421	0.0050	mg/kg wet	0.05000		84	70-130	6	25	
Toluene	0.0420	0.0050	mg/kg wet	0.05000		84	70-130	5	25	
trans-1,2-Dichloroethene	0.0400	0.0050	mg/kg wet	0.05000		80	70-130	4	25	
trans-1,3-Dichloropropene	0.0502	0.0050	mg/kg wet	0.05000		100	70-130	6	25	
Trichloroethene	0.0427	0.0050	mg/kg wet	0.05000		85	70-130	5	25	
Trichlorofluoromethane	0.0412	0.0050	mg/kg wet	0.05000		82	70-130	4	25	
Vinyl Chloride	0.0437	0.0100	mg/kg wet	0.05000		87	70-130	8	25	
Xylene O	0.0468	0.0050	mg/kg wet	0.05000		94	70-130	2	25	
Xylene P,M	0.0954	0.0100	mg/kg wet	0.1000		95	70-130	0.7	25	
Surrogate: 1,2-Dichloroethane-d4	*0.0436*		mg/kg wet	*0.05000*		*87*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.0463*		mg/kg wet	*0.05000*		*93*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0439*		mg/kg wet	*0.05000*		*88*	*70-130*			
Surrogate: Toluene-d8	*0.0491*		mg/kg wet	*0.05000*		*98*	*70-130*			
5035/8260B Volatile Organic Compounds / Methanol										
Batch CC52745 - 5035										
Blank										
1,1,1,2-Tetrachloroethane	ND	0.100	mg/kg wet							
1,1,1-Trichloroethane	ND	0.0500	mg/kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0500	mg/kg wet							
1,1,2-Trichloroethane	ND	0.0500	mg/kg wet							
1,1-Dichloroethane	ND	0.0500	mg/kg wet							
1,1-Dichloroethene	ND	0.0500	mg/kg wet							
1,1-Dichloropropene	ND	0.0500	mg/kg wet							
1,2,3-Trichlorobenzene	ND	0.0500	mg/kg wet							
1,2,3-Trichloropropane	ND	0.0500	mg/kg wet							
1,2,4-Trichlorobenzene	ND	0.0500	mg/kg wet							
1,2,4-Trimethylbenzene	ND	0.0500	mg/kg wet							
1,2-Dibromo-3-Chloropropane	ND	0.200	mg/kg wet							
1,2-Dibromoethane	ND	0.0500	mg/kg wet							
1,2-Dichlorobenzene	ND	0.0500	mg/kg wet							
1,2-Dichloroethane	ND	0.0500	mg/kg wet							
1,2-Dichloropropane	ND	0.0500	mg/kg wet							
1,3,5-Trimethylbenzene	ND	0.0500	mg/kg wet							
1,3-Dichlorobenzene	ND	0.0500	mg/kg wet							
1,3-Dichloropropane	ND	0.0500	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503448

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Methanol										
Batch CC52745 - 5035										
1,4-Dichlorobenzene	ND	0.0500	mg/kg wet							
1,4-Dioxane - Screen	ND	5.00	mg/kg wet							
2,2-Dichloropropane	ND	0.100	mg/kg wet							
2-Butanone	ND	0.200	mg/kg wet							
2-Chlorotoluene	ND	0.0500	mg/kg wet							
2-Hexanone	ND	0.200	mg/kg wet							
4-Chlorotoluene	ND	0.0500	mg/kg wet							
4-Isopropyltoluene	ND	0.0500	mg/kg wet							
4-Methyl-2-Pentanone	ND	0.200	mg/kg wet							
Acetone	0.320	0.200	mg/kg wet							
Benzene	ND	0.0500	mg/kg wet							
Bromobenzene	ND	0.0500	mg/kg wet							
Bromochloromethane	ND	0.0500	mg/kg wet							
Bromodichloromethane	ND	0.0500	mg/kg wet							
Bromoform	ND	0.0500	mg/kg wet							
Bromomethane	ND	0.100	mg/kg wet							
Carbon Disulfide	ND	0.0500	mg/kg wet							
Carbon Tetrachloride	ND	0.0500	mg/kg wet							
Chlorobenzene	ND	0.0500	mg/kg wet							
Chloroethane	ND	0.100	mg/kg wet							
Chloroform	ND	0.0500	mg/kg wet							
Chloromethane	ND	0.100	mg/kg wet							
cis-1,2-Dichloroethene	ND	0.0500	mg/kg wet							
cis-1,3-Dichloropropene	ND	0.0500	mg/kg wet							
Dibromochloromethane	ND	0.0500	mg/kg wet							
Dibromomethane	ND	0.0500	mg/kg wet							
Dichlorodifluoromethane	ND	0.0500	mg/kg wet							
Diethyl Ether	ND	0.0500	mg/kg wet							
Di-isopropyl ether	ND	0.0500	mg/kg wet							
Ethyl tertiary-butyl ether	ND	0.0500	mg/kg wet							
Ethylbenzene	ND	0.0500	mg/kg wet							
Hexachlorobutadiene	ND	0.0500	mg/kg wet							
Isopropylbenzene	ND	0.0500	mg/kg wet							
Methyl tert-Butyl Ether	ND	0.0500	mg/kg wet							
Methylene Chloride	ND	0.200	mg/kg wet							
Naphthalene	ND	0.0500	mg/kg wet							
n-Butylbenzene	ND	0.0500	mg/kg wet							
n-Propylbenzene	ND	0.0500	mg/kg wet							
sec-Butylbenzene	ND	0.0500	mg/kg wet							
Styrene	ND	0.0500	mg/kg wet							
tert-Butylbenzene	ND	0.0500	mg/kg wet							
Tertiary-amyl methyl ether	ND	0.0500	mg/kg wet							
Tetrachloroethene	ND	0.0500	mg/kg wet							
Tetrahydrofuran	ND	0.200	mg/kg wet							
Toluene	ND	0.0500	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503448

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Methanol										
Batch CC52745 - 5035										
trans-1,2-Dichloroethene	ND	0.0500	mg/kg wet							
trans-1,3-Dichloropropene	ND	0.0500	mg/kg wet							
Trichloroethene	ND	0.0500	mg/kg wet							
Trichlorofluoromethane	ND	0.0500	mg/kg wet							
Vinyl Chloride	ND	0.0500	mg/kg wet							
Xylene O	ND	0.0500	mg/kg wet							
Xylene P,M	ND	0.100	mg/kg wet							
Surrogate: 1,2-Dichloroethane-d4	*2.47*		mg/kg wet	*2.500*		*99*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*2.40*		mg/kg wet	*2.500*		*96*	*70-130*			
Surrogate: Dibromofluoromethane	*2.66*		mg/kg wet	*2.500*		*106*	*70-130*			
Surrogate: Toluene-d8	*2.43*		mg/kg wet	*2.500*		*97*	*70-130*			
LCS										
1,1,1,2-Tetrachloroethane	2.40	0.100	mg/kg wet	2.500		96	70-130			
1,1,1-Trichloroethane	2.59	0.0500	mg/kg wet	2.500		104	70-130			
1,1,2,2-Tetrachloroethane	2.43	0.0500	mg/kg wet	2.500		97	70-130			
1,1,2-Trichloroethane	2.64	0.0500	mg/kg wet	2.500		105	70-130			
1,1-Dichloroethane	2.44	0.0500	mg/kg wet	2.500		98	70-130			
1,1-Dichloroethene	2.46	0.0500	mg/kg wet	2.500		98	70-130			
1,1-Dichloropropene	2.38	0.0500	mg/kg wet	2.500		95	70-130			
1,2,3-Trichlorobenzene	2.78	0.0500	mg/kg wet	2.500		111	70-130			
1,2,3-Trichloropropane	2.54	0.0500	mg/kg wet	2.500		102	70-130			
1,2,4-Trichlorobenzene	2.62	0.0500	mg/kg wet	2.500		105	70-130			
1,2,4-Trimethylbenzene	2.37	0.0500	mg/kg wet	2.500		95	70-130			
1,2-Dibromo-3-Chloropropane	2.39	0.200	mg/kg wet	2.500		96	70-130			
1,2-Dibromoethane	2.49	0.0500	mg/kg wet	2.500		100	70-130			
1,2-Dichlorobenzene	2.44	0.0500	mg/kg wet	2.500		98	70-130			
1,2-Dichloroethane	2.67	0.0500	mg/kg wet	2.500		107	70-130			
1,2-Dichloropropane	2.52	0.0500	mg/kg wet	2.500		101	70-130			
1,3,5-Trimethylbenzene	2.48	0.0500	mg/kg wet	2.500		99	70-130			
1,3-Dichlorobenzene	2.45	0.0500	mg/kg wet	2.500		98	70-130			
1,3-Dichloropropane	2.52	0.0500	mg/kg wet	2.500		101	70-130			
1,4-Dichlorobenzene	2.43	0.0500	mg/kg wet	2.500		97	70-130			
1,4-Dioxane - Screen	55.4	5.00	mg/kg wet	50.00		111	44-241			
2,2-Dichloropropane	2.83	0.100	mg/kg wet	2.500		113	70-130			
2-Butanone	14.4	0.200	mg/kg wet	12.50		115	70-130			
2-Chlorotoluene	2.31	0.0500	mg/kg wet	2.500		93	70-130			
2-Hexanone	12.1	0.200	mg/kg wet	12.50		97	70-130			
4-Chlorotoluene	2.38	0.0500	mg/kg wet	2.500		95	70-130			
4-Isopropyltoluene	2.40	0.0500	mg/kg wet	2.500		96	70-130			
4-Methyl-2-Pentanone	12.1	0.200	mg/kg wet	12.50		96	70-130			
Acetone	17.6	0.200	mg/kg wet	12.50		141	70-130			B+
Benzene	2.56	0.0500	mg/kg wet	2.500		102	70-130			
Bromobenzene	2.49	0.0500	mg/kg wet	2.500		100	70-130			
Bromochloromethane	2.68	0.0500	mg/kg wet	2.500		107	70-130			
Bromodichloromethane	2.56	0.0500	mg/kg wet	2.500		102	70-130			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503448

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Methanol										
Batch CC52745 - 5035										
Bromoform	2.67	0.0500	mg/kg wet	2.500		107	70-130			
Bromomethane	3.02	0.100	mg/kg wet	2.500		121	70-130			
Carbon Disulfide	2.27	0.0500	mg/kg wet	2.500		91	70-130			
Carbon Tetrachloride	2.64	0.0500	mg/kg wet	2.500		106	70-130			
Chlorobenzene	2.44	0.0500	mg/kg wet	2.500		98	70-130			
Chloroethane	2.48	0.100	mg/kg wet	2.500		99	70-130			
Chloroform	2.62	0.0500	mg/kg wet	2.500		105	70-130			
Chloromethane	2.51	0.100	mg/kg wet	2.500		100	70-130			
cis-1,2-Dichloroethene	2.59	0.0500	mg/kg wet	2.500		104	70-130			
cis-1,3-Dichloropropene	2.88	0.0500	mg/kg wet	2.500		115	70-130			
Dibromochloromethane	2.52	0.0500	mg/kg wet	2.500		101	70-130			
Dibromomethane	2.63	0.0500	mg/kg wet	2.500		105	70-130			
Dichlorodifluoromethane	2.81	0.0500	mg/kg wet	2.500		113	70-130			
Diethyl Ether	2.56	0.0500	mg/kg wet	2.500		103	70-130			
Di-isopropyl ether	2.36	0.0500	mg/kg wet	2.500		94	70-130			
Ethyl tertiary-butyl ether	2.40	0.0500	mg/kg wet	2.500		96	70-130			
Ethylbenzene	2.35	0.0500	mg/kg wet	2.500		94	70-130			
Hexachlorobutadiene	2.72	0.0500	mg/kg wet	2.500		109	70-130			
Isopropylbenzene	2.40	0.0500	mg/kg wet	2.500		96	70-130			
Methyl tert-Butyl Ether	2.50	0.0500	mg/kg wet	2.500		100	70-130			
Methylene Chloride	2.55	0.200	mg/kg wet	2.500		102	70-130			
Naphthalene	2.92	0.0500	mg/kg wet	2.500		117	70-130			
n-Butylbenzene	2.43	0.0500	mg/kg wet	2.500		97	70-130			
n-Propylbenzene	2.35	0.0500	mg/kg wet	2.500		94	70-130			
sec-Butylbenzene	2.41	0.0500	mg/kg wet	2.500		96	70-130			
Styrene	2.46	0.0500	mg/kg wet	2.500		98	70-130			
tert-Butylbenzene	2.41	0.0500	mg/kg wet	2.500		96	70-130			
Tertiary-amyl methyl ether	2.51	0.0500	mg/kg wet	2.500		100	70-130			
Tetrachloroethene	2.60	0.0500	mg/kg wet	2.500		104	70-130			
Tetrahydrofuran	2.47	0.200	mg/kg wet	2.500		99	70-130			
Toluene	2.63	0.0500	mg/kg wet	2.500		105	70-130			
trans-1,2-Dichloroethene	2.35	0.0500	mg/kg wet	2.500		94	70-130			
trans-1,3-Dichloropropene	2.73	0.0500	mg/kg wet	2.500		109	70-130			
Trichloroethene	2.74	0.0500	mg/kg wet	2.500		110	70-130			
Trichlorofluoromethane	2.31	0.0500	mg/kg wet	2.500		92	70-130			
Vinyl Chloride	2.79	0.0500	mg/kg wet	2.500		112	70-130			
Xylene O	2.45	0.0500	mg/kg wet	2.500		98	70-130			
Xylene P,M	4.84	0.100	mg/kg wet	5.000		97	70-130			
Surrogate: 1,2-Dichloroethane-d4	*1.92*		mg/kg wet	*2.500*		*77*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*1.82*		mg/kg wet	*2.500*		*73*	*70-130*			
Surrogate: Dibromofluoromethane	*1.94*		mg/kg wet	*2.500*		*77*	*70-130*			
Surrogate: Toluene-d8	*1.81*		mg/kg wet	*2.500*		*72*	*70-130*			
LCS Dup										
1,1,1,2-Tetrachloroethane	2.39	0.100	mg/kg wet	2.500		95	70-130	0.8	25	
1,1,1-Trichloroethane	2.61	0.0500	mg/kg wet	2.500		104	70-130	0.8	25	

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503448

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Methanol										
Batch CC52745 - 5035										
1,1,2,2-Tetrachloroethane	2.41	0.0500	mg/kg wet	2.500		96	70-130	0.9	25	
1,1,2-Trichloroethane	2.77	0.0500	mg/kg wet	2.500		111	70-130	5	25	
1,1-Dichloroethane	2.54	0.0500	mg/kg wet	2.500		102	70-130	4	25	
1,1-Dichloroethene	2.50	0.0500	mg/kg wet	2.500		100	70-130	2	25	
1,1-Dichloropropene	2.31	0.0500	mg/kg wet	2.500		92	70-130	3	25	
1,2,3-Trichlorobenzene	2.84	0.0500	mg/kg wet	2.500		113	70-130	2	25	
1,2,3-Trichloropropane	2.43	0.0500	mg/kg wet	2.500		97	70-130	5	25	
1,2,4-Trichlorobenzene	2.62	0.0500	mg/kg wet	2.500		105	70-130	0.3	25	
1,2,4-Trimethylbenzene	2.35	0.0500	mg/kg wet	2.500		94	70-130	0.9	25	
1,2-Dibromo-3-Chloropropane	2.32	0.200	mg/kg wet	2.500		93	70-130	3	25	
1,2-Dibromoethane	2.52	0.0500	mg/kg wet	2.500		101	70-130	1	25	
1,2-Dichlorobenzene	2.38	0.0500	mg/kg wet	2.500		95	70-130	3	25	
1,2-Dichloroethane	2.58	0.0500	mg/kg wet	2.500		103	70-130	3	25	
1,2-Dichloropropane	2.71	0.0500	mg/kg wet	2.500		108	70-130	7	25	
1,3,5-Trimethylbenzene	2.40	0.0500	mg/kg wet	2.500		96	70-130	3	25	
1,3-Dichlorobenzene	2.38	0.0500	mg/kg wet	2.500		95	70-130	3	25	
1,3-Dichloropropane	2.52	0.0500	mg/kg wet	2.500		101	70-130	0.1	25	
1,4-Dichlorobenzene	2.40	0.0500	mg/kg wet	2.500		96	70-130	1	25	
1,4-Dioxane - Screen	62.1	5.00	mg/kg wet	50.00		124	44-241	11	200	
2,2-Dichloropropane	2.85	0.100	mg/kg wet	2.500		114	70-130	0.9	25	
2-Butanone	14.5	0.200	mg/kg wet	12.50		116	70-130	0.8	25	
2-Chlorotoluene	2.26	0.0500	mg/kg wet	2.500		91	70-130	2	25	
2-Hexanone	12.1	0.200	mg/kg wet	12.50		97	70-130	0.02	25	
4-Chlorotoluene	2.37	0.0500	mg/kg wet	2.500		95	70-130	0.3	25	
4-Isopropyltoluene	2.35	0.0500	mg/kg wet	2.500		94	70-130	2	25	
4-Methyl-2-Pentanone	13.0	0.200	mg/kg wet	12.50		104	70-130	8	25	
Acetone	17.5	0.200	mg/kg wet	12.50		140	70-130	0.7	25	B+
Benzene	2.39	0.0500	mg/kg wet	2.500		96	70-130	7	25	
Bromobenzene	2.42	0.0500	mg/kg wet	2.500		97	70-130	3	25	
Bromochloromethane	2.78	0.0500	mg/kg wet	2.500		111	70-130	4	25	
Bromodichloromethane	2.69	0.0500	mg/kg wet	2.500		107	70-130	5	25	
Bromoform	2.70	0.0500	mg/kg wet	2.500		108	70-130	1	25	
Bromomethane	3.14	0.100	mg/kg wet	2.500		125	70-130	4	25	
Carbon Disulfide	2.32	0.0500	mg/kg wet	2.500		93	70-130	2	25	
Carbon Tetrachloride	2.62	0.0500	mg/kg wet	2.500		105	70-130	0.5	25	
Chlorobenzene	2.44	0.0500	mg/kg wet	2.500		98	70-130	0.2	25	
Chloroethane	2.53	0.100	mg/kg wet	2.500		101	70-130	2	25	
Chloroform	2.71	0.0500	mg/kg wet	2.500		109	70-130	4	25	
Chloromethane	2.54	0.100	mg/kg wet	2.500		101	70-130	1	25	
cis-1,2-Dichloroethene	2.67	0.0500	mg/kg wet	2.500		107	70-130	3	25	
cis-1,3-Dichloropropene	3.00	0.0500	mg/kg wet	2.500		120	70-130	4	25	
Dibromochloromethane	2.52	0.0500	mg/kg wet	2.500		101	70-130	0.1	25	
Dibromomethane	2.79	0.0500	mg/kg wet	2.500		112	70-130	6	25	
Dichlorodifluoromethane	2.77	0.0500	mg/kg wet	2.500		111	70-130	2	25	
Diethyl Ether	2.68	0.0500	mg/kg wet	2.500		107	70-130	5	25	

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503448

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Methanol										
Batch CC52745 - 5035										
Di-isopropyl ether	2.48	0.0500	mg/kg wet	2.500		99	70-130	5	25	
Ethyl tertiary-butyl ether	2.52	0.0500	mg/kg wet	2.500		101	70-130	5	25	
Ethylbenzene	2.36	0.0500	mg/kg wet	2.500		94	70-130	0.3	25	
Hexachlorobutadiene	2.78	0.0500	mg/kg wet	2.500		111	70-130	2	25	
Isopropylbenzene	2.36	0.0500	mg/kg wet	2.500		94	70-130	2	25	
Methyl tert-Butyl Ether	2.67	0.0500	mg/kg wet	2.500		107	70-130	7	25	
Methylene Chloride	2.64	0.200	mg/kg wet	2.500		106	70-130	4	25	
Naphthalene	3.12	0.0500	mg/kg wet	2.500		125	70-130	6	25	
n-Butylbenzene	2.38	0.0500	mg/kg wet	2.500		95	70-130	2	25	
n-Propylbenzene	2.30	0.0500	mg/kg wet	2.500		92	70-130	2	25	
sec-Butylbenzene	2.37	0.0500	mg/kg wet	2.500		95	70-130	2	25	
Styrene	2.47	0.0500	mg/kg wet	2.500		99	70-130	0.5	25	
tert-Butylbenzene	2.37	0.0500	mg/kg wet	2.500		95	70-130	2	25	
Tertiary-amyl methyl ether	2.30	0.0500	mg/kg wet	2.500		92	70-130	9	25	
Tetrachloroethene	2.56	0.0500	mg/kg wet	2.500		103	70-130	1	25	
Tetrahydrofuran	2.68	0.200	mg/kg wet	2.500		107	70-130	8	25	
Toluene	2.74	0.0500	mg/kg wet	2.500		110	70-130	4	25	
trans-1,2-Dichloroethene	2.41	0.0500	mg/kg wet	2.500		96	70-130	3	25	
trans-1,3-Dichloropropene	2.87	0.0500	mg/kg wet	2.500		115	70-130	5	25	
Trichloroethene	2.92	0.0500	mg/kg wet	2.500		117	70-130	6	25	
Trichlorofluoromethane	2.18	0.0500	mg/kg wet	2.500		87	70-130	5	25	
Vinyl Chloride	2.86	0.0500	mg/kg wet	2.500		115	70-130	3	25	
Xylene O	2.44	0.0500	mg/kg wet	2.500		98	70-130	0.7	25	
Xylene P,M	4.87	0.100	mg/kg wet	5.000		97	70-130	0.4	25	
Surrogate: 1,2-Dichloroethane-d4	*1.82*		mg/kg wet	*2.500*		*73*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*1.76*		mg/kg wet	*2.500*		*71*	*70-130*			
Surrogate: Dibromofluoromethane	*1.95*		mg/kg wet	*2.500*		*78*	*70-130*			
Surrogate: Toluene-d8	*1.78*		mg/kg wet	*2.500*		*71*	*70-130*			
8082A Polychlorinated Biphenyls (PCB)										
Batch CC53006 - 3540C										
Blank										
Aroclor 1016	ND	0.0080	mg/kg wet							
Aroclor 1221	ND	0.0080	mg/kg wet							
Aroclor 1232	ND	0.0080	mg/kg wet							
Aroclor 1242	ND	0.0080	mg/kg wet							
Aroclor 1248	ND	0.0080	mg/kg wet							
Aroclor 1254	ND	0.0080	mg/kg wet							
Aroclor 1260	ND	0.0080	mg/kg wet							
Aroclor 1262	ND	0.0080	mg/kg wet							
Aroclor 1268	ND	0.0080	mg/kg wet							
Surrogate: Decachlorobiphenyl	*0.00260*		mg/kg wet	*0.004000*		*65*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.00229*		mg/kg wet	*0.004000*		*57*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.00316*		mg/kg wet	*0.004000*		*79*	*30-150*			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503448

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CC53006 - 3540C										
Surrogate: Tetrachloro-m-xylene [2C]	*0.00307*		mg/kg wet	*0.004000*		*77*	*30-150*			
LCS										
Aroclor 1016	0.0844	0.0080	mg/kg wet	0.08000		106	40-140			
Aroclor 1260	0.0702	0.0080	mg/kg wet	0.08000		88	40-140			
Surrogate: Decachlorobiphenyl	*0.00301*		mg/kg wet	*0.004000*		*75*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.00277*		mg/kg wet	*0.004000*		*69*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.00358*		mg/kg wet	*0.004000*		*90*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.00354*		mg/kg wet	*0.004000*		*89*	*30-150*			
LCS Dup										
Aroclor 1016	0.0885	0.0080	mg/kg wet	0.08000		111	40-140	5	30	
Aroclor 1260	0.0761	0.0080	mg/kg wet	0.08000		95	40-140	8	30	
Surrogate: Decachlorobiphenyl	*0.00266*		mg/kg wet	*0.004000*		*67*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.00272*		mg/kg wet	*0.004000*		*68*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.00350*		mg/kg wet	*0.004000*		*88*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.00348*		mg/kg wet	*0.004000*		*87*	*30-150*			
Batch CC53007 - 3540C										
Blank										
Aroclor 1016	ND	0.0080	mg/kg wet							
Aroclor 1221	ND	0.0080	mg/kg wet							
Aroclor 1232	ND	0.0080	mg/kg wet							
Aroclor 1242	ND	0.0080	mg/kg wet							
Aroclor 1248	ND	0.0080	mg/kg wet							
Aroclor 1254	ND	0.0080	mg/kg wet							
Aroclor 1260	ND	0.0080	mg/kg wet							
Aroclor 1262	ND	0.0080	mg/kg wet							
Aroclor 1268	ND	0.0080	mg/kg wet							
Surrogate: Decachlorobiphenyl	*0.00391*		mg/kg wet	*0.004000*		*98*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.00418*		mg/kg wet	*0.004000*		*105*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.00284*		mg/kg wet	*0.004000*		*71*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.00312*		mg/kg wet	*0.004000*		*78*	*30-150*			
LCS										
Aroclor 1016	0.0850	0.0080	mg/kg wet	0.08000		106	40-140			
Aroclor 1260	0.0928	0.0080	mg/kg wet	0.08000		116	40-140			
Surrogate: Decachlorobiphenyl	*0.00410*		mg/kg wet	*0.004000*		*103*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.00460*		mg/kg wet	*0.004000*		*115*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.00328*		mg/kg wet	*0.004000*		*82*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.00336*		mg/kg wet	*0.004000*		*84*	*30-150*			
LCS Dup										
Aroclor 1016	0.0784	0.0080	mg/kg wet	0.08000		98	40-140	8	30	
Aroclor 1260	0.0844	0.0080	mg/kg wet	0.08000		106	40-140	9	30	

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
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ESS Laboratory Work Order: 1503448

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CC53007 - 3540C										
Surrogate: Decachlorobiphenyl	*0.00376*		mg/kg wet	*0.004000*		*94*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.00405*		mg/kg wet	*0.004000*		*101*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.00301*		mg/kg wet	*0.004000*		*75*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.00314*		mg/kg wet	*0.004000*		*79*	*30-150*			
8270D Semi-Volatile Organic Compounds										
Batch CD50205 - 3546										
Blank										
1,2,4-Trichlorobenzene	ND	0.333	mg/kg wet							
1,2-Dichlorobenzene	ND	0.333	mg/kg wet							
1,3-Dichlorobenzene	ND	0.333	mg/kg wet							
1,4-Dichlorobenzene	ND	0.333	mg/kg wet							
2,4,5-Trichlorophenol	ND	0.333	mg/kg wet							
2,4,6-Trichlorophenol	ND	0.333	mg/kg wet							
2,4-Dichlorophenol	ND	0.333	mg/kg wet							
2,4-Dimethylphenol	ND	0.333	mg/kg wet							
2,4-Dinitrophenol	ND	1.67	mg/kg wet							
2,4-Dinitrotoluene	ND	0.333	mg/kg wet							
2,6-Dinitrotoluene	ND	0.333	mg/kg wet							
2-Chloronaphthalene	ND	0.333	mg/kg wet							
2-Chlorophenol	ND	0.333	mg/kg wet							
2-Methylphenol	ND	0.333	mg/kg wet							
2-Nitrophenol	ND	0.333	mg/kg wet							
3,3´-Dichlorobenzidine	ND	0.667	mg/kg wet							
3+4-Methylphenol	ND	0.667	mg/kg wet							
4-Bromophenyl-phenylether	ND	0.333	mg/kg wet							
4-Chloroaniline	ND	0.667	mg/kg wet							
4-Nitrophenol	ND	1.67	mg/kg wet							
Acetophenone	ND	0.667	mg/kg wet							
Aniline	ND	1.67	mg/kg wet							
Azobenzene	ND	0.333	mg/kg wet							
bis(2-Chloroethoxy)methane	ND	0.333	mg/kg wet							
bis(2-Chloroethyl)ether	ND	0.333	mg/kg wet							
bis(2-chloroisopropyl)Ether	ND	0.333	mg/kg wet							
bis(2-Ethylhexyl)phthalate	ND	0.333	mg/kg wet							
Butylbenzylphthalate	ND	0.333	mg/kg wet							
Dibenzofuran	ND	0.333	mg/kg wet							
Diethylphthalate	ND	0.333	mg/kg wet							
Dimethylphthalate	ND	0.333	mg/kg wet							
Di-n-butylphthalate	ND	0.333	mg/kg wet							
Di-n-octylphthalate	ND	0.333	mg/kg wet							
Hexachlorobutadiene	ND	0.333	mg/kg wet							
Hexachloroethane	ND	0.333	mg/kg wet							
Isophorone	ND	0.333	mg/kg wet							

CERTIFICATE OF ANALYSIS

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Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D Semi-Volatile Organic Compounds										
Batch CD50205 - 3546										
Nitrobenzene	ND	0.333	mg/kg wet							
N-Nitrosodimethylamine	ND	0.333	mg/kg wet							
Pentachlorophenol	ND	1.67	mg/kg wet							
Phenol	ND	0.333	mg/kg wet							
Surrogate: 1,2-Dichlorobenzene-d4	*2.01*		mg/kg wet	*3.333*		*60*	*30-130*			
Surrogate: 2,4,6-Tribromophenol	*4.41*		mg/kg wet	*5.000*		*88*	*30-130*			
Surrogate: 2-Chlorophenol-d4	*2.99*		mg/kg wet	*5.000*		*60*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*2.18*		mg/kg wet	*3.333*		*66*	*30-130*			
Surrogate: 2-Fluorophenol	*2.84*		mg/kg wet	*5.000*		*57*	*30-130*			
Surrogate: Nitrobenzene-d5	*1.86*		mg/kg wet	*3.333*		*56*	*30-130*			
Surrogate: Phenol-d6	*2.91*		mg/kg wet	*5.000*		*58*	*30-130*			
Surrogate: p-Terphenyl-d14	*3.07*		mg/kg wet	*3.333*		*92*	*30-130*			
LCS										
1,2,4-Trichlorobenzene	1.71	0.333	mg/kg wet	3.333		51	40-140			
1,2-Dichlorobenzene	1.43	0.333	mg/kg wet	3.333		43	40-140			
1,3-Dichlorobenzene	1.43	0.333	mg/kg wet	3.333		43	40-140			
1,4-Dichlorobenzene	1.44	0.333	mg/kg wet	3.333		43	40-140			
2,4,5-Trichlorophenol	2.42	0.333	mg/kg wet	3.333		73	30-130			
2,4,6-Trichlorophenol	2.32	0.333	mg/kg wet	3.333		70	30-130			
2,4-Dichlorophenol	1.98	0.333	mg/kg wet	3.333		59	30-130			
2,4-Dimethylphenol	2.08	0.333	mg/kg wet	3.333		62	30-130			
2,4-Dinitrophenol	2.15	1.67	mg/kg wet	3.333		64	30-130			
2,4-Dinitrotoluene	2.48	0.333	mg/kg wet	3.333		74	40-140			
2,6-Dinitrotoluene	2.27	0.333	mg/kg wet	3.333		68	40-140			
2-Chloronaphthalene	1.73	0.333	mg/kg wet	3.333		52	40-140			
2-Chlorophenol	1.48	0.333	mg/kg wet	3.333		44	30-130			
2-Methylphenol	1.65	0.333	mg/kg wet	3.333		49	30-130			
2-Nitrophenol	1.82	0.333	mg/kg wet	3.333		55	30-130			
3,3´-Dichlorobenzidine	2.00	0.667	mg/kg wet	3.333		60	40-140			
3+4-Methylphenol	4.14	0.667	mg/kg wet	6.667		62	30-130			
4-Bromophenyl-phenylether	2.52	0.333	mg/kg wet	3.333		76	40-140			
4-Chloroaniline	1.46	0.667	mg/kg wet	3.333		44	40-140			
4-Nitrophenol	3.73	1.67	mg/kg wet	3.333		112	30-130			
Acetophenone	1.61	0.667	mg/kg wet	3.333		48	40-140			
Aniline	1.06	1.67	mg/kg wet	3.333		32	40-140			B-
Azobenzene	2.13	0.333	mg/kg wet	3.333		64	40-140			
bis(2-Chloroethoxy)methane	1.74	0.333	mg/kg wet	3.333		52	40-140			
bis(2-Chloroethyl)ether	1.39	0.333	mg/kg wet	3.333		42	40-140			
bis(2-chloroisopropyl)Ether	1.19	0.333	mg/kg wet	3.333		36	40-140			B-
bis(2-Ethylhexyl)phthalate	2.61	0.333	mg/kg wet	3.333		78	40-140			
Butylbenzylphthalate	2.69	0.333	mg/kg wet	3.333		81	40-140			
Dibenzofuran	2.16	0.333	mg/kg wet	3.333		65	40-140			
Diethylphthalate	2.56	0.333	mg/kg wet	3.333		77	40-140			
Dimethylphthalate	2.24	0.333	mg/kg wet	3.333		67	40-140			
Di-n-butylphthalate	2.61	0.333	mg/kg wet	3.333		78	40-140			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503448

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D Semi-Volatile Organic Compounds										
Batch CD50205 - 3546										
Di-n-octylphthalate	2.71	0.333	mg/kg wet	3.333		81	40-140			
Hexachlorobutadiene	1.83	0.333	mg/kg wet	3.333		55	40-140			
Hexachloroethane	1.50	0.333	mg/kg wet	3.333		45	40-140			
Isophorone	1.72	0.333	mg/kg wet	3.333		52	40-140			
Nitrobenzene	1.65	0.333	mg/kg wet	3.333		49	40-140			
N-Nitrosodimethylamine	1.34	0.333	mg/kg wet	3.333		40	40-140			
Pentachlorophenol	2.98	1.67	mg/kg wet	3.333		89	30-130			
Phenol	1.81	0.333	mg/kg wet	3.333		54	30-130			
Surrogate: 1,2-Dichlorobenzene-d4	*1.67*		mg/kg wet	*3.333*		*50*	*30-130*			
Surrogate: 2,4,6-Tribromophenol	*5.01*		mg/kg wet	*5.000*		*100*	*30-130*			
Surrogate: 2-Chlorophenol-d4	*2.44*		mg/kg wet	*5.000*		*49*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*2.18*		mg/kg wet	*3.333*		*65*	*30-130*			
Surrogate: 2-Fluorophenol	*2.39*		mg/kg wet	*5.000*		*48*	*30-130*			
Surrogate: Nitrobenzene-d5	*1.67*		mg/kg wet	*3.333*		*50*	*30-130*			
Surrogate: Phenol-d6	*2.49*		mg/kg wet	*5.000*		*50*	*30-130*			
Surrogate: p-Terphenyl-d14	*3.27*		mg/kg wet	*3.333*		*98*	*30-130*			
LCS Dup										
1,2,4-Trichlorobenzene	1.79	0.333	mg/kg wet	3.333		54	40-140	4	30	
1,2-Dichlorobenzene	1.61	0.333	mg/kg wet	3.333		48	40-140	12	30	
1,3-Dichlorobenzene	1.62	0.333	mg/kg wet	3.333		49	40-140	12	30	
1,4-Dichlorobenzene	1.61	0.333	mg/kg wet	3.333		48	40-140	11	30	
2,4,5-Trichlorophenol	2.48	0.333	mg/kg wet	3.333		74	30-130	3	30	
2,4,6-Trichlorophenol	2.45	0.333	mg/kg wet	3.333		73	30-130	5	30	
2,4-Dichlorophenol	2.07	0.333	mg/kg wet	3.333		62	30-130	4	30	
2,4-Dimethylphenol	2.09	0.333	mg/kg wet	3.333		63	30-130	0.6	30	
2,4-Dinitrophenol	2.14	1.67	mg/kg wet	3.333		64	30-130	0.2	30	
2,4-Dinitrotoluene	2.42	0.333	mg/kg wet	3.333		73	40-140	2	30	
2,6-Dinitrotoluene	2.31	0.333	mg/kg wet	3.333		69	40-140	2	30	
2-Chloronaphthalene	1.76	0.333	mg/kg wet	3.333		53	40-140	2	30	
2-Chlorophenol	1.64	0.333	mg/kg wet	3.333		49	30-130	10	30	
2-Methylphenol	1.76	0.333	mg/kg wet	3.333		53	30-130	7	30	
2-Nitrophenol	1.84	0.333	mg/kg wet	3.333		55	30-130	1	30	
3,3´-Dichlorobenzidine	1.59	0.667	mg/kg wet	3.333		48	40-140	23	30	
3+4-Methylphenol	4.53	0.667	mg/kg wet	6.667		68	30-130	9	30	
4-Bromophenyl-phenylether	2.57	0.333	mg/kg wet	3.333		77	40-140	2	30	
4-Chloroaniline	1.50	0.667	mg/kg wet	3.333		45	40-140	3	30	
4-Nitrophenol	3.50	1.67	mg/kg wet	3.333		105	30-130	6	30	
Acetophenone	1.80	0.667	mg/kg wet	3.333		54	40-140	11	30	
Aniline	1.07	1.67	mg/kg wet	3.333		32	40-140	1	30	B-
Azobenzene	2.16	0.333	mg/kg wet	3.333		65	40-140	2	30	
bis(2-Chloroethoxy)methane	1.78	0.333	mg/kg wet	3.333		54	40-140	2	30	
bis(2-Chloroethyl)ether	1.46	0.333	mg/kg wet	3.333		44	40-140	5	30	
bis(2-chloroisopropyl)Ether	1.33	0.333	mg/kg wet	3.333		40	40-140	11	30	
bis(2-Ethylhexyl)phthalate	2.55	0.333	mg/kg wet	3.333		77	40-140	2	30	
Butylbenzylphthalate	2.63	0.333	mg/kg wet	3.333		79	40-140	2	30	

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503448

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D Semi-Volatile Organic Compounds										
Batch CD50205 - 3546										
Dibenzofuran	2.23	0.333	mg/kg wet	3.333		67	40-140	3	30	
Diethylphthalate	2.53	0.333	mg/kg wet	3.333		76	40-140	1	30	
Dimethylphthalate	2.27	0.333	mg/kg wet	3.333		68	40-140	1	30	
Di-n-butylphthalate	2.50	0.333	mg/kg wet	3.333		75	40-140	4	30	
Di-n-octylphthalate	2.60	0.333	mg/kg wet	3.333		78	40-140	4	30	
Hexachlorobutadiene	1.91	0.333	mg/kg wet	3.333		57	40-140	4	30	
Hexachloroethane	1.74	0.333	mg/kg wet	3.333		52	40-140	15	30	
Isophorone	1.77	0.333	mg/kg wet	3.333		53	40-140	3	30	
Nitrobenzene	1.74	0.333	mg/kg wet	3.333		52	40-140	6	30	
N-Nitrosodimethylamine	1.60	0.333	mg/kg wet	3.333		48	40-140	17	30	
Pentachlorophenol	2.89	1.67	mg/kg wet	3.333		87	30-130	3	30	
Phenol	1.74	0.333	mg/kg wet	3.333		52	30-130	4	30	
Surrogate: 1,2-Dichlorobenzene-d4	*1.75*		mg/kg wet	*3.333*		*53*	*30-130*			
Surrogate: 2,4,6-Tribromophenol	*4.63*		mg/kg wet	*5.000*		*93*	*30-130*			
Surrogate: 2-Chlorophenol-d4	*2.65*		mg/kg wet	*5.000*		*53*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*2.10*		mg/kg wet	*3.333*		*63*	*30-130*			
Surrogate: 2-Fluorophenol	*2.52*		mg/kg wet	*5.000*		*50*	*30-130*			
Surrogate: Nitrobenzene-d5	*1.67*		mg/kg wet	*3.333*		*50*	*30-130*			
Surrogate: Phenol-d6	*2.63*		mg/kg wet	*5.000*		*53*	*30-130*			
Surrogate: p-Terphenyl-d14	*3.00*		mg/kg wet	*3.333*		*90*	*30-130*			
8270D(SIM) Polynuclear Aromatic Hydrocarbons										
Batch CC52823 - 3546										
Blank										
2-Methylnaphthalene	ND	0.012	mg/kg wet							
Acenaphthene	ND	0.012	mg/kg wet							
Acenaphthylene	ND	0.012	mg/kg wet							
Anthracene	ND	0.012	mg/kg wet							
Benzo(a)anthracene	ND	0.012	mg/kg wet							
Benzo(a)pyrene	ND	0.012	mg/kg wet							
Benzo(b)fluoranthene	ND	0.012	mg/kg wet							
Benzo(g,h,i)perylene	ND	0.012	mg/kg wet							
Benzo(k)fluoranthene	ND	0.012	mg/kg wet							
Chrysene	ND	0.012	mg/kg wet							
Dibenzo(a,h)Anthracene	ND	0.012	mg/kg wet							
Fluoranthene	ND	0.012	mg/kg wet							
Fluorene	ND	0.012	mg/kg wet							
Hexachlorobenzene	ND	0.012	mg/kg wet							
Indeno(1,2,3-cd)Pyrene	ND	0.012	mg/kg wet							
Naphthalene	ND	0.012	mg/kg wet							
Phenanthrene	ND	0.012	mg/kg wet							
Pyrene	ND	0.012	mg/kg wet							
Surrogate: 1,2-Dichlorobenzene-d4	*0.127*		mg/kg wet	*0.2500*		*51*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*0.158*		mg/kg wet	*0.2500*		*63*	*30-130*			
Surrogate: Nitrobenzene-d5	*0.147*		mg/kg wet	*0.2500*		*59*	*30-130*			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503448

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D(SIM) Polynuclear Aromatic Hydrocarbons										
Batch CC52823 - 3546										
Surrogate: p-Terphenyl-d14	*0.207*		mg/kg wet	*0.2500*		*83*	*30-130*			
LCS										
2-Methylnaphthalene	0.125	0.012	mg/kg wet	0.2000		63	40-140			
Acenaphthene	0.147	0.012	mg/kg wet	0.2000		73	40-140			
Acenaphthylene	0.146	0.012	mg/kg wet	0.2000		73	40-140			
Anthracene	0.144	0.012	mg/kg wet	0.2000		72	40-140			
Benzo(a)anthracene	0.151	0.012	mg/kg wet	0.2000		75	40-140			
Benzo(a)pyrene	0.155	0.012	mg/kg wet	0.2000		77	40-140			
Benzo(b)fluoranthene	0.161	0.012	mg/kg wet	0.2000		80	40-140			
Benzo(g,h,i)perylene	0.130	0.012	mg/kg wet	0.2000		65	40-140			
Benzo(k)fluoranthene	0.162	0.012	mg/kg wet	0.2000		81	40-140			
Chrysene	0.162	0.012	mg/kg wet	0.2000		81	40-140			
Dibenzo(a,h)Anthracene	0.142	0.012	mg/kg wet	0.2000		71	40-140			
Fluoranthene	0.154	0.012	mg/kg wet	0.2000		77	40-140			
Fluorene	0.155	0.012	mg/kg wet	0.2000		78	40-140			
Hexachlorobenzene	0.250	0.012	mg/kg wet	0.2000		125	40-140			
Indeno(1,2,3-cd)Pyrene	0.137	0.012	mg/kg wet	0.2000		69	40-140			
Naphthalene	0.127	0.012	mg/kg wet	0.2000		63	40-140			
Phenanthrene	0.142	0.012	mg/kg wet	0.2000		71	40-140			
Pyrene	0.157	0.012	mg/kg wet	0.2000		79	40-140			
Surrogate: 1,2-Dichlorobenzene-d4	*0.175*		mg/kg wet	*0.2500*		*70*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*0.216*		mg/kg wet	*0.2500*		*86*	*30-130*			
Surrogate: Nitrobenzene-d5	*0.208*		mg/kg wet	*0.2500*		*83*	*30-130*			
Surrogate: p-Terphenyl-d14	*0.234*		mg/kg wet	*0.2500*		*93*	*30-130*			
LCS Dup										
2-Methylnaphthalene	0.120	0.012	mg/kg wet	0.2000		60	40-140	5	30	
Acenaphthene	0.139	0.012	mg/kg wet	0.2000		69	40-140	6	30	
Acenaphthylene	0.138	0.012	mg/kg wet	0.2000		69	40-140	6	30	
Anthracene	0.141	0.012	mg/kg wet	0.2000		71	40-140	2	30	
Benzo(a)anthracene	0.145	0.012	mg/kg wet	0.2000		73	40-140	4	30	
Benzo(a)pyrene	0.152	0.012	mg/kg wet	0.2000		76	40-140	2	30	
Benzo(b)fluoranthene	0.162	0.012	mg/kg wet	0.2000		81	40-140	0.6	30	
Benzo(g,h,i)perylene	0.125	0.012	mg/kg wet	0.2000		62	40-140	4	30	
Benzo(k)fluoranthene	0.158	0.012	mg/kg wet	0.2000		79	40-140	2	30	
Chrysene	0.156	0.012	mg/kg wet	0.2000		78	40-140	4	30	
Dibenzo(a,h)Anthracene	0.136	0.012	mg/kg wet	0.2000		68	40-140	4	30	
Fluoranthene	0.148	0.012	mg/kg wet	0.2000		74	40-140	4	30	
Fluorene	0.149	0.012	mg/kg wet	0.2000		75	40-140	4	30	
Hexachlorobenzene	0.170	0.012	mg/kg wet	0.2000		85	40-140	39	30	D+
Indeno(1,2,3-cd)Pyrene	0.132	0.012	mg/kg wet	0.2000		66	40-140	4	30	
Naphthalene	0.119	0.012	mg/kg wet	0.2000		59	40-140	7	30	
Phenanthrene	0.137	0.012	mg/kg wet	0.2000		69	40-140	3	30	
Pyrene	0.155	0.012	mg/kg wet	0.2000		78	40-140	2	30	
Surrogate: 1,2-Dichlorobenzene-d4	*0.151*		mg/kg wet	*0.2500*		*61*	*30-130*			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503448

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D(SIM) Polynuclear Aromatic Hydrocarbons										
Batch CC52823 - 3546										
Surrogate: 2-Fluorobiphenyl	*0.186*		mg/kg wet	*0.2500*		*74*	*30-130*			
Surrogate: Nitrobenzene-d5	*0.178*		mg/kg wet	*0.2500*		*71*	*30-130*			
Surrogate: p-Terphenyl-d14	*0.218*		mg/kg wet	*0.2500*		*87*	*30-130*			
Classical Chemistry										
Batch CC52807 - General Preparation										
Blank										
Hexavalent Chromium	ND	0.7	mg/kg wet							
LCS										
Hexavalent Chromium	32.4	0.7	mg/kg wet	33.32		97	80-120			
LCS Dup										
Hexavalent Chromium	32.6	0.7	mg/kg wet	33.32		98	80-120	0.5	20	
Reference										
Hexavalent Chromium	99.8	2.0	mg/kg wet	125.0		80	61-139			
Batch CC53003 - General Preparation										
Blank										
Reactive Cyanide	ND	2.0	mg/kg							
Reactive Sulfide	ND	2.0	mg/kg							
LCS										
Reactive Cyanide	3.8	2.0	mg/kg	100.3		4	0.68-5.41			
Reactive Sulfide	0.2	2.0	mg/kg	10.00		2	0-44			
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CC52711 - 3546										
Blank										
C19-C36 Aliphatics1	ND	15.0	mg/kg wet							
C9-C18 Aliphatics1	ND	15.0	mg/kg wet							
Decane (C10)	ND	0.5	mg/kg wet							
Docosane (C22)	ND	0.5	mg/kg wet							
Dodecane (C12)	ND	0.5	mg/kg wet							
Eicosane (C20)	ND	0.5	mg/kg wet							
Hexacosane (C26)	ND	0.5	mg/kg wet							
Hexadecane (C16)	ND	0.5	mg/kg wet							
Hexatriacontane (C36)	ND	0.5	mg/kg wet							
Nonadecane (C19)	ND	0.5	mg/kg wet							
Nonane (C9)	ND	0.5	mg/kg wet							
Octacosane (C28)	ND	0.5	mg/kg wet							
Octadecane (C18)	ND	0.5	mg/kg wet							
Tetracosane (C24)	ND	0.5	mg/kg wet							
Tetradecane (C14)	ND	0.5	mg/kg wet							
Triacontane (C30)	ND	0.5	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503448

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CC52711 - 3546										
Surrogate: 1-Chlorooctadecane	*1.20*		mg/kg wet	*2.000*		*60*	*40-140*			
Blank										
2-Methylnaphthalene	ND	0.20	mg/kg wet							
Acenaphthene	ND	0.40	mg/kg wet							
Acenaphthylene	ND	0.20	mg/kg wet							
Anthracene	ND	0.40	mg/kg wet							
Benzo(a)anthracene	ND	0.40	mg/kg wet							
Benzo(a)pyrene	ND	0.40	mg/kg wet							
Benzo(b)fluoranthene	ND	0.40	mg/kg wet							
Benzo(g,h,i)perylene	ND	0.40	mg/kg wet							
Benzo(k)fluoranthene	ND	0.40	mg/kg wet							
C11-C22 Unadjusted Aromatics1	ND	15.0	mg/kg wet							
Chrysene	ND	0.40	mg/kg wet							
Dibenzo(a,h)Anthracene	ND	0.20	mg/kg wet							
Fluoranthene	ND	0.40	mg/kg wet							
Fluorene	ND	0.40	mg/kg wet							
Indeno(1,2,3-cd)Pyrene	ND	0.40	mg/kg wet							
Naphthalene	ND	0.40	mg/kg wet							
Phenanthrene	ND	0.40	mg/kg wet							
Pyrene	ND	0.40	mg/kg wet							
Surrogate: 2-Bromonaphthalene	*1.20*		mg/kg wet	*2.000*		*60*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*1.16*		mg/kg wet	*2.000*		*58*	*40-140*			
Surrogate: O-Terphenyl	*1.49*		mg/kg wet	*2.000*		*74*	*40-140*			
LCS										
C19-C36 Aliphatics1	14.1	15.0	mg/kg wet	16.00		88	40-140			
C9-C18 Aliphatics1	8.1	15.0	mg/kg wet	12.00		68	40-140			
Decane (C10)	1.0	0.5	mg/kg wet	2.000		50	40-140			
Docosane (C22)	1.5	0.5	mg/kg wet	2.000		75	40-140			
Dodecane (C12)	1.0	0.5	mg/kg wet	2.000		51	40-140			
Eicosane (C20)	1.5	0.5	mg/kg wet	2.000		73	40-140			
Hexacosane (C26)	1.5	0.5	mg/kg wet	2.000		77	40-140			
Hexadecane (C16)	1.4	0.5	mg/kg wet	2.000		68	40-140			
Hexatriacontane (C36)	1.5	0.5	mg/kg wet	2.000		75	40-140			
Nonadecane (C19)	1.5	0.5	mg/kg wet	2.000		74	40-140			
Nonane (C9)	0.8	0.5	mg/kg wet	2.000		41	30-140			
Octacosane (C28)	1.5	0.5	mg/kg wet	2.000		75	40-140			
Octadecane (C18)	1.4	0.5	mg/kg wet	2.000		71	40-140			
Tetracosane (C24)	1.4	0.5	mg/kg wet	2.000		72	40-140			
Tetradecane (C14)	1.2	0.5	mg/kg wet	2.000		61	40-140			
Triacontane (C30)	1.5	0.5	mg/kg wet	2.000		74	40-140			
Surrogate: 1-Chlorooctadecane	*1.15*		mg/kg wet	*2.000*		*58*	*40-140*			
LCS										
2-Methylnaphthalene	1.32	0.20	mg/kg wet	2.000		66	40-140			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503448

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CC52711 - 3546										
Acenaphthene	1.48	0.40	mg/kg wet	2.000		74	40-140			
Acenaphthylene	1.48	0.20	mg/kg wet	2.000		74	40-140			
Anthracene	1.72	0.40	mg/kg wet	2.000		86	40-140			
Benzo(a)anthracene	1.71	0.40	mg/kg wet	2.000		85	40-140			
Benzo(a)pyrene	1.81	0.40	mg/kg wet	2.000		90	40-140			
Benzo(b)fluoranthene	1.63	0.40	mg/kg wet	2.000		82	40-140			
Benzo(g,h,i)perylene	1.66	0.40	mg/kg wet	2.000		83	40-140			
Benzo(k)fluoranthene	1.66	0.40	mg/kg wet	2.000		83	40-140			
C11-C22 Unadjusted Aromatics1	30.2	15.0	mg/kg wet	34.00		89	40-140			
Chrysene	1.74	0.40	mg/kg wet	2.000		87	40-140			
Dibenzo(a,h)Anthracene	1.58	0.20	mg/kg wet	2.000		79	40-140			
Fluoranthene	1.66	0.40	mg/kg wet	2.000		83	40-140			
Fluorene	1.56	0.40	mg/kg wet	2.000		78	40-140			
Indeno(1,2,3-cd)Pyrene	1.63	0.40	mg/kg wet	2.000		81	40-140			
Naphthalene	1.21	0.40	mg/kg wet	2.000		60	40-140			
Phenanthrene	1.66	0.40	mg/kg wet	2.000		83	40-140			
Pyrene	1.68	0.40	mg/kg wet	2.000		84	40-140			
Surrogate: 2-Bromonaphthalene	*2.16*		mg/kg wet	*2.000*		*108*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*2.08*		mg/kg wet	*2.000*		*104*	*40-140*			
Surrogate: O-Terphenyl	*1.50*		mg/kg wet	*2.000*		*75*	*40-140*			
LCS										
2-Methylnaphthalene Breakthrough	0.0		%				0-5			
Naphthalene Breakthrough	0.0		%				0-5			
LCS Dup										
C19-C36 Aliphatics1	13.5	15.0	mg/kg wet	16.00		84	40-140	4	25	
C9-C18 Aliphatics1	7.9	15.0	mg/kg wet	12.00		66	40-140	2	25	
Decane (C10)	1.0	0.5	mg/kg wet	2.000		50	40-140	1	25	
Docosane (C22)	1.5	0.5	mg/kg wet	2.000		73	40-140	3	25	
Dodecane (C12)	1.0	0.5	mg/kg wet	2.000		50	40-140	2	25	
Eicosane (C20)	1.4	0.5	mg/kg wet	2.000		71	40-140	3	25	
Hexacosane (C26)	1.5	0.5	mg/kg wet	2.000		75	40-140	2	25	
Hexadecane (C16)	1.3	0.5	mg/kg wet	2.000		66	40-140	3	25	
Hexatriacontane (C36)	1.5	0.5	mg/kg wet	2.000		73	40-140	2	25	
Nonadecane (C19)	1.4	0.5	mg/kg wet	2.000		72	40-140	3	25	
Nonane (C9)	0.8	0.5	mg/kg wet	2.000		41	30-140	1	25	
Octacosane (C28)	1.5	0.5	mg/kg wet	2.000		73	40-140	2	25	
Octadecane (C18)	1.4	0.5	mg/kg wet	2.000		69	40-140	3	25	
Tetracosane (C24)	1.4	0.5	mg/kg wet	2.000		71	40-140	2	25	
Tetradecane (C14)	1.2	0.5	mg/kg wet	2.000		59	40-140	4	25	
Triacontane (C30)	1.4	0.5	mg/kg wet	2.000		72	40-140	2	25	
Surrogate: 1-Chlorooctadecane	*1.07*		mg/kg wet	*2.000*		*54*	*40-140*			
LCS Dup										
2-Methylnaphthalene	1.23	0.20	mg/kg wet	2.000		61	40-140	8	20	

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503448

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CC52711 - 3546										
Acenaphthene	1.36	0.40	mg/kg wet	2.000		68	40-140	9	20	
Acenaphthylene	1.34	0.20	mg/kg wet	2.000		67	40-140	10	20	
Anthracene	1.62	0.40	mg/kg wet	2.000		81	40-140	6	20	
Benzo(a)anthracene	1.63	0.40	mg/kg wet	2.000		81	40-140	5	20	
Benzo(a)pyrene	1.73	0.40	mg/kg wet	2.000		86	40-140	4	20	
Benzo(b)fluoranthene	1.57	0.40	mg/kg wet	2.000		78	40-140	4	20	
Benzo(g,h,i)perylene	1.58	0.40	mg/kg wet	2.000		79	40-140	5	20	
Benzo(k)fluoranthene	1.61	0.40	mg/kg wet	2.000		80	40-140	3	20	
C11-C22 Unadjusted Aromatics1	29.0	15.0	mg/kg wet	34.00		85	40-140	4	25	
Chrysene	1.67	0.40	mg/kg wet	2.000		84	40-140	4	20	
Dibenzo(a,h)Anthracene	1.50	0.20	mg/kg wet	2.000		75	40-140	5	20	
Fluoranthene	1.63	0.40	mg/kg wet	2.000		82	40-140	2	20	
Fluorene	1.49	0.40	mg/kg wet	2.000		75	40-140	4	20	
Indeno(1,2,3-cd)Pyrene	1.56	0.40	mg/kg wet	2.000		78	40-140	4	20	
Naphthalene	1.16	0.40	mg/kg wet	2.000		58	40-140	4	20	
Phenanthrene	1.59	0.40	mg/kg wet	2.000		79	40-140	4	20	
Pyrene	1.61	0.40	mg/kg wet	2.000		80	40-140	4	20	
Surrogate: 2-Bromonaphthalene	*1.95*		mg/kg wet	*2.000*		*98*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*1.87*		mg/kg wet	*2.000*		*93*	*40-140*			
Surrogate: O-Terphenyl	*1.43*		mg/kg wet	*2.000*		*71*	*40-140*			
LCS Dup										
2-Methylnaphthalene Breakthrough	0.0		%				0-5		200	
Naphthalene Breakthrough	0.0		%				0-5		200	

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase ESS Laboratory Work Order: 1503448

Notes and Definitions

P	Percent difference between primary and confirmation results exceeds 40% (P).
B-	Blank Spike recovery is below lower control limit (B-).
B+	Blank Spike recovery is above upper control limit (B+).
C-	Continuing Calibration recovery is below lower control limit (C-).
C+	Continuing Calibration recovery is above upper control limit (C+).
D	Diluted.
D+	Relative percent difference for duplicate is outside of criteria (D+).
E	Reported above the quantitation limit; Estimated value (E).
EL	Elevated Method Reporting Limits due to sample matrix (EL).
H	Estimated value. Sample hold times were exceeded (H).
B	Present in Method Blank (B).
LC	Lower value is used due to matrix interferences (LC).
Z-10c	Soil pH measured in water at 17.3 ºC.
PT	Pentachlorophenol tailing factor > 2.
S-	Surrogate recovery(ies) below lower control limit (S-).
SD	Surrogate recovery(ies) diluted below the MRL (SD).
U	Analyte included in the analysis, but not detected
WL	Results obtained from a deionized water leach of the sample.
Z-08	See Attached
Z-10	Soil pH measured in water at 13.7 ºC.
Z-10a	Soil pH measured in water at 14.8 ºC.
Z-10b	Soil pH measured in water at 15.0 ºC.
IM	Internal Standard(s) outside of criteria due to matrix (UCM/coelution is present) (IM).
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	Detection Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report
[2C]	Result was taken from the second column. Dual column analysis.

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503448

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Department of Defense (DoD) Environmental Laboratory Accreditation Program (ELAP)
A2LA Accredited: Testing Cert# 2864.01
http://www.a2la.org/scopepdf/2864-01.pdf

Rhode Island Potable and Non Potable Water: LAI00179
http://www.health.ri.gov/find/labs/analytical/ESS.pdf

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750
http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI0002
http://www.maine.gov/dhhs/mecdc/environmental-health/water/dwp-services/labcert/documents/AllLabs.xls

Massachusetts Potable and Non Potable Water: M-RI002
http://public.dep.state.ma.us/Labcert/Labcert.aspx

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424
http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313
http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006
http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

United States Department of Agriculture Soil Permit: P330-12-00139

Pennsylvania: 68-01752
http://www.depweb.state.pa.us/portal/server.pt/community/labs/13780/laboratory_accreditation_program/590095

CHEMISTRY

A2LA Accredited: Testing Cert # 2864.01
Lead in Paint, Phthalates, Lead in Children's Metals Products (Including Jewelry)
http://www.A2LA.org/dirsearchnew/newsearch.cfm

CPSC ID# 1141
Lead Paint, Lead in Children's Metals Jewelry
http://www.cpsc.gov/cgi-bin/labapplist.aspx

LABORATORY TESTING DATA SHEET

Project Name Wynn Everett | Project Location Everett, MA | Reviewed By

Project No. 01.0171521.13 **ESS-1503448** | Assigned By D. Scanlon

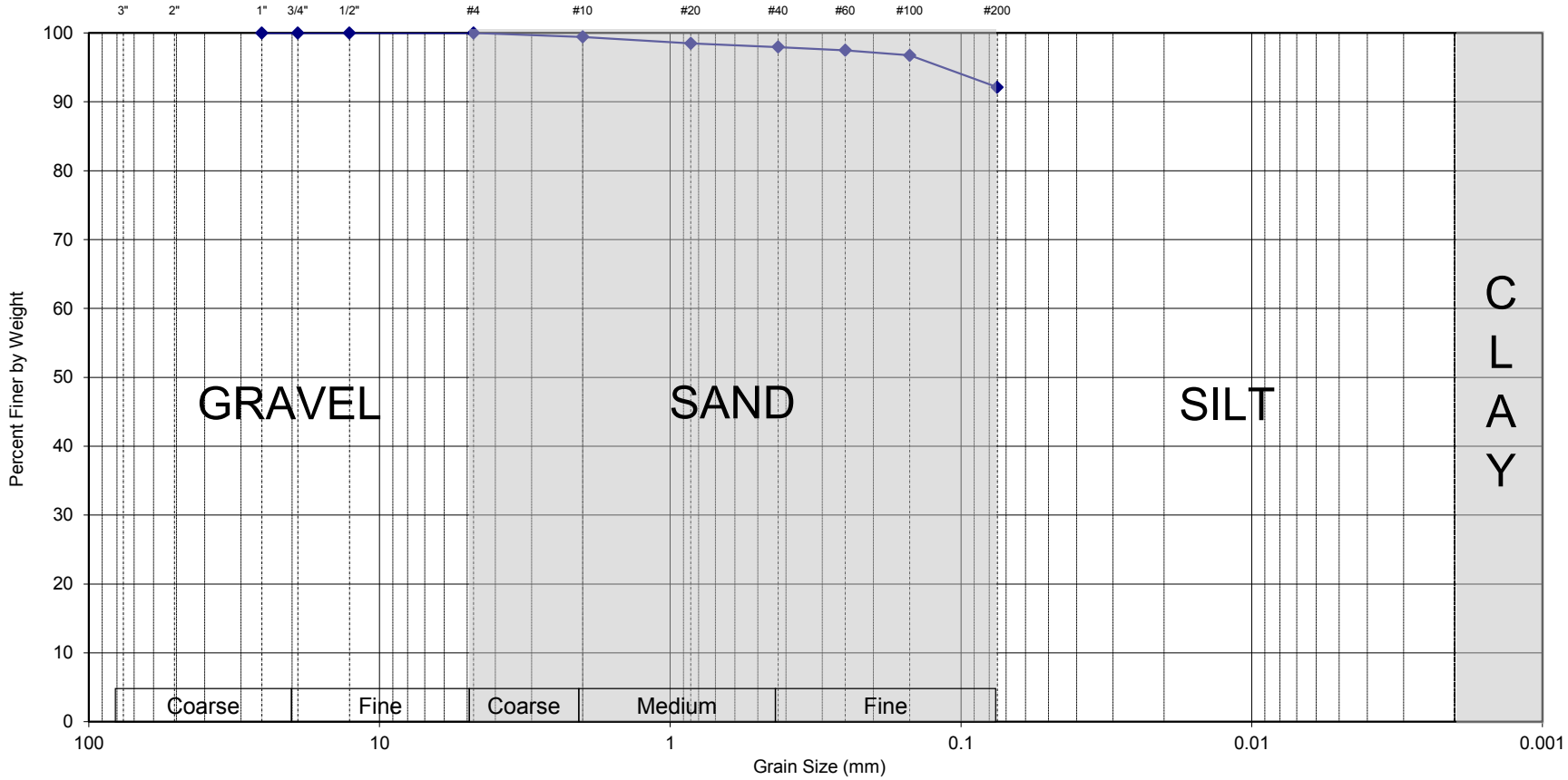
Project Manager D. Leone/C. Taylor | Report Date 3/27/15 | Date Reviewed *3/27/15*

Boring ID	Depth (ft)	ESS Sample ID	Lab No.	Identification Tests								Strength Tests				Laboratory Log and Soil Description
				Water Content %	LL %	PL %	Sieve -200 %	Hyd -2µ %	ORG %	G_s	Dry unit wt. pcf	Torvane or Type Test	Failure Criteria	$\sigma_1 - \sigma_3$ psf	Strain %	
GZ-206	0-3	1503448-01	15-S-243	204.7			92.1									Dark gray Organic SILT, trace Sand
GZ-205	0-3	1503448-05	15-S-244	198.6			87.4									Dark gray Organic SILT, little f-m Sand
GZ-213	0-3	1503448-08	15-S-245	56.1			69.7									Dark gray Organic SILT, some f-c Sand
GZ-219	0-3	1503448-14	15-S-246	61.8			90.5									Dark gray Organic SILT, trace Sand

THIELSCH ENGINEERING

195 Frances Avenue
Cranston, RI 02910 401-467-6454

U.S. STANDARD SIEVE AND HYDROMETER



Gravel	Sand	Fines
0.0%	7.9%	92.1%

Lab #	Sample ID	ESS Sample ID	Sample Date	Description	WC	LL	PL	PI
15-S-243	B-206	1503448-01	3/25/15	Dark gray Organic SILT, trace Sand	205			

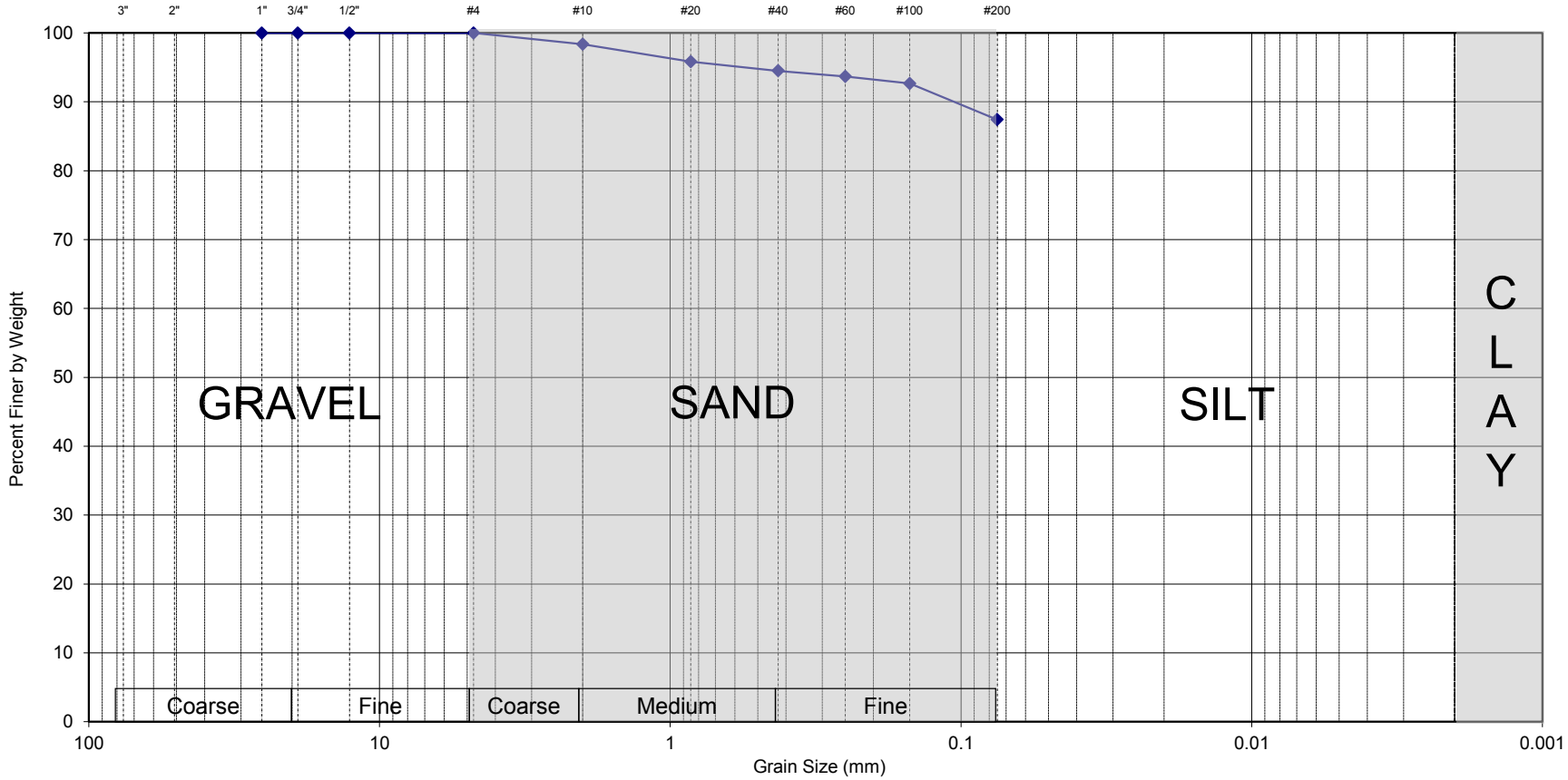
Sieve Size	% Passing
¾"	100.0
½"	100.0
#4	100.0
#10	99.4
#20	98.5
#40	98.0
#60	97.5
#100	96.8
#200	92.1

THIELSCH ENGINEERING
195 Frances Ave., Cranston, RI 02109
401-467-6454

Wynn Everett
ESS Project 1503447
GZA File # 01.0171521.13

Tested by: MK/MS Date: 3/27/15
Reviewed by: MBP Date: 3/27/15

U.S. STANDARD SIEVE AND HYDROMETER



Gravel	Sand	Fines
0.0%	12.6%	87.4%

Lab #	Sample ID	ESS Sample ID	Sample Date	Description	WC	LL	PL	PI
15-S-244	B-205	1503448-05	3/25/15	Dark gray Organic SILT, little f-m Sand	199			

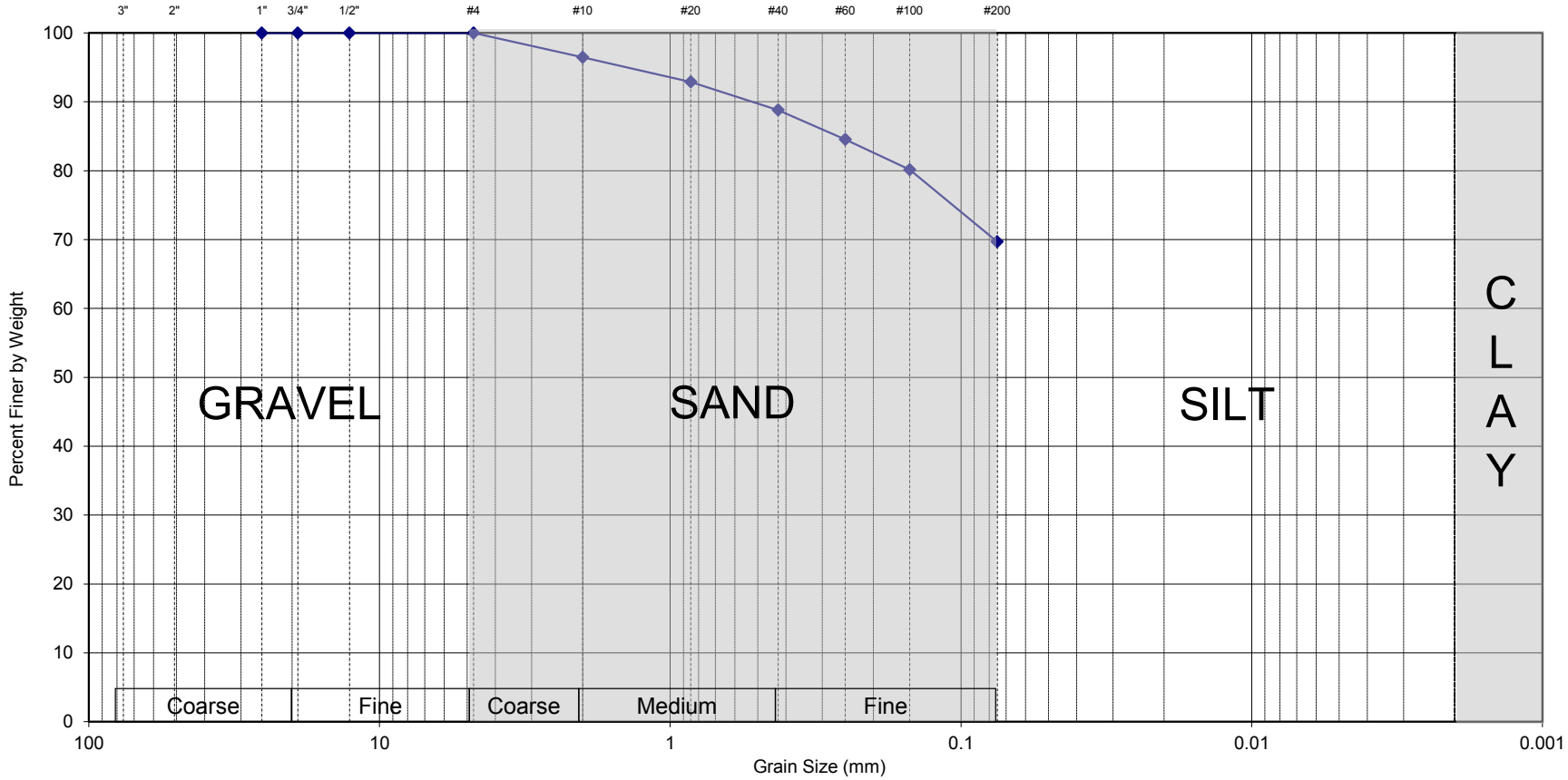
Sieve Size	% Passing
¾"	100.0
½"	100.0
#4	100.0
#10	98.3
#20	95.8
#40	94.5
#60	93.7
#100	92.7
#200	87.4

THIELSCH ENGINEERING
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401-467-6454

Wynn Everett
ESS Project 1503447
GZA File # 01.0171521.13

Tested by:	MK/MS	Date:	3/27/15
Reviewed by:	MBP	Date:	3/27/15

U.S. STANDARD SIEVE AND HYDROMETER



Gravel	Sand	Fines
0.0%	30.3%	69.7%

Lab #	Sample ID	ESS Sample ID	Sample Date	Description	WC	LL	PL	PI
15-S-245	B-213	1503448-08	3/25/15	Dark gray Organic SILT, some f-c Sand	56			

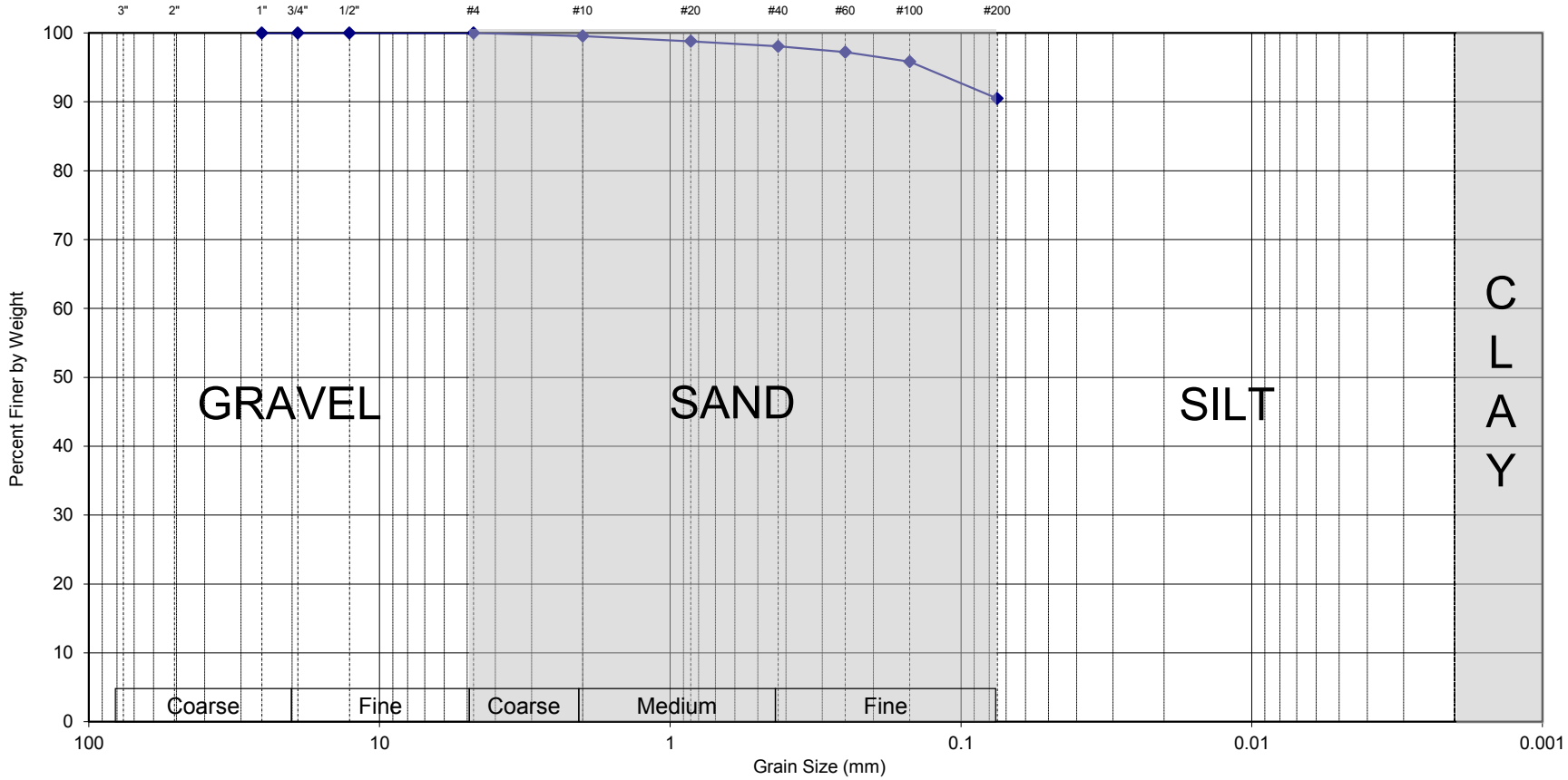
Sieve Size	% Passing
¾"	100.0
½"	100.0
#4	100.0
#10	96.5
#20	92.9
#40	88.8
#60	84.6
#100	80.2
#200	69.7

THIELSCH ENGINEERING
195 Frances Ave., Cranston, RI 02109
401-467-6454

Wynn Everett
ESS Project 1503447
GZA File # 01.0171521.13

Tested by:	MK/MS	Date:	3/27/15
Reviewed by:	MBP	Date:	3/27/15

U.S. STANDARD SIEVE AND HYDROMETER



Gravel	Sand	Fines
0.0%	9.5%	90.5%

Lab #	Sample ID	ESS Sample ID	Sample Date	Description	WC	LL	PL	PI
15-S-246	B-219	1503448-14	3/25/15	Dark gray Organic SILT, trace Sand	62			

Sieve Size	% Passing
¾"	100.0
½"	100.0
#4	100.0
#10	99.6
#20	98.8
#40	98.1
#60	97.2
#100	95.8
#200	90.5

THIELSCH ENGINEERING
195 Frances Ave., Cranston, RI 02109
401-467-6454

Wynn Everett
ESS Project 1503447
GZA File # 01.0171521.13

Tested by:	MK/MS	Date:	3/27/15
Reviewed by:	MBP	Date:	3/27/15

SOILS LABORATORY TESTING ASSIGNMENT SHEET

THIELSCH ENGINEERING 401-467-6454 195 Frances Ave., Cranston, RI 02910

Project Name **Wynn Everett** Client _____ Assigned By _____

CTS Project No. **74-14-0002.01** Site Location _____ Collected By _____

ESS Project No. **1503448** Date Assigned _____ Received By _____

Project Manager **Christine Taylor** Date Received _____ Date Required **5 DAY - 4/2/15**

Sample Information					Lab No.	Identification Tests							Permeability		Compaction			Strength		Consol.	Notes
Boring/ Test Pit No.	Sample No.	Depth Ft.	Sample Date	ESS SAMPLE ID		Water Cont. %	LL & PL %	Org. %	Sieve -200 %	Hyd -2μ %	G_s	γ_t pcf	Sand	Clay	Mod.	Std.	CBR	Tor-vane	Type Test $\bar{\sigma}_c$ or σ^c	Cc/ 1+eo	#
						D2216	D4318	D2974	D422		D854		D2434	D5084	D1557	D698	D1883		D2166/ D4767/ D2850	D2435	
GZ-206	0'-3'		3/25/15	1503448-01		X			X												
GZ-205	0'-3'		3/25/15	1503448-05		X			X												
GZ-213	0'-3'		3/25/15	1503448-08		X			X												
GZ-219	0'-3'		3/25/15	1503448-14		X			X												

Notes: _____

Sample and Cooler Receipt Checklist

Client: GZA GeoEnvironmental, Inc.
Client Project ID: _____
Shipped/Delivered Via: ESS Courier

ESS Project ID: 15030448
Date Project Due: 4/2/15
Days For Project: 5 Day

Items to be checked upon receipt:

1. Air Bill Manifest Present?	* No	10. Are the samples properly preserved?	Yes
Air No.:		11. Proper sample containers used?	Yes
2. Were Custody Seals Present?	No	12. Any air bubbles in the VOA vials?	N/A
3. Were Custody Seals Intact?	N/A	13. Holding times exceeded?	No
4. Is Radiation count < 100 CPM?	Yes	14. Sufficient sample volumes?	Yes
5. Is a cooler present?	Yes	15. Any Subcontracting needed?	* Yes
Cooler Temp: **4.2**		16. Are ESS labels on correct containers?	**Yes|No**
Iced With: **Ice**		17. Were samples received intact?	**Yes|No**
6. Was COC included with samples?	Yes	ESS Sample IDs: _____	
7. Was COC signed and dated by client?	Yes	Sub Lab: _____	
8. Does the COC match the sample	Yes	Analysis: _____	
9. Is COC complete and correct?	Yes	TAT: _____	

18. Was there need to call project manager to discuss status? If yes, please explain.
Added -29 to -37 for PCB Drying VF 3/20/15

Who was called?:_____ By whom? _____

Sample Number	Properly Preserved	Container Type	# of Containers	Preservative
1	Yes	4 oz Soil Jar	1	NP
1	Yes	40 ml - VOA	1	MeOH
1	Yes	40 ml - VOA	2	other
1	Yes	8 oz Soil Jar	2	NP
1	Yes	Other Glass	1	NP
2	Yes	8 oz Soil Jar	2	NP
3	Yes	2 oz Soil Jar	1	NP
3	Yes	8 oz Soil Jar	2	NP
4	Yes	2 oz Soil Jar	1	NP
4	Yes	8 oz Soil Jar	2	NP
5	Yes	4 oz Soil Jar	1	NP
5	Yes	40 ml - VOA	1	MeOH
5	Yes	40 ml - VOA	2	other
5	Yes	8 oz Soil Jar	2	NP
5	Yes	Other Glass	1	NP
6	Yes	8 oz Soil Jar	2	NP
7	Yes	2 oz Soil Jar	1	NP
7	Yes	8 oz Soil Jar	2	NP
8	Yes	4 oz Soil Jar	1	NP
8	Yes	40 ml - VOA	1	MeOH
8	Yes	40 ml - VOA	2	other
8	Yes	8 oz Soil Jar	2	NP
8	Yes	Other Glass	1	NP
9	Yes	8 oz Soil Jar	2	NP
10	Yes	8 oz Soil Jar	2	NP

Sample and Cooler Receipt Checklist

Client: GZA GeoEnvironmental, Inc. ESS Project ID: 15030448

11	Yes	2 oz Soil Jar	1	NP
11	Yes	8 oz Soil Jar	2	NP
12	Yes	8 oz Soil Jar	2	NP
13	Yes	2 oz Soil Jar	1	NP
13	Yes	8 oz Soil Jar	2	NP
14	Yes	4 oz Soil Jar	1	NP
14	Yes	40 ml - VOA	1	MeOH
14	Yes	40 ml - VOA	2	other
14	Yes	8 oz Soil Jar	2	NP
14	Yes	Other Glass	1	NP
15	Yes	8 oz Soil Jar	1	NP
16	Yes	8 oz Soil Jar	1	NP
17	Yes	8 oz Soil Jar	1	NP
18	Yes	8 oz Soil Jar	1	NP
19	Yes	8 oz Soil Jar	1	NP
20	Yes	8 oz Soil Jar	1	NP
21	Yes	8 oz Soil Jar	1	NP
22	Yes	8 oz Soil Jar	1	NP
23	Yes	8 oz Soil Jar	1	NP
24	Yes	8 oz Soil Jar	1	NP
25	Yes	8 oz Soil Jar	1	NP
26	Yes	8 oz Soil Jar	1	NP
27	Yes	8 oz Soil Jar	1	NP
28	Yes	8 oz Soil Jar	1	NP
29	Yes	8 oz Soil Jar	1	NP
30	Yes	8 oz Soil Jar	1	NP
31	Yes	8 oz Soil Jar	1	NP
32	Yes	8 oz Soil Jar	1	NP
33	Yes	8 oz Soil Jar	1	NP
34	Yes	8 oz Soil Jar	1	NP
35	Yes	8 oz Soil Jar	1	NP
36	Yes	8 oz Soil Jar	1	NP
37	Yes	8 oz Soil Jar	1	NP

Completed By: _____ Date/Time: 3/30/15 1318

Reviewed By: _____ Date/Time: _____

Sample and Cooler Receipt Checklist

Client: GZA GeoEnvironmental, Inc.
Client Project ID: _____
Shipped/Delivered Via: ESS Courier

ESS Project ID: 15030448
Date Project Due: 4/2/15
Days For Project: 5 Day

Items to be checked upon receipt:

1. Air Bill Manifest Present?	* No	10. Are the samples properly preserved?	Yes
Air No.:		11. Proper sample containers used?	Yes
2. Were Custody Seals Present?	No	12. Any air bubbles in the VOA vials?	N/A
3. Were Custody Seals Intact?	N/A	13. Holding times exceeded?	No
4. Is Radiation count < 100 CPM?	Yes	14. Sufficient sample volumes?	Yes
5. Is a cooler present?	Yes	15. Any Subcontracting needed?	* Yes
Cooler Temp: **4.2**		16. Are ESS labels on correct containers?	Yes No
Iced With: **Ice**		17. Were samples received intact?	Yes No
6. Was COC included with samples?	Yes	ESS Sample IDs:	01, 05, 08, 14
7. Was COC signed and dated by client?	Yes	Sub Lab:	CTS
8. Does the COC match the sample	Yes	Analysis:	Grain Size / % Solids
9. Is COC complete and correct?	Yes	TAT:	5 DAY

18. Was there need to call project manager to discuss status? If yes, please explain.

LL vials frozen @ 1325 on 3/26/15

Who was called?: _____ By whom? _____

Sample Number	Properly Preserved	Container Type	# of Containers	Preservative
1	Yes	4 oz Soil Jar	1	NP
1	Yes	40 ml - VOA	1	MeOH
1	Yes	40 ml - VOA	2	other
1	Yes	8 oz Soil Jar	2	NP
1	Yes	Other Glass	1	NP
2	Yes	8 oz Soil Jar	2	NP
3	Yes	2 oz Soil Jar	1	NP
3	Yes	8 oz Soil Jar	2	NP
4	Yes	2 oz Soil Jar	1	NP
4	Yes	8 oz Soil Jar	2	NP
5	Yes	4 oz Soil Jar	1	NP
5	Yes	40 ml - VOA	1	MeOH
5	Yes	40 ml - VOA	2	other
5	Yes	8 oz Soil Jar	2	NP
5	Yes	Other Glass	1	NP
6	Yes	8 oz Soil Jar	2	NP
7	Yes	2 oz Soil Jar	1	NP
7	Yes	8 oz Soil Jar	2	NP
8	Yes	4 oz Soil Jar	1	NP
8	Yes	40 ml - VOA	1	MeOH
8	Yes	40 ml - VOA	2	other
8	Yes	8 oz Soil Jar	2	NP
8	Yes	Other Glass	1	NP
9	Yes	8 oz Soil Jar	2	NP
10	Yes	8 oz Soil Jar	2	NP

Sample and Cooler Receipt Checklist

Client: GZA GeoEnvironmental, Inc. ESS Project ID: 15030448

11	Yes	2 oz Soil Jar	1	NP
11	Yes	8 oz Soil Jar	2	NP
12	Yes	8 oz Soil Jar	2	NP
13	Yes	2 oz Soil Jar	1	NP
13	Yes	8 oz Soil Jar	2	NP
14	Yes	4 oz Soil Jar	1	NP
14	Yes	40 ml - VOA	1	MeOH
14	Yes	40 ml - VOA	2	other
14	Yes	8 oz Soil Jar	2	NP
14	Yes	Other Glass	1	NP
15	Yes	8 oz Soil Jar	1	NP
16	Yes	8 oz Soil Jar	1	NP
17	Yes	8 oz Soil Jar	1	NP
18	Yes	8 oz Soil Jar	1	NP
19	Yes	8 oz Soil Jar	1	NP
20	Yes	8 oz Soil Jar	1	NP
21	Yes	8 oz Soil Jar	1	NP
22	Yes	8 oz Soil Jar	1	NP
23	Yes	8 oz Soil Jar	1	NP
24	Yes	8 oz Soil Jar	1	NP
25	Yes	8 oz Soil Jar	1	NP
26	Yes	8 oz Soil Jar	1	NP
27	Yes	8 oz Soil Jar	1	NP
28	Yes	8 oz Soil Jar	1	NP

Completed By: _____ Date/Time: 3/26/15 1316

Reviewed By: _____ Date/Time: 3/26/15 1325

ESS Laboratory

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

ESS LAB PROJECT ID: 1503448

Turn Time ___X___Standard Rush_____ Approved By: _____

Reporting Limits -

State where samples were collected: **MA** RI CT NH NJ NY ME Other_____

Is this project for any of the following: (please circle)
MA-MCP CT-RCP NJ-DKQP RGP DOD Other____

Electonic Deliverable Yes____ No____
Format: Excel___ Access___ PDF___ Other_____

GZA Project Manager: David E. Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Ave
Norwood, MA 02062
(781) 278-3700

Project No.: 01.0171521.13 Task 001
Project Name: Wynn - Everett
Contract Pricing ____
Special Pricing WO#: _____

ESS Lab Sample ID	Date	Collection Time	Grab -G Composite-C	Matrix	Sample Identification	# of Containers	MCP-14 Metals	PAHs by SIM	TOC	SVOCs	PCBs (Aroclors)	EPH	Hexavalent Chromium	Reactivity (Sulfide and Cyanide)	VOCs	% water	Grain Size Analysis	Comment #
	3-25-15	1110	G	S	GZ-206 (6'-8')		HOLD			AND		FREEZE						
29 15		1110			GZ-206 (0'-3')		X		X	X	X	X	X	X	X	X	X	(1)
30 16		1145			GZ-205 (0'-0.5')		X	X	X	X	X	X						
					GZ-205 (0.5'-2')		HOLD			AND		FREEZE						
					GZ-205 (2'-4')		HOLD			AND		FREEZE						
3 17					GZ-205 (4'-6')		X	X										
4 18					GZ-205 (6'-8')		X	X										
31 5 19		↓			GZ-205 (0'-3')		X		X	X	X	X	X	X	X	X	X	(1)
32 6 20		1352			GZ-213 (0'-0.5')		X	X	X	X	X	X						
	↓	1352	↓	↓	GZ-213 (0.5'-2')		HOLD			AND		FREEZE						

Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-_____

Container Type: P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filter

Cooler Present ___X___ Yes _____No
Seals Intact _____ Yes _____No NA: X
Cooler Temperature: 3.8°/4.2° on 3/26/15

Sampled by : Daniel Scanlon (Daniel.Scanlon@gza.com)

Comments: (1) TCLP 20X Rule Applies

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Daniel Scanlon	3-25-15 @1800	Bill Bracon 3/26/15 0830	Bill Bracon 3/26/15 0845		3/26/15 1011

Page 127 of 129

Page 3 of 5

ESS Laboratory
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185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

ESS LAB PROJECT ID 1503448

Turn Time ___X___ Standard Rush_____ Approved By: _____

Reporting Limits -

State where samples were collected: **MA** RI CT NH NJ NY ME Other_____

Is this project for any of the following: (please circle)
MA-MCP CT-RCP NJ-DKQP RGP DOD Other____

Electonic Deliverable Yes____ No____
Format: Excel___ Access___ PDF___ Other_____

GZA Project Manager: David E. Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Ave
Norwood, MA 02062
(781) 278-3700

Project No.: 01.0171521.13 Task 001
Project Name: Wynn - Everett
Contract Pricing _____
Special Pricing WO#: _____

	ESS Lab Sample ID	Date	Collection Time	Grab -G Composite-C	Matrix	Sample Identification	# of Containers	MCP-14 Metals	PAHs by SIM	TOC	SVOCs	PCBs (Aroclors)	EPH	Hexavalent Chromium	Reactivity (Sulfide and Cyanide)	VOCs	% water	Grain Size Analysis	Comment #
		3-25-15	1352	G	S	GZ-213 (2'-4')		HOLD AND FREEZE											
	7 21					GZ-213 (4'-6')		X	X										
33	8 22		↓			GZ-213 (0'-3')		X		X	X	X	X	X	X	X	X	X	(1)
34	9 23		1423			GZ-218 (0'-0.5')		X	X	X	X	X	X						
35	10 24					GZ-218 (0.5'-2')		X	X	X	X	X	X						
						GZ-218 (2'-4')		HOLD AND FREEZE											
	11 25		↓			GZ-218 (4'-6')		X	X										
36	12 26		1506			GZ-219 (0'-0.5')		X	X	X	X	X	X						
			↓			GZ-219 (0.5'-2')		HOLD AND FREEZE											
		↓	↓	↓	↓	GZ-219 (2'-4')		HOLD AND FREEZE											

Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-_____

Container Type: P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filter

Cooler Present X Yes ____No
Seals Intact ____Yes ____No NA: X
Cooler Temperature: 3.8°/4.2°IR 3/26/15

Sampled by : Daniel Scanlon (Daniel.Scanlon@gza.com)

Comments: (1) TCLP 20X Rule Applies

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	3/25/15 @1800	3/26/15 0810	0845 3/26/15		3/26/15 1011

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CHAIN OF CUSTODY

ESS LAB PROJECT ID 1503448

Turn Time ___X___ Standard Rush_____ Approved By: _____

Reporting Limits -

State where samples were collected: **MA** RI CT NH NJ NY ME Other_____

Is this project for any of the following: (please circle)
MA-MCP CT-RCP NJ-DKQP RGP DOD Other____

Electonic Deliverable Yes____ No____
Format: Excel___ Access___ PDF___ Other_____

GZA Project Manager: David E. Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Ave
Norwood, MA 02062
(781) 278-3700

Project No.: 01.0171521.13 Task 001
Project Name: Wynn - Everett
Contract Pricing _____
Special Pricing WO#: _____

ESS Lab Sample ID	Date	Collection Time	Grab -G Composite-C	Matrix	Sample Identification	# of Containers	Analysis: MCP-14 Metals	PAHs by SIM	TOC	SVOCs	PCBs (Aroclors)	EPH	Hexavalent Chromium	Reactivity (Sulfide and Cyanide)	VOCs	% water	Grain Size Analysis	Comment #
13 27	3/25/15	1506	G	S	GZ-219 (4'-6')		X	X										
					GZ-219 (6'-8')		HOLD AND FREEZE											
14 28	↓	↓	↓	↓	GZ-219 (0'-3')		X		X	X	X	X	X	X	X	X	X	(1)

Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-_____

Container Type: P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filter

Cooler Present _X_ Yes _____ No

Seals Intact _____ Yes _____ No NA: X

Cooler Temperature: 35°/42°DE W 3/26/15

Sampled by : Daniel Scanlon (Daniel.Scanlon@gza.com)

Comments: (1) TCLP 20X Rule Applies

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	3/25/15 1800	Bill Bisson 3/26/15 0830	Bill Bisson 3/26/15 0845		3/26/15 1011

CERTIFICATE OF ANALYSIS

David E Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Avenue
Norwood, MA 02062

RE: Wynn Everett Sediment Phase (01.0171521.13 Task 001)
ESS Laboratory Work Order Number: 1503480

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.



Laurel Stoddard
Laboratory Director

REVIEWED
By ESS Laboratory at 3:16 pm, Apr 06, 2015

Analytical Summary
The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with NELAC Standards, A2LA and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.

Subcontracted Analyses

TestAmerica Laboratories, Inc. - Burlington, VT	Total Organic Carbon

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503480

SAMPLE RECEIPT

The following samples were received on March 27, 2015 for the analyses specified on the enclosed Chain of Custody Record.

To achieve CAM compliance for MCP data, ESS Laboratory has performed and reviewed all QA/QC Requirements and Performance Standards listed in each method. Holding times and preservation have also been reviewed. All CAM requirements have been achieved unless noted in the project narrative.

Each method has been set-up in the laboratory to reach required MCP standards. The methods for aqueous VOA and Soil Methanol VOA have known limitations for certain analytes. The regulatory standards may not be achieved due to these limitations. In addition, for all methods, matrix interferences, dilutions, and %Solids may elevate method reporting limits above regulatory standards. ESS Laboratory can provide, upon request, a Data Checker (regulatory standard comparison spreadsheet) electronic deliverable which will highlight these exceedances.

For EPH soil samples, the aromatic range results have been corrected for identified cartridge contaminant in accordance with the CAM protocol.

Lab Number	Sample Name	Matrix	Analysis
1503480-01	LC-101 0ft-0.5ft	Soil	TOC-LK
1503480-02	LC-102 0ft-0.5ft	Soil	TOC-LK
1503480-03	LC-102 0.5ft-2ft	Soil	TOC-LK
1503480-04	LC-103 0ft-0.5ft	Soil	TOC-LK
1503480-05	LC-104 0ft-0.5ft	Soil	TOC-LK
1503480-06	LC-105 0ft-0.5ft	Soil	TOC-LK
1503480-07	LC-105 4ft-6ft	Soil	TOC-LK
1503480-08	LC-109 0ft-0.5ft	Soil	TOC-LK
1503480-09	LC-108 0ft-0.5ft	Soil	TOC-LK
1503480-10	LC-108 4ft-6ft	Soil	TOC-LK
1503480-11	LC-107 0ft-0.5ft	Soil	TOC-LK
1503480-12	LC-107 2ft-4ft	Soil	TOC-LK

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503480

PROJECT NARRATIVE

No unusual observations noted.

End of Project Narrative.

DATA USABILITY LINKS

Definitions of Quality Control Parameters

Semivolatile Organics Internal Standard Information

Semivolatile Organics Surrogate Information

Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503480

CURRENT SW-846 METHODOLOGY VERSIONS

Analytical Methods

1010A - Flashpoint
6010C - ICP
6020A - ICP MS
7010 - Graphite Furnace
7196A - Hexavalent Chromium
7470A - Aqueous Mercury
7471B - Solid Mercury
8011 - EDB/DBCP/TCP
8015D - GRO/DRO
8081B - Pesticides
8082A - PCB
8100M - TPH
8151A - Herbicides
8260B - VOA
8270D - SVOA
8270D SIM - SVOA Low Level
9014 - Cyanide
9038 - Sulfate
9040C - Aqueous pH
9045D - Solid pH (Corrosivity)
9050A - Specific Conductance
9056A - Anions (IC)
9060A - TOC
9095B - Paint Filter
MADEP 04-1.1 - EPH / VPH

Prep Methods

3005A - Aqueous ICP and Graphite Furnace Digestion
3020A - Aqueous ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3546 - Microwave Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5030C - Aqueous Purge and Trap
5035 - Solid Purge and Trap

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-101 0ft-0.5ft
Date Sampled: 03/26/15 10:05
Percent Solids: N/A

ESS Laboratory Work Order: 1503480
ESS Laboratory Sample ID: 1503480-01
Sample Matrix: Soil

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**51700** (1000)		TOC-LK		1	SUB	03/31/15 22:32	mg/kg	CD50347

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-102 0ft-0.5ft
Date Sampled: 03/26/15 10:30
Percent Solids: N/A

ESS Laboratory Work Order: 1503480
ESS Laboratory Sample ID: 1503480-02
Sample Matrix: Soil

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**75800** (1000)		TOC-LK		1	SUB	03/30/15 21:28	mg/kg	CD50347

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-102 0.5ft-2ft
Date Sampled: 03/26/15 10:30
Percent Solids: N/A

ESS Laboratory Work Order: 1503480
ESS Laboratory Sample ID: 1503480-03
Sample Matrix: Soil

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**59000** (1000)		TOC-LK		1	SUB	03/30/15 21:35	mg/kg	CD50347

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-103 0ft-0.5ft
Date Sampled: 03/26/15 10:50
Percent Solids: N/A

ESS Laboratory Work Order: 1503480
ESS Laboratory Sample ID: 1503480-04
Sample Matrix: Soil

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**61900** (1000)		TOC-LK		1	SUB	03/30/15 21:42	mg/kg	CD50347

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-104 0ft-0.5ft
Date Sampled: 03/26/15 11:15
Percent Solids: N/A

ESS Laboratory Work Order: 1503480
ESS Laboratory Sample ID: 1503480-05
Sample Matrix: Soil

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**65000** (1000)		TOC-LK		1	SUB	03/30/15 21:48	mg/kg	CD50347

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-105 0ft-0.5ft
Date Sampled: 03/26/15 11:45
Percent Solids: N/A

ESS Laboratory Work Order: 1503480
ESS Laboratory Sample ID: 1503480-06
Sample Matrix: Soil

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**64300** (1000)		TOC-LK		1	SUB	03/30/15 21:55	mg/kg	CD50347

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-105 4ft-6ft
Date Sampled: 03/26/15 11:45
Percent Solids: N/A

ESS Laboratory Work Order: 1503480
ESS Laboratory Sample ID: 1503480-07
Sample Matrix: Soil

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**7310** (1000)		TOC-LK		1	SUB	04/01/15 22:14	mg/kg	CD50347

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-109 0ft-0.5ft
Date Sampled: 03/26/15 11:45
Percent Solids: N/A

ESS Laboratory Work Order: 1503480
ESS Laboratory Sample ID: 1503480-08
Sample Matrix: Soil

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**61800** (1000)		TOC-LK		1	SUB	03/30/15 22:08	mg/kg	CD50347

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-108 0ft-0.5ft
Date Sampled: 03/26/15 14:00
Percent Solids: N/A

ESS Laboratory Work Order: 1503480
ESS Laboratory Sample ID: 1503480-09
Sample Matrix: Soil

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**67100** (1000)		TOC-LK		1	SUB	03/30/15 22:15	mg/kg	CD50347

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-108 4ft-6ft
Date Sampled: 03/26/15 14:00
Percent Solids: N/A

ESS Laboratory Work Order: 1503480
ESS Laboratory Sample ID: 1503480-10
Sample Matrix: Soil

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**33400** (1000)		TOC-LK		1	SUB	03/30/15 22:22	mg/kg	CD50347

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-107 0ft-0.5ft
Date Sampled: 03/26/15 15:15
Percent Solids: N/A

ESS Laboratory Work Order: 1503480
ESS Laboratory Sample ID: 1503480-11
Sample Matrix: Soil

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**89400** (1000)		TOC-LK		1	SUB	03/31/15 22:45	mg/kg	CD50347

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-107 2ft-4ft
Date Sampled: 03/26/15 15:15
Percent Solids: N/A

ESS Laboratory Work Order: 1503480
ESS Laboratory Sample ID: 1503480-12
Sample Matrix: Soil

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**35900** (1000)		TOC-LK		1	SUB	03/30/15 22:35	mg/kg	CD50347

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503480

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase ESS Laboratory Work Order: 1503480

Notes and Definitions

ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	Detection Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report
[2C]	Result was taken from the second column. Dual column analysis.

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503480

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Department of Defense (DoD) Environmental Laboratory Accreditation Program (ELAP)
A2LA Accredited: Testing Cert# 2864.01
http://www.a2la.org/scopepdf/2864-01.pdf

Rhode Island Potable and Non Potable Water: LAI00179
http://www.health.ri.gov/find/labs/analytical/ESS.pdf

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750
http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI0002
http://www.maine.gov/dhhs/mecdc/environmental-health/water/dwp-services/labcert/documents/AllLabs.xls

Massachusetts Potable and Non Potable Water: M-RI002
http://public.dep.state.ma.us/Labcert/Labcert.aspx

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424
http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313
http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006
http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

United States Department of Agriculture Soil Permit: P330-12-00139

Pennsylvania: 68-01752
http://www.depweb.state.pa.us/portal/server.pt/community/labs/13780/laboratory_accreditation_program/590095

CHEMISTRY

A2LA Accredited: Testing Cert # 2864.01
Lead in Paint, Phthalates, Lead in Children's Metals Products (Including Jewelry)
http://www.A2LA.org/dirsearchnew/newsearch.cfm

CPSC ID# 1141
Lead Paint, Lead in Children's Metals Jewelry
http://www.cpsc.gov/cgi-bin/labapplist.aspx

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Burlington
30 Community Drive
Suite 11
South Burlington, VT 05403
Tel: (802)660-1990

TestAmerica Job ID: 200-27289-1
TestAmerica Sample Delivery Group: 1503480
Client Project/Site: 1503480

For:
ESS Laboratory
185 Frances Ave.
Cranston, Rhode Island 02910

Attn: Ms. Elizabeth Ouk

Authorized for release by:
4/3/2015 4:49:22 PM

Kathryn Kelly, Project Manager I
(802)660-1990
kathryn.kelly@testamericainc.com

LINKS
Review your project results through TotalAccess
Have a Question? Ask The Expert
Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Definitions/Glossary 3
Case Narrative 4
Detection Summary 5
Client Sample Results 7
QC Sample Results 9
QC Association Summary 10
Lab Chronicle 11
Certification Summary 13
Method Summary 14
Sample Summary 15
Chain of Custody 16
Receipt Checklists 18

Qualifiers

General Chemistry

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
^	Instrument related QC exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 200-27289-1

Laboratory: TestAmerica Burlington

Narrative

CASE NARRATIVE

Client: ESS Laboratory

Project: 1503480

Report Number: 200-27289-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 03/28/2015; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 1.8º C.

TOTAL ORGANIC CARBON

Samples 1503480-01, 1503480-02, 1503480-03, 1503480-04, 1503480-05, 1503480-06, 1503480-07, 1503480-08, 1503480-09, 1503480-10, 1503480-11 and 1503480-12 were analyzed for total organic carbon in accordance with Lloyd Kahn Method. The samples were analyzed on 03/30/2015, 03/31/2015 and 04/01/2015.

Total Organic Carbon was detected in method blank MB 200-86277/5 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Total Organic Carbon was detected in method blank MB 200-86321/13 at a level exceeding the reporting limit. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Total Organic Carbon was detected in method blank MB 200-86386/5 at a level exceeding the reporting limit. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: ESS Laboratory
Project/Site: 1503480

TestAmerica Job ID: 200-27289-1
SDG: 1503480

Client Sample ID: 1503480-01 — Lab Sample ID: 200-27289-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	51700	B	1000	120	mg/Kg	1		Lloyd Kahn	Total/NA

Client Sample ID: 1503480-02 — Lab Sample ID: 200-27289-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	75800	B ^	1000	120	mg/Kg	1		Lloyd Kahn	Total/NA

Client Sample ID: 1503480-03 — Lab Sample ID: 200-27289-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	59000	B ^	1000	120	mg/Kg	1		Lloyd Kahn	Total/NA

Client Sample ID: 1503480-04 — Lab Sample ID: 200-27289-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	61900	B ^	1000	120	mg/Kg	1		Lloyd Kahn	Total/NA

Client Sample ID: 1503480-05 — Lab Sample ID: 200-27289-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	65000	B ^	1000	120	mg/Kg	1		Lloyd Kahn	Total/NA

Client Sample ID: 1503480-06 — Lab Sample ID: 200-27289-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	64300	B ^	1000	120	mg/Kg	1		Lloyd Kahn	Total/NA

Client Sample ID: 1503480-07 — Lab Sample ID: 200-27289-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	7310	B	1000	120	mg/Kg	1		Lloyd Kahn	Total/NA

Client Sample ID: 1503480-08 — Lab Sample ID: 200-27289-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	61800	B ^	1000	120	mg/Kg	1		Lloyd Kahn	Total/NA

Client Sample ID: 1503480-09 — Lab Sample ID: 200-27289-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	67100	B ^	1000	120	mg/Kg	1		Lloyd Kahn	Total/NA

Client Sample ID: 1503480-10 — Lab Sample ID: 200-27289-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	33400	B ^	1000	120	mg/Kg	1		Lloyd Kahn	Total/NA

Client Sample ID: 1503480-11 — Lab Sample ID: 200-27289-11

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: ESS Laboratory
Project/Site: 1503480

TestAmerica Job ID: 200-27289-1
SDG: 1503480

Client Sample ID: 1503480-11 (Continued) — Lab Sample ID: 200-27289-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	89400	B	1000	120	mg/Kg	1		Lloyd Kahn	Total/NA

Client Sample ID: 1503480-12 — Lab Sample ID: 200-27289-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	35900	B ^	1000	120	mg/Kg	1		Lloyd Kahn	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 1503480-01 — **Lab Sample ID: 200-27289-1**
Date Collected: 03/26/15 10:05
Date Received: 03/28/15 10:20
Matrix: Sediment

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	51700	B	1000	120	mg/Kg			03/31/15 22:32	1

Client Sample ID: 1503480-02 — **Lab Sample ID: 200-27289-2**
Date Collected: 03/26/15 10:30
Date Received: 03/28/15 10:20
Matrix: Sediment

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	75800	B ^	1000	120	mg/Kg			03/30/15 21:28	1

Client Sample ID: 1503480-03 — **Lab Sample ID: 200-27289-3**
Date Collected: 03/26/15 10:30
Date Received: 03/28/15 10:20
Matrix: Sediment

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	59000	B ^	1000	120	mg/Kg			03/30/15 21:35	1

Client Sample ID: 1503480-04 — **Lab Sample ID: 200-27289-4**
Date Collected: 03/26/15 10:50
Date Received: 03/28/15 10:20
Matrix: Sediment

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	61900	B ^	1000	120	mg/Kg			03/30/15 21:42	1

Client Sample ID: 1503480-05 — **Lab Sample ID: 200-27289-5**
Date Collected: 03/26/15 11:15
Date Received: 03/28/15 10:20
Matrix: Sediment

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	65000	B ^	1000	120	mg/Kg			03/30/15 21:48	1

Client Sample ID: 1503480-06 — **Lab Sample ID: 200-27289-6**
Date Collected: 03/26/15 11:45
Date Received: 03/28/15 10:20
Matrix: Sediment

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	64300	B ^	1000	120	mg/Kg			03/30/15 21:55	1

Client Sample ID: 1503480-07 — **Lab Sample ID: 200-27289-7**
Date Collected: 03/26/15 11:45
Date Received: 03/28/15 10:20
Matrix: Sediment

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	7310	B	1000	120	mg/Kg			04/01/15 22:14	1

Client: ESS Laboratory
Project/Site: 1503480

TestAmerica Job ID: 200-27289-1
SDG: 1503480

Client Sample ID: 1503480-08
Date Collected: 03/26/15 11:45
Date Received: 03/28/15 10:20

Lab Sample ID: 200-27289-8
Matrix: Sediment

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	61800	B ^	1000	120	mg/Kg			03/30/15 22:08	1

Client Sample ID: 1503480-09
Date Collected: 03/26/15 14:00
Date Received: 03/28/15 10:20

Lab Sample ID: 200-27289-9
Matrix: Sediment

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	67100	B ^	1000	120	mg/Kg			03/30/15 22:15	1

Client Sample ID: 1503480-10
Date Collected: 03/26/15 14:00
Date Received: 03/28/15 10:20

Lab Sample ID: 200-27289-10
Matrix: Sediment

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	33400	B ^	1000	120	mg/Kg			03/30/15 22:22	1

Client Sample ID: 1503480-11
Date Collected: 03/26/15 15:15
Date Received: 03/28/15 10:20

Lab Sample ID: 200-27289-11
Matrix: Sediment

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	89400	B	1000	120	mg/Kg			03/31/15 22:45	1

Client Sample ID: 1503480-12
Date Collected: 03/26/15 15:15
Date Received: 03/28/15 10:20

Lab Sample ID: 200-27289-12
Matrix: Sediment

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	35900	B ^	1000	120	mg/Kg			03/30/15 22:35	1

Method: Lloyd Kahn - Organic Carbon, Total (TOC)

Lab Sample ID: MB 200-86277/5
Matrix: Sediment
Analysis Batch: 86277

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	350.0	J	1000	120	mg/Kg			03/30/15 20:42	1

Lab Sample ID: LCS 200-86277/6
Matrix: Sediment
Analysis Batch: 86277

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	20100	23330		mg/Kg		116	75 - 125

Lab Sample ID: MB 200-86321/13
Matrix: Sediment
Analysis Batch: 86321

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	125.0	J	1000	120	mg/Kg			03/31/15 21:54	1

Lab Sample ID: LCS 200-86321/14
Matrix: Sediment
Analysis Batch: 86321

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	20100	19920		mg/Kg		99	75 - 125

Lab Sample ID: MB 200-86386/5
Matrix: Sediment
Analysis Batch: 86386

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	155.0	J	1000	120	mg/Kg			04/01/15 21:33	1

Lab Sample ID: LCS 200-86386/6
Matrix: Sediment
Analysis Batch: 86386

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	20100	20330		mg/Kg		101	75 - 125

QC Association Summary

Client: ESS Laboratory
Project/Site: 1503480

TestAmerica Job ID: 200-27289-1
SDG: 1503480

General Chemistry

Analysis Batch: 86277

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-27289-2	1503480-02	Total/NA	Sediment	Lloyd Kahn	
200-27289-3	1503480-03	Total/NA	Sediment	Lloyd Kahn	
200-27289-4	1503480-04	Total/NA	Sediment	Lloyd Kahn	
200-27289-5	1503480-05	Total/NA	Sediment	Lloyd Kahn	
200-27289-6	1503480-06	Total/NA	Sediment	Lloyd Kahn	
200-27289-8	1503480-08	Total/NA	Sediment	Lloyd Kahn	
200-27289-9	1503480-09	Total/NA	Sediment	Lloyd Kahn	
200-27289-10	1503480-10	Total/NA	Sediment	Lloyd Kahn	
200-27289-12	1503480-12	Total/NA	Sediment	Lloyd Kahn	
LCS 200-86277/6	Lab Control Sample	Total/NA	Sediment	Lloyd Kahn	
MB 200-86277/5	Method Blank	Total/NA	Sediment	Lloyd Kahn	

Analysis Batch: 86321

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-27289-1	1503480-01	Total/NA	Sediment	Lloyd Kahn	
200-27289-11	1503480-11	Total/NA	Sediment	Lloyd Kahn	
LCS 200-86321/14	Lab Control Sample	Total/NA	Sediment	Lloyd Kahn	
MB 200-86321/13	Method Blank	Total/NA	Sediment	Lloyd Kahn	

Analysis Batch: 86386

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-27289-7	1503480-07	Total/NA	Sediment	Lloyd Kahn	
LCS 200-86386/6	Lab Control Sample	Total/NA	Sediment	Lloyd Kahn	
MB 200-86386/5	Method Blank	Total/NA	Sediment	Lloyd Kahn	

Lab Chronicle

Client: ESS Laboratory
Project/Site: 1503480

TestAmerica Job ID: 200-27289-1
SDG: 1503480

Client Sample ID: 1503480-01
Date Collected: 03/26/15 10:05
Date Received: 03/28/15 10:20

Lab Sample ID: 200-27289-1
Matrix: Sediment

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	86321	03/31/15 22:32	MDK	TAL BUR

Client Sample ID: 1503480-02
Date Collected: 03/26/15 10:30
Date Received: 03/28/15 10:20

Lab Sample ID: 200-27289-2
Matrix: Sediment

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	86277	03/30/15 21:28	MDK	TAL BUR

Client Sample ID: 1503480-03
Date Collected: 03/26/15 10:30
Date Received: 03/28/15 10:20

Lab Sample ID: 200-27289-3
Matrix: Sediment

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	86277	03/30/15 21:35	MDK	TAL BUR

Client Sample ID: 1503480-04
Date Collected: 03/26/15 10:50
Date Received: 03/28/15 10:20

Lab Sample ID: 200-27289-4
Matrix: Sediment

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	86277	03/30/15 21:42	MDK	TAL BUR

Client Sample ID: 1503480-05
Date Collected: 03/26/15 11:15
Date Received: 03/28/15 10:20

Lab Sample ID: 200-27289-5
Matrix: Sediment

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	86277	03/30/15 21:48	MDK	TAL BUR

Client Sample ID: 1503480-06
Date Collected: 03/26/15 11:45
Date Received: 03/28/15 10:20

Lab Sample ID: 200-27289-6
Matrix: Sediment

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	86277	03/30/15 21:55	MDK	TAL BUR

Lab Chronicle

Client: ESS Laboratory
Project/Site: 1503480

TestAmerica Job ID: 200-27289-1
SDG: 1503480

Client Sample ID: 1503480-07
Date Collected: 03/26/15 11:45
Date Received: 03/28/15 10:20

Lab Sample ID: 200-27289-7
Matrix: Sediment

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	86386	04/01/15 22:14	MDK	TAL BUR

Client Sample ID: 1503480-08
Date Collected: 03/26/15 11:45
Date Received: 03/28/15 10:20

Lab Sample ID: 200-27289-8
Matrix: Sediment

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	86277	03/30/15 22:08	MDK	TAL BUR

Client Sample ID: 1503480-09
Date Collected: 03/26/15 14:00
Date Received: 03/28/15 10:20

Lab Sample ID: 200-27289-9
Matrix: Sediment

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	86277	03/30/15 22:15	MDK	TAL BUR

Client Sample ID: 1503480-10
Date Collected: 03/26/15 14:00
Date Received: 03/28/15 10:20

Lab Sample ID: 200-27289-10
Matrix: Sediment

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	86277	03/30/15 22:22	MDK	TAL BUR

Client Sample ID: 1503480-11
Date Collected: 03/26/15 15:15
Date Received: 03/28/15 10:20

Lab Sample ID: 200-27289-11
Matrix: Sediment

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	86321	03/31/15 22:45	MDK	TAL BUR

Client Sample ID: 1503480-12
Date Collected: 03/26/15 15:15
Date Received: 03/28/15 10:20

Lab Sample ID: 200-27289-12
Matrix: Sediment

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	86277	03/30/15 22:35	MDK	TAL BUR

Laboratory References:

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Certification Summary

Client: ESS Laboratory
Project/Site: 1503480

TestAmerica Job ID: 200-27289-1
SDG: 1503480

Laboratory: TestAmerica Burlington

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Connecticut	State Program	1	PH-0751	09-30-15
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	NA	02-13-16
Florida	NELAP	4	E87467	06-30-15
L-A-B	DoD ELAP		L2336	02-26-17
Maine	State Program	1	VT00008	04-17-15 *
Minnesota	NELAP	5	050-999-436	12-31-15
New Hampshire	NELAP	1	2006	12-18-15
New Jersey	NELAP	2	VT972	06-30-15
New York	NELAP	2	10391	03-31-16
Pennsylvania	NELAP	3	68-00489	04-30-15 *
Rhode Island	State Program	1	LAO00298	12-30-15
US Fish & Wildlife	Federal		LE-058448-0	02-28-16
USDA	Federal		P330-11-00093	10-28-16
Vermont	State Program	1	VT-4000	12-31-15
Virginia	NELAP	3	460209	12-14-15

* Certification renewal pending - certification considered valid.

Method Summary

Client: ESS Laboratory
Project/Site: 1503480

TestAmerica Job ID: 200-27289-1
SDG: 1503480

Method	Method Description	Protocol	Laboratory
Lloyd Kahn	Organic Carbon, Total (TOC)	EPA	TAL BUR

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Sample Summary

Client: ESS Laboratory
Project/Site: 1503480

TestAmerica Job ID: 200-27289-1
SDG: 1503480

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
200-27289-1	1503480-01	Sediment	03/26/15 10:05	03/28/15 10:20
200-27289-2	1503480-02	Sediment	03/26/15 10:30	03/28/15 10:20
200-27289-3	1503480-03	Sediment	03/26/15 10:30	03/28/15 10:20
200-27289-4	1503480-04	Sediment	03/26/15 10:50	03/28/15 10:20
200-27289-5	1503480-05	Sediment	03/26/15 11:15	03/28/15 10:20
200-27289-6	1503480-06	Sediment	03/26/15 11:45	03/28/15 10:20
200-27289-7	1503480-07	Sediment	03/26/15 11:45	03/28/15 10:20
200-27289-8	1503480-08	Sediment	03/26/15 11:45	03/28/15 10:20
200-27289-9	1503480-09	Sediment	03/26/15 14:00	03/28/15 10:20
200-27289-10	1503480-10	Sediment	03/26/15 14:00	03/28/15 10:20
200-27289-11	1503480-11	Sediment	03/26/15 15:15	03/28/15 10:20
200-27289-12	1503480-12	Sediment	03/26/15 15:15	03/28/15 10:20

ESS Laboratory — T. America — CHAIN OF CUSTODY

ESS Lab # 1503480

Division of Thielsch Engineering, Inc.

185 Frances Avenue,Cranston RI 02910-2211
Tel. (401)461-7181 Fax (401)461-4486
www.esslaboratory.com

Turn Time _____Standard Other **5 DAY**

Regulatory State: **MA** RI CT NH NJ NY ME Other_____

Is this project for any of the following:(please circle)
MA-MCP Navy USACE CT DEP Other_____

Reporting Limits - _____

Electonic Deliverables **Excel** Access **PDF** *

Co. Name: **ESS Laboratory**	Project #:	Project Name: **1503480**	
Contact Person: **Christine Taylor**	Proj. Location:		
Address:	City , State:	Zip:	PO #: B02192
Tel: ext. 3039	email: ctaylor@thielsch.com	email: smorrell@thielsch.com	

ESS Lab ID	Date	Collection Time	Grab -G Composite-C	Matrix	Sample ID	Pres Code	# of Containers	Type of Container	Vol of Container	Analysis: TOC Lloyd Kahn									
	3/26/15	1005	G	SED	1503480-01	1	1	G	2oz	X									
	3/26/15	1030	G	SED	1503480-02	1	1	G	2oz	X									
	3/26/15	1030	G	SED	1503480-03	1	1	G	2oz	X									
	3/26/15	1050	G	SED	1503480-04	1	1	G	2oz	X									
	3/26/15	1115	G	SED	1503480-05	1	1	G	2oz	X									
	3/26/15	1145	G	SED	1503480-06	1	1	G	2oz	X									
	3/26/15	1145	G	SED	1503480-07	1	1	G	2oz	X									
	3/26/15	1145	G	SED	1503480-08	1	1	G	2oz	X									
	3/26/15	1400	G	SED	1503480-09	1	1	G	2oz	X									
	3/26/15	1400	G	SED	1503480-10	1	1	G	2oz	X									
	3/26/15	1515	G	SED	1503480-11	1	1	G	2oz	X									
	3/26/15	1515	G	SED	1503480-12	1	1	G	2oz	X									

Container Type. P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Wastewater GW-Groundwater

Cooler Present _____Yes _____No

Seals Intact ____ Yes _____No NA:____

Cooler Temperature: _____

Internal Use Only

[ ] Pickup

[ ] Technician____

Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-

Sampled by :

Comments:

200-27289 Chain of Custody

Relinquished by: (Signature, Date & Time)	Received by: (Signature, Date & Time)	Relinquished by: (Signature, Date & Time)	Received by: (Signature, Date & Time)
3/27/15 1450	3-29-15 1450	1700 3-29-15	3/30/15 1020 TARR
Relinquished by: (Signature, Date & Time)	Received by: (Signature, Date & Time)	Relinquished by: (Signature, Date & Time)	Received by: (Signature, Date & Time)

* By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VIIA

Please fax to the laboratory all changes to Chain of Custody

Report Method Blank & Laboratory Control Sample Results


DENT
A
ORIGIN ID:BXCA (781) 466-6900
PAUL HOBART
TESTAMERICA
240 BEAR HILL ROAD
SUITE 104
WALTHAM, MA 02451
UNITED STATES US
SHIP DATE: 27MAR15
ACTWGT: 13.2 LB
CAD: 590687/CAFE2807
BILL RECIPIENT
TO SAMPLE RECEIVING
TESTAMERICA BURLINGTON
30 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403
(802) 660-1990
REF:
INV:
PO:
DEPT:
FedEx
Express
E
SATURDAY 12:00P
PRIORITY OVERNIGHT
TRK# 0201 4258 8388 7728
XO BTVA
05403
VT-US BTV
TAMPER

Login Sample Receipt Checklist

Client: ESS Laboratory

Job Number: 200-27289-1
SDG Number: 1503480

Login Number: 27289
List Number: 1
Creator: Young, Joseph W

List Source: TestAmerica Burlington

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.8ºC
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

Sample and Cooler Receipt Checklist

Client: GZA GeoEnvironmental, Inc.
Client Project ID: _____
Shipped/Delivered Via: ESS Courier

ESS Project ID: 15030480
Date Project Due: 4/3/15
Days For Project: 5 Day

Items to be checked upon receipt:

1. Air Bill Manifest Present?	* No	10. Are the samples properly preserved?	Yes
Air No.:		11. Proper sample containers used?	Yes
2. Were Custody Seals Present?	No	12. Any air bubbles in the VOA vials?	N/A
3. Were Custody Seals Intact?	N/A	13. Holding times exceeded?	No
4. Is Radiation count < 100 CPM?	Yes	14. Sufficient sample volumes?	Yes
5. Is a cooler present?	Yes	15. Any Subcontracting needed?	* Yes
Cooler Temp: **3.0**		16. Are ESS labels on correct containers?	**Yes** | **No**
Iced With: **Ice**		17. Were samples received intact?	**Yes** | **No**
6. Was COC included with samples?	Yes	ESS Sample IDs:	01 - 12
7. Was COC signed and dated by client?	Yes	Sub Lab:	Test America
8. Does the COC match the sample	Yes	Analysis:	TOC - LK
9. Is COC complete and correct?	Yes	TAT:	5 Day

18. Was there need to call project manager to discuss status? If yes, please explain.

_____

_____

_____

Who was called?:_____ By whom? _____

Sample Number	Properly Preserved	Container Type	# of Containers	Preservative
1	Yes	2 oz Soil Jar	1	NP
2	Yes	2 oz Soil Jar	1	NP
3	Yes	2 oz Soil Jar	1	NP
4	Yes	2 oz Soil Jar	1	NP
5	Yes	2 oz Soil Jar	1	NP
6	Yes	2 oz Soil Jar	1	NP
7	Yes	2 oz Soil Jar	1	NP
8	Yes	2 oz Soil Jar	1	NP
9	Yes	2 oz Soil Jar	1	NP
10	Yes	2 oz Soil Jar	1	NP
11	Yes	2 oz Soil Jar	1	NP
12	Yes	2 oz Soil Jar	1	NP

Completed By: _____ Date/Time: 3/27/15 1011
Reviewed By: JAR Date/Time: 3/27/15 1045

ESS Laboratory

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www.esslaboratory.com

CHAIN OF CUSTODY

ESS LAB PROJECT ID: 1503480

Turn Time ___X___Standard Rush_____ Approved By: _____

Reporting Limits -

State where samples were collected: **MA** RI CT NH NJ NY ME Other_____

Is this project for any of the following: (please circle)
MA-MCP CT-RCP NJ-DKQP RGP DOD Other___

Electonic Deliverable Yes ✓ No___
Format: Excel ✓ Access___ PDF ✓ Other_____

GZA Project Manager: David E. Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Ave
Norwood, MA 02062
(781) 278-3700

Project No.: 01.0171521.13 Task 001

Project Name: Wynn - Everett

Contract Pricing _____
Special Pricing WO#: _____

ESS Lab Sample ID	Date	Collection Time	Grab -G Composite-C	Matrix	Sample Identification	# of Containers	MCP 14 Metals	PAHs by SIM	TOC	SVOCs	PCBs (Aroclors)	EPH	Hexavalent Chromium	Reactivity (Sulfide and Cyanide)	VOCs	% water	Grain Size Analysis	Comment #
1	3-26-15	1005	G	S	LC-101 (0'-0.5')		X	X	X	X	X	X						
					LC-101 (0.5'-2')		HOLD	AND	FREEZE									
					LC-101 (2'-4')		X	X										
					LC-101 (4'-6')		HOLD	AND	FREEZE									
		↓			LC-101 (6'-8')		X	X										
2		1030			LC-102 (0'-0.5')		X	X	X	X	X	X						
3					LC-102 (0.5'-2')		X	X	X	X	X	X						
					LC-102 (2'-4')		HOLD	AND	FREEZE									
					LC-102 (4'-6')		HOLD	AND	FREEZE									
	↓	↓	↓	↓	LC-102 (6'-8')		HOLD	AND	FREEZE									

Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-_____

Container Type: P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filter

Cooler Present ✓ Yes _____No

Seals Intact _____ Yes _____No NA: _____

Cooler Temperature: 3.0°C ice mm 3/27/15

Sampled by : Daniel Scanlon (Daniel.Scanlon@gza.com)

Comments: (1) TCLP 20X Rule Applies ONLY IF NOTED IN comment column

TOC only reported with this WO - cmt 4/1/15

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	3/26/15 @ 1730	3/27/15		3/27/15 0920	3/27/15 0924

ESS Laboratory

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www.esslaboratory.com

CHAIN OF CUSTODY

ESS LAB PROJECT ID: 1503480

Turn Time ___X___Standard Rush_____ Approved By: _____

Reporting Limits -

State where samples were collected: **MA** RI CT NH NJ NY ME Other_____

Is this project for any of the following: (please circle)
MA-MCP CT-RCP NJ-DKQP RGP DOD Other____

Electonic Deliverable Yes ✓ No____
Format: Excel X Access___ PDF X Other____

GZA Project Manager: David E. Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Ave
Norwood, MA 02062
(781) 278-3700

Project No.: 01.0171521.13 Task 001

Project Name: Wynn - Everett

Contract Pricing _____
Special Pricing WO#: _____

ESS Lab Sample ID	Date	Collection Time	Grab -G Composite-C	Matrix	Sample Identification	# of Containers	MCP 14 Metals	PAHs by SIM	TOC	SVOCs	PCBs (Aroclors)	EPH	Hexavalent Chromium	Reactivity (Sulfide and Cyanide)	VOCs	% water	Grain Size Analysis	Comment #
4	3/26/15	10:50	G	S	LC-103 (0'-0.5')		X	X	X	X	X	X						
					LC-103 (0.5'-2')		X	X	HOLD	AND	PRESERVE							
					LC-103 (2'-4')		X	X										
		↓			LC-103 (4'-6')		X	X										
5		11:15			LC-104 (0'-0.5')		X	X	X	X	X	X						
					LC-104 (0.5'-2')		X	X										
		↓			LC-104 (2'-4')		HOLD	AND	PRESERVE									
6		11:45			LC-105 (0'-0.5')		X	X	X	X	X	X						
					LC-105 (0.5'-2')		HOLD	AND	PRESERVE									
	↓	↓	↓	↓	LC-105 (2'-4')		X	X										

Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-____

Container Type: P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filter

Cooler Present ___Yes ____No

Seals Intact ____Yes ____No NA: ✓

Cooler Temperature: 3.0°C 3/27/15

Sampled by : Daniel Scanlon (Daniel.Scanlon@gza.com)

Comments: (1) TCLP 20X Rule Applies ONLY if noted in comments column

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	3/26/15 @ 1730	3/27/15 0700		3/27/15 0920	3/27/15 0924

ESS Laboratory

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www.esslaboratory.com

CHAIN OF CUSTODY

ESS LAB PROJECT ID: 1503480

Turn Time ___X___Standard Rush_____ Approved By: _____

Reporting Limits -

State where samples were collected: **MA** RI CT NH NJ NY ME Other_____

Is this project for any of the following: (please circle)
MA-MCP CT-RCP NJ-DKQP RGP DOD Other____

Electonic Deliverable Yes ✓ No____
Format: Excel ___ Access___ PDF ✓ Other____

GZA Project Manager: David E. Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Ave
Norwood, MA 02062
(781) 278-3700

Project No.: 01.0171521.13 Task 001

Project Name: Wynn - Everett

Contract Pricing ____
Special Pricing WO#: _____

ESS Lab Sample ID	Date	Collection Time	Grab -G Composite-C	Matrix	Sample Identification	# of Containers	Analysis: MCP 14 Metals	PAHs by SIM	TOC	SVOCs	PCBs (Aroclors)	EPH	Hexavalent Chromium	Reactivity (Sulfide and Cyanide)	VOCs	% water	Grain Size Analysis	Comment #
7	3/26/15	1145	G	S	LL-105 (4'-6')		X	X	X	X	X	X						
8					LL-109 (0'-0.5')		X	X	X	X	X	X						
					LL-109 (0.5'-2')		HOLD	AND	FREEZE									
					LL-109 (2'-4')		HOLD	AND	FREEZE									
		↓			LL-109 (4'-6')		X	X										
9		1400			LL-108 (0'-0.5')		X	X	X	X	X	X						
					LL-108 (0.5'-2')		X	X										
					LL-108 (2'-4')		HOLD	AND	FREEZE									
10		↓			LL-108 (4'-6')		X	X	X	X	X	X						
11	↓	1515	↓	↓	LL-107 (0'-0.5')		X	X	X	X	X	X						

Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-_____

Container Type: P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filter

Cooler Present ✓ Yes ____No

Seals Intact ____Yes ____No NA: ✓

Cooler Temperature: 3.0°C IR gun 3/27/15

Sampled by : Daniel Scanlon (Daniel.Scanlon@gza.com)

Comments: (1) TCLP 20X Rule Applies ONLY if noted in coments column.

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	3/26/15 @ 1730	3/26/15 0700		3/27/15 0920	3/27/15 0924

ESS Laboratory
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CHAIN OF CUSTODY

ESS LAB PROJECT ID: 1503480

Turn Time ___X___ Standard Rush_____ Approved By: _____

Reporting Limits -

State where samples were collected: **MA** RI CT NH NJ NY ME Other_____

Is this project for any of the following: (please circle)
MA-MCP CT-RCP NJ-DKQP RGP DOD Other____

Electonic Deliverable Yes____ No____
Format: Excel___ Access___ PDF___ Other_____

GZA Project Manager: David E. Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Ave
Norwood, MA 02062
(781) 278-3700

Project No.: 01.0171521.13 Task 001

Project Name: Wynn - Everett

Contract Pricing _____
Special Pricing WO#: _____

ESS Lab Sample ID	Date	Collection Time	Grab -G Composite-C	Matrix	Sample Identification	# of Containers	MCP-14 Metals	PAHs by SIM	TOC	SVOCs	PCBs (Aroclors)	EPH	Hexavalent Chromium	Reactivity (Sulfide and Cyanide)	VOCs	% water	Grain Size Analysis	Comment #
	3/26/15	1515	G	S	LC-107 (0.5'-2')		HOLD AND FREEZE											
12	3/26/15	1515	G	S	LC-107 (2'-4')		X	X	X	X	X	X						

Analysis

Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-_____

Container Type: P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filter

Cooler Present ✓ Yes ____ No

Seals Intact ____ Yes ____ No NA ✓

Cooler Temperature: 3.0°C Initial 3/27/15

Sampled by : Daniel Scanlon (Daniel.Scanlon@gza.com)

Comments: (1) TCLP 20X Rule Applies ONLY if noted in ~~Chemical~~ Section Comments column

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	3/26/15 @ 1730	3/27/15 0700	3/27/15	0820	3/27/15 0824

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CHAIN OF CUSTODY

ESS LAB PROJECT ID: 1503480

Turn Time ___X___Standard Rush_____ Approved By: _____

Reporting Limits -

State where samples were collected: **MA** RI CT NH NJ NY ME Other_____

Is this project for any of the following: (please circle)
MA-MCP CT-RCP NJ-DKQP RGP DOD Other___

Electonic Deliverable Yes ✓ No___
Format: Excel ✓ Access___ PDF ✓ Other_____

GZA Project Manager: David E. Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Ave
Norwood, MA 02062
(781) 278-3700

Project No.: 01.0171521.13 Task 001

Project Name: Wynn - Everett

Contract Pricing ____
Special Pricing WO#: _____

ESS Lab Sample ID	Date	Collection Time	Grab -G Composite-C	Matrix	Sample Identification	# of Containers	Analysis: MCP-14 Metals	PAHs by SIM	TOC	SVOCs	PCBs (Aroclors)	EPH	Hexavalent Chromium	Reactivity (Sulfide and Cyanide)	VOCs	% water	Grain Size Analysis	Comment #
1	3-26-15	1005	G	S	LC-101 (0'-0.5')		X	X	X	X	X	X						
					LC-101 (0.5'-2')		HOLD			AND			FREEZE					
					LC-101 (2'-4')		X	X										
					LC-101 (4'-6')		HOLD			AND			FREEZE					
		↓			LC-101 (6'-8')		X	X										
2		1030			LC-102 (0'-0.5')		X	X	X	X	X	X						
3					LC-102 (0.5'-2')		X	X	X	X	X	X						
					LC-102 (2'-4')		HOLD			AND			FREEZE					
					LC-102 (4'-6')		HOLD			AND			FREEZE					
	↓	↓	↓	↓	LC-102 (6'-8')		HOLD			AND			FREEZE					

Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-_____

Container Type: P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filter

Cooler Present ✓ Yes _____No

Seals Intact _____ Yes _____No NA: _____

Cooler Temperature: 3.0°C ice mm 3/27/15

Sampled by : Daniel Scanlon (Daniel.Scanlon@gza.com)

Comments: (1) TCLP 20X Rule Applies ONLY IF NOTED IN comment column

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	3/26/15 @ 1730	3/27/15		3/27/15 0920	3/27/15 0924

ESS Laboratory

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CHAIN OF CUSTODY

ESS LAB PROJECT ID: 1503480

Turn Time ___X___Standard Rush_____ Approved By: _____

Reporting Limits -

State where samples were collected: **MA** RI CT NH NJ NY ME Other_____

Is this project for any of the following: (please circle)
MA-MCP CT-RCP NJ-DKQP RGP DOD Other____

Electonic Deliverable Yes ✓ No____
Format: Excel X Access___ PDF X Other____

GZA Project Manager: David E. Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Ave
Norwood, MA 02062
(781) 278-3700

Project No.: 01.0171521.13 Task 001

Project Name: Wynn - Everett

Contract Pricing _____
Special Pricing WO#: _____

ESS Lab Sample ID	Date	Collection Time	Grab -G Composite-C	Matrix	Sample Identification	# of Containers	Analysis: MCP-14 Metals	PAHs by SIM	TOC	SVOCs	PCBs (Aroclors)	EPH	Hexavalent Chromium	Reactivity (Sulfide and Cyanide)	VOCs	% water	Grain Size Analysis	Comment #
4	3/26/15	10:50	G	S	LC-103 (0'-0.5')		X	X	X	X	X	X						
					LC-103 (0.5'-2')		HOLD		AND		FREEZE							
					LC-103 (2'-4')		X	X										
		↓			LC-103 (4'-6')		X	X										
5		11:15			LC-104 (0'-0.5')		X	X	X	X	X	X						
					LC-104 (0.5'-2')		X	X										
		↓			LC-104 (2'-4')		HOLD		AND		FREEZE							
6		11:45			LC-105 (0'-0.5')		X	X	X	X	X	X						
					LC-105 (0.5'-2')		HOLD		AND		FREEZE							
	↓	↓	↓	↓	LC-105 (2'-4')		X	X										

Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-____

Container Type: P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filter

Cooler Present ___Yes ____No
Seals Intact ____Yes ____No NA: ✓
Cooler Temperature: 3.0°C

Sampled by : Daniel Scanlon (Daniel.Scanlon@gza.com)

Comments: (1) TCLP 20X Rule Applies ONLY if noted in comments column

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	3/26/15 @ 1730	3/27/15 0700		3/27/15 0920	3/27/15 0924

Page 44 of 46

ESS Laboratory

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

ESS LAB PROJECT ID: 1503480

Turn Time ___X___Standard Rush_____ Approved By: _____

Reporting Limits -

State where samples were collected: **MA** RI CT NH NJ NY ME Other_____

Is this project for any of the following: (please circle)
MA-MCP CT-RCP NJ-DKQP RGP DOD Other____

Electonic Deliverable Yes ✓ No____
Format: Excel ✓ Access___ PDF ✓ Other____

GZA Project Manager: David E. Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Ave
Norwood, MA 02062
(781) 278-3700

Project No.: 01.0171521.13 Task 001

Project Name: Wynn - Everett

Contract Pricing ____
Special Pricing WO#: _____

ESS Lab Sample ID	Date	Collection Time	Grab -G Composite-C	Matrix	Sample Identification	# of Containers	Analysis: MCP-14 Metals	PAHs by SIM	TOC	SVOCs	PCBs (Aroclors)	EPH	Hexavalent Chromium	Reactivity (Sulfide and Cyanide)	VOCs	% water	Grain Size Analysis	Comment #
7	3/26/15	1145	G	S	LL-105 (4'-6')		X	X	X	X	X	X						
8					LL-109 (0'-0.5')		X	X	X	X	X	X						
					LL-109 (0.5'-2')		HOLD	AND	FREEZE									
					LL-109 (2'-4')		HOLD	AND	FREEZE									
		↓			LL-109 (4'-6')		X	X										
9		1400			LL-108 (0'-0.5')		X	X	X	X	X	X						
					LL-108 (0.5'-2')		X	X										
					LL-108 (2'-4')		HOLD	AND	FREEZE									
10		↓			LL-108 (4'-6')		X	X	X	X	X	X						
11	↓	1515	↓	↓	LL-107 (0'-0.5')		X	X	X	X	X	X						

Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-_____

Container Type: P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filter

Cooler Present ✓ Yes ____No

Seals Intact ____Yes ____No NA: ✓

Cooler Temperature: 3.0°C ICE Mwm 3/27/15

Sampled by : Daniel Scanlon (Daniel.Scanlon@gza.com)

Comments: (1) TCLP 20X Rule Applies ONLY if noted in coments column.

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	3/26/15 @ 1730	3/26/15 0700		3/27/15 0920	3/27/15 0924

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Reporting Limits -

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Is this project for any of the following: (please circle)
MA-MCP CT-RCP NJ-DKQP RGP DOD Other____

Electonic Deliverable Yes____ No____
Format: Excel___ Access___ PDF___ Other_____

GZA Project Manager: David E. Leone
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Project No.: 01.0171521.13 Task 001

Project Name: Wynn - Everett

Contract Pricing _____
Special Pricing WO#: _____

ESS Lab Sample ID	Date	Collection Time	Grab -G Composite-C	Matrix	Sample Identification	# of Containers	Analysis: MCP-14 Metals	PAHs by SIM	TOC	SVOCs	PCBs (Aroclors)	EPH	Hexavalent Chromium	Reactivity (Sulfide and Cyanide)	VOCs	% water	Grain Size Analysis	Comment #
	3/26/15	1515	G	S	LC-107 (0.5'-2')		HOLD AND FREEZE											
12	3/26/15	1515	G	S	LC-107 (2'-4')		X	X	X	X	X	X						

Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-_____

Container Type: P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filter

Cooler Present ✓ Yes ____ No

Seals Intact ____ Yes ____ No NA ✓

Cooler Temperature: 3.0°C Initial 3/27/15

Sampled by : Daniel Scanlon (Daniel.Scanlon@gza.com)

Comments: (1) TCLP 20X Rule Applies ONLY if noted in ~~Sample~~ Section comments column

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	3/26/15 @ 1730	3/27/15 0700	3/27/15	0820	3/27/15 0824

CERTIFICATE OF ANALYSIS

David E Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Avenue
Norwood, MA 02062

RE: Wynn Everett Sediment Phase (01.0171521.13 Task 001)
ESS Laboratory Work Order Number: 1503482

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard
Laboratory Director

REVIEWED
By ESS Laboratory at 11:39 am, Apr 10, 2015

Analytical Summary
The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with NELAC Standards, A2LA and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503482

SAMPLE RECEIPT

The following samples were received on March 27, 2015 for the analyses specified on the enclosed Chain of Custody Record.

To achieve CAM compliance for MCP data, ESS Laboratory has performed and reviewed all QA/QC Requirements and Performance Standards listed in each method. Holding times and preservation have also been reviewed. All CAM requirements have been achieved unless noted in the project narrative.

Each method has been set-up in the laboratory to reach required MCP standards. The methods for aqueous VOA and Soil Methanol VOA have known limitations for certain analytes. The regulatory standards may not be achieved due to these limitations. In addition, for all methods, matrix interferences, dilutions, and %Solids may elevate method reporting limits above regulatory standards. ESS Laboratory can provide, upon request, a Data Checker (regulatory standard comparison spreadsheet) electronic deliverable which will highlight these exceedances.

For EPH soil samples, the aromatic range results have been corrected for identified cartridge contaminant in accordance with the CAM protocol.

Question I: Samples LC-101 2ft-4ft, LC-101 6ft-8ft, LC-103 2ft-4ft, LC-103 4f-6ft, LC-104 0.5ft-2ft, LC-105 2ft-4ft, LL-109 4ft-6ft and LC-108 0.5ft-2ft (1503482-02, 1503482-03, 1503482-07, 1503482-08, 1503482-10, 1503482-12, 1503482-15 and 1503482-17 respectively) for SVOA were analyzed for a subset of the required MCP list per the client's request.

Samples were decanted, per client request, upon receipt by ESS.

Lab Number	Sample Name	Matrix	Analysis
1503482-01	LC-101 0ft-0.5ft	Soil	8270D, EPH8270, MADEP-EPH
1503482-02	LC-101 2ft-4ft	Soil	8270D
1503482-03	LC-101 6ft-8ft	Soil	8270D
1503482-04	LC-102 0ft-0.5ft	Soil	8270D, EPH8270, MADEP-EPH
1503482-05	LC-102 0.5ft-2ft	Soil	8270D, EPH8270, MADEP-EPH
1503482-06	LC-103 0ft-0.5ft	Soil	8270D, EPH8270, MADEP-EPH
1503482-07	LC-103 2ft-4ft	Soil	8270D
1503482-08	LC-103 4ft-6ft	Soil	8270D
1503482-09	LC-104 0ft-0.5ft	Soil	8270D, EPH8270, MADEP-EPH
1503482-10	LC-104 0.5ft-2ft	Soil	8270D
1503482-11	LC-105 0ft-0.5ft	Soil	8270D, EPH8270, MADEP-EPH
1503482-12	LC-105 2ft-4ft	Soil	8270D
1503482-13	LC-105 4ft-6ft	Soil	8270D, EPH8270, MADEP-EPH
1503482-14	LC-109 0ft-0.5ft	Soil	8270D, EPH8270, MADEP-EPH
1503482-15	LC-109 4ft-6ft	Soil	8270D

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase ESS Laboratory Work Order: 1503482

1503482-16	LC-108 0ft-0.5ft	Soil	8270D, EPH8270, MADEP-EPH
1503482-17	LC-108 0.5ft-2ft	Soil	8270D
1503482-18	LC-108 4ft-6ft	Soil	8270D, EPH8270, MADEP-EPH
1503482-19	LC-107 0ft-0.5ft	Soil	8270D, EPH8270, MADEP-EPH
1503482-20	LC-107 2ft-4ft	Soil	8270D, EPH8270, MADEP-EPH
1503482-21	LC-101 0ft-0.5ft	Soil	6010C, 7010, 7471B
1503482-22	LC-101 2ft-4ft	Soil	6010C, 7010, 7471B
1503482-23	LC-101 6ft-8ft	Soil	6010C, 7010, 7471B
1503482-24	LC-102 0ft-0.5ft	Soil	6010C, 7010, 7471B
1503482-25	LC-102 0.5ft-2ft	Soil	6010C, 7010, 7471B
1503482-26	LC-103 0ft-0.5ft	Soil	6010C, 7010, 7471B
1503482-27	LC-103 2ft-4ft	Soil	6010C, 7010, 7471B
1503482-28	LC-103 4ft-6ft	Soil	6010C, 7010, 7471B
1503482-29	LC-104 0ft-0.5ft	Soil	6010C, 7010, 7471B
1503482-30	LC-104 0.5ft-2ft	Soil	6010C, 7010, 7471B
1503482-31	LC-105 0ft-0.5ft	Soil	6010C, 7010, 7471B
1503482-32	LC-105 2ft-4ft	Soil	6010C, 7010, 7471B
1503482-33	LC-105 4ft-6ft	Soil	6010C, 7010, 7471B
1503482-34	LC-109 0ft-0.5ft	Soil	6010C, 7010, 7471B
1503482-35	LC-109 4ft-6ft	Soil	6010C, 7010, 7471B
1503482-36	LC-108 0ft-0.5ft	Soil	6010C, 7010, 7471B
1503482-37	LC-108 0.5ft-2ft	Soil	6010C, 7010, 7471B
1503482-38	LC-108 4ft-6ft	Soil	6010C, 7010, 7471B
1503482-39	LC-107 0ft-0.5ft	Soil	6010C, 7010, 7471B
1503482-40	LC-107 2ft-4ft	Soil	6010C, 7010, 7471B
1503482-41	LC-101 0ft-0.5ft	Soil	8082A
1503482-42	LC-102 0ft-0.5ft	Soil	8082A
1503482-43	LC-102 0.5ft-2ft	Soil	8082A
1503482-44	LC-103 0ft-0.5ft	Soil	8082A
1503482-45	LC-104 0ft-0.5ft	Soil	8082A
1503482-46	LC-105 0ft-0.5ft	Soil	8082A
1503482-47	LC-105 4ft-6ft	Soil	8082A
1503482-48	LC-109 0ft-0.5ft	Soil	8082A
1503482-49	LC-108 0ft-0.5ft	Soil	8082A
1503482-50	LC-108 4ft-6ft	Soil	8082A
1503482-51	LC-107 0ft-0.5ft	Soil	8082A
1503482-52	LC-107 2ft-4ft	Soil	8082A

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase ESS Laboratory Work Order: 1503482

PROJECT NARRATIVE

8082A Polychlorinated Biphenyls (PCB)

1503482-41	**Percent difference between primary and confirmation results exceeds 40% (P).** Aroclor 1248 , Aroclor 1254
1503482-42	**Percent difference between primary and confirmation results exceeds 40% (P).** Aroclor 1248
1503482-43	**Percent difference between primary and confirmation results exceeds 40% (P).** Aroclor 1248
1503482-43	**Surrogate recovery(ies) diluted below the MRL (SD).** Decachlorobiphenyl (% @ 30-150%), Decachlorobiphenyl [2C] (% @ 30-150%), Tetrachloro-m-xylene (% @ 30-150%), Tetrachloro-m-xylene [2C] (% @ 30-150%)
1503482-44	**Percent difference between primary and confirmation results exceeds 40% (P).** Aroclor 1248
1503482-45	**Percent difference between primary and confirmation results exceeds 40% (P).** Aroclor 1248 , Aroclor 1260
1503482-48	**Percent difference between primary and confirmation results exceeds 40% (P).** Aroclor 1248
1503482-50	**Lower value is used due to matrix interferences (LC).** Aroclor 1248
1503482-50	**Percent difference between primary and confirmation results exceeds 40% (P).** Aroclor 1248
1503482-51	**Surrogate recovery(ies) outside of criteria. Reextraction/Reanalysis confirms results (SC).** Decachlorobiphenyl [2C] (29% @ 30-150%)
1503482-51RE1	**Surrogate recovery(ies) outside of criteria. Reextraction/Reanalysis confirms results (SC).** Decachlorobiphenyl [2C] (25% @ 30-150%), Tetrachloro-m-xylene (18% @ 30-150%), Tetrachloro-m-xylene [2C] (17% @ 30-150%)
1503482-52	**Surrogate recovery(ies) diluted below the MRL (SD).** Decachlorobiphenyl (% @ 30-150%), Decachlorobiphenyl [2C] (% @ 30-150%), Tetrachloro-m-xylene (% @ 30-150%), Tetrachloro-m-xylene [2C] (% @ 30-150%)

8270D Semi-Volatile Organic Compounds

1503482-18	**Internal Standard(s) outside of criteria due to matrix (UCM/coelution is present) (IM).** Chrysene-d12 (212% @ 50-200%)
CD50329-BS1	**Blank Spike recovery is below lower control limit (B-).** Aniline (30% @ 40-140%)
CD50329-BSD1	**Relative percent difference for duplicate is outside of criteria (D+).** Aniline (37% @ 30%)
CYC0367-CCV1	**Continuing Calibration recovery is above upper control limit (C+).** 2,4,6-Tribromophenol (131% @ 80-120%), 4-Nitrophenol (139% @ 80-120%)
CYC0367-CCV1	**Continuing Calibration recovery is below lower control limit (C-).** bis(2-chloroisopropyl)Ether (79% @ 80-120%)
CYC0367-TUN1	**Pentachlorophenol tailing factor > 2.**
CYC0371-CCV1	**Continuing Calibration recovery is above upper control limit (C+).**

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase ESS Laboratory Work Order: 1503482

2,4,6-Tribromophenol (131% @ 80-120%), 4-Nitrophenol (128% @ 80-120%), p-Terphenyl-d14 (122% @ 80-120%)

CYC0371-CCV1 **Continuing Calibration recovery is below lower control limit (C-).**
bis(2-chloroisopropyl)Ether (77% @ 80-120%)

CYC0371-TUN1 **Pentachlorophenol tailing factor > 2.**

CYD0019-CCV1 **Continuing Calibration recovery is above upper control limit (C+).**
Azobenzene (124% @ 80-120%)

8270D(SIM) Polynuclear Aromatic Hydrocarbons

1503482-15 **Elevated Method Reporting Limits due to sample matrix (EL).**
Hexachlorobenzene

CC53111-BSD1 **Relative percent difference for duplicate is outside of criteria (D+).**
Acenaphthylene (40% @ 30%), Benzo(a)pyrene (33% @ 30%)

CYD0062-CCV1 **Continuing Calibration recovery is above upper control limit (C+).**
2-Methylnaphthalene (144% @ 70-130%)

MADEP-EPH Extractable Petroleum Hydrocarbons

CYC0372-CCV4 **Continuing Calibration recovery is above upper control limit (C+).**
Dibenzo(a,h)Anthracene (122% @ 80-120%)

No other observations noted.

End of Project Narrative.

DATA USABILITY LINKS

Definitions of Quality Control Parameters

Semivolatile Organics Internal Standard Information

Semivolatile Organics Surrogate Information

Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503482

CURRENT SW-846 METHODOLOGY VERSIONS

Analytical Methods

1010A - Flashpoint
6010C - ICP
6020A - ICP MS
7010 - Graphite Furnace
7196A - Hexavalent Chromium
7470A - Aqueous Mercury
7471B - Solid Mercury
8011 - EDB/DBCP/TCP
8015D - GRO/DRO
8081B - Pesticides
8082A - PCB
8100M - TPH
8151A - Herbicides
8260B - VOA
8270D - SVOA
8270D SIM - SVOA Low Level
9014 - Cyanide
9038 - Sulfate
9040C - Aqueous pH
9045D - Solid pH (Corrosivity)
9050A - Specific Conductance
9056A - Anions (IC)
9060A - TOC
9095B - Paint Filter
MADEP 04-1.1 - EPH / VPH

Prep Methods

3005A - Aqueous ICP and Graphite Furnace Digestion
3020A - Aqueous ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3546 - Microwave Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5030C - Aqueous Purge and Trap
5035 - Solid Purge and Trap

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503482

MassDEP Analytical Protocol Certification Form

MADEP RTN: _____

This form provides certification for the following data set: **1503482-01 through 1503482-52**

Matrices: ( ) Ground Water/Surface Water (X) Soil/Sediment ( ) Drinking Water ( ) Air ( ) Other:_____

CAM Protocol (check all that apply below):

( ) 8260 VOC CAM II A	(X) 7470/7471 Hg CAM III B	( ) MassDEP VPH CAM IV A	( ) 8081 Pesticides CAM V B	( ) 7196 Hex Cr CAM VI B	( ) MassDEP APH CAM IX A
(X) 8270 SVOC CAM II B	(X) 7010 Metals CAM III C	(X) MassDEP EPH CAM IV B	( ) 8151 Herbicides CAM V C	( ) 8330 Explosives CAM VIII A	( ) TO-15 VOC CAM IX B
(X) 6010 Metals CAM III A	( ) 6020 Metals CAM III D	(X) 8082 PCB CAM V A	( ) 6860 Perchlorate CAM VIII B	( ) 9014 Total Cyanide/PAC CAM VI A	

Affirmative responses to questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	Yes (X) No ( )
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	Yes (X) No ( )
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	Yes (X) No ( )
D	Does the laboratory report comply with all the reporting requirements specified in the CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	Yes (X) No ( )
E	a. VPH, EPH, APH and TO-15 only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	Yes (X) No ( )
	b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	Yes ( ) No ( )
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	Yes (X) No ( )

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocols(s)?	Yes (X) No ( )*
	***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**	
H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	Yes ( ) No (X)*
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	Yes ( ) No (X)*

All negative responses must be addressed in an attached laboratory narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: _____ Date: April 10, 2015

Printed Name: Laurel Stoddard Position: Laboratory Director

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-101 0ft-0.5ft
Date Sampled: 03/26/15 10:05
Percent Solids: 49
Initial Volume: 30.2
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503482
ESS Laboratory Sample ID: 1503482-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: JXS
Prepared: 3/30/15 16:37

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.335)		8270D		1	03/31/15 23:16	CYC0371	CD50329
1,2-Dichlorobenzene	ND (0.335)		8270D		1	03/31/15 23:16	CYC0371	CD50329
1,3-Dichlorobenzene	ND (0.335)		8270D		1	03/31/15 23:16	CYC0371	CD50329
1,4-Dichlorobenzene	ND (0.335)		8270D		1	03/31/15 23:16	CYC0371	CD50329
2,4,5-Trichlorophenol	ND (0.335)		8270D		1	03/31/15 23:16	CYC0371	CD50329
2,4,6-Trichlorophenol	ND (0.335)		8270D		1	03/31/15 23:16	CYC0371	CD50329
2,4-Dichlorophenol	ND (0.335)		8270D		1	03/31/15 23:16	CYC0371	CD50329
2,4-Dimethylphenol	ND (0.335)		8270D		1	03/31/15 23:16	CYC0371	CD50329
2,4-Dinitrophenol	ND (1.68)		8270D		1	03/31/15 23:16	CYC0371	CD50329
2,4-Dinitrotoluene	ND (0.335)		8270D		1	03/31/15 23:16	CYC0371	CD50329
2,6-Dinitrotoluene	ND (0.335)		8270D		1	03/31/15 23:16	CYC0371	CD50329
2-Chloronaphthalene	ND (0.335)		8270D		1	03/31/15 23:16	CYC0371	CD50329
2-Chlorophenol	ND (0.335)		8270D		1	03/31/15 23:16	CYC0371	CD50329
2-Methylphenol	ND (0.335)		8270D		1	03/31/15 23:16	CYC0371	CD50329
2-Nitrophenol	ND (0.335)		8270D		1	03/31/15 23:16	CYC0371	CD50329
3,3´-Dichlorobenzidine	ND (0.671)		8270D		1	03/31/15 23:16	CYC0371	CD50329
3+4-Methylphenol	ND (0.671)		8270D		1	03/31/15 23:16	CYC0371	CD50329
4-Bromophenyl-phenylether	ND (0.335)		8270D		1	03/31/15 23:16	CYC0371	CD50329
4-Chloroaniline	ND (0.671)		8270D		1	03/31/15 23:16	CYC0371	CD50329
4-Nitrophenol	ND (1.68)		8270D		1	03/31/15 23:16	CYC0371	CD50329
Acetophenone	ND (0.671)		8270D		1	03/31/15 23:16	CYC0371	CD50329
Aniline	ND (1.68)		8270D		1	03/31/15 23:16	CYC0371	CD50329
Azobenzene	ND (0.335)		8270D		1	03/31/15 23:16	CYC0371	CD50329
bis(2-Chloroethoxy)methane	ND (0.335)		8270D		1	03/31/15 23:16	CYC0371	CD50329
bis(2-Chloroethyl)ether	ND (0.335)		8270D		1	03/31/15 23:16	CYC0371	CD50329
bis(2-chloroisopropyl)Ether	ND (0.335)		8270D		1	03/31/15 23:16	CYC0371	CD50329
bis(2-Ethylhexyl)phthalate	**2.34** (0.335)		8270D		1	03/31/15 23:16	CYC0371	CD50329
Butylbenzylphthalate	ND (0.335)		8270D		1	03/31/15 23:16	CYC0371	CD50329
Dibenzofuran	ND (0.335)		8270D		1	03/31/15 23:16	CYC0371	CD50329
Diethylphthalate	ND (0.335)		8270D		1	03/31/15 23:16	CYC0371	CD50329
Dimethylphthalate	ND (0.335)		8270D		1	03/31/15 23:16	CYC0371	CD50329
Di-n-butylphthalate	ND (0.335)		8270D		1	03/31/15 23:16	CYC0371	CD50329

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-101 0ft-0.5ft
Date Sampled: 03/26/15 10:05
Percent Solids: 49
Initial Volume: 30.2
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503482
ESS Laboratory Sample ID: 1503482-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: JXS
Prepared: 3/30/15 16:37

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Di-n-octylphthalate	ND (0.335)		8270D		1	03/31/15 23:16	CYC0371	CD50329
Hexachlorobenzene	ND (0.335)		8270D		1	03/31/15 23:16	CYC0371	CD50329
Hexachlorobutadiene	ND (0.335)		8270D		1	03/31/15 23:16	CYC0371	CD50329
Hexachloroethane	ND (0.335)		8270D		1	03/31/15 23:16	CYC0371	CD50329
Isophorone	ND (0.335)		8270D		1	03/31/15 23:16	CYC0371	CD50329
Nitrobenzene	ND (0.335)		8270D		1	03/31/15 23:16	CYC0371	CD50329
N-Nitrosodimethylamine	ND (0.335)		8270D		1	03/31/15 23:16	CYC0371	CD50329
Pentachlorophenol	ND (1.68)		8270D		1	03/31/15 23:16	CYC0371	CD50329
Phenol	ND (0.335)		8270D		1	03/31/15 23:16	CYC0371	CD50329

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*57 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*113 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*58 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*74 %*		*30-130*
Surrogate: 2-Fluorophenol	*53 %*		*30-130*
Surrogate: Nitrobenzene-d5	*56 %*		*30-130*
Surrogate: Phenol-d6	*57 %*		*30-130*
Surrogate: p-Terphenyl-d14	*91 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-101 0ft-0.5ft
Date Sampled: 03/26/15 10:05
Percent Solids: 49
Initial Volume: 20.6
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503482
ESS Laboratory Sample ID: 1503482-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 3/31/15 12:26

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	**0.230** (0.025)		8270D		1	04/02/15 9:12	CYD0016	CC53111
Acenaphthene	**0.302** (0.025)		8270D		1	04/02/15 9:12	CYD0016	CC53111
Acenaphthylene	**1.17** (0.025)		8270D		1	04/02/15 9:12	CYD0016	CC53111
Anthracene	**2.65** (0.123)		8270D		5	04/09/15 15:09	CYD0016	CC53111
Benzo(a)anthracene	**3.97** (0.123)		8270D		5	04/09/15 15:09	CYD0016	CC53111
Benzo(a)pyrene	**4.25** (0.123)		8270D		5	04/09/15 15:09	CYD0016	CC53111
Benzo(b)fluoranthene	**5.03** (0.123)		8270D		5	04/09/15 15:09	CYD0016	CC53111
Benzo(g,h,i)perylene	**1.66** (0.025)		8270D		1	04/02/15 9:12	CYD0016	CC53111
Benzo(k)fluoranthene	**1.28** (0.025)		8270D		1	04/02/15 9:12	CYD0016	CC53111
Chrysene	**3.63** (0.123)		8270D		5	04/09/15 15:09	CYD0016	CC53111
Dibenzo(a,h)Anthracene	**0.656** (0.025)		8270D		1	04/02/15 9:12	CYD0016	CC53111
Fluoranthene	**8.56** (0.123)		8270D		5	04/09/15 15:09	CYD0016	CC53111
Fluorene	**0.747** (0.025)		8270D		1	04/02/15 9:12	CYD0016	CC53111
Hexachlorobenzene	ND (0.025)		8270D		1	04/02/15 9:12	CYD0016	CC53111
Indeno(1,2,3-cd)Pyrene	**2.08** (0.025)		8270D		1	04/02/15 9:12	CYD0016	CC53111
Naphthalene	**0.867** (0.025)		8270D		1	04/02/15 9:12	CYD0016	CC53111
Phenanthrene	**5.46** (0.123)		8270D		5	04/09/15 15:09	CYD0016	CC53111
Pyrene	**7.27** (0.123)		8270D		5	04/09/15 15:09	CYD0016	CC53111

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*52 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*72 %*		*30-130*
Surrogate: Nitrobenzene-d5	*69 %*		*30-130*
Surrogate: p-Terphenyl-d14	*91 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-101 0ft-0.5ft
Date Sampled: 03/26/15 10:05
Percent Solids: 49
Initial Volume: 30.1
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1503482
ESS Laboratory Sample ID: 1503482-01
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 3/30/15 16:49

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (25.2)		MADEP-EPH		1	DPS	03/31/15 21:22	CYC0382	CC53008
C19-C36 Aliphatics1	**118** (25.2)		MADEP-EPH		1	DPS	03/31/15 21:22	CYC0382	CC53008
C11-C22 Unadjusted Aromatics1	**88.3** (25.2)		EPH8270		1	JXS	03/31/15 19:09	CYC0372	CC53008
C11-C22 Aromatics1,2	**72.7** (25.2)		EPH8270			JXS	03/31/15 19:09		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*44 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*85 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*82 %*		*40-140*
Surrogate: O-Terphenyl	*62 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-101 2ft-4ft
Date Sampled: 03/26/15 10:05
Percent Solids: 60
Initial Volume: 20.4
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503482
ESS Laboratory Sample ID: 1503482-02
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 3/31/15 12:26

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	ND (0.020)		8270D		1	04/02/15 10:02	CYD0016	CC53111
Acenaphthene	ND (0.020)		8270D		1	04/02/15 10:02	CYD0016	CC53111
Acenaphthylene	**0.051** (0.020)		8270D		1	04/02/15 10:02	CYD0016	CC53111
Anthracene	**0.052** (0.020)		8270D		1	04/02/15 10:02	CYD0016	CC53111
Benzo(a)anthracene	**0.089** (0.020)		8270D		1	04/02/15 10:02	CYD0016	CC53111
Benzo(a)pyrene	**0.091** (0.020)		8270D		1	04/02/15 10:02	CYD0016	CC53111
Benzo(b)fluoranthene	**0.135** (0.020)		8270D		1	04/02/15 10:02	CYD0016	CC53111
Benzo(g,h,i)perylene	**0.045** (0.020)		8270D		1	04/02/15 10:02	CYD0016	CC53111
Benzo(k)fluoranthene	**0.035** (0.020)		8270D		1	04/02/15 10:02	CYD0016	CC53111
Chrysene	**0.100** (0.020)		8270D		1	04/02/15 10:02	CYD0016	CC53111
Dibenzo(a,h)Anthracene	ND (0.020)		8270D		1	04/02/15 10:02	CYD0016	CC53111
Fluoranthene	**0.169** (0.020)		8270D		1	04/02/15 10:02	CYD0016	CC53111
Fluorene	ND (0.020)		8270D		1	04/02/15 10:02	CYD0016	CC53111
Hexachlorobenzene	ND (0.020)		8270D		1	04/02/15 10:02	CYD0016	CC53111
Indeno(1,2,3-cd)Pyrene	**0.052** (0.020)		8270D		1	04/02/15 10:02	CYD0016	CC53111
Naphthalene	**0.055** (0.020)		8270D		1	04/02/15 10:02	CYD0016	CC53111
Phenanthrene	**0.042** (0.020)		8270D		1	04/02/15 10:02	CYD0016	CC53111
Pyrene	**0.193** (0.020)		8270D		1	04/02/15 10:02	CYD0016	CC53111

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*45 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*65 %*		*30-130*
Surrogate: Nitrobenzene-d5	*62 %*		*30-130*
Surrogate: p-Terphenyl-d14	*82 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-101 6ft-8ft
Date Sampled: 03/26/15 10:05
Percent Solids: 74
Initial Volume: 20.3
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503482
ESS Laboratory Sample ID: 1503482-03
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 3/31/15 12:26

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	ND (0.017)		8270D		1	04/02/15 10:52	CYD0016	CC53111
Acenaphthene	ND (0.017)		8270D		1	04/02/15 10:52	CYD0016	CC53111
Acenaphthylene	ND (0.017)		8270D		1	04/02/15 10:52	CYD0016	CC53111
Anthracene	ND (0.017)		8270D		1	04/02/15 10:52	CYD0016	CC53111
Benzo(a)anthracene	ND (0.017)		8270D		1	04/02/15 10:52	CYD0016	CC53111
Benzo(a)pyrene	ND (0.017)		8270D		1	04/02/15 10:52	CYD0016	CC53111
Benzo(b)fluoranthene	ND (0.017)		8270D		1	04/02/15 10:52	CYD0016	CC53111
Benzo(g,h,i)perylene	ND (0.017)		8270D		1	04/02/15 10:52	CYD0016	CC53111
Benzo(k)fluoranthene	ND (0.017)		8270D		1	04/02/15 10:52	CYD0016	CC53111
Chrysene	ND (0.017)		8270D		1	04/02/15 10:52	CYD0016	CC53111
Dibenzo(a,h)Anthracene	ND (0.017)		8270D		1	04/02/15 10:52	CYD0016	CC53111
Fluoranthene	ND (0.017)		8270D		1	04/02/15 10:52	CYD0016	CC53111
Fluorene	ND (0.017)		8270D		1	04/02/15 10:52	CYD0016	CC53111
Hexachlorobenzene	ND (0.017)		8270D		1	04/02/15 10:52	CYD0016	CC53111
Indeno(1,2,3-cd)Pyrene	ND (0.017)		8270D		1	04/02/15 10:52	CYD0016	CC53111
Naphthalene	ND (0.017)		8270D		1	04/02/15 10:52	CYD0016	CC53111
Phenanthrene	ND (0.017)		8270D		1	04/02/15 10:52	CYD0016	CC53111
Pyrene	ND (0.017)		8270D		1	04/02/15 10:52	CYD0016	CC53111

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*69 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*89 %*		*30-130*
Surrogate: Nitrobenzene-d5	*90 %*		*30-130*
Surrogate: p-Terphenyl-d14	*88 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-102 0ft-0.5ft
Date Sampled: 03/26/15 10:30
Percent Solids: 33
Initial Volume: 30
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503482
ESS Laboratory Sample ID: 1503482-04
Sample Matrix: Soil
Units: mg/kg dry
Analyst: JXS
Prepared: 3/30/15 16:37

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.500)		8270D		1	03/31/15 23:47	CYC0371	CD50329
1,2-Dichlorobenzene	ND (0.500)		8270D		1	03/31/15 23:47	CYC0371	CD50329
1,3-Dichlorobenzene	ND (0.500)		8270D		1	03/31/15 23:47	CYC0371	CD50329
1,4-Dichlorobenzene	ND (0.500)		8270D		1	03/31/15 23:47	CYC0371	CD50329
2,4,5-Trichlorophenol	ND (0.500)		8270D		1	03/31/15 23:47	CYC0371	CD50329
2,4,6-Trichlorophenol	ND (0.500)		8270D		1	03/31/15 23:47	CYC0371	CD50329
2,4-Dichlorophenol	ND (0.500)		8270D		1	03/31/15 23:47	CYC0371	CD50329
2,4-Dimethylphenol	ND (0.500)		8270D		1	03/31/15 23:47	CYC0371	CD50329
2,4-Dinitrophenol	ND (2.50)		8270D		1	03/31/15 23:47	CYC0371	CD50329
2,4-Dinitrotoluene	ND (0.500)		8270D		1	03/31/15 23:47	CYC0371	CD50329
2,6-Dinitrotoluene	ND (0.500)		8270D		1	03/31/15 23:47	CYC0371	CD50329
2-Chloronaphthalene	ND (0.500)		8270D		1	03/31/15 23:47	CYC0371	CD50329
2-Chlorophenol	ND (0.500)		8270D		1	03/31/15 23:47	CYC0371	CD50329
2-Methylphenol	ND (0.500)		8270D		1	03/31/15 23:47	CYC0371	CD50329
2-Nitrophenol	ND (0.500)		8270D		1	03/31/15 23:47	CYC0371	CD50329
3,3´-Dichlorobenzidine	ND (1.00)		8270D		1	03/31/15 23:47	CYC0371	CD50329
3+4-Methylphenol	ND (1.00)		8270D		1	03/31/15 23:47	CYC0371	CD50329
4-Bromophenyl-phenylether	ND (0.500)		8270D		1	03/31/15 23:47	CYC0371	CD50329
4-Chloroaniline	ND (1.00)		8270D		1	03/31/15 23:47	CYC0371	CD50329
4-Nitrophenol	ND (2.50)		8270D		1	03/31/15 23:47	CYC0371	CD50329
Acetophenone	ND (1.00)		8270D		1	03/31/15 23:47	CYC0371	CD50329
Aniline	ND (2.50)		8270D		1	03/31/15 23:47	CYC0371	CD50329
Azobenzene	ND (0.500)		8270D		1	03/31/15 23:47	CYC0371	CD50329
bis(2-Chloroethoxy)methane	ND (0.500)		8270D		1	03/31/15 23:47	CYC0371	CD50329
bis(2-Chloroethyl)ether	ND (0.500)		8270D		1	03/31/15 23:47	CYC0371	CD50329
bis(2-chloroisopropyl)Ether	ND (0.500)		8270D		1	03/31/15 23:47	CYC0371	CD50329
bis(2-Ethylhexyl)phthalate	**2.58** (0.500)		8270D		1	03/31/15 23:47	CYC0371	CD50329
Butylbenzylphthalate	ND (0.500)		8270D		1	03/31/15 23:47	CYC0371	CD50329
Dibenzofuran	ND (0.500)		8270D		1	03/31/15 23:47	CYC0371	CD50329
Diethylphthalate	ND (0.500)		8270D		1	03/31/15 23:47	CYC0371	CD50329
Dimethylphthalate	ND (0.500)		8270D		1	03/31/15 23:47	CYC0371	CD50329
Di-n-butylphthalate	ND (0.500)		8270D		1	03/31/15 23:47	CYC0371	CD50329

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-102 0ft-0.5ft
Date Sampled: 03/26/15 10:30
Percent Solids: 33
Initial Volume: 30
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503482
ESS Laboratory Sample ID: 1503482-04
Sample Matrix: Soil
Units: mg/kg dry
Analyst: JXS
Prepared: 3/30/15 16:37

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Di-n-octylphthalate	ND (0.500)		8270D		1	03/31/15 23:47	CYC0371	CD50329
Hexachlorobenzene	ND (0.500)		8270D		1	03/31/15 23:47	CYC0371	CD50329
Hexachlorobutadiene	ND (0.500)		8270D		1	03/31/15 23:47	CYC0371	CD50329
Hexachloroethane	ND (0.500)		8270D		1	03/31/15 23:47	CYC0371	CD50329
Isophorone	ND (0.500)		8270D		1	03/31/15 23:47	CYC0371	CD50329
Nitrobenzene	ND (0.500)		8270D		1	03/31/15 23:47	CYC0371	CD50329
N-Nitrosodimethylamine	ND (0.500)		8270D		1	03/31/15 23:47	CYC0371	CD50329
Pentachlorophenol	ND (2.50)		8270D		1	03/31/15 23:47	CYC0371	CD50329
Phenol	ND (0.500)		8270D		1	03/31/15 23:47	CYC0371	CD50329

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*53 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*105 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*54 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*67 %*		*30-130*
Surrogate: 2-Fluorophenol	*48 %*		*30-130*
Surrogate: Nitrobenzene-d5	*50 %*		*30-130*
Surrogate: Phenol-d6	*53 %*		*30-130*
Surrogate: p-Terphenyl-d14	*83 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-102 0ft-0.5ft
Date Sampled: 03/26/15 10:30
Percent Solids: 33
Initial Volume: 20
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503482
ESS Laboratory Sample ID: 1503482-04
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 3/31/15 12:26

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	**0.127** (0.038)		8270D		1	04/02/15 13:20	CYD0016	CC53111
Acenaphthene	**0.108** (0.038)		8270D		1	04/02/15 13:20	CYD0016	CC53111
Acenaphthylene	**0.341** (0.038)		8270D		1	04/02/15 13:20	CYD0016	CC53111
Anthracene	**0.511** (0.038)		8270D		1	04/02/15 13:20	CYD0016	CC53111
Benzo(a)anthracene	**1.21** (0.038)		8270D		1	04/02/15 13:20	CYD0016	CC53111
Benzo(a)pyrene	**1.51** (0.038)		8270D		1	04/02/15 13:20	CYD0016	CC53111
Benzo(b)fluoranthene	**2.53** (0.038)		8270D		1	04/02/15 13:20	CYD0016	CC53111
Benzo(g,h,i)perylene	**0.706** (0.038)		8270D		1	04/02/15 13:20	CYD0016	CC53111
Benzo(k)fluoranthene	**0.694** (0.038)		8270D		1	04/02/15 13:20	CYD0016	CC53111
Chrysene	**1.57** (0.038)		8270D		1	04/02/15 13:20	CYD0016	CC53111
Dibenzo(a,h)Anthracene	**0.232** (0.038)		8270D		1	04/02/15 13:20	CYD0016	CC53111
Fluoranthene	**2.33** (0.038)		8270D		1	04/02/15 13:20	CYD0016	CC53111
Fluorene	**0.181** (0.038)		8270D		1	04/02/15 13:20	CYD0016	CC53111
Hexachlorobenzene	ND (0.038)		8270D		1	04/02/15 13:20	CYD0016	CC53111
Indeno(1,2,3-cd)Pyrene	**0.888** (0.038)		8270D		1	04/02/15 13:20	CYD0016	CC53111
Naphthalene	**0.544** (0.038)		8270D		1	04/02/15 13:20	CYD0016	CC53111
Phenanthrene	**1.16** (0.038)		8270D		1	04/02/15 13:20	CYD0016	CC53111
Pyrene	**2.45** (0.038)		8270D		1	04/02/15 13:20	CYD0016	CC53111

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*45 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*68 %*		*30-130*
Surrogate: Nitrobenzene-d5	*60 %*		*30-130*
Surrogate: p-Terphenyl-d14	*81 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-102 0ft-0.5ft
Date Sampled: 03/26/15 10:30
Percent Solids: 33
Initial Volume: 30.2
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1503482
ESS Laboratory Sample ID: 1503482-04
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 3/30/15 16:49

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (37.3)		MADEP-EPH		1	DPS	03/31/15 22:12	CYC0382	CC53008
C19-C36 Aliphatics1	**99.4** (37.3)		MADEP-EPH		1	DPS	03/31/15 22:12	CYC0382	CC53008
C11-C22 Unadjusted Aromatics1	**43.0** (37.3)		EPH8270		1	JXS	03/31/15 19:43	CYC0372	CC53008
C11-C22 Aromatics1,2	**40.8** (37.3)		EPH8270			JXS	03/31/15 19:43		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*58 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*72 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*67 %*		*40-140*
Surrogate: O-Terphenyl	*66 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-102 0.5ft-2ft
Date Sampled: 03/26/15 10:30
Percent Solids: 33
Initial Volume: 30.1
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503482
ESS Laboratory Sample ID: 1503482-05
Sample Matrix: Soil
Units: mg/kg dry
Analyst: JXS
Prepared: 3/30/15 16:37

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.505)		8270D		1	04/01/15 0:19	CYC0371	CD50329
1,2-Dichlorobenzene	ND (0.505)		8270D		1	04/01/15 0:19	CYC0371	CD50329
1,3-Dichlorobenzene	ND (0.505)		8270D		1	04/01/15 0:19	CYC0371	CD50329
1,4-Dichlorobenzene	ND (0.505)		8270D		1	04/01/15 0:19	CYC0371	CD50329
2,4,5-Trichlorophenol	ND (0.505)		8270D		1	04/01/15 0:19	CYC0371	CD50329
2,4,6-Trichlorophenol	ND (0.505)		8270D		1	04/01/15 0:19	CYC0371	CD50329
2,4-Dichlorophenol	ND (0.505)		8270D		1	04/01/15 0:19	CYC0371	CD50329
2,4-Dimethylphenol	ND (0.505)		8270D		1	04/01/15 0:19	CYC0371	CD50329
2,4-Dinitrophenol	ND (2.53)		8270D		1	04/01/15 0:19	CYC0371	CD50329
2,4-Dinitrotoluene	ND (0.505)		8270D		1	04/01/15 0:19	CYC0371	CD50329
2,6-Dinitrotoluene	ND (0.505)		8270D		1	04/01/15 0:19	CYC0371	CD50329
2-Chloronaphthalene	ND (0.505)		8270D		1	04/01/15 0:19	CYC0371	CD50329
2-Chlorophenol	ND (0.505)		8270D		1	04/01/15 0:19	CYC0371	CD50329
2-Methylphenol	ND (0.505)		8270D		1	04/01/15 0:19	CYC0371	CD50329
2-Nitrophenol	ND (0.505)		8270D		1	04/01/15 0:19	CYC0371	CD50329
3,3´-Dichlorobenzidine	ND (1.01)		8270D		1	04/01/15 0:19	CYC0371	CD50329
3+4-Methylphenol	ND (1.01)		8270D		1	04/01/15 0:19	CYC0371	CD50329
4-Bromophenyl-phenylether	ND (0.505)		8270D		1	04/01/15 0:19	CYC0371	CD50329
4-Chloroaniline	ND (1.01)		8270D		1	04/01/15 0:19	CYC0371	CD50329
4-Nitrophenol	ND (2.53)		8270D		1	04/01/15 0:19	CYC0371	CD50329
Acetophenone	ND (1.01)		8270D		1	04/01/15 0:19	CYC0371	CD50329
Aniline	ND (2.53)		8270D		1	04/01/15 0:19	CYC0371	CD50329
Azobenzene	ND (0.505)		8270D		1	04/01/15 0:19	CYC0371	CD50329
bis(2-Chloroethoxy)methane	ND (0.505)		8270D		1	04/01/15 0:19	CYC0371	CD50329
bis(2-Chloroethyl)ether	ND (0.505)		8270D		1	04/01/15 0:19	CYC0371	CD50329
bis(2-chloroisopropyl)Ether	ND (0.505)		8270D		1	04/01/15 0:19	CYC0371	CD50329
bis(2-Ethylhexyl)phthalate	**278** (50.5)		8270D		100	04/02/15 2:46	CYC0371	CD50329
Butylbenzylphthalate	ND (0.505)		8270D		1	04/01/15 0:19	CYC0371	CD50329
Dibenzofuran	ND (0.505)		8270D		1	04/01/15 0:19	CYC0371	CD50329
Diethylphthalate	ND (0.505)		8270D		1	04/01/15 0:19	CYC0371	CD50329
Dimethylphthalate	ND (0.505)		8270D		1	04/01/15 0:19	CYC0371	CD50329
Di-n-butylphthalate	ND (0.505)		8270D		1	04/01/15 0:19	CYC0371	CD50329

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-102 0.5ft-2ft
Date Sampled: 03/26/15 10:30
Percent Solids: 33
Initial Volume: 30.1
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503482
ESS Laboratory Sample ID: 1503482-05
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 3/30/15 16:37

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Di-n-octylphthalate	**25.1** (5.05)		8270D		10	04/02/15 2:10	CYC0371	CD50329
Hexachlorobenzene	ND (0.505)		8270D		1	04/01/15 0:19	CYC0371	CD50329
Hexachlorobutadiene	ND (0.505)		8270D		1	04/01/15 0:19	CYC0371	CD50329
Hexachloroethane	ND (0.505)		8270D		1	04/01/15 0:19	CYC0371	CD50329
Isophorone	ND (0.505)		8270D		1	04/01/15 0:19	CYC0371	CD50329
Nitrobenzene	ND (0.505)		8270D		1	04/01/15 0:19	CYC0371	CD50329
N-Nitrosodimethylamine	ND (0.505)		8270D		1	04/01/15 0:19	CYC0371	CD50329
Pentachlorophenol	ND (2.53)		8270D		1	04/01/15 0:19	CYC0371	CD50329
Phenol	ND (0.505)		8270D		1	04/01/15 0:19	CYC0371	CD50329

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*52 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*108 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*52 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*72 %*		*30-130*
Surrogate: 2-Fluorophenol	*46 %*		*30-130*
Surrogate: Nitrobenzene-d5	*53 %*		*30-130*
Surrogate: Phenol-d6	*53 %*		*30-130*
Surrogate: p-Terphenyl-d14	*84 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-102 0.5ft-2ft
Date Sampled: 03/26/15 10:30
Percent Solids: 33
Initial Volume: 20.4
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503482
ESS Laboratory Sample ID: 1503482-05
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 3/31/15 12:26

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	**0.126** (0.075)		8270D		5	04/04/15 7:20	CYD0060	CC53111
Acenaphthene	**0.074** (0.037)		8270D		5	04/04/15 7:20	CYD0060	CC53111
Acenaphthylene	**0.410** (0.187)		8270D		5	04/04/15 7:20	CYD0060	CC53111
Anthracene	**0.363** (0.187)		8270D		5	04/04/15 7:20	CYD0060	CC53111
Benzo(a)anthracene	**0.619** (0.187)		8270D		5	04/04/15 7:20	CYD0060	CC53111
Benzo(a)pyrene	**0.677** (0.187)		8270D		5	04/04/15 7:20	CYD0060	CC53111
Benzo(b)fluoranthene	**0.955** (0.187)		8270D		5	04/04/15 7:20	CYD0060	CC53111
Benzo(g,h,i)perylene	**0.370** (0.187)		8270D		5	04/04/15 7:20	CYD0060	CC53111
Benzo(k)fluoranthene	**0.287** (0.187)		8270D		5	04/04/15 7:20	CYD0060	CC53111
Chrysene	**0.672** (0.187)		8270D		5	04/04/15 7:20	CYD0060	CC53111
Dibenzo(a,h)Anthracene	**0.115** (0.075)		8270D		5	04/04/15 7:20	CYD0060	CC53111
Fluoranthene	**1.19** (0.187)		8270D		5	04/04/15 7:20	CYD0060	CC53111
Fluorene	**0.127** (0.075)		8270D		5	04/04/15 7:20	CYD0060	CC53111
Hexachlorobenzene	ND (0.037)		8270D		5	04/04/15 7:20	CYD0060	CC53111
Indeno(1,2,3-cd)Pyrene	**0.410** (0.187)		8270D		5	04/04/15 7:20	CYD0060	CC53111
Naphthalene	**0.580** (0.187)		8270D		5	04/04/15 7:20	CYD0060	CC53111
Phenanthrene	**0.481** (0.187)		8270D		5	04/04/15 7:20	CYD0060	CC53111
Pyrene	**1.60** (0.187)		8270D		5	04/04/15 7:20	CYD0060	CC53111

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*44 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*77 %*		*30-130*
Surrogate: Nitrobenzene-d5	*66 %*		*30-130*
Surrogate: p-Terphenyl-d14	*87 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-102 0.5ft-2ft
Date Sampled: 03/26/15 10:30
Percent Solids: 33
Initial Volume: 30.3
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1503482
ESS Laboratory Sample ID: 1503482-05
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 3/30/15 16:49

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	**145** (37.7)		MADEP-EPH		1	DPS	03/31/15 23:03	CYC0382	CC53008
C19-C36 Aliphatics1	**266** (37.7)		MADEP-EPH		1	DPS	03/31/15 23:03	CYC0382	CC53008
C11-C22 Unadjusted Aromatics1	**434** (37.7)		EPH8270		1	JXS	03/31/15 20:17	CYC0372	CC53008
C11-C22 Aromatics1,2	**434** (37.7)		EPH8270			JXS	03/31/15 20:17		[CALC]

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1-Chlorooctadecane	*59 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*82 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*76 %*		*40-140*
Surrogate: O-Terphenyl	*108 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-103 0ft-0.5ft
Date Sampled: 03/26/15 10:50
Percent Solids: 45
Initial Volume: 30
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503482
ESS Laboratory Sample ID: 1503482-06
Sample Matrix: Soil
Units: mg/kg dry
Analyst: JXS
Prepared: 3/30/15 16:37

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.373)		8270D		1	04/01/15 0:51	CYC0371	CD50329
1,2-Dichlorobenzene	ND (0.373)		8270D		1	04/01/15 0:51	CYC0371	CD50329
1,3-Dichlorobenzene	ND (0.373)		8270D		1	04/01/15 0:51	CYC0371	CD50329
1,4-Dichlorobenzene	ND (0.373)		8270D		1	04/01/15 0:51	CYC0371	CD50329
2,4,5-Trichlorophenol	ND (0.373)		8270D		1	04/01/15 0:51	CYC0371	CD50329
2,4,6-Trichlorophenol	ND (0.373)		8270D		1	04/01/15 0:51	CYC0371	CD50329
2,4-Dichlorophenol	ND (0.373)		8270D		1	04/01/15 0:51	CYC0371	CD50329
2,4-Dimethylphenol	ND (0.373)		8270D		1	04/01/15 0:51	CYC0371	CD50329
2,4-Dinitrophenol	ND (1.87)		8270D		1	04/01/15 0:51	CYC0371	CD50329
2,4-Dinitrotoluene	ND (0.373)		8270D		1	04/01/15 0:51	CYC0371	CD50329
2,6-Dinitrotoluene	ND (0.373)		8270D		1	04/01/15 0:51	CYC0371	CD50329
2-Chloronaphthalene	ND (0.373)		8270D		1	04/01/15 0:51	CYC0371	CD50329
2-Chlorophenol	ND (0.373)		8270D		1	04/01/15 0:51	CYC0371	CD50329
2-Methylphenol	ND (0.373)		8270D		1	04/01/15 0:51	CYC0371	CD50329
2-Nitrophenol	ND (0.373)		8270D		1	04/01/15 0:51	CYC0371	CD50329
3,3´-Dichlorobenzidine	ND (0.747)		8270D		1	04/01/15 0:51	CYC0371	CD50329
3+4-Methylphenol	ND (0.747)		8270D		1	04/01/15 0:51	CYC0371	CD50329
4-Bromophenyl-phenylether	ND (0.373)		8270D		1	04/01/15 0:51	CYC0371	CD50329
4-Chloroaniline	ND (0.747)		8270D		1	04/01/15 0:51	CYC0371	CD50329
4-Nitrophenol	ND (1.87)		8270D		1	04/01/15 0:51	CYC0371	CD50329
Acetophenone	ND (0.747)		8270D		1	04/01/15 0:51	CYC0371	CD50329
Aniline	ND (1.87)		8270D		1	04/01/15 0:51	CYC0371	CD50329
Azobenzene	ND (0.373)		8270D		1	04/01/15 0:51	CYC0371	CD50329
bis(2-Chloroethoxy)methane	ND (0.373)		8270D		1	04/01/15 0:51	CYC0371	CD50329
bis(2-Chloroethyl)ether	ND (0.373)		8270D		1	04/01/15 0:51	CYC0371	CD50329
bis(2-chloroisopropyl)Ether	ND (0.373)		8270D		1	04/01/15 0:51	CYC0371	CD50329
bis(2-Ethylhexyl)phthalate	**1.80** (0.373)		8270D		1	04/01/15 0:51	CYC0371	CD50329
Butylbenzylphthalate	ND (0.373)		8270D		1	04/01/15 0:51	CYC0371	CD50329
Dibenzofuran	ND (0.373)		8270D		1	04/01/15 0:51	CYC0371	CD50329
Diethylphthalate	ND (0.373)		8270D		1	04/01/15 0:51	CYC0371	CD50329
Dimethylphthalate	ND (0.373)		8270D		1	04/01/15 0:51	CYC0371	CD50329
Di-n-butylphthalate	ND (0.373)		8270D		1	04/01/15 0:51	CYC0371	CD50329

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-103 0ft-0.5ft
Date Sampled: 03/26/15 10:50
Percent Solids: 45
Initial Volume: 30
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503482
ESS Laboratory Sample ID: 1503482-06
Sample Matrix: Soil
Units: mg/kg dry
Analyst: JXS
Prepared: 3/30/15 16:37

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Di-n-octylphthalate	ND (0.373)		8270D		1	04/01/15 0:51	CYC0371	CD50329
Hexachlorobenzene	ND (0.373)		8270D		1	04/01/15 0:51	CYC0371	CD50329
Hexachlorobutadiene	ND (0.373)		8270D		1	04/01/15 0:51	CYC0371	CD50329
Hexachloroethane	ND (0.373)		8270D		1	04/01/15 0:51	CYC0371	CD50329
Isophorone	ND (0.373)		8270D		1	04/01/15 0:51	CYC0371	CD50329
Nitrobenzene	ND (0.373)		8270D		1	04/01/15 0:51	CYC0371	CD50329
N-Nitrosodimethylamine	ND (0.373)		8270D		1	04/01/15 0:51	CYC0371	CD50329
Pentachlorophenol	ND (1.87)		8270D		1	04/01/15 0:51	CYC0371	CD50329
Phenol	ND (0.373)		8270D		1	04/01/15 0:51	CYC0371	CD50329

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*57 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*112 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*57 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*74 %*		*30-130*
Surrogate: 2-Fluorophenol	*53 %*		*30-130*
Surrogate: Nitrobenzene-d5	*57 %*		*30-130*
Surrogate: Phenol-d6	*56 %*		*30-130*
Surrogate: p-Terphenyl-d14	*86 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-103 0ft-0.5ft
Date Sampled: 03/26/15 10:50
Percent Solids: 45
Initial Volume: 20.1
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503482
ESS Laboratory Sample ID: 1503482-06
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 3/31/15 12:26

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	**0.049** (0.028)		8270D		1	04/04/15 1:33	CYD0060	CC53111
Acenaphthene	**0.054** (0.028)		8270D		1	04/04/15 1:33	CYD0060	CC53111
Acenaphthylene	**0.221** (0.028)		8270D		1	04/04/15 1:33	CYD0060	CC53111
Anthracene	**0.270** (0.028)		8270D		1	04/04/15 1:33	CYD0060	CC53111
Benzo(a)anthracene	**0.726** (0.028)		8270D		1	04/04/15 1:33	CYD0060	CC53111
Benzo(a)pyrene	**0.920** (0.028)		8270D		1	04/04/15 1:33	CYD0060	CC53111
Benzo(b)fluoranthene	**1.29** (0.028)		8270D		1	04/04/15 1:33	CYD0060	CC53111
Benzo(g,h,i)perylene	**0.759** (0.028)		8270D		1	04/04/15 1:33	CYD0060	CC53111
Benzo(k)fluoranthene	**0.326** (0.028)		8270D		1	04/04/15 1:33	CYD0060	CC53111
Chrysene	**0.870** (0.028)		8270D		1	04/04/15 1:33	CYD0060	CC53111
Dibenzo(a,h)Anthracene	**0.185** (0.028)		8270D		1	04/04/15 1:33	CYD0060	CC53111
Fluoranthene	**1.38** (0.028)		8270D		1	04/04/15 1:33	CYD0060	CC53111
Fluorene	**0.084** (0.028)		8270D		1	04/04/15 1:33	CYD0060	CC53111
Hexachlorobenzene	ND (0.028)		8270D		1	04/04/15 1:33	CYD0060	CC53111
Indeno(1,2,3-cd)Pyrene	**0.824** (0.028)		8270D		1	04/04/15 1:33	CYD0060	CC53111
Naphthalene	**0.248** (0.028)		8270D		1	04/04/15 1:33	CYD0060	CC53111
Phenanthrene	**0.609** (0.028)		8270D		1	04/04/15 1:33	CYD0060	CC53111
Pyrene	**1.51** (0.028)		8270D		1	04/04/15 1:33	CYD0060	CC53111

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*46 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*70 %*		*30-130*
Surrogate: Nitrobenzene-d5	*63 %*		*30-130*
Surrogate: p-Terphenyl-d14	*81 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-103 0ft-0.5ft
Date Sampled: 03/26/15 10:50
Percent Solids: 45
Initial Volume: 30.2
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1503482
ESS Laboratory Sample ID: 1503482-06
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 3/30/15 16:49

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (27.8)		MADEP-EPH		1	DPS	03/31/15 23:53	CYC0382	CC53008
C19-C36 Aliphatics1	**90.7** (27.8)		MADEP-EPH		1	DPS	03/31/15 23:53	CYC0382	CC53008
C11-C22 Unadjusted Aromatics1	**58.9** (27.8)		EPH8270		1	JXS	03/31/15 20:51	CYC0372	CC53008
C11-C22 Aromatics1,2	**53.0** (27.8)		EPH8270			JXS	03/31/15 20:51		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*58 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*91 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*88 %*		*40-140*
Surrogate: O-Terphenyl	*76 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-103 2ft-4ft
Date Sampled: 03/26/15 10:50
Percent Solids: 72
Initial Volume: 20.6
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503482
ESS Laboratory Sample ID: 1503482-07
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 3/31/15 12:26

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	ND (0.017)		8270D		1	04/02/15 15:50	CYD0016	CC53111
Acenaphthene	ND (0.017)		8270D		1	04/02/15 15:50	CYD0016	CC53111
Acenaphthylene	ND (0.017)		8270D		1	04/02/15 15:50	CYD0016	CC53111
Anthracene	ND (0.017)		8270D		1	04/02/15 15:50	CYD0016	CC53111
Benzo(a)anthracene	ND (0.017)		8270D		1	04/02/15 15:50	CYD0016	CC53111
Benzo(a)pyrene	ND (0.017)		8270D		1	04/02/15 15:50	CYD0016	CC53111
Benzo(b)fluoranthene	ND (0.017)		8270D		1	04/02/15 15:50	CYD0016	CC53111
Benzo(g,h,i)perylene	ND (0.017)		8270D		1	04/02/15 15:50	CYD0016	CC53111
Benzo(k)fluoranthene	ND (0.017)		8270D		1	04/02/15 15:50	CYD0016	CC53111
Chrysene	ND (0.017)		8270D		1	04/02/15 15:50	CYD0016	CC53111
Dibenzo(a,h)Anthracene	ND (0.017)		8270D		1	04/02/15 15:50	CYD0016	CC53111
Fluoranthene	ND (0.017)		8270D		1	04/02/15 15:50	CYD0016	CC53111
Fluorene	ND (0.017)		8270D		1	04/02/15 15:50	CYD0016	CC53111
Hexachlorobenzene	ND (0.017)		8270D		1	04/02/15 15:50	CYD0016	CC53111
Indeno(1,2,3-cd)Pyrene	ND (0.017)		8270D		1	04/02/15 15:50	CYD0016	CC53111
Naphthalene	ND (0.017)		8270D		1	04/02/15 15:50	CYD0016	CC53111
Phenanthrene	ND (0.017)		8270D		1	04/02/15 15:50	CYD0016	CC53111
Pyrene	**0.023** (0.017)		8270D		1	04/02/15 15:50	CYD0016	CC53111

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*70 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*87 %*		*30-130*
Surrogate: Nitrobenzene-d5	*89 %*		*30-130*
Surrogate: p-Terphenyl-d14	*88 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-103 4ft-6ft
Date Sampled: 03/26/15 10:50
Percent Solids: 74
Initial Volume: 20.3
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503482
ESS Laboratory Sample ID: 1503482-08
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 3/31/15 12:26

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	ND (0.017)		8270D		1	04/04/15 8:09	CYD0060	CC53111
Acenaphthene	ND (0.017)		8270D		1	04/04/15 8:09	CYD0060	CC53111
Acenaphthylene	ND (0.017)		8270D		1	04/04/15 8:09	CYD0060	CC53111
Anthracene	ND (0.017)		8270D		1	04/04/15 8:09	CYD0060	CC53111
Benzo(a)anthracene	ND (0.017)		8270D		1	04/04/15 8:09	CYD0060	CC53111
Benzo(a)pyrene	ND (0.017)		8270D		1	04/04/15 8:09	CYD0060	CC53111
Benzo(b)fluoranthene	ND (0.017)		8270D		1	04/04/15 8:09	CYD0060	CC53111
Benzo(g,h,i)perylene	ND (0.017)		8270D		1	04/04/15 8:09	CYD0060	CC53111
Benzo(k)fluoranthene	ND (0.017)		8270D		1	04/04/15 8:09	CYD0060	CC53111
Chrysene	ND (0.017)		8270D		1	04/04/15 8:09	CYD0060	CC53111
Dibenzo(a,h)Anthracene	ND (0.017)		8270D		1	04/04/15 8:09	CYD0060	CC53111
Fluoranthene	ND (0.017)		8270D		1	04/04/15 8:09	CYD0060	CC53111
Fluorene	ND (0.017)		8270D		1	04/04/15 8:09	CYD0060	CC53111
Hexachlorobenzene	ND (0.017)		8270D		1	04/04/15 8:09	CYD0060	CC53111
Indeno(1,2,3-cd)Pyrene	ND (0.017)		8270D		1	04/04/15 8:09	CYD0060	CC53111
Naphthalene	ND (0.017)		8270D		1	04/04/15 8:09	CYD0060	CC53111
Phenanthrene	ND (0.017)		8270D		1	04/04/15 8:09	CYD0060	CC53111
Pyrene	ND (0.017)		8270D		1	04/04/15 8:09	CYD0060	CC53111

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*60 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*76 %*		*30-130*
Surrogate: Nitrobenzene-d5	*74 %*		*30-130*
Surrogate: p-Terphenyl-d14	*79 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-104 0ft-0.5ft
Date Sampled: 03/26/15 11:15
Percent Solids: 36
Initial Volume: 30.4
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503482
ESS Laboratory Sample ID: 1503482-09
Sample Matrix: Soil
Units: mg/kg dry
Analyst: JXS
Prepared: 3/30/15 16:37

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.455)		8270D		1	04/01/15 1:22	CYC0371	CD50329
1,2-Dichlorobenzene	ND (0.455)		8270D		1	04/01/15 1:22	CYC0371	CD50329
1,3-Dichlorobenzene	ND (0.455)		8270D		1	04/01/15 1:22	CYC0371	CD50329
1,4-Dichlorobenzene	ND (0.455)		8270D		1	04/01/15 1:22	CYC0371	CD50329
2,4,5-Trichlorophenol	ND (0.455)		8270D		1	04/01/15 1:22	CYC0371	CD50329
2,4,6-Trichlorophenol	ND (0.455)		8270D		1	04/01/15 1:22	CYC0371	CD50329
2,4-Dichlorophenol	ND (0.455)		8270D		1	04/01/15 1:22	CYC0371	CD50329
2,4-Dimethylphenol	ND (0.455)		8270D		1	04/01/15 1:22	CYC0371	CD50329
2,4-Dinitrophenol	ND (2.28)		8270D		1	04/01/15 1:22	CYC0371	CD50329
2,4-Dinitrotoluene	ND (0.455)		8270D		1	04/01/15 1:22	CYC0371	CD50329
2,6-Dinitrotoluene	ND (0.455)		8270D		1	04/01/15 1:22	CYC0371	CD50329
2-Chloronaphthalene	ND (0.455)		8270D		1	04/01/15 1:22	CYC0371	CD50329
2-Chlorophenol	ND (0.455)		8270D		1	04/01/15 1:22	CYC0371	CD50329
2-Methylphenol	ND (0.455)		8270D		1	04/01/15 1:22	CYC0371	CD50329
2-Nitrophenol	ND (0.455)		8270D		1	04/01/15 1:22	CYC0371	CD50329
3,3´-Dichlorobenzidine	ND (0.912)		8270D		1	04/01/15 1:22	CYC0371	CD50329
3+4-Methylphenol	ND (0.912)		8270D		1	04/01/15 1:22	CYC0371	CD50329
4-Bromophenyl-phenylether	ND (0.455)		8270D		1	04/01/15 1:22	CYC0371	CD50329
4-Chloroaniline	ND (0.912)		8270D		1	04/01/15 1:22	CYC0371	CD50329
4-Nitrophenol	ND (2.28)		8270D		1	04/01/15 1:22	CYC0371	CD50329
Acetophenone	ND (0.912)		8270D		1	04/01/15 1:22	CYC0371	CD50329
Aniline	ND (2.28)		8270D		1	04/01/15 1:22	CYC0371	CD50329
Azobenzene	ND (0.455)		8270D		1	04/01/15 1:22	CYC0371	CD50329
bis(2-Chloroethoxy)methane	ND (0.455)		8270D		1	04/01/15 1:22	CYC0371	CD50329
bis(2-Chloroethyl)ether	ND (0.455)		8270D		1	04/01/15 1:22	CYC0371	CD50329
bis(2-chloroisopropyl)Ether	ND (0.455)		8270D		1	04/01/15 1:22	CYC0371	CD50329
bis(2-Ethylhexyl)phthalate	**2.44** (0.455)		8270D		1	04/01/15 1:22	CYC0371	CD50329
Butylbenzylphthalate	ND (0.455)		8270D		1	04/01/15 1:22	CYC0371	CD50329
Dibenzofuran	ND (0.455)		8270D		1	04/01/15 1:22	CYC0371	CD50329
Diethylphthalate	ND (0.455)		8270D		1	04/01/15 1:22	CYC0371	CD50329
Dimethylphthalate	ND (0.455)		8270D		1	04/01/15 1:22	CYC0371	CD50329
Di-n-butylphthalate	ND (0.455)		8270D		1	04/01/15 1:22	CYC0371	CD50329

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-104 0ft-0.5ft
Date Sampled: 03/26/15 11:15
Percent Solids: 36
Initial Volume: 30.4
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503482
ESS Laboratory Sample ID: 1503482-09
Sample Matrix: Soil
Units: mg/kg dry
Analyst: JXS
Prepared: 3/30/15 16:37

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Di-n-octylphthalate	ND (0.455)		8270D		1	04/01/15 1:22	CYC0371	CD50329
Hexachlorobenzene	ND (0.455)		8270D		1	04/01/15 1:22	CYC0371	CD50329
Hexachlorobutadiene	ND (0.455)		8270D		1	04/01/15 1:22	CYC0371	CD50329
Hexachloroethane	ND (0.455)		8270D		1	04/01/15 1:22	CYC0371	CD50329
Isophorone	ND (0.455)		8270D		1	04/01/15 1:22	CYC0371	CD50329
Nitrobenzene	ND (0.455)		8270D		1	04/01/15 1:22	CYC0371	CD50329
N-Nitrosodimethylamine	ND (0.455)		8270D		1	04/01/15 1:22	CYC0371	CD50329
Pentachlorophenol	ND (2.28)		8270D		1	04/01/15 1:22	CYC0371	CD50329
Phenol	ND (0.455)		8270D		1	04/01/15 1:22	CYC0371	CD50329

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*51 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*100 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*52 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*63 %*		*30-130*
Surrogate: 2-Fluorophenol	*46 %*		*30-130*
Surrogate: Nitrobenzene-d5	*48 %*		*30-130*
Surrogate: Phenol-d6	*51 %*		*30-130*
Surrogate: p-Terphenyl-d14	*78 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-104 0ft-0.5ft
Date Sampled: 03/26/15 11:15
Percent Solids: 36
Initial Volume: 20.1
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503482
ESS Laboratory Sample ID: 1503482-09
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 3/31/15 12:26

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	**0.041** (0.034)		8270D		1	04/04/15 4:02	CYD0060	CC53111
Acenaphthene	**0.058** (0.034)		8270D		1	04/04/15 4:02	CYD0060	CC53111
Acenaphthylene	**0.176** (0.034)		8270D		1	04/04/15 4:02	CYD0060	CC53111
Anthracene	**0.242** (0.034)		8270D		1	04/04/15 4:02	CYD0060	CC53111
Benzo(a)anthracene	**0.713** (0.034)		8270D		1	04/04/15 4:02	CYD0060	CC53111
Benzo(a)pyrene	**0.884** (0.034)		8270D		1	04/04/15 4:02	CYD0060	CC53111
Benzo(b)fluoranthene	**1.27** (0.034)		8270D		1	04/04/15 4:02	CYD0060	CC53111
Benzo(g,h,i)perylene	**0.617** (0.034)		8270D		1	04/04/15 4:02	CYD0060	CC53111
Benzo(k)fluoranthene	**0.308** (0.034)		8270D		1	04/04/15 4:02	CYD0060	CC53111
Chrysene	**0.924** (0.034)		8270D		1	04/04/15 4:02	CYD0060	CC53111
Dibenzo(a,h)Anthracene	**0.168** (0.034)		8270D		1	04/04/15 4:02	CYD0060	CC53111
Fluoranthene	**1.52** (0.034)		8270D		1	04/04/15 4:02	CYD0060	CC53111
Fluorene	**0.082** (0.034)		8270D		1	04/04/15 4:02	CYD0060	CC53111
Hexachlorobenzene	ND (0.034)		8270D		1	04/04/15 4:02	CYD0060	CC53111
Indeno(1,2,3-cd)Pyrene	**0.699** (0.034)		8270D		1	04/04/15 4:02	CYD0060	CC53111
Naphthalene	**0.212** (0.034)		8270D		1	04/04/15 4:02	CYD0060	CC53111
Phenanthrene	**0.718** (0.034)		8270D		1	04/04/15 4:02	CYD0060	CC53111
Pyrene	**1.45** (0.034)		8270D		1	04/04/15 4:02	CYD0060	CC53111

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*51 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*73 %*		*30-130*
Surrogate: Nitrobenzene-d5	*70 %*		*30-130*
Surrogate: p-Terphenyl-d14	*83 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-104 0ft-0.5ft
Date Sampled: 03/26/15 11:15
Percent Solids: 36
Initial Volume: 30.3
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1503482
ESS Laboratory Sample ID: 1503482-09
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 3/30/15 16:49

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (34.3)		MADEP-EPH		1	DPS	04/01/15 0:44	CYC0382	CC53008
C19-C36 Aliphatics1	**105** (34.3)		MADEP-EPH		1	DPS	04/01/15 0:44	CYC0382	CC53008
C11-C22 Unadjusted Aromatics1	**51.1** (34.3)		EPH8270		1	JXS	03/31/15 21:25	CYC0372	CC53008
C11-C22 Aromatics1,2	**47.7** (34.3)		EPH8270			JXS	03/31/15 21:25		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*55 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*93 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*92 %*		*40-140*
Surrogate: O-Terphenyl	*68 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-104 0.5ft-2ft
Date Sampled: 03/26/15 11:15
Percent Solids: 61
Initial Volume: 20.6
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503482
ESS Laboratory Sample ID: 1503482-10
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 3/31/15 12:26

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	**0.447** (0.020)		8270D		1	04/04/15 4:52	CYD0060	CC53111
Acenaphthene	**1.56** (0.020)		8270D		1	04/04/15 4:52	CYD0060	CC53111
Acenaphthylene	**1.04** (0.020)		8270D		1	04/04/15 4:52	CYD0060	CC53111
Anthracene	**6.84** (0.200)		8270D		10	04/08/15 5:57	CYD0060	CC53111
Benzo(a)anthracene	**11.8** (0.200)		8270D		10	04/08/15 5:57	CYD0060	CC53111
Benzo(a)pyrene	**11.5** (0.200)		8270D		10	04/08/15 5:57	CYD0060	CC53111
Benzo(b)fluoranthene	**13.7** (0.200)		8270D		10	04/08/15 5:57	CYD0060	CC53111
Benzo(g,h,i)perylene	**7.45** (0.200)		8270D		10	04/08/15 5:57	CYD0060	CC53111
Benzo(k)fluoranthene	**1.61** (0.020)		8270D		1	04/04/15 4:52	CYD0060	CC53111
Chrysene	**11.4** (0.200)		8270D		10	04/08/15 5:57	CYD0060	CC53111
Dibenzo(a,h)Anthracene	**1.74** (0.200)		8270D		10	04/08/15 5:57	CYD0060	CC53111
Fluoranthene	**33.8** (2.00)		8270D		100	04/08/15 13:19	CYD0060	CC53111
Fluorene	**2.87** (0.200)		8270D		10	04/08/15 5:57	CYD0060	CC53111
Hexachlorobenzene	ND (0.020)		8270D		1	04/04/15 4:52	CYD0060	CC53111
Indeno(1,2,3-cd)Pyrene	**8.75** (0.200)		8270D		10	04/08/15 5:57	CYD0060	CC53111
Naphthalene	**1.30** (0.020)		8270D		1	04/04/15 4:52	CYD0060	CC53111
Phenanthrene	**28.3** (2.00)		8270D		100	04/08/15 13:19	CYD0060	CC53111
Pyrene	**29.8** (2.00)		8270D		100	04/08/15 13:19	CYD0060	CC53111

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*51 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*72 %*		*30-130*
Surrogate: Nitrobenzene-d5	*63 %*		*30-130*
Surrogate: p-Terphenyl-d14	*105 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-105 0ft-0.5ft
Date Sampled: 03/26/15 11:45
Percent Solids: 33
Initial Volume: 30.1
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503482
ESS Laboratory Sample ID: 1503482-11
Sample Matrix: Soil
Units: mg/kg dry
Analyst: JXS
Prepared: 3/30/15 16:37

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.498)		8270D		1	04/01/15 1:54	CYC0371	CD50329
1,2-Dichlorobenzene	ND (0.498)		8270D		1	04/01/15 1:54	CYC0371	CD50329
1,3-Dichlorobenzene	ND (0.498)		8270D		1	04/01/15 1:54	CYC0371	CD50329
1,4-Dichlorobenzene	ND (0.498)		8270D		1	04/01/15 1:54	CYC0371	CD50329
2,4,5-Trichlorophenol	ND (0.498)		8270D		1	04/01/15 1:54	CYC0371	CD50329
2,4,6-Trichlorophenol	ND (0.498)		8270D		1	04/01/15 1:54	CYC0371	CD50329
2,4-Dichlorophenol	ND (0.498)		8270D		1	04/01/15 1:54	CYC0371	CD50329
2,4-Dimethylphenol	ND (0.498)		8270D		1	04/01/15 1:54	CYC0371	CD50329
2,4-Dinitrophenol	ND (2.50)		8270D		1	04/01/15 1:54	CYC0371	CD50329
2,4-Dinitrotoluene	ND (0.498)		8270D		1	04/01/15 1:54	CYC0371	CD50329
2,6-Dinitrotoluene	ND (0.498)		8270D		1	04/01/15 1:54	CYC0371	CD50329
2-Chloronaphthalene	ND (0.498)		8270D		1	04/01/15 1:54	CYC0371	CD50329
2-Chlorophenol	ND (0.498)		8270D		1	04/01/15 1:54	CYC0371	CD50329
2-Methylphenol	ND (0.498)		8270D		1	04/01/15 1:54	CYC0371	CD50329
2-Nitrophenol	ND (0.498)		8270D		1	04/01/15 1:54	CYC0371	CD50329
3,3´-Dichlorobenzidine	ND (0.997)		8270D		1	04/01/15 1:54	CYC0371	CD50329
3+4-Methylphenol	ND (0.997)		8270D		1	04/01/15 1:54	CYC0371	CD50329
4-Bromophenyl-phenylether	ND (0.498)		8270D		1	04/01/15 1:54	CYC0371	CD50329
4-Chloroaniline	ND (0.997)		8270D		1	04/01/15 1:54	CYC0371	CD50329
4-Nitrophenol	ND (2.50)		8270D		1	04/01/15 1:54	CYC0371	CD50329
Acetophenone	ND (0.997)		8270D		1	04/01/15 1:54	CYC0371	CD50329
Aniline	ND (2.50)		8270D		1	04/01/15 1:54	CYC0371	CD50329
Azobenzene	ND (0.498)		8270D		1	04/01/15 1:54	CYC0371	CD50329
bis(2-Chloroethoxy)methane	ND (0.498)		8270D		1	04/01/15 1:54	CYC0371	CD50329
bis(2-Chloroethyl)ether	ND (0.498)		8270D		1	04/01/15 1:54	CYC0371	CD50329
bis(2-chloroisopropyl)Ether	ND (0.498)		8270D		1	04/01/15 1:54	CYC0371	CD50329
bis(2-Ethylhexyl)phthalate	**2.43** (0.498)		8270D		1	04/01/15 1:54	CYC0371	CD50329
Butylbenzylphthalate	ND (0.498)		8270D		1	04/01/15 1:54	CYC0371	CD50329
Dibenzofuran	ND (0.498)		8270D		1	04/01/15 1:54	CYC0371	CD50329
Diethylphthalate	ND (0.498)		8270D		1	04/01/15 1:54	CYC0371	CD50329
Dimethylphthalate	ND (0.498)		8270D		1	04/01/15 1:54	CYC0371	CD50329
Di-n-butylphthalate	ND (0.498)		8270D		1	04/01/15 1:54	CYC0371	CD50329

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-105 0ft-0.5ft
Date Sampled: 03/26/15 11:45
Percent Solids: 33
Initial Volume: 30.1
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503482
ESS Laboratory Sample ID: 1503482-11
Sample Matrix: Soil
Units: mg/kg dry
Analyst: JXS
Prepared: 3/30/15 16:37

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Di-n-octylphthalate	ND (0.498)		8270D		1	04/01/15 1:54	CYC0371	CD50329
Hexachlorobenzene	ND (0.498)		8270D		1	04/01/15 1:54	CYC0371	CD50329
Hexachlorobutadiene	ND (0.498)		8270D		1	04/01/15 1:54	CYC0371	CD50329
Hexachloroethane	ND (0.498)		8270D		1	04/01/15 1:54	CYC0371	CD50329
Isophorone	ND (0.498)		8270D		1	04/01/15 1:54	CYC0371	CD50329
Nitrobenzene	ND (0.498)		8270D		1	04/01/15 1:54	CYC0371	CD50329
N-Nitrosodimethylamine	ND (0.498)		8270D		1	04/01/15 1:54	CYC0371	CD50329
Pentachlorophenol	ND (2.50)		8270D		1	04/01/15 1:54	CYC0371	CD50329
Phenol	ND (0.498)		8270D		1	04/01/15 1:54	CYC0371	CD50329

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*54 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*111 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*55 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*71 %*		*30-130*
Surrogate: 2-Fluorophenol	*50 %*		*30-130*
Surrogate: Nitrobenzene-d5	*57 %*		*30-130*
Surrogate: Phenol-d6	*53 %*		*30-130*
Surrogate: p-Terphenyl-d14	*83 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-105 0ft-0.5ft
Date Sampled: 03/26/15 11:45
Percent Solids: 33
Initial Volume: 20.5
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503482
ESS Laboratory Sample ID: 1503482-11
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 3/31/15 12:26

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	**0.046** (0.037)		8270D		1	04/04/15 2:23	CYD0060	CC53111
Acenaphthene	**0.070** (0.037)		8270D		1	04/04/15 2:23	CYD0060	CC53111
Acenaphthylene	**0.296** (0.037)		8270D		1	04/04/15 2:23	CYD0060	CC53111
Anthracene	**0.379** (0.037)		8270D		1	04/04/15 2:23	CYD0060	CC53111
Benzo(a)anthracene	**1.07** (0.037)		8270D		1	04/04/15 2:23	CYD0060	CC53111
Benzo(a)pyrene	**1.45** (0.037)		8270D		1	04/04/15 2:23	CYD0060	CC53111
Benzo(b)fluoranthene	**2.30** (0.037)		8270D		1	04/04/15 2:23	CYD0060	CC53111
Benzo(g,h,i)perylene	**1.08** (0.037)		8270D		1	04/04/15 2:23	CYD0060	CC53111
Benzo(k)fluoranthene	**0.490** (0.037)		8270D		1	04/04/15 2:23	CYD0060	CC53111
Chrysene	**1.48** (0.037)		8270D		1	04/04/15 2:23	CYD0060	CC53111
Dibenzo(a,h)Anthracene	**0.296** (0.037)		8270D		1	04/04/15 2:23	CYD0060	CC53111
Fluoranthene	**2.28** (0.037)		8270D		1	04/04/15 2:23	CYD0060	CC53111
Fluorene	**0.106** (0.037)		8270D		1	04/04/15 2:23	CYD0060	CC53111
Hexachlorobenzene	ND (0.037)		8270D		1	04/04/15 2:23	CYD0060	CC53111
Indeno(1,2,3-cd)Pyrene	**1.24** (0.037)		8270D		1	04/04/15 2:23	CYD0060	CC53111
Naphthalene	**0.223** (0.037)		8270D		1	04/04/15 2:23	CYD0060	CC53111
Phenanthrene	**0.953** (0.037)		8270D		1	04/04/15 2:23	CYD0060	CC53111
Pyrene	**2.33** (0.037)		8270D		1	04/04/15 2:23	CYD0060	CC53111

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*43 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*66 %*		*30-130*
Surrogate: Nitrobenzene-d5	*58 %*		*30-130*
Surrogate: p-Terphenyl-d14	*83 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-105 0ft-0.5ft
Date Sampled: 03/26/15 11:45
Percent Solids: 33
Initial Volume: 30.4
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1503482
ESS Laboratory Sample ID: 1503482-11
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 3/30/15 16:49

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (37.0)		MADEP-EPH		1	DPS	04/01/15 1:35	CYC0382	CC53008
C19-C36 Aliphatics1	**109** (37.0)		MADEP-EPH		1	DPS	04/01/15 1:35	CYC0382	CC53008
C11-C22 Unadjusted Aromatics1	**49.1** (37.0)		EPH8270		1	JXS	03/31/15 22:00	CYC0372	CC53008
C11-C22 Aromatics1,2	**45.3** (37.0)		EPH8270			JXS	03/31/15 22:00		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*60 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*84 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*84 %*		*40-140*
Surrogate: O-Terphenyl	*67 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-105 2ft-4ft
Date Sampled: 03/26/15 11:45
Percent Solids: 44
Initial Volume: 20
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503482
ESS Laboratory Sample ID: 1503482-12
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 3/31/15 12:26

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	ND (0.028)		8270D		1	04/04/15 3:12	CYD0060	CC53111
Acenaphthene	ND (0.028)		8270D		1	04/04/15 3:12	CYD0060	CC53111
Acenaphthylene	**0.150** (0.028)		8270D		1	04/04/15 3:12	CYD0060	CC53111
Anthracene	**0.137** (0.028)		8270D		1	04/04/15 3:12	CYD0060	CC53111
Benzo(a)anthracene	**0.181** (0.028)		8270D		1	04/04/15 3:12	CYD0060	CC53111
Benzo(a)pyrene	**0.244** (0.028)		8270D		1	04/04/15 3:12	CYD0060	CC53111
Benzo(b)fluoranthene	**0.328** (0.028)		8270D		1	04/04/15 3:12	CYD0060	CC53111
Benzo(g,h,i)perylene	**0.178** (0.028)		8270D		1	04/04/15 3:12	CYD0060	CC53111
Benzo(k)fluoranthene	**0.093** (0.028)		8270D		1	04/04/15 3:12	CYD0060	CC53111
Chrysene	**0.232** (0.028)		8270D		1	04/04/15 3:12	CYD0060	CC53111
Dibenzo(a,h)Anthracene	**0.053** (0.028)		8270D		1	04/04/15 3:12	CYD0060	CC53111
Fluoranthene	**0.369** (0.028)		8270D		1	04/04/15 3:12	CYD0060	CC53111
Fluorene	**0.030** (0.028)		8270D		1	04/04/15 3:12	CYD0060	CC53111
Hexachlorobenzene	ND (0.028)		8270D		1	04/04/15 3:12	CYD0060	CC53111
Indeno(1,2,3-cd)Pyrene	**0.184** (0.028)		8270D		1	04/04/15 3:12	CYD0060	CC53111
Naphthalene	**0.176** (0.028)		8270D		1	04/04/15 3:12	CYD0060	CC53111
Phenanthrene	**0.080** (0.028)		8270D		1	04/04/15 3:12	CYD0060	CC53111
Pyrene	**0.481** (0.028)		8270D		1	04/04/15 3:12	CYD0060	CC53111

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*46 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*65 %*		*30-130*
Surrogate: Nitrobenzene-d5	*61 %*		*30-130*
Surrogate: p-Terphenyl-d14	*77 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-105 4ft-6ft
Date Sampled: 03/26/15 11:45
Percent Solids: 76
Initial Volume: 30.6
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503482
ESS Laboratory Sample ID: 1503482-13
Sample Matrix: Soil
Units: mg/kg dry
Analyst: JXS
Prepared: 3/30/15 17:08

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.214)		8270D		1	04/01/15 2:26	CYC0371	CD50329
1,2-Dichlorobenzene	ND (0.214)		8270D		1	04/01/15 2:26	CYC0371	CD50329
1,3-Dichlorobenzene	ND (0.214)		8270D		1	04/01/15 2:26	CYC0371	CD50329
1,4-Dichlorobenzene	ND (0.214)		8270D		1	04/01/15 2:26	CYC0371	CD50329
2,4,5-Trichlorophenol	ND (0.214)		8270D		1	04/01/15 2:26	CYC0371	CD50329
2,4,6-Trichlorophenol	ND (0.214)		8270D		1	04/01/15 2:26	CYC0371	CD50329
2,4-Dichlorophenol	ND (0.214)		8270D		1	04/01/15 2:26	CYC0371	CD50329
2,4-Dimethylphenol	ND (0.214)		8270D		1	04/01/15 2:26	CYC0371	CD50329
2,4-Dinitrophenol	ND (1.07)		8270D		1	04/01/15 2:26	CYC0371	CD50329
2,4-Dinitrotoluene	ND (0.214)		8270D		1	04/01/15 2:26	CYC0371	CD50329
2,6-Dinitrotoluene	ND (0.214)		8270D		1	04/01/15 2:26	CYC0371	CD50329
2-Chloronaphthalene	ND (0.214)		8270D		1	04/01/15 2:26	CYC0371	CD50329
2-Chlorophenol	ND (0.214)		8270D		1	04/01/15 2:26	CYC0371	CD50329
2-Methylphenol	ND (0.214)		8270D		1	04/01/15 2:26	CYC0371	CD50329
2-Nitrophenol	ND (0.214)		8270D		1	04/01/15 2:26	CYC0371	CD50329
3,3´-Dichlorobenzidine	ND (0.428)		8270D		1	04/01/15 2:26	CYC0371	CD50329
3+4-Methylphenol	ND (0.428)		8270D		1	04/01/15 2:26	CYC0371	CD50329
4-Bromophenyl-phenylether	ND (0.214)		8270D		1	04/01/15 2:26	CYC0371	CD50329
4-Chloroaniline	ND (0.428)		8270D		1	04/01/15 2:26	CYC0371	CD50329
4-Nitrophenol	ND (1.07)		8270D		1	04/01/15 2:26	CYC0371	CD50329
Acetophenone	ND (0.428)		8270D		1	04/01/15 2:26	CYC0371	CD50329
Aniline	ND (1.07)		8270D		1	04/01/15 2:26	CYC0371	CD50329
Azobenzene	ND (0.214)		8270D		1	04/01/15 2:26	CYC0371	CD50329
bis(2-Chloroethoxy)methane	ND (0.214)		8270D		1	04/01/15 2:26	CYC0371	CD50329
bis(2-Chloroethyl)ether	ND (0.214)		8270D		1	04/01/15 2:26	CYC0371	CD50329
bis(2-chloroisopropyl)Ether	ND (0.214)		8270D		1	04/01/15 2:26	CYC0371	CD50329
bis(2-Ethylhexyl)phthalate	**0.586** (0.214)		8270D		1	04/01/15 2:26	CYC0371	CD50329
Butylbenzylphthalate	ND (0.214)		8270D		1	04/01/15 2:26	CYC0371	CD50329
Dibenzofuran	ND (0.214)		8270D		1	04/01/15 2:26	CYC0371	CD50329
Diethylphthalate	ND (0.214)		8270D		1	04/01/15 2:26	CYC0371	CD50329
Dimethylphthalate	ND (0.214)		8270D		1	04/01/15 2:26	CYC0371	CD50329
Di-n-butylphthalate	ND (0.214)		8270D		1	04/01/15 2:26	CYC0371	CD50329

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-105 4ft-6ft
Date Sampled: 03/26/15 11:45
Percent Solids: 76
Initial Volume: 30.6
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503482
ESS Laboratory Sample ID: 1503482-13
Sample Matrix: Soil
Units: mg/kg dry
Analyst: JXS
Prepared: 3/30/15 17:08

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Di-n-octylphthalate	ND (0.214)		8270D		1	04/01/15 2:26	CYC0371	CD50329
Hexachlorobenzene	ND (0.214)		8270D		1	04/01/15 2:26	CYC0371	CD50329
Hexachlorobutadiene	ND (0.214)		8270D		1	04/01/15 2:26	CYC0371	CD50329
Hexachloroethane	ND (0.214)		8270D		1	04/01/15 2:26	CYC0371	CD50329
Isophorone	ND (0.214)		8270D		1	04/01/15 2:26	CYC0371	CD50329
Nitrobenzene	ND (0.214)		8270D		1	04/01/15 2:26	CYC0371	CD50329
N-Nitrosodimethylamine	ND (0.214)		8270D		1	04/01/15 2:26	CYC0371	CD50329
Pentachlorophenol	ND (1.07)		8270D		1	04/01/15 2:26	CYC0371	CD50329
Phenol	ND (0.214)		8270D		1	04/01/15 2:26	CYC0371	CD50329

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*69 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*108 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*67 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*82 %*		*30-130*
Surrogate: 2-Fluorophenol	*63 %*		*30-130*
Surrogate: Nitrobenzene-d5	*72 %*		*30-130*
Surrogate: Phenol-d6	*65 %*		*30-130*
Surrogate: p-Terphenyl-d14	*87 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-105 4ft-6ft
Date Sampled: 03/26/15 11:45
Percent Solids: 76
Initial Volume: 20
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503482
ESS Laboratory Sample ID: 1503482-13
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 3/31/15 12:26

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	ND (0.016)		8270D		1	04/04/15 8:59	CYD0060	CC53111
Acenaphthene	ND (0.016)		8270D		1	04/04/15 8:59	CYD0060	CC53111
Acenaphthylene	**0.040** (0.016)		8270D		1	04/04/15 8:59	CYD0060	CC53111
Anthracene	**0.039** (0.016)		8270D		1	04/04/15 8:59	CYD0060	CC53111
Benzo(a)anthracene	**0.046** (0.016)		8270D		1	04/04/15 8:59	CYD0060	CC53111
Benzo(a)pyrene	**0.052** (0.016)		8270D		1	04/04/15 8:59	CYD0060	CC53111
Benzo(b)fluoranthene	**0.054** (0.016)		8270D		1	04/04/15 8:59	CYD0060	CC53111
Benzo(g,h,i)perylene	**0.028** (0.016)		8270D		1	04/04/15 8:59	CYD0060	CC53111
Benzo(k)fluoranthene	**0.019** (0.016)		8270D		1	04/04/15 8:59	CYD0060	CC53111
Chrysene	**0.040** (0.016)		8270D		1	04/04/15 8:59	CYD0060	CC53111
Dibenzo(a,h)Anthracene	ND (0.016)		8270D		1	04/04/15 8:59	CYD0060	CC53111
Fluoranthene	**0.132** (0.016)		8270D		1	04/04/15 8:59	CYD0060	CC53111
Fluorene	**0.025** (0.016)		8270D		1	04/04/15 8:59	CYD0060	CC53111
Hexachlorobenzene	ND (0.016)		8270D		1	04/04/15 8:59	CYD0060	CC53111
Indeno(1,2,3-cd)Pyrene	**0.029** (0.016)		8270D		1	04/04/15 8:59	CYD0060	CC53111
Naphthalene	**0.032** (0.016)		8270D		1	04/04/15 8:59	CYD0060	CC53111
Phenanthrene	**0.113** (0.016)		8270D		1	04/04/15 8:59	CYD0060	CC53111
Pyrene	**0.136** (0.016)		8270D		1	04/04/15 8:59	CYD0060	CC53111

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*61 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*77 %*		*30-130*
Surrogate: Nitrobenzene-d5	*78 %*		*30-130*
Surrogate: p-Terphenyl-d14	*79 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-105 4ft-6ft
Date Sampled: 03/26/15 11:45
Percent Solids: 76
Initial Volume: 30.3
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1503482
ESS Laboratory Sample ID: 1503482-13
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 3/30/15 16:49

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (16.2)		MADEP-EPH		1	DPS	04/01/15 2:25	CYC0382	CC53008
C19-C36 Aliphatics1	ND (16.2)		MADEP-EPH		1	DPS	04/01/15 2:25	CYC0382	CC53008
C11-C22 Unadjusted Aromatics1	ND (16.2)		EPH8270		1	JXS	03/31/15 22:34	CYC0372	CC53008
C11-C22 Aromatics1,2	ND (16.2)		EPH8270			JXS	03/31/15 22:34		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*63 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*91 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*91 %*		*40-140*
Surrogate: O-Terphenyl	*82 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-109 0ft-0.5ft
Date Sampled: 03/26/15 11:45
Percent Solids: 35
Initial Volume: 30.1
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503482
ESS Laboratory Sample ID: 1503482-14
Sample Matrix: Soil
Units: mg/kg dry
Analyst: JXS
Prepared: 3/30/15 17:08

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.479)		8270D		1	04/01/15 2:57	CYC0371	CD50329
1,2-Dichlorobenzene	ND (0.479)		8270D		1	04/01/15 2:57	CYC0371	CD50329
1,3-Dichlorobenzene	ND (0.479)		8270D		1	04/01/15 2:57	CYC0371	CD50329
1,4-Dichlorobenzene	ND (0.479)		8270D		1	04/01/15 2:57	CYC0371	CD50329
2,4,5-Trichlorophenol	ND (0.479)		8270D		1	04/01/15 2:57	CYC0371	CD50329
2,4,6-Trichlorophenol	ND (0.479)		8270D		1	04/01/15 2:57	CYC0371	CD50329
2,4-Dichlorophenol	ND (0.479)		8270D		1	04/01/15 2:57	CYC0371	CD50329
2,4-Dimethylphenol	ND (0.479)		8270D		1	04/01/15 2:57	CYC0371	CD50329
2,4-Dinitrophenol	ND (2.40)		8270D		1	04/01/15 2:57	CYC0371	CD50329
2,4-Dinitrotoluene	ND (0.479)		8270D		1	04/01/15 2:57	CYC0371	CD50329
2,6-Dinitrotoluene	ND (0.479)		8270D		1	04/01/15 2:57	CYC0371	CD50329
2-Chloronaphthalene	ND (0.479)		8270D		1	04/01/15 2:57	CYC0371	CD50329
2-Chlorophenol	ND (0.479)		8270D		1	04/01/15 2:57	CYC0371	CD50329
2-Methylphenol	ND (0.479)		8270D		1	04/01/15 2:57	CYC0371	CD50329
2-Nitrophenol	ND (0.479)		8270D		1	04/01/15 2:57	CYC0371	CD50329
3,3´-Dichlorobenzidine	ND (0.959)		8270D		1	04/01/15 2:57	CYC0371	CD50329
3+4-Methylphenol	ND (0.959)		8270D		1	04/01/15 2:57	CYC0371	CD50329
4-Bromophenyl-phenylether	ND (0.479)		8270D		1	04/01/15 2:57	CYC0371	CD50329
4-Chloroaniline	ND (0.959)		8270D		1	04/01/15 2:57	CYC0371	CD50329
4-Nitrophenol	ND (2.40)		8270D		1	04/01/15 2:57	CYC0371	CD50329
Acetophenone	ND (0.959)		8270D		1	04/01/15 2:57	CYC0371	CD50329
Aniline	ND (2.40)		8270D		1	04/01/15 2:57	CYC0371	CD50329
Azobenzene	ND (0.479)		8270D		1	04/01/15 2:57	CYC0371	CD50329
bis(2-Chloroethoxy)methane	ND (0.479)		8270D		1	04/01/15 2:57	CYC0371	CD50329
bis(2-Chloroethyl)ether	ND (0.479)		8270D		1	04/01/15 2:57	CYC0371	CD50329
bis(2-chloroisopropyl)Ether	ND (0.479)		8270D		1	04/01/15 2:57	CYC0371	CD50329
bis(2-Ethylhexyl)phthalate	**2.33** (0.479)		8270D		1	04/01/15 2:57	CYC0371	CD50329
Butylbenzylphthalate	ND (0.479)		8270D		1	04/01/15 2:57	CYC0371	CD50329
Dibenzofuran	ND (0.479)		8270D		1	04/01/15 2:57	CYC0371	CD50329
Diethylphthalate	ND (0.479)		8270D		1	04/01/15 2:57	CYC0371	CD50329
Dimethylphthalate	ND (0.479)		8270D		1	04/01/15 2:57	CYC0371	CD50329
Di-n-butylphthalate	ND (0.479)		8270D		1	04/01/15 2:57	CYC0371	CD50329

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-109 0ft-0.5ft
Date Sampled: 03/26/15 11:45
Percent Solids: 35
Initial Volume: 30.1
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503482
ESS Laboratory Sample ID: 1503482-14
Sample Matrix: Soil
Units: mg/kg dry
Analyst: JXS
Prepared: 3/30/15 17:08

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Di-n-octylphthalate	ND (0.479)		8270D		1	04/01/15 2:57	CYC0371	CD50329
Hexachlorobenzene	ND (0.479)		8270D		1	04/01/15 2:57	CYC0371	CD50329
Hexachlorobutadiene	ND (0.479)		8270D		1	04/01/15 2:57	CYC0371	CD50329
Hexachloroethane	ND (0.479)		8270D		1	04/01/15 2:57	CYC0371	CD50329
Isophorone	ND (0.479)		8270D		1	04/01/15 2:57	CYC0371	CD50329
Nitrobenzene	ND (0.479)		8270D		1	04/01/15 2:57	CYC0371	CD50329
N-Nitrosodimethylamine	ND (0.479)		8270D		1	04/01/15 2:57	CYC0371	CD50329
Pentachlorophenol	ND (2.40)		8270D		1	04/01/15 2:57	CYC0371	CD50329
Phenol	ND (0.479)		8270D		1	04/01/15 2:57	CYC0371	CD50329

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1,2-Dichlorobenzene-d4	*61 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*103 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*59 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*73 %*		*30-130*
Surrogate: 2-Fluorophenol	*56 %*		*30-130*
Surrogate: Nitrobenzene-d5	*61 %*		*30-130*
Surrogate: Phenol-d6	*57 %*		*30-130*
Surrogate: p-Terphenyl-d14	*81 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-109 0ft-0.5ft
Date Sampled: 03/26/15 11:45
Percent Solids: 35
Initial Volume: 20.1
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503482
ESS Laboratory Sample ID: 1503482-14
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 3/31/15 12:26

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	**0.074** (0.036)		8270D		1	04/04/15 5:41	CYD0060	CC53111
Acenaphthene	**0.094** (0.036)		8270D		1	04/04/15 5:41	CYD0060	CC53111
Acenaphthylene	**0.417** (0.036)		8270D		1	04/04/15 5:41	CYD0060	CC53111
Anthracene	**0.423** (0.036)		8270D		1	04/04/15 5:41	CYD0060	CC53111
Benzo(a)anthracene	**1.01** (0.036)		8270D		1	04/04/15 5:41	CYD0060	CC53111
Benzo(a)pyrene	**1.36** (0.036)		8270D		1	04/04/15 5:41	CYD0060	CC53111
Benzo(b)fluoranthene	**2.10** (0.036)		8270D		1	04/04/15 5:41	CYD0060	CC53111
Benzo(g,h,i)perylene	**0.850** (0.036)		8270D		1	04/04/15 5:41	CYD0060	CC53111
Benzo(k)fluoranthene	**0.472** (0.036)		8270D		1	04/04/15 5:41	CYD0060	CC53111
Chrysene	**1.27** (0.036)		8270D		1	04/04/15 5:41	CYD0060	CC53111
Dibenzo(a,h)Anthracene	**0.248** (0.036)		8270D		1	04/04/15 5:41	CYD0060	CC53111
Fluoranthene	**2.18** (0.036)		8270D		1	04/04/15 5:41	CYD0060	CC53111
Fluorene	**0.165** (0.036)		8270D		1	04/04/15 5:41	CYD0060	CC53111
Hexachlorobenzene	ND (0.036)		8270D		1	04/04/15 5:41	CYD0060	CC53111
Indeno(1,2,3-cd)Pyrene	**0.990** (0.036)		8270D		1	04/04/15 5:41	CYD0060	CC53111
Naphthalene	**0.372** (0.036)		8270D		1	04/04/15 5:41	CYD0060	CC53111
Phenanthrene	**1.14** (0.036)		8270D		1	04/04/15 5:41	CYD0060	CC53111
Pyrene	**2.21** (0.036)		8270D		1	04/04/15 5:41	CYD0060	CC53111

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*52 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*70 %*		*30-130*
Surrogate: Nitrobenzene-d5	*67 %*		*30-130*
Surrogate: p-Terphenyl-d14	*76 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-109 0ft-0.5ft
Date Sampled: 03/26/15 11:45
Percent Solids: 35
Initial Volume: 30
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1503482
ESS Laboratory Sample ID: 1503482-14
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 3/30/15 16:49

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (36.1)		MADEP-EPH		1	DPS	04/01/15 3:17	CYC0382	CC53008
C19-C36 Aliphatics1	**163** (36.1)		MADEP-EPH		1	DPS	04/01/15 3:17	CYC0382	CC53008
C11-C22 Unadjusted Aromatics1	**121** (36.1)		EPH8270		1	JXS	03/31/15 23:08	CYC0372	CC53008
C11-C22 Aromatics1,2	**103** (36.1)		EPH8270			JXS	03/31/15 23:08		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*51 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*94 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*94 %*		*40-140*
Surrogate: O-Terphenyl	*80 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-109 4ft-6ft
Date Sampled: 03/26/15 11:45
Percent Solids: 58
Initial Volume: 20.1
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1503482
ESS Laboratory Sample ID: 1503482-15
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 3/31/15 12:26

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	**3.48** (1.08)		8270D		25	04/08/15 15:48	CYD0116	CC53111
Acenaphthene	**27.0** (1.08)		8270D		25	04/08/15 15:48	CYD0116	CC53111
Acenaphthylene	**101** (1.08)		8270D		25	04/08/15 15:48	CYD0116	CC53111
Anthracene	**177** (5.40)		8270D		125	04/08/15 22:21	CYD0116	CC53111
Benzo(a)anthracene	**129** (5.40)		8270D		125	04/08/15 22:21	CYD0116	CC53111
Benzo(a)pyrene	**130** (5.40)		8270D		125	04/08/15 22:21	CYD0116	CC53111
Benzo(b)fluoranthene	**147** (5.40)		8270D		125	04/08/15 22:21	CYD0116	CC53111
Benzo(g,h,i)perylene	**87.8** (1.08)		8270D		25	04/08/15 15:48	CYD0116	CC53111
Benzo(k)fluoranthene	**40.1** (1.08)		8270D		25	04/08/15 15:48	CYD0116	CC53111
Chrysene	**104** (1.08)		8270D		25	04/08/15 15:48	CYD0116	CC53111
Dibenzo(a,h)Anthracene	**23.0** (1.08)		8270D		25	04/08/15 15:48	CYD0116	CC53111
Fluoranthene	**411** (5.40)		8270D		125	04/08/15 22:21	CYD0116	CC53111
Fluorene	**80.1** (1.08)		8270D		25	04/08/15 15:48	CYD0116	CC53111
Hexachlorobenzene	**EL** ND (0.043)		8270D		5	04/08/15 15:48	CYD0116	CC53111
Indeno(1,2,3-cd)Pyrene	**93.9** (1.08)		8270D		25	04/08/15 15:48	CYD0116	CC53111
Naphthalene	**20.7** (1.08)		8270D		25	04/08/15 15:48	CYD0116	CC53111
Phenanthrene	**415** (5.40)		8270D		125	04/08/15 22:21	CYD0116	CC53111
Pyrene	**322** (5.40)		8270D		125	04/08/15 22:21	CYD0116	CC53111

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*78 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*87 %*		*30-130*
Surrogate: Nitrobenzene-d5	*65 %*		*30-130*
Surrogate: p-Terphenyl-d14	*82 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-108 0ft-0.5ft
Date Sampled: 03/26/15 14:00
Percent Solids: 32
Initial Volume: 30
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503482
ESS Laboratory Sample ID: 1503482-16
Sample Matrix: Soil
Units: mg/kg dry
Analyst: JXS
Prepared: 3/30/15 17:08

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.516)		8270D		1	04/01/15 3:29	CYC0371	CD50329
1,2-Dichlorobenzene	ND (0.516)		8270D		1	04/01/15 3:29	CYC0371	CD50329
1,3-Dichlorobenzene	ND (0.516)		8270D		1	04/01/15 3:29	CYC0371	CD50329
1,4-Dichlorobenzene	ND (0.516)		8270D		1	04/01/15 3:29	CYC0371	CD50329
2,4,5-Trichlorophenol	ND (0.516)		8270D		1	04/01/15 3:29	CYC0371	CD50329
2,4,6-Trichlorophenol	ND (0.516)		8270D		1	04/01/15 3:29	CYC0371	CD50329
2,4-Dichlorophenol	ND (0.516)		8270D		1	04/01/15 3:29	CYC0371	CD50329
2,4-Dimethylphenol	ND (0.516)		8270D		1	04/01/15 3:29	CYC0371	CD50329
2,4-Dinitrophenol	ND (2.59)		8270D		1	04/01/15 3:29	CYC0371	CD50329
2,4-Dinitrotoluene	ND (0.516)		8270D		1	04/01/15 3:29	CYC0371	CD50329
2,6-Dinitrotoluene	ND (0.516)		8270D		1	04/01/15 3:29	CYC0371	CD50329
2-Chloronaphthalene	ND (0.516)		8270D		1	04/01/15 3:29	CYC0371	CD50329
2-Chlorophenol	ND (0.516)		8270D		1	04/01/15 3:29	CYC0371	CD50329
2-Methylphenol	ND (0.516)		8270D		1	04/01/15 3:29	CYC0371	CD50329
2-Nitrophenol	ND (0.516)		8270D		1	04/01/15 3:29	CYC0371	CD50329
3,3´-Dichlorobenzidine	ND (1.03)		8270D		1	04/01/15 3:29	CYC0371	CD50329
3+4-Methylphenol	ND (1.03)		8270D		1	04/01/15 3:29	CYC0371	CD50329
4-Bromophenyl-phenylether	ND (0.516)		8270D		1	04/01/15 3:29	CYC0371	CD50329
4-Chloroaniline	ND (1.03)		8270D		1	04/01/15 3:29	CYC0371	CD50329
4-Nitrophenol	ND (2.59)		8270D		1	04/01/15 3:29	CYC0371	CD50329
Acetophenone	ND (1.03)		8270D		1	04/01/15 3:29	CYC0371	CD50329
Aniline	ND (2.59)		8270D		1	04/01/15 3:29	CYC0371	CD50329
Azobenzene	ND (0.516)		8270D		1	04/01/15 3:29	CYC0371	CD50329
bis(2-Chloroethoxy)methane	ND (0.516)		8270D		1	04/01/15 3:29	CYC0371	CD50329
bis(2-Chloroethyl)ether	ND (0.516)		8270D		1	04/01/15 3:29	CYC0371	CD50329
bis(2-chloroisopropyl)Ether	ND (0.516)		8270D		1	04/01/15 3:29	CYC0371	CD50329
bis(2-Ethylhexyl)phthalate	**3.62** (0.516)		8270D		1	04/01/15 3:29	CYC0371	CD50329
Butylbenzylphthalate	ND (0.516)		8270D		1	04/01/15 3:29	CYC0371	CD50329
Dibenzofuran	ND (0.516)		8270D		1	04/01/15 3:29	CYC0371	CD50329
Diethylphthalate	ND (0.516)		8270D		1	04/01/15 3:29	CYC0371	CD50329
Dimethylphthalate	ND (0.516)		8270D		1	04/01/15 3:29	CYC0371	CD50329
Di-n-butylphthalate	ND (0.516)		8270D		1	04/01/15 3:29	CYC0371	CD50329

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-108 0ft-0.5ft
Date Sampled: 03/26/15 14:00
Percent Solids: 32
Initial Volume: 30
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503482
ESS Laboratory Sample ID: 1503482-16
Sample Matrix: Soil
Units: mg/kg dry
Analyst: JXS
Prepared: 3/30/15 17:08

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Di-n-octylphthalate	ND (0.516)		8270D		1	04/01/15 3:29	CYC0371	CD50329
Hexachlorobenzene	ND (0.516)		8270D		1	04/01/15 3:29	CYC0371	CD50329
Hexachlorobutadiene	ND (0.516)		8270D		1	04/01/15 3:29	CYC0371	CD50329
Hexachloroethane	ND (0.516)		8270D		1	04/01/15 3:29	CYC0371	CD50329
Isophorone	ND (0.516)		8270D		1	04/01/15 3:29	CYC0371	CD50329
Nitrobenzene	ND (0.516)		8270D		1	04/01/15 3:29	CYC0371	CD50329
N-Nitrosodimethylamine	ND (0.516)		8270D		1	04/01/15 3:29	CYC0371	CD50329
Pentachlorophenol	ND (2.59)		8270D		1	04/01/15 3:29	CYC0371	CD50329
Phenol	ND (0.516)		8270D		1	04/01/15 3:29	CYC0371	CD50329

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*63 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*108 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*59 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*74 %*		*30-130*
Surrogate: 2-Fluorophenol	*56 %*		*30-130*
Surrogate: Nitrobenzene-d5	*61 %*		*30-130*
Surrogate: Phenol-d6	*57 %*		*30-130*
Surrogate: p-Terphenyl-d14	*83 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-108 0ft-0.5ft
Date Sampled: 03/26/15 14:00
Percent Solids: 32
Initial Volume: 20
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503482
ESS Laboratory Sample ID: 1503482-16
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 3/31/15 12:26

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	**0.056** (0.039)		8270D		1	04/04/15 6:31	CYD0060	CC53111
Acenaphthene	**0.080** (0.039)		8270D		1	04/04/15 6:31	CYD0060	CC53111
Acenaphthylene	**0.310** (0.039)		8270D		1	04/04/15 6:31	CYD0060	CC53111
Anthracene	**0.349** (0.039)		8270D		1	04/04/15 6:31	CYD0060	CC53111
Benzo(a)anthracene	**0.877** (0.039)		8270D		1	04/04/15 6:31	CYD0060	CC53111
Benzo(a)pyrene	**1.20** (0.039)		8270D		1	04/04/15 6:31	CYD0060	CC53111
Benzo(b)fluoranthene	**1.71** (0.039)		8270D		1	04/04/15 6:31	CYD0060	CC53111
Benzo(g,h,i)perylene	**0.691** (0.039)		8270D		1	04/04/15 6:31	CYD0060	CC53111
Benzo(k)fluoranthene	**0.596** (0.039)		8270D		1	04/04/15 6:31	CYD0060	CC53111
Chrysene	**1.19** (0.039)		8270D		1	04/04/15 6:31	CYD0060	CC53111
Dibenzo(a,h)Anthracene	**0.217** (0.039)		8270D		1	04/04/15 6:31	CYD0060	CC53111
Fluoranthene	**1.84** (0.039)		8270D		1	04/04/15 6:31	CYD0060	CC53111
Fluorene	**0.118** (0.039)		8270D		1	04/04/15 6:31	CYD0060	CC53111
Hexachlorobenzene	ND (0.015)		8270D		1	04/04/15 6:31	CYD0060	CC53111
Indeno(1,2,3-cd)Pyrene	**0.812** (0.039)		8270D		1	04/04/15 6:31	CYD0060	CC53111
Naphthalene	**0.281** (0.039)		8270D		1	04/04/15 6:31	CYD0060	CC53111
Phenanthrene	**0.878** (0.039)		8270D		1	04/04/15 6:31	CYD0060	CC53111
Pyrene	**1.89** (0.039)		8270D		1	04/04/15 6:31	CYD0060	CC53111

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*46 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*68 %*		*30-130*
Surrogate: Nitrobenzene-d5	*61 %*		*30-130*
Surrogate: p-Terphenyl-d14	*82 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-108 0ft-0.5ft
Date Sampled: 03/26/15 14:00
Percent Solids: 32
Initial Volume: 30
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1503482
ESS Laboratory Sample ID: 1503482-16
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 3/30/15 16:49

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (38.7)		MADEP-EPH		1	DPS	04/01/15 4:07	CYC0382	CC53008
C19-C36 Aliphatics1	**138** (38.7)		MADEP-EPH		1	DPS	04/01/15 4:07	CYC0382	CC53008
C11-C22 Unadjusted Aromatics1	**72.0** (38.7)		EPH8270		1	JXS	03/31/15 23:42	CYC0372	CC53008
C11-C22 Aromatics1,2	**66.5** (38.7)		EPH8270			JXS	03/31/15 23:42		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*62 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*93 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*93 %*		*40-140*
Surrogate: O-Terphenyl	*78 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-108 0.5ft-2ft
Date Sampled: 03/26/15 14:00
Percent Solids: 40
Initial Volume: 20.5
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503482
ESS Laboratory Sample ID: 1503482-17
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 3/31/15 12:26

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	**0.044** (0.030)		8270D		1	04/04/15 12:08	CYD0062	CC53111
Acenaphthene	**0.054** (0.030)		8270D		1	04/04/15 12:08	CYD0062	CC53111
Acenaphthylene	**0.264** (0.030)		8270D		1	04/04/15 12:08	CYD0062	CC53111
Anthracene	**0.257** (0.030)		8270D		1	04/04/15 12:08	CYD0062	CC53111
Benzo(a)anthracene	**0.469** (0.030)		8270D		1	04/04/15 12:08	CYD0062	CC53111
Benzo(a)pyrene	**0.579** (0.030)		8270D		1	04/04/15 12:08	CYD0062	CC53111
Benzo(b)fluoranthene	**0.790** (0.030)		8270D		1	04/04/15 12:08	CYD0062	CC53111
Benzo(g,h,i)perylene	**0.312** (0.030)		8270D		1	04/04/15 12:08	CYD0062	CC53111
Benzo(k)fluoranthene	**0.323** (0.030)		8270D		1	04/04/15 12:08	CYD0062	CC53111
Chrysene	**0.467** (0.030)		8270D		1	04/04/15 12:08	CYD0062	CC53111
Dibenzo(a,h)Anthracene	**0.097** (0.030)		8270D		1	04/04/15 12:08	CYD0062	CC53111
Fluoranthene	**0.772** (0.030)		8270D		1	04/04/15 12:08	CYD0062	CC53111
Fluorene	**0.082** (0.030)		8270D		1	04/04/15 12:08	CYD0062	CC53111
Hexachlorobenzene	ND (0.030)		8270D		1	04/04/15 12:08	CYD0062	CC53111
Indeno(1,2,3-cd)Pyrene	**0.372** (0.030)		8270D		1	04/04/15 12:08	CYD0062	CC53111
Naphthalene	**0.168** (0.030)		8270D		1	04/04/15 12:08	CYD0062	CC53111
Phenanthrene	**0.448** (0.030)		8270D		1	04/04/15 12:08	CYD0062	CC53111
Pyrene	**1.14** (0.030)		8270D		1	04/04/15 12:08	CYD0062	CC53111

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*41 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*56 %*		*30-130*
Surrogate: Nitrobenzene-d5	*55 %*		*30-130*
Surrogate: p-Terphenyl-d14	*74 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-108 4ft-6ft
Date Sampled: 03/26/15 14:00
Percent Solids: 68
Initial Volume: 30.1
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503482
ESS Laboratory Sample ID: 1503482-18
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 3/30/15 17:08

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.244)		8270D		1	04/02/15 5:44	CYD0019	CD50329
1,2-Dichlorobenzene	ND (0.244)		8270D		1	04/02/15 5:44	CYD0019	CD50329
1,3-Dichlorobenzene	ND (0.244)		8270D		1	04/02/15 5:44	CYD0019	CD50329
1,4-Dichlorobenzene	ND (0.244)		8270D		1	04/02/15 5:44	CYD0019	CD50329
2,4,5-Trichlorophenol	ND (0.244)		8270D		1	04/02/15 5:44	CYD0019	CD50329
2,4,6-Trichlorophenol	ND (0.244)		8270D		1	04/02/15 5:44	CYD0019	CD50329
2,4-Dichlorophenol	ND (0.244)		8270D		1	04/02/15 5:44	CYD0019	CD50329
2,4-Dimethylphenol	ND (0.244)		8270D		1	04/02/15 5:44	CYD0019	CD50329
2,4-Dinitrophenol	ND (1.22)		8270D		1	04/02/15 5:44	CYD0019	CD50329
2,4-Dinitrotoluene	ND (0.244)		8270D		1	04/02/15 5:44	CYD0019	CD50329
2,6-Dinitrotoluene	ND (0.244)		8270D		1	04/02/15 5:44	CYD0019	CD50329
2-Chloronaphthalene	ND (0.244)		8270D		1	04/02/15 5:44	CYD0019	CD50329
2-Chlorophenol	ND (0.244)		8270D		1	04/02/15 5:44	CYD0019	CD50329
2-Methylphenol	ND (0.244)		8270D		1	04/02/15 5:44	CYD0019	CD50329
2-Nitrophenol	ND (0.244)		8270D		1	04/02/15 5:44	CYD0019	CD50329
3,3´-Dichlorobenzidine	ND (0.488)		8270D		1	04/02/15 5:44	CYD0019	CD50329
3+4-Methylphenol	ND (0.488)		8270D		1	04/02/15 5:44	CYD0019	CD50329
4-Bromophenyl-phenylether	ND (0.244)		8270D		1	04/02/15 5:44	CYD0019	CD50329
4-Chloroaniline	ND (0.488)		8270D		1	04/02/15 5:44	CYD0019	CD50329
4-Nitrophenol	ND (1.22)		8270D		1	04/02/15 5:44	CYD0019	CD50329
Acetophenone	ND (0.488)		8270D		1	04/02/15 5:44	CYD0019	CD50329
Aniline	ND (1.22)		8270D		1	04/02/15 5:44	CYD0019	CD50329
Azobenzene	ND (0.244)		8270D		1	04/02/15 5:44	CYD0019	CD50329
bis(2-Chloroethoxy)methane	ND (0.244)		8270D		1	04/02/15 5:44	CYD0019	CD50329
bis(2-Chloroethyl)ether	ND (0.244)		8270D		1	04/02/15 5:44	CYD0019	CD50329
bis(2-chloroisopropyl)Ether	ND (0.244)		8270D		1	04/02/15 5:44	CYD0019	CD50329
bis(2-Ethylhexyl)phthalate	**35.7** (2.44)		8270D		10	04/02/15 17:11	CYD0019	CD50329
Butylbenzylphthalate	ND (0.244)		8270D		1	04/02/15 5:44	CYD0019	CD50329
Dibenzofuran	**0.861** (0.244)		8270D		1	04/02/15 5:44	CYD0019	CD50329
Diethylphthalate	ND (0.244)		8270D		1	04/02/15 5:44	CYD0019	CD50329
Dimethylphthalate	ND (0.244)		8270D		1	04/02/15 5:44	CYD0019	CD50329
Di-n-butylphthalate	ND (0.244)		8270D		1	04/02/15 5:44	CYD0019	CD50329

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-108 4ft-6ft
Date Sampled: 03/26/15 14:00
Percent Solids: 68
Initial Volume: 30.1
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503482
ESS Laboratory Sample ID: 1503482-18
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 3/30/15 17:08

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Di-n-octylphthalate	**1.26** (0.244)		8270D		1	04/02/15 5:44	CYD0019	CD50329
Hexachlorobenzene	ND (0.244)		8270D		1	04/02/15 5:44	CYD0019	CD50329
Hexachlorobutadiene	ND (0.244)		8270D		1	04/02/15 5:44	CYD0019	CD50329
Hexachloroethane	ND (0.244)		8270D		1	04/02/15 5:44	CYD0019	CD50329
Isophorone	ND (0.244)		8270D		1	04/02/15 5:44	CYD0019	CD50329
Nitrobenzene	ND (0.244)		8270D		1	04/02/15 5:44	CYD0019	CD50329
N-Nitrosodimethylamine	ND (0.244)		8270D		1	04/02/15 5:44	CYD0019	CD50329
Pentachlorophenol	ND (1.22)		8270D		1	04/02/15 5:44	CYD0019	CD50329
Phenol	**0.307** (0.244)		8270D		1	04/02/15 5:44	CYD0019	CD50329

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*55 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*64 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*59 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*62 %*		*30-130*
Surrogate: 2-Fluorophenol	*59 %*		*30-130*
Surrogate: Nitrobenzene-d5	*61 %*		*30-130*
Surrogate: Phenol-d6	*62 %*		*30-130*
Surrogate: p-Terphenyl-d14	*57 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-108 4ft-6ft
Date Sampled: 03/26/15 14:00
Percent Solids: 68
Initial Volume: 20.1
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503482
ESS Laboratory Sample ID: 1503482-18
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 3/31/15 12:26

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	**0.344** (0.183)		8270D		10	04/08/15 18:16	CYD0116	CC53111
Acenaphthene	**2.31** (0.183)		8270D		10	04/08/15 18:16	CYD0116	CC53111
Acenaphthylene	**1.80** (0.183)		8270D		10	04/08/15 18:16	CYD0116	CC53111
Anthracene	**4.60** (0.183)		8270D		10	04/08/15 18:16	CYD0116	CC53111
Benzo(a)anthracene	**4.25** (0.183)		8270D		10	04/08/15 18:16	CYD0116	CC53111
Benzo(a)pyrene	**4.54** (0.183)		8270D		10	04/08/15 18:16	CYD0116	CC53111
Benzo(b)fluoranthene	**5.31** (0.183)		8270D		10	04/08/15 18:16	CYD0116	CC53111
Benzo(g,h,i)perylene	**3.59** (0.183)		8270D		10	04/08/15 18:16	CYD0116	CC53111
Benzo(k)fluoranthene	**1.67** (0.183)		8270D		10	04/08/15 18:16	CYD0116	CC53111
Chrysene	**4.21** (0.183)		8270D		10	04/08/15 18:16	CYD0116	CC53111
Dibenzo(a,h)Anthracene	**0.688** (0.183)		8270D		10	04/08/15 18:16	CYD0116	CC53111
Fluoranthene	**13.5** (0.183)		8270D		10	04/08/15 18:16	CYD0116	CC53111
Fluorene	**1.86** (0.183)		8270D		10	04/08/15 18:16	CYD0116	CC53111
Hexachlorobenzene	ND (0.037)		8270D		10	04/08/15 18:16	CYD0116	CC53111
Indeno(1,2,3-cd)Pyrene	**3.65** (0.183)		8270D		10	04/08/15 18:16	CYD0116	CC53111
Naphthalene	**3.34** (0.183)		8270D		10	04/08/15 18:16	CYD0116	CC53111
Phenanthrene	**8.35** (0.183)		8270D		10	04/08/15 18:16	CYD0116	CC53111
Pyrene	**11.5** (0.183)		8270D		10	04/08/15 18:16	CYD0116	CC53111

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*43 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*71 %*		*30-130*
Surrogate: Nitrobenzene-d5	*47 %*		*30-130*
Surrogate: p-Terphenyl-d14	*89 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-108 4ft-6ft
Date Sampled: 03/26/15 14:00
Percent Solids: 68
Initial Volume: 30.5
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1503482
ESS Laboratory Sample ID: 1503482-18
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 3/30/15 16:49

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	**139** (18.1)		MADEP-EPH		1	DPS	04/01/15 4:58	CYC0382	CC53008
C19-C36 Aliphatics1	**275** (18.1)		MADEP-EPH		1	DPS	04/01/15 4:58	CYC0382	CC53008
C11-C22 Unadjusted Aromatics1	**496** (18.1)		EPH8270		1	JXS	04/01/15 3:14	CYC0372	CC53008
C11-C22 Aromatics1,2	**371** (18.1)		EPH8270			JXS	04/01/15 19:17		[CALC]

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1-Chlorooctadecane	*59 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*89 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*79 %*		*40-140*
Surrogate: O-Terphenyl	*77 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-107 0ft-0.5ft
Date Sampled: 03/26/15 15:15
Percent Solids: 30
Initial Volume: 30.1
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503482
ESS Laboratory Sample ID: 1503482-19
Sample Matrix: Soil
Units: mg/kg dry
Analyst: JXS
Prepared: 3/30/15 17:08

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.545)		8270D		1	04/01/15 4:32	CYC0371	CD50329
1,2-Dichlorobenzene	ND (0.545)		8270D		1	04/01/15 4:32	CYC0371	CD50329
1,3-Dichlorobenzene	ND (0.545)		8270D		1	04/01/15 4:32	CYC0371	CD50329
1,4-Dichlorobenzene	ND (0.545)		8270D		1	04/01/15 4:32	CYC0371	CD50329
2,4,5-Trichlorophenol	ND (0.545)		8270D		1	04/01/15 4:32	CYC0371	CD50329
2,4,6-Trichlorophenol	ND (0.545)		8270D		1	04/01/15 4:32	CYC0371	CD50329
2,4-Dichlorophenol	ND (0.545)		8270D		1	04/01/15 4:32	CYC0371	CD50329
2,4-Dimethylphenol	ND (0.545)		8270D		1	04/01/15 4:32	CYC0371	CD50329
2,4-Dinitrophenol	ND (2.73)		8270D		1	04/01/15 4:32	CYC0371	CD50329
2,4-Dinitrotoluene	ND (0.545)		8270D		1	04/01/15 4:32	CYC0371	CD50329
2,6-Dinitrotoluene	ND (0.545)		8270D		1	04/01/15 4:32	CYC0371	CD50329
2-Chloronaphthalene	ND (0.545)		8270D		1	04/01/15 4:32	CYC0371	CD50329
2-Chlorophenol	ND (0.545)		8270D		1	04/01/15 4:32	CYC0371	CD50329
2-Methylphenol	ND (0.545)		8270D		1	04/01/15 4:32	CYC0371	CD50329
2-Nitrophenol	ND (0.545)		8270D		1	04/01/15 4:32	CYC0371	CD50329
3,3´-Dichlorobenzidine	ND (1.09)		8270D		1	04/01/15 4:32	CYC0371	CD50329
3+4-Methylphenol	ND (1.09)		8270D		1	04/01/15 4:32	CYC0371	CD50329
4-Bromophenyl-phenylether	ND (0.545)		8270D		1	04/01/15 4:32	CYC0371	CD50329
4-Chloroaniline	ND (1.09)		8270D		1	04/01/15 4:32	CYC0371	CD50329
4-Nitrophenol	ND (2.73)		8270D		1	04/01/15 4:32	CYC0371	CD50329
Acetophenone	ND (1.09)		8270D		1	04/01/15 4:32	CYC0371	CD50329
Aniline	ND (2.73)		8270D		1	04/01/15 4:32	CYC0371	CD50329
Azobenzene	ND (0.545)		8270D		1	04/01/15 4:32	CYC0371	CD50329
bis(2-Chloroethoxy)methane	ND (0.545)		8270D		1	04/01/15 4:32	CYC0371	CD50329
bis(2-Chloroethyl)ether	ND (0.545)		8270D		1	04/01/15 4:32	CYC0371	CD50329
bis(2-chloroisopropyl)Ether	ND (0.545)		8270D		1	04/01/15 4:32	CYC0371	CD50329
bis(2-Ethylhexyl)phthalate	**5.95** (0.545)		8270D		1	04/01/15 4:32	CYC0371	CD50329
Butylbenzylphthalate	ND (0.545)		8270D		1	04/01/15 4:32	CYC0371	CD50329
Dibenzofuran	ND (0.545)		8270D		1	04/01/15 4:32	CYC0371	CD50329
Diethylphthalate	ND (0.545)		8270D		1	04/01/15 4:32	CYC0371	CD50329
Dimethylphthalate	ND (0.545)		8270D		1	04/01/15 4:32	CYC0371	CD50329
Di-n-butylphthalate	ND (0.545)		8270D		1	04/01/15 4:32	CYC0371	CD50329

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-107 0ft-0.5ft
Date Sampled: 03/26/15 15:15
Percent Solids: 30
Initial Volume: 30.1
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503482
ESS Laboratory Sample ID: 1503482-19
Sample Matrix: Soil
Units: mg/kg dry
Analyst: JXS
Prepared: 3/30/15 17:08

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Di-n-octylphthalate	ND (0.545)		8270D		1	04/01/15 4:32	CYC0371	CD50329
Hexachlorobenzene	ND (0.545)		8270D		1	04/01/15 4:32	CYC0371	CD50329
Hexachlorobutadiene	ND (0.545)		8270D		1	04/01/15 4:32	CYC0371	CD50329
Hexachloroethane	ND (0.545)		8270D		1	04/01/15 4:32	CYC0371	CD50329
Isophorone	ND (0.545)		8270D		1	04/01/15 4:32	CYC0371	CD50329
Nitrobenzene	ND (0.545)		8270D		1	04/01/15 4:32	CYC0371	CD50329
N-Nitrosodimethylamine	ND (0.545)		8270D		1	04/01/15 4:32	CYC0371	CD50329
Pentachlorophenol	ND (2.73)		8270D		1	04/01/15 4:32	CYC0371	CD50329
Phenol	ND (0.545)		8270D		1	04/01/15 4:32	CYC0371	CD50329

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*56 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*104 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*52 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*64 %*		*30-130*
Surrogate: 2-Fluorophenol	*49 %*		*30-130*
Surrogate: Nitrobenzene-d5	*48 %*		*30-130*
Surrogate: Phenol-d6	*52 %*		*30-130*
Surrogate: p-Terphenyl-d14	*77 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-107 0ft-0.5ft
Date Sampled: 03/26/15 15:15
Percent Solids: 30
Initial Volume: 20.3
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503482
ESS Laboratory Sample ID: 1503482-19
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 3/31/15 12:26

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	**0.050** (0.040)		8270D		1	04/04/15 13:47	CYD0062	CC53111
Acenaphthene	**0.092** (0.040)		8270D		1	04/04/15 13:47	CYD0062	CC53111
Acenaphthylene	**0.268** (0.040)		8270D		1	04/04/15 13:47	CYD0062	CC53111
Anthracene	**0.419** (0.040)		8270D		1	04/04/15 13:47	CYD0062	CC53111
Benzo(a)anthracene	**1.26** (0.040)		8270D		1	04/04/15 13:47	CYD0062	CC53111
Benzo(a)pyrene	**1.64** (0.040)		8270D		1	04/04/15 13:47	CYD0062	CC53111
Benzo(b)fluoranthene	**2.90** (0.040)		8270D		1	04/04/15 13:47	CYD0062	CC53111
Benzo(g,h,i)perylene	**0.845** (0.040)		8270D		1	04/04/15 13:47	CYD0062	CC53111
Benzo(k)fluoranthene	**0.751** (0.040)		8270D		1	04/04/15 13:47	CYD0062	CC53111
Chrysene	**1.72** (0.040)		8270D		1	04/04/15 13:47	CYD0062	CC53111
Dibenzo(a,h)Anthracene	**0.260** (0.040)		8270D		1	04/04/15 13:47	CYD0062	CC53111
Fluoranthene	**3.21** (0.040)		8270D		1	04/04/15 13:47	CYD0062	CC53111
Fluorene	**0.126** (0.040)		8270D		1	04/04/15 13:47	CYD0062	CC53111
Hexachlorobenzene	ND (0.040)		8270D		1	04/04/15 13:47	CYD0062	CC53111
Indeno(1,2,3-cd)Pyrene	**1.05** (0.040)		8270D		1	04/04/15 13:47	CYD0062	CC53111
Naphthalene	**0.205** (0.040)		8270D		1	04/04/15 13:47	CYD0062	CC53111
Phenanthrene	**1.15** (0.040)		8270D		1	04/04/15 13:47	CYD0062	CC53111
Pyrene	**2.74** (0.040)		8270D		1	04/04/15 13:47	CYD0062	CC53111

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*57 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*77 %*		*30-130*
Surrogate: Nitrobenzene-d5	*75 %*		*30-130*
Surrogate: p-Terphenyl-d14	*82 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-107 0ft-0.5ft
Date Sampled: 03/26/15 15:15
Percent Solids: 30
Initial Volume: 30
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1503482
ESS Laboratory Sample ID: 1503482-19
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 3/30/15 16:49

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (41.0)		MADEP-EPH		1	DPS	04/01/15 5:48	CYC0382	CC53008
C19-C36 Aliphatics1	**277** (41.0)		MADEP-EPH		1	DPS	04/01/15 5:48	CYC0382	CC53008
C11-C22 Unadjusted Aromatics1	**163** (41.0)		EPH8270		1	JXS	04/01/15 3:48	CYC0372	CC53008
C11-C22 Aromatics1,2	**149** (41.0)		EPH8270			JXS	04/01/15 3:48		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*57 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*84 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*84 %*		*40-140*
Surrogate: O-Terphenyl	*75 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-107 2ft-4ft
Date Sampled: 03/26/15 15:15
Percent Solids: 50
Initial Volume: 30
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503482
ESS Laboratory Sample ID: 1503482-20
Sample Matrix: Soil
Units: mg/kg dry
Analyst: JXS
Prepared: 3/30/15 17:08

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.335)		8270D		1	04/01/15 5:03	CYC0371	CD50329
1,2-Dichlorobenzene	ND (0.335)		8270D		1	04/01/15 5:03	CYC0371	CD50329
1,3-Dichlorobenzene	ND (0.335)		8270D		1	04/01/15 5:03	CYC0371	CD50329
1,4-Dichlorobenzene	ND (0.335)		8270D		1	04/01/15 5:03	CYC0371	CD50329
2,4,5-Trichlorophenol	ND (0.335)		8270D		1	04/01/15 5:03	CYC0371	CD50329
2,4,6-Trichlorophenol	ND (0.335)		8270D		1	04/01/15 5:03	CYC0371	CD50329
2,4-Dichlorophenol	ND (0.335)		8270D		1	04/01/15 5:03	CYC0371	CD50329
2,4-Dimethylphenol	ND (0.335)		8270D		1	04/01/15 5:03	CYC0371	CD50329
2,4-Dinitrophenol	ND (1.68)		8270D		1	04/01/15 5:03	CYC0371	CD50329
2,4-Dinitrotoluene	ND (0.335)		8270D		1	04/01/15 5:03	CYC0371	CD50329
2,6-Dinitrotoluene	ND (0.335)		8270D		1	04/01/15 5:03	CYC0371	CD50329
2-Chloronaphthalene	ND (0.335)		8270D		1	04/01/15 5:03	CYC0371	CD50329
2-Chlorophenol	ND (0.335)		8270D		1	04/01/15 5:03	CYC0371	CD50329
2-Methylphenol	ND (0.335)		8270D		1	04/01/15 5:03	CYC0371	CD50329
2-Nitrophenol	ND (0.335)		8270D		1	04/01/15 5:03	CYC0371	CD50329
3,3´-Dichlorobenzidine	ND (0.671)		8270D		1	04/01/15 5:03	CYC0371	CD50329
3+4-Methylphenol	ND (0.671)		8270D		1	04/01/15 5:03	CYC0371	CD50329
4-Bromophenyl-phenylether	ND (0.335)		8270D		1	04/01/15 5:03	CYC0371	CD50329
4-Chloroaniline	ND (0.671)		8270D		1	04/01/15 5:03	CYC0371	CD50329
4-Nitrophenol	ND (1.68)		8270D		1	04/01/15 5:03	CYC0371	CD50329
Acetophenone	ND (0.671)		8270D		1	04/01/15 5:03	CYC0371	CD50329
Aniline	ND (1.68)		8270D		1	04/01/15 5:03	CYC0371	CD50329
Azobenzene	ND (0.335)		8270D		1	04/01/15 5:03	CYC0371	CD50329
bis(2-Chloroethoxy)methane	ND (0.335)		8270D		1	04/01/15 5:03	CYC0371	CD50329
bis(2-Chloroethyl)ether	ND (0.335)		8270D		1	04/01/15 5:03	CYC0371	CD50329
bis(2-chloroisopropyl)Ether	ND (0.335)		8270D		1	04/01/15 5:03	CYC0371	CD50329
bis(2-Ethylhexyl)phthalate	**250** (33.5)		8270D		100	04/02/15 4:33	CYC0371	CD50329
Butylbenzylphthalate	ND (0.335)		8270D		1	04/01/15 5:03	CYC0371	CD50329
Dibenzofuran	ND (0.335)		8270D		1	04/01/15 5:03	CYC0371	CD50329
Diethylphthalate	ND (0.335)		8270D		1	04/01/15 5:03	CYC0371	CD50329
Dimethylphthalate	ND (0.335)		8270D		1	04/01/15 5:03	CYC0371	CD50329
Di-n-butylphthalate	ND (0.335)		8270D		1	04/01/15 5:03	CYC0371	CD50329

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-107 2ft-4ft
Date Sampled: 03/26/15 15:15
Percent Solids: 50
Initial Volume: 30
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503482
ESS Laboratory Sample ID: 1503482-20
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 3/30/15 17:08

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Di-n-octylphthalate	**43.5** (3.35)		8270D		10	04/02/15 3:57	CYC0371	CD50329
Hexachlorobenzene	ND (0.335)		8270D		1	04/01/15 5:03	CYC0371	CD50329
Hexachlorobutadiene	ND (0.335)		8270D		1	04/01/15 5:03	CYC0371	CD50329
Hexachloroethane	ND (0.335)		8270D		1	04/01/15 5:03	CYC0371	CD50329
Isophorone	ND (0.335)		8270D		1	04/01/15 5:03	CYC0371	CD50329
Nitrobenzene	ND (0.335)		8270D		1	04/01/15 5:03	CYC0371	CD50329
N-Nitrosodimethylamine	ND (0.335)		8270D		1	04/01/15 5:03	CYC0371	CD50329
Pentachlorophenol	ND (1.68)		8270D		1	04/01/15 5:03	CYC0371	CD50329
Phenol	ND (0.335)		8270D		1	04/01/15 5:03	CYC0371	CD50329

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*44 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*96 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*45 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*64 %*		*30-130*
Surrogate: 2-Fluorophenol	*41 %*		*30-130*
Surrogate: Nitrobenzene-d5	*51 %*		*30-130*
Surrogate: Phenol-d6	*46 %*		*30-130*
Surrogate: p-Terphenyl-d14	*76 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-107 2ft-4ft
Date Sampled: 03/26/15 15:15
Percent Solids: 50
Initial Volume: 20
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503482
ESS Laboratory Sample ID: 1503482-20
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 3/31/15 12:26

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	**0.758** (0.629)		8270D		25	04/08/15 17:26	CYD0116	CC53111
Acenaphthene	**2.27** (0.629)		8270D		25	04/08/15 17:26	CYD0116	CC53111
Acenaphthylene	**0.488** (0.252)		8270D		25	04/08/15 17:26	CYD0116	CC53111
Anthracene	**5.61** (0.629)		8270D		25	04/08/15 17:26	CYD0116	CC53111
Benzo(a)anthracene	**10.8** (0.629)		8270D		25	04/08/15 17:26	CYD0116	CC53111
Benzo(a)pyrene	**7.84** (0.629)		8270D		25	04/08/15 17:26	CYD0116	CC53111
Benzo(b)fluoranthene	**10.6** (0.629)		8270D		25	04/08/15 17:26	CYD0116	CC53111
Benzo(g,h,i)perylene	**4.33** (0.629)		8270D		25	04/08/15 17:26	CYD0116	CC53111
Benzo(k)fluoranthene	**3.73** (0.629)		8270D		25	04/08/15 17:26	CYD0116	CC53111
Chrysene	**10.8** (0.629)		8270D		25	04/08/15 17:26	CYD0116	CC53111
Dibenzo(a,h)Anthracene	**1.23** (0.629)		8270D		25	04/08/15 17:26	CYD0116	CC53111
Fluoranthene	**31.9** (0.629)		8270D		25	04/08/15 17:26	CYD0116	CC53111
Fluorene	**2.97** (0.629)		8270D		25	04/08/15 17:26	CYD0116	CC53111
Hexachlorobenzene	ND (0.025)		8270D		5	04/08/15 17:26	CYD0116	CC53111
Indeno(1,2,3-cd)Pyrene	**5.51** (0.629)		8270D		25	04/08/15 17:26	CYD0116	CC53111
Naphthalene	**1.32** (0.629)		8270D		25	04/08/15 17:26	CYD0116	CC53111
Phenanthrene	**24.9** (0.629)		8270D		25	04/08/15 17:26	CYD0116	CC53111
Pyrene	**23.8** (0.629)		8270D		25	04/08/15 17:26	CYD0116	CC53111

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*40 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*87 %*		*30-130*
Surrogate: Nitrobenzene-d5	*82 %*		*30-130*
Surrogate: p-Terphenyl-d14	*104 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-107 2ft-4ft
Date Sampled: 03/26/15 15:15
Percent Solids: 50
Initial Volume: 30
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1503482
ESS Laboratory Sample ID: 1503482-20
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 3/30/15 16:49

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	**293** (25.2)		MADEP-EPH		1	DPS	04/01/15 6:39	CYC0382	CC53008
C19-C36 Aliphatics1	**474** (25.2)		MADEP-EPH		1	DPS	04/01/15 6:39	CYC0382	CC53008
C11-C22 Unadjusted Aromatics1	**638** (25.2)		EPH8270		1	JXS	04/01/15 4:22	CYC0372	CC53008
C11-C22 Aromatics1,2	**631** (25.2)		EPH8270			JXS	04/01/15 4:22		[CALC]

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1-Chlorooctadecane	*61 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*82 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*78 %*		*40-140*
Surrogate: O-Terphenyl	*135 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-101 0ft-0.5ft
Date Sampled: 03/26/15 10:05
Percent Solids: 100

ESS Laboratory Work Order: 1503482
ESS Laboratory Sample ID: 1503482-21
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (1.24)		7010		5	KJK	04/02/15 5:04	2.01	100	CC53118
Arsenic	**16.4** (2.49)		6010C		1	KJK	03/31/15 19:29	2.01	100	CC53118
Barium	**47.8** (2.49)		6010C		1	KJK	03/31/15 19:29	2.01	100	CC53118
Beryllium	**0.42** (0.11)		6010C		1	KJK	03/31/15 19:29	2.01	100	CC53118
Cadmium	**0.85** (0.50)		6010C		1	KJK	03/31/15 19:29	2.01	100	CC53118
Chromium	**55.8** (1.00)		6010C		1	KJK	03/31/15 19:29	2.01	100	CC53118
Lead	**161** (4.98)		6010C		1	KJK	03/31/15 19:29	2.01	100	CC53118
Mercury	**0.181** (0.030)		7471B		1	RLA	04/01/15 17:41	0.65	40	CC53119
Nickel	**17.9** (2.49)		6010C		1	KJK	03/31/15 19:29	2.01	100	CC53118
Selenium	ND (2.49)		7010		5	KJK	04/02/15 13:12	2.01	100	CC53118
Silver	**0.88** (0.50)		6010C		1	KJK	03/31/15 19:29	2.01	100	CC53118
Thallium	ND (0.40)		7010		4	JP	04/07/15 2:12	2.01	100	CC53118
Vanadium	**49.1** (1.00)		6010C		1	KJK	03/31/15 19:29	2.01	100	CC53118
Zinc	**235** (2.49)		6010C		1	KJK	03/31/15 19:29	2.01	100	CC53118

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-101 2ft-4ft
Date Sampled: 03/26/15 10:05
Percent Solids: 100

ESS Laboratory Work Order: 1503482
ESS Laboratory Sample ID: 1503482-22
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (1.22)		7010		5	KJK	04/02/15 5:49	2.05	100	CC53118
Arsenic	**11.6** (2.44)		6010C		1	KJK	03/31/15 20:04	2.05	100	CC53118
Barium	**34.3** (2.44)		6010C		1	KJK	03/31/15 20:04	2.05	100	CC53118
Beryllium	**0.41** (0.11)		6010C		1	KJK	03/31/15 20:04	2.05	100	CC53118
Cadmium	ND (0.49)		6010C		1	KJK	03/31/15 20:04	2.05	100	CC53118
Chromium	**34.9** (0.98)		6010C		1	KJK	03/31/15 20:04	2.05	100	CC53118
Lead	**63.1** (4.88)		6010C		1	KJK	03/31/15 20:04	2.05	100	CC53118
Mercury	**0.099** (0.024)		7471B		1	RLA	04/01/15 17:52	0.82	40	CC53119
Nickel	**13.9** (2.44)		6010C		1	KJK	03/31/15 20:04	2.05	100	CC53118
Selenium	ND (4.88)		6010C		1	KJK	03/31/15 20:04	2.05	100	CC53118
Silver	ND (0.49)		6010C		1	KJK	03/31/15 20:04	2.05	100	CC53118
Thallium	ND (0.39)		7010		4	JP	04/07/15 2:57	2.05	100	CC53118
Vanadium	**38.3** (0.98)		6010C		1	KJK	03/31/15 20:04	2.05	100	CC53118
Zinc	**119** (2.44)		6010C		1	KJK	03/31/15 20:04	2.05	100	CC53118

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-101 6ft-8ft
Date Sampled: 03/26/15 10:05
Percent Solids: 100

ESS Laboratory Work Order: 1503482
ESS Laboratory Sample ID: 1503482-23
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (4.35)		6010C		1	KJK	03/31/15 20:08	2.3	100	CC53118
Arsenic	**4.34** (2.17)		6010C		1	KJK	03/31/15 20:08	2.3	100	CC53118
Barium	**18.3** (2.17)		6010C		1	KJK	03/31/15 20:08	2.3	100	CC53118
Beryllium	**0.34** (0.10)		6010C		1	KJK	03/31/15 20:08	2.3	100	CC53118
Cadmium	ND (0.43)		6010C		1	KJK	03/31/15 20:08	2.3	100	CC53118
Chromium	**16.1** (0.87)		6010C		1	KJK	03/31/15 20:08	2.3	100	CC53118
Lead	ND (4.35)		6010C		1	KJK	03/31/15 20:08	2.3	100	CC53118
Mercury	ND (0.029)		7471B		1	RLA	04/01/15 17:54	0.68	40	CC53119
Nickel	**10.3** (2.17)		6010C		1	KJK	03/31/15 20:08	2.3	100	CC53118
Selenium	ND (4.35)		6010C		1	KJK	03/31/15 20:08	2.3	100	CC53118
Silver	ND (0.43)		6010C		1	KJK	03/31/15 20:08	2.3	100	CC53118
Thallium	ND (0.35)		7010		4	JP	04/07/15 3:20	2.3	100	CC53118
Vanadium	**22.0** (0.87)		6010C		1	KJK	03/31/15 20:08	2.3	100	CC53118
Zinc	**25.8** (2.17)		6010C		1	KJK	03/31/15 20:08	2.3	100	CC53118

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-102 0ft-0.5ft
Date Sampled: 03/26/15 10:30
Percent Solids: 100

ESS Laboratory Work Order: 1503482
ESS Laboratory Sample ID: 1503482-24
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (1.17)		7010		5	KJK	04/02/15 6:01	2.13	100	CC53118
Arsenic	**22.7** (2.35)		6010C		1	KJK	03/31/15 20:12	2.13	100	CC53118
Barium	**63.3** (2.35)		6010C		1	KJK	03/31/15 20:12	2.13	100	CC53118
Beryllium	**0.59** (0.10)		6010C		1	KJK	03/31/15 20:12	2.13	100	CC53118
Cadmium	**1.26** (0.47)		6010C		1	KJK	03/31/15 20:12	2.13	100	CC53118
Chromium	**79.2** (0.94)		6010C		1	KJK	03/31/15 20:12	2.13	100	CC53118
Lead	**770** (4.69)		6010C		1	KJK	03/31/15 20:12	2.13	100	CC53118
Mercury	**0.130** (0.033)		7471B		1	RLA	04/01/15 17:56	0.6	40	CC53119
Nickel	**24.7** (2.35)		6010C		1	KJK	03/31/15 20:12	2.13	100	CC53118
Selenium	ND (2.35)		7010		5	KJK	04/02/15 14:23	2.13	100	CC53118
Silver	**1.23** (0.47)		6010C		1	KJK	03/31/15 20:12	2.13	100	CC53118
Thallium	ND (0.38)		7010		4	JP	04/07/15 3:25	2.13	100	CC53118
Vanadium	**68.6** (0.94)		6010C		1	KJK	03/31/15 20:12	2.13	100	CC53118
Zinc	**383** (2.35)		6010C		1	KJK	03/31/15 20:12	2.13	100	CC53118

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-102 0.5ft-2ft
Date Sampled: 03/26/15 10:30
Percent Solids: 100

ESS Laboratory Work Order: 1503482
ESS Laboratory Sample ID: 1503482-25
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	**1.42** (1.18)		7010		5	KJK	04/02/15 6:23	2.12	100	CC53118
Arsenic	**35.5** (2.36)		6010C		1	KJK	03/31/15 20:18	2.12	100	CC53118
Barium	**77.9** (2.36)		6010C		1	KJK	03/31/15 20:18	2.12	100	CC53118
Beryllium	**0.62** (0.10)		6010C		1	KJK	03/31/15 20:18	2.12	100	CC53118
Cadmium	**4.91** (0.47)		6010C		1	KJK	03/31/15 20:18	2.12	100	CC53118
Chromium	**170** (0.94)		6010C		1	KJK	03/31/15 20:18	2.12	100	CC53118
Lead	**413** (4.72)		6010C		1	KJK	03/31/15 20:18	2.12	100	CC53118
Mercury	**0.449** (0.030)		7471B		1	RLA	04/01/15 17:57	0.67	40	CC53119
Nickel	**67.4** (2.36)		6010C		1	KJK	03/31/15 20:18	2.12	100	CC53118
Selenium	ND (2.36)		7010		5	KJK	04/02/15 14:28	2.12	100	CC53118
Silver	**3.01** (0.47)		6010C		1	KJK	03/31/15 20:18	2.12	100	CC53118
Thallium	ND (0.38)		7010		4	JP	04/07/15 3:31	2.12	100	CC53118
Vanadium	**484** (0.94)		6010C		1	KJK	03/31/15 20:18	2.12	100	CC53118
Zinc	**618** (2.36)		6010C		1	KJK	03/31/15 20:18	2.12	100	CC53118

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-103 0ft-0.5ft
Date Sampled: 03/26/15 10:50
Percent Solids: 100

ESS Laboratory Work Order: 1503482
ESS Laboratory Sample ID: 1503482-26
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (1.19)		7010		5	KJK	04/02/15 6:29	2.1	100	CC53118
Arsenic	**21.0** (2.38)		6010C		1	KJK	03/31/15 20:24	2.1	100	CC53118
Barium	**55.9** (2.38)		6010C		1	KJK	03/31/15 20:24	2.1	100	CC53118
Beryllium	**0.50** (0.10)		6010C		1	KJK	03/31/15 20:24	2.1	100	CC53118
Cadmium	**1.05** (0.48)		6010C		1	KJK	03/31/15 20:24	2.1	100	CC53118
Chromium	**69.3** (0.95)		6010C		1	KJK	03/31/15 20:24	2.1	100	CC53118
Lead	**180** (4.76)		6010C		1	KJK	03/31/15 20:24	2.1	100	CC53118
Mercury	**0.176** (0.031)		7471B		1	RLA	04/01/15 17:59	0.63	40	CC53119
Nickel	**22.6** (2.38)		6010C		1	KJK	03/31/15 20:24	2.1	100	CC53118
Selenium	ND (2.38)		7010		5	KJK	04/02/15 14:34	2.1	100	CC53118
Silver	**1.20** (0.48)		6010C		1	KJK	03/31/15 20:24	2.1	100	CC53118
Thallium	ND (0.38)		7010		4	JP	04/07/15 3:36	2.1	100	CC53118
Vanadium	**67.0** (0.95)		6010C		1	KJK	03/31/15 20:24	2.1	100	CC53118
Zinc	**290** (2.38)		6010C		1	KJK	03/31/15 20:24	2.1	100	CC53118

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-103 2ft-4ft
Date Sampled: 03/26/15 10:50
Percent Solids: 100

ESS Laboratory Work Order: 1503482
ESS Laboratory Sample ID: 1503482-27
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (1.13)		7010		5	KJK	04/02/15 6:34	2.21	100	CC53118
Arsenic	**6.30** (2.26)		6010C		1	KJK	03/31/15 20:29	2.21	100	CC53118
Barium	**23.4** (2.26)		6010C		1	KJK	03/31/15 20:29	2.21	100	CC53118
Beryllium	**0.40** (0.10)		6010C		1	KJK	03/31/15 20:29	2.21	100	CC53118
Cadmium	ND (0.45)		6010C		1	KJK	03/31/15 20:29	2.21	100	CC53118
Chromium	**19.4** (0.90)		6010C		1	KJK	03/31/15 20:29	2.21	100	CC53118
Lead	**5.44** (4.52)		6010C		1	KJK	03/31/15 20:29	2.21	100	CC53118
Mercury	ND (0.027)		7471B		1	RLA	04/01/15 18:00	0.74	40	CC53119
Nickel	**12.1** (2.26)		6010C		1	KJK	03/31/15 20:29	2.21	100	CC53118
Selenium	ND (2.26)		7010		5	KJK	04/02/15 14:40	2.21	100	CC53118
Silver	ND (0.45)		6010C		1	KJK	03/31/15 20:29	2.21	100	CC53118
Thallium	ND (0.36)		7010		4	JP	04/07/15 3:42	2.21	100	CC53118
Vanadium	**27.2** (0.90)		6010C		1	KJK	03/31/15 20:29	2.21	100	CC53118
Zinc	**31.4** (2.26)		6010C		1	KJK	03/31/15 20:29	2.21	100	CC53118

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-103 4ft-6ft
Date Sampled: 03/26/15 10:50
Percent Solids: 100

ESS Laboratory Work Order: 1503482
ESS Laboratory Sample ID: 1503482-28
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (0.95)		7010		5	KJK	04/02/15 6:40	2.62	100	CC53118
Arsenic	**4.58** (1.91)		6010C		1	KJK	03/31/15 20:33	2.62	100	CC53118
Barium	**22.3** (1.91)		6010C		1	KJK	03/31/15 20:33	2.62	100	CC53118
Beryllium	**0.37** (0.08)		6010C		1	KJK	03/31/15 20:33	2.62	100	CC53118
Cadmium	ND (0.38)		6010C		1	KJK	03/31/15 20:33	2.62	100	CC53118
Chromium	**17.8** (0.76)		6010C		1	KJK	03/31/15 20:33	2.62	100	CC53118
Lead	**4.80** (3.82)		6010C		1	KJK	03/31/15 20:33	2.62	100	CC53118
Mercury	ND (0.030)		7471B		1	RLA	04/01/15 18:02	0.65	40	CC53119
Nickel	**11.1** (1.91)		6010C		1	KJK	03/31/15 20:33	2.62	100	CC53118
Selenium	ND (3.82)		6010C		1	KJK	03/31/15 20:33	2.62	100	CC53118
Silver	ND (0.38)		6010C		1	KJK	03/31/15 20:33	2.62	100	CC53118
Thallium	ND (0.31)		7010		4	JP	04/07/15 3:48	2.62	100	CC53118
Vanadium	**23.9** (0.76)		6010C		1	KJK	03/31/15 20:33	2.62	100	CC53118
Zinc	**27.0** (1.91)		6010C		1	KJK	03/31/15 20:33	2.62	100	CC53118

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-104 0ft-0.5ft
Date Sampled: 03/26/15 11:15
Percent Solids: 100

ESS Laboratory Work Order: 1503482
ESS Laboratory Sample ID: 1503482-29
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (1.22)		7010		5	KJK	04/02/15 6:46	2.05	100	CC53118
Arsenic	**23.1** (2.44)		6010C		1	KJK	03/31/15 20:52	2.05	100	CC53118
Barium	**61.8** (2.44)		6010C		1	KJK	03/31/15 20:52	2.05	100	CC53118
Beryllium	**0.57** (0.11)		6010C		1	KJK	03/31/15 20:52	2.05	100	CC53118
Cadmium	**1.25** (0.49)		6010C		1	KJK	03/31/15 20:52	2.05	100	CC53118
Chromium	**80.3** (0.98)		6010C		1	KJK	03/31/15 20:52	2.05	100	CC53118
Lead	**209** (4.88)		6010C		1	KJK	03/31/15 20:52	2.05	100	CC53118
Mercury	**0.215** (0.029)		7471B		1	RLA	04/01/15 18:04	0.68	40	CC53119
Nickel	**25.1** (2.44)		6010C		1	KJK	03/31/15 20:52	2.05	100	CC53118
Selenium	ND (2.44)		7010		5	KJK	04/02/15 14:51	2.05	100	CC53118
Silver	**1.42** (0.49)		6010C		1	KJK	03/31/15 20:52	2.05	100	CC53118
Thallium	ND (0.39)		7010		4	JP	04/07/15 3:53	2.05	100	CC53118
Vanadium	**76.0** (0.98)		6010C		1	KJK	03/31/15 20:52	2.05	100	CC53118
Zinc	**329** (2.44)		6010C		1	KJK	03/31/15 20:52	2.05	100	CC53118

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-104 0.5ft-2ft
Date Sampled: 03/26/15 11:15
Percent Solids: 100

ESS Laboratory Work Order: 1503482
ESS Laboratory Sample ID: 1503482-30
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (1.10)		7010		5	KJK	04/02/15 6:51	2.28	100	CC53118
Arsenic	**28.3** (2.19)		6010C		1	KJK	03/31/15 21:43	2.28	100	CC53118
Barium	**63.0** (2.19)		6010C		1	KJK	03/31/15 21:43	2.28	100	CC53118
Beryllium	**0.41** (0.10)		6010C		1	KJK	03/31/15 21:43	2.28	100	CC53118
Cadmium	**8.51** (0.44)		6010C		1	KJK	03/31/15 21:43	2.28	100	CC53118
Chromium	**66.0** (0.88)		6010C		1	KJK	03/31/15 21:43	2.28	100	CC53118
Lead	**220** (4.39)		6010C		1	KJK	03/31/15 21:43	2.28	100	CC53118
Mercury	**0.256** (0.029)		7471B		1	RLA	04/01/15 18:05	0.69	40	CC53119
Nickel	**16.0** (2.19)		6010C		1	KJK	03/31/15 21:43	2.28	100	CC53118
Selenium	ND (2.19)		7010		5	KJK	04/02/15 14:57	2.28	100	CC53118
Silver	**0.83** (0.44)		6010C		1	KJK	03/31/15 21:43	2.28	100	CC53118
Thallium	ND (0.35)		7010		4	JP	04/07/15 4:00	2.28	100	CC53118
Vanadium	**40.4** (0.88)		6010C		1	KJK	03/31/15 21:43	2.28	100	CC53118
Zinc	**293** (2.19)		6010C		1	KJK	03/31/15 21:43	2.28	100	CC53118

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-105 0ft-0.5ft
Date Sampled: 03/26/15 11:45
Percent Solids: 100

ESS Laboratory Work Order: 1503482
ESS Laboratory Sample ID: 1503482-31
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (1.14)		7010		5	KJK	04/02/15 6:57	2.19	100	CC53118
Arsenic	**19.5** (2.28)		6010C		1	KJK	03/31/15 21:47	2.19	100	CC53118
Barium	**59.1** (2.28)		6010C		1	KJK	03/31/15 21:47	2.19	100	CC53118
Beryllium	**0.57** (0.10)		6010C		1	KJK	03/31/15 21:47	2.19	100	CC53118
Cadmium	**1.18** (0.46)		6010C		1	KJK	03/31/15 21:47	2.19	100	CC53118
Chromium	**76.3** (0.91)		6010C		1	KJK	03/31/15 21:47	2.19	100	CC53118
Lead	**194** (4.57)		6010C		1	KJK	03/31/15 21:47	2.19	100	CC53118
Mercury	**0.095** (0.025)		7471B		1	RLA	04/01/15 18:07	0.79	40	CC53119
Nickel	**23.3** (2.28)		6010C		1	KJK	03/31/15 21:47	2.19	100	CC53118
Selenium	ND (2.28)		7010		5	KJK	04/02/15 15:02	2.19	100	CC53118
Silver	**1.09** (0.46)		6010C		1	KJK	03/31/15 21:47	2.19	100	CC53118
Thallium	ND (0.37)		7010		4	JP	04/07/15 4:06	2.19	100	CC53118
Vanadium	**65.0** (0.91)		6010C		1	KJK	03/31/15 21:47	2.19	100	CC53118
Zinc	**346** (2.28)		6010C		1	KJK	03/31/15 21:47	2.19	100	CC53118

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-105 2ft-4ft
Date Sampled: 03/26/15 11:45
Percent Solids: 100

ESS Laboratory Work Order: 1503482
ESS Laboratory Sample ID: 1503482-32
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (1.24)		7010		5	KJK	04/02/15 7:02	2.02	100	CC53118
Arsenic	**29.8** (2.48)		6010C		1	KJK	03/31/15 21:52	2.02	100	CC53118
Barium	**83.5** (2.48)		6010C		1	KJK	03/31/15 21:52	2.02	100	CC53118
Beryllium	**0.84** (0.11)		6010C		1	KJK	03/31/15 21:52	2.02	100	CC53118
Cadmium	**1.65** (0.50)		6010C		1	KJK	03/31/15 21:52	2.02	100	CC53118
Chromium	**80.8** (0.99)		6010C		1	KJK	03/31/15 21:52	2.02	100	CC53118
Lead	**160** (4.95)		6010C		1	KJK	03/31/15 21:52	2.02	100	CC53118
Mercury	**0.336** (0.024)		7471B		1	RLA	04/01/15 18:12	0.84	40	CC53119
Nickel	**26.4** (2.48)		6010C		1	KJK	03/31/15 21:52	2.02	100	CC53118
Selenium	ND (2.48)		7010		5	KJK	04/02/15 15:08	2.02	100	CC53118
Silver	**0.51** (0.50)		6010C		1	KJK	03/31/15 21:52	2.02	100	CC53118
Thallium	ND (0.40)		7010		4	JP	04/07/15 4:12	2.02	100	CC53118
Vanadium	**65.2** (0.99)		6010C		1	KJK	03/31/15 21:52	2.02	100	CC53118
Zinc	**277** (2.48)		6010C		1	KJK	03/31/15 21:52	2.02	100	CC53118

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-105 4ft-6ft
Date Sampled: 03/26/15 11:45
Percent Solids: 100

ESS Laboratory Work Order: 1503482
ESS Laboratory Sample ID: 1503482-33
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (1.07)		7010		5	KJK	04/02/15 7:08	2.34	100	CC53118
Arsenic	**10.5** (2.14)		6010C		1	KJK	03/31/15 21:58	2.34	100	CC53118
Barium	**66.9** (2.14)		6010C		1	KJK	03/31/15 21:58	2.34	100	CC53118
Beryllium	**0.69** (0.09)		6010C		1	KJK	03/31/15 21:58	2.34	100	CC53118
Cadmium	ND (0.43)		6010C		1	KJK	03/31/15 21:58	2.34	100	CC53118
Chromium	**33.6** (0.85)		6010C		1	KJK	03/31/15 21:58	2.34	100	CC53118
Lead	**10.4** (4.27)		6010C		1	KJK	03/31/15 21:58	2.34	100	CC53118
Mercury	ND (0.024)		7471B		1	RLA	04/01/15 18:14	0.82	40	CC53119
Nickel	**24.2** (2.14)		6010C		1	KJK	03/31/15 21:58	2.34	100	CC53118
Selenium	ND (2.14)		7010		5	KJK	04/02/15 15:14	2.34	100	CC53118
Silver	ND (0.43)		6010C		1	KJK	03/31/15 21:58	2.34	100	CC53118
Thallium	ND (0.34)		7010		4	JP	04/07/15 4:35	2.34	100	CC53118
Vanadium	**46.1** (0.85)		6010C		1	KJK	03/31/15 21:58	2.34	100	CC53118
Zinc	**55.3** (2.14)		6010C		1	KJK	03/31/15 21:58	2.34	100	CC53118

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-109 0ft-0.5ft
Date Sampled: 03/26/15 11:45
Percent Solids: 100

ESS Laboratory Work Order: 1503482
ESS Laboratory Sample ID: 1503482-34
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (1.21)		7010		5	KJK	04/02/15 7:14	2.06	100	CC53118
Arsenic	**22.0** (2.43)		6010C		1	KJK	03/31/15 22:03	2.06	100	CC53118
Barium	**59.9** (2.43)		6010C		1	KJK	03/31/15 22:03	2.06	100	CC53118
Beryllium	**0.54** (0.11)		6010C		1	KJK	03/31/15 22:03	2.06	100	CC53118
Cadmium	**1.00** (0.49)		6010C		1	KJK	03/31/15 22:03	2.06	100	CC53118
Chromium	**75.5** (0.97)		6010C		1	KJK	03/31/15 22:03	2.06	100	CC53118
Lead	**194** (4.85)		6010C		1	KJK	03/31/15 22:03	2.06	100	CC53118
Mercury	**0.346** (0.033)		7471B		1	RLA	04/01/15 18:15	0.6	40	CC53119
Nickel	**25.8** (2.43)		6010C		1	KJK	03/31/15 22:03	2.06	100	CC53118
Selenium	ND (2.43)		7010		5	KJK	04/02/15 15:35	2.06	100	CC53118
Silver	**1.16** (0.49)		6010C		1	KJK	03/31/15 22:03	2.06	100	CC53118
Thallium	ND (0.39)		7010		4	JP	04/07/15 4:40	2.06	100	CC53118
Vanadium	**69.1** (0.97)		6010C		1	KJK	03/31/15 22:03	2.06	100	CC53118
Zinc	**334** (2.43)		6010C		1	KJK	03/31/15 22:03	2.06	100	CC53118

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-109 4ft-6ft
Date Sampled: 03/26/15 11:45
Percent Solids: 100

ESS Laboratory Work Order: 1503482
ESS Laboratory Sample ID: 1503482-35
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (1.03)		7010		5	KJK	04/02/15 7:36	2.42	100	CC53118
Arsenic	**33.6** (2.07)		6010C		1	KJK	03/31/15 22:09	2.42	100	CC53118
Barium	**97.7** (2.07)		6010C		1	KJK	03/31/15 22:09	2.42	100	CC53118
Beryllium	**0.56** (0.09)		6010C		1	KJK	03/31/15 22:09	2.42	100	CC53118
Cadmium	**3.70** (0.41)		6010C		1	KJK	03/31/15 22:09	2.42	100	CC53118
Chromium	**54.3** (0.83)		6010C		1	KJK	03/31/15 22:09	2.42	100	CC53118
Lead	**336** (4.13)		6010C		1	KJK	03/31/15 22:09	2.42	100	CC53118
Mercury	**0.455** (0.024)		7471B		1	RLA	04/01/15 18:17	0.81	40	CC53119
Nickel	**18.6** (2.07)		6010C		1	KJK	03/31/15 22:09	2.42	100	CC53118
Selenium	**3.63** (2.07)		7010		5	KJK	04/02/15 15:40	2.42	100	CC53118
Silver	**0.61** (0.41)		6010C		1	KJK	03/31/15 22:09	2.42	100	CC53118
Thallium	ND (0.33)		7010		4	JP	04/07/15 4:46	2.42	100	CC53118
Vanadium	**43.2** (0.83)		6010C		1	KJK	03/31/15 22:09	2.42	100	CC53118
Zinc	**309** (2.07)		6010C		1	KJK	03/31/15 22:09	2.42	100	CC53118

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-108 0ft-0.5ft
Date Sampled: 03/26/15 14:00
Percent Solids: 100

ESS Laboratory Work Order: 1503482
ESS Laboratory Sample ID: 1503482-36
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (1.08)		7010		5	KJK	04/02/15 7:42	2.32	100	CC53118
Arsenic	**21.2** (2.16)		6010C		1	KJK	03/31/15 22:14	2.32	100	CC53118
Barium	**58.9** (2.16)		6010C		1	KJK	03/31/15 22:14	2.32	100	CC53118
Beryllium	**0.57** (0.09)		6010C		1	KJK	03/31/15 22:14	2.32	100	CC53118
Cadmium	**0.99** (0.43)		6010C		1	KJK	03/31/15 22:14	2.32	100	CC53118
Chromium	**75.3** (0.86)		6010C		1	KJK	03/31/15 22:14	2.32	100	CC53118
Lead	**193** (4.31)		6010C		1	KJK	03/31/15 22:14	2.32	100	CC53118
Mercury	**0.221** (0.028)		7471B		1	RLA	04/01/15 18:19	0.7	40	CC53119
Nickel	**23.7** (2.16)		6010C		1	KJK	03/31/15 22:14	2.32	100	CC53118
Selenium	ND (2.16)		7010		5	KJK	04/02/15 15:46	2.32	100	CC53118
Silver	**1.14** (0.43)		6010C		1	KJK	03/31/15 22:14	2.32	100	CC53118
Thallium	ND (0.34)		7010		4	JP	04/07/15 4:51	2.32	100	CC53118
Vanadium	**68.9** (0.86)		6010C		1	KJK	03/31/15 22:14	2.32	100	CC53118
Zinc	**344** (2.16)		6010C		1	KJK	03/31/15 22:14	2.32	100	CC53118

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-108 0.5ft-2ft
Date Sampled: 03/26/15 14:00
Percent Solids: 100

ESS Laboratory Work Order: 1503482
ESS Laboratory Sample ID: 1503482-37
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	**2.01** (1.24)		7010		5	KJK	04/02/15 7:48	2.02	100	CC53118
Arsenic	**28.4** (2.48)		6010C		1	KJK	03/31/15 22:20	2.02	100	CC53118
Barium	**83.5** (2.48)		6010C		1	KJK	03/31/15 22:20	2.02	100	CC53118
Beryllium	**0.65** (0.11)		6010C		1	KJK	03/31/15 22:20	2.02	100	CC53118
Cadmium	**3.52** (0.50)		6010C		1	KJK	03/31/15 22:20	2.02	100	CC53118
Chromium	**128** (0.99)		6010C		1	KJK	03/31/15 22:20	2.02	100	CC53118
Lead	**423** (4.95)		6010C		1	KJK	03/31/15 22:20	2.02	100	CC53118
Mercury	**0.373** (0.028)		7471B		1	RLA	04/01/15 18:20	0.71	40	CC53119
Nickel	**44.7** (2.48)		6010C		1	KJK	03/31/15 22:20	2.02	100	CC53118
Selenium	ND (2.48)		7010		5	KJK	04/02/15 15:52	2.02	100	CC53118
Silver	**3.09** (0.50)		6010C		1	KJK	03/31/15 22:20	2.02	100	CC53118
Thallium	ND (0.40)		7010		4	JP	04/07/15 4:57	2.02	100	CC53118
Vanadium	**198** (0.99)		6010C		1	KJK	03/31/15 22:20	2.02	100	CC53118
Zinc	**498** (2.48)		6010C		1	KJK	03/31/15 22:20	2.02	100	CC53118

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-108 4ft-6ft
Date Sampled: 03/26/15 14:00
Percent Solids: 100

ESS Laboratory Work Order: 1503482
ESS Laboratory Sample ID: 1503482-38
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (1.06)		7010		5	KJK	04/02/15 7:54	2.36	100	CC53118
Arsenic	**33.5** (2.12)		6010C		1	KJK	03/31/15 22:25	2.36	100	CC53118
Barium	**62.1** (2.12)		6010C		1	KJK	03/31/15 22:25	2.36	100	CC53118
Beryllium	**0.70** (0.09)		6010C		1	KJK	03/31/15 22:25	2.36	100	CC53118
Cadmium	**4.50** (0.42)		6010C		1	KJK	03/31/15 22:25	2.36	100	CC53118
Chromium	**40.4** (0.85)		6010C		1	KJK	03/31/15 22:25	2.36	100	CC53118
Lead	**103** (4.24)		6010C		1	KJK	03/31/15 22:25	2.36	100	CC53118
Mercury	**0.134** (0.029)		7471B		1	RLA	04/01/15 18:22	0.69	40	CC53119
Nickel	**18.5** (2.12)		6010C		1	KJK	03/31/15 22:25	2.36	100	CC53118
Selenium	ND (2.12)		7010		5	KJK	04/02/15 15:58	2.36	100	CC53118
Silver	ND (0.42)		6010C		1	KJK	03/31/15 22:25	2.36	100	CC53118
Thallium	ND (0.34)		7010		4	JP	04/07/15 5:02	2.36	100	CC53118
Vanadium	**40.8** (0.85)		6010C		1	KJK	03/31/15 22:25	2.36	100	CC53118
Zinc	**144** (2.12)		6010C		1	KJK	03/31/15 22:25	2.36	100	CC53118

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-107 0ft-0.5ft
Date Sampled: 03/26/15 15:15
Percent Solids: 100

ESS Laboratory Work Order: 1503482
ESS Laboratory Sample ID: 1503482-39
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (1.07)		7010		5	KJK	04/02/15 7:59	2.34	100	CC53118
Arsenic	**15.2** (2.14)		6010C		1	KJK	03/31/15 22:44	2.34	100	CC53118
Barium	**201** (2.14)		6010C		1	KJK	03/31/15 22:44	2.34	100	CC53118
Beryllium	**0.56** (0.09)		6010C		1	KJK	03/31/15 22:44	2.34	100	CC53118
Cadmium	**1.54** (0.43)		6010C		1	KJK	03/31/15 22:44	2.34	100	CC53118
Chromium	**75.5** (0.85)		6010C		1	KJK	03/31/15 22:44	2.34	100	CC53118
Lead	**355** (4.27)		6010C		1	KJK	03/31/15 22:44	2.34	100	CC53118
Mercury	**0.147** (0.032)		7471B		1	RLA	04/01/15 18:24	0.62	40	CC53119
Nickel	**24.6** (2.14)		6010C		1	KJK	03/31/15 22:44	2.34	100	CC53118
Selenium	ND (2.14)		7010		5	KJK	04/02/15 16:10	2.34	100	CC53118
Silver	**1.07** (0.43)		6010C		1	KJK	03/31/15 22:44	2.34	100	CC53118
Thallium	ND (0.34)		7010		4	JP	04/07/15 5:09	2.34	100	CC53118
Vanadium	**66.4** (0.85)		6010C		1	KJK	03/31/15 22:44	2.34	100	CC53118
Zinc	**557** (2.14)		6010C		1	KJK	03/31/15 22:44	2.34	100	CC53118

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-107 2ft-4ft
Date Sampled: 03/26/15 15:15
Percent Solids: 100

ESS Laboratory Work Order: 1503482
ESS Laboratory Sample ID: 1503482-40
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (1.10)		7010		5	KJK	04/02/15 8:04	2.27	100	CC53118
Arsenic	**19.9** (2.20)		6010C		1	KJK	03/31/15 22:50	2.27	100	CC53118
Barium	**46.5** (2.20)		6010C		1	KJK	03/31/15 22:50	2.27	100	CC53118
Beryllium	**0.37** (0.10)		6010C		1	KJK	03/31/15 22:50	2.27	100	CC53118
Cadmium	**2.32** (0.44)		6010C		1	KJK	03/31/15 22:50	2.27	100	CC53118
Chromium	**92.3** (0.88)		6010C		1	KJK	03/31/15 22:50	2.27	100	CC53118
Lead	**258** (4.41)		6010C		1	KJK	03/31/15 22:50	2.27	100	CC53118
Mercury	**0.245** (0.030)		7471B		1	RLA	04/01/15 18:25	0.66	40	CC53119
Nickel	**28.9** (2.20)		6010C		1	KJK	03/31/15 22:50	2.27	100	CC53118
Selenium	ND (2.20)		7010		5	KJK	04/02/15 16:15	2.27	100	CC53118
Silver	**1.20** (0.44)		6010C		1	KJK	03/31/15 22:50	2.27	100	CC53118
Thallium	ND (0.35)		7010		4	JP	04/07/15 5:15	2.27	100	CC53118
Vanadium	**131** (0.88)		6010C		1	KJK	03/31/15 22:50	2.27	100	CC53118
Zinc	**354** (2.20)		6010C		1	KJK	03/31/15 22:50	2.27	100	CC53118

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-101 0ft-0.5ft
Date Sampled: 03/26/15 10:05
Percent Solids: 100
Initial Volume: 25.3
Final Volume: 2
Extraction Method: 3540

ESS Laboratory Work Order: 1503482
ESS Laboratory Sample ID: 1503482-41
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 4/1/15 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0079)		8082A		1	04/02/15 15:22		CD50161
Aroclor 1221	ND (0.0079)		8082A		1	04/02/15 15:22		CD50161
Aroclor 1232	ND (0.0079)		8082A		1	04/02/15 15:22		CD50161
Aroclor 1242	ND (0.0079)		8082A		1	04/02/15 15:22		CD50161
Aroclor 1248	**P 0.217** (0.0396)		8082A		5	04/02/15 17:34		CD50161
Aroclor 1254	**P 0.395** (0.0396)		8082A		5	04/02/15 17:34		CD50161
Aroclor 1260	**0.191** (0.0396)		8082A		5	04/02/15 17:34		CD50161
Aroclor 1262	ND (0.0079)		8082A		1	04/02/15 15:22		CD50161
Aroclor 1268	ND (0.0079)		8082A		1	04/02/15 15:22		CD50161

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*90 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*94 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*56 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*39 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-102 0ft-0.5ft
Date Sampled: 03/26/15 10:30
Percent Solids: 75
Initial Volume: 3.2
Final Volume: 2
Extraction Method: 3540C

ESS Laboratory Work Order: 1503482
ESS Laboratory Sample ID: 1503482-42
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 4/3/15 17:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0837)		8082A		1	04/06/15 12:22		CD50221
Aroclor 1221	ND (0.0837)		8082A		1	04/06/15 12:22		CD50221
Aroclor 1232	ND (0.0837)		8082A		1	04/06/15 12:22		CD50221
Aroclor 1242	ND (0.0837)		8082A		1	04/06/15 12:22		CD50221
Aroclor 1248	**P 0.461** (0.0837)		8082A		1	04/06/15 12:22		CD50221
Aroclor 1254	**0.869** (0.0837)		8082A		1	04/06/15 12:22		CD50221
Aroclor 1260	**0.428** (0.0837)		8082A		1	04/06/15 12:22		CD50221
Aroclor 1262	ND (0.0837)		8082A		1	04/06/15 12:22		CD50221
Aroclor 1268	ND (0.0837)		8082A		1	04/06/15 12:22		CD50221

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*73 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*70 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*71 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*57 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-102 0.5ft-2ft
Date Sampled: 03/26/15 10:30
Percent Solids: 84
Initial Volume: 25.4
Final Volume: 2
Extraction Method: 3540

ESS Laboratory Work Order: 1503482
ESS Laboratory Sample ID: 1503482-43
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 4/1/15 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.469)		8082A		50	04/02/15 18:10		CD50161
Aroclor 1221	ND (0.469)		8082A		50	04/02/15 18:10		CD50161
Aroclor 1232	ND (0.469)		8082A		50	04/02/15 18:10		CD50161
Aroclor 1242	ND (0.469)		8082A		50	04/02/15 18:10		CD50161
Aroclor 1248	**P 6.83** (0.469)		8082A		50	04/02/15 18:10		CD50161
Aroclor 1254	**8.39** (0.469)		8082A		50	04/02/15 18:10		CD50161
Aroclor 1260	ND (0.469)		8082A		50	04/02/15 18:10		CD50161
Aroclor 1262	ND (0.469)		8082A		50	04/02/15 18:10		CD50161
Aroclor 1268	ND (0.469)		8082A		50	04/02/15 18:10		CD50161

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	%	SD	30-150
Surrogate: Decachlorobiphenyl [2C]	%	SD	30-150
Surrogate: Tetrachloro-m-xylene	%	SD	30-150
Surrogate: Tetrachloro-m-xylene [2C]	%	SD	30-150

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-103 0ft-0.5ft
Date Sampled: 03/26/15 10:50
Percent Solids: 87
Initial Volume: 25.7
Final Volume: 2
Extraction Method: 3540

ESS Laboratory Work Order: 1503482
ESS Laboratory Sample ID: 1503482-44
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 4/1/15 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0089)		8082A		1	04/02/15 16:17		CD50161
Aroclor 1221	ND (0.0089)		8082A		1	04/02/15 16:17		CD50161
Aroclor 1232	ND (0.0089)		8082A		1	04/02/15 16:17		CD50161
Aroclor 1242	ND (0.0089)		8082A		1	04/02/15 16:17		CD50161
Aroclor 1248	**P 0.281** (0.0445)		8082A		5	04/02/15 18:29		CD50161
Aroclor 1254	**0.519** (0.0445)		8082A		5	04/02/15 18:29		CD50161
Aroclor 1260	**0.232** (0.0445)		8082A		5	04/02/15 18:29		CD50161
Aroclor 1262	ND (0.0089)		8082A		1	04/02/15 16:17		CD50161
Aroclor 1268	ND (0.0089)		8082A		1	04/02/15 16:17		CD50161

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*68 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*74 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*46 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*32 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-104 0ft-0.5ft
Date Sampled: 03/26/15 11:15
Percent Solids: 75
Initial Volume: 25.4
Final Volume: 2
Extraction Method: 3540

ESS Laboratory Work Order: 1503482
ESS Laboratory Sample ID: 1503482-45
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 4/1/15 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0104)		8082A		1	04/02/15 16:36		CD50161
Aroclor 1221	ND (0.0104)		8082A		1	04/02/15 16:36		CD50161
Aroclor 1232	ND (0.0104)		8082A		1	04/02/15 16:36		CD50161
Aroclor 1242	ND (0.0104)		8082A		1	04/02/15 16:36		CD50161
Aroclor 1248	**P 0.391** (0.0522)		8082A		5	04/02/15 18:49		CD50161
Aroclor 1254	**0.701** (0.0522)		8082A		5	04/02/15 18:49		CD50161
Aroclor 1260	**P 0.319** (0.0522)		8082A		5	04/02/15 18:49		CD50161
Aroclor 1262	ND (0.0104)		8082A		1	04/02/15 16:36		CD50161
Aroclor 1268	ND (0.0104)		8082A		1	04/02/15 16:36		CD50161

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*90 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*95 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*58 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*37 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-105 0ft-0.5ft
Date Sampled: 03/26/15 11:45
Percent Solids: 89
Initial Volume: 25
Final Volume: 2
Extraction Method: 3540

ESS Laboratory Work Order: 1503482
ESS Laboratory Sample ID: 1503482-46
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 4/1/15 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0090)		8082A		1	04/02/15 16:55		CD50161
Aroclor 1221	ND (0.0090)		8082A		1	04/02/15 16:55		CD50161
Aroclor 1232	ND (0.0090)		8082A		1	04/02/15 16:55		CD50161
Aroclor 1242	ND (0.0090)		8082A		1	04/02/15 16:55		CD50161
Aroclor 1248	**0.179** (0.0090)		8082A		1	04/02/15 16:55		CD50161
Aroclor 1254	**0.511** (0.0451)		8082A		5	04/02/15 19:07		CD50161
Aroclor 1260	**0.243** (0.0451)		8082A		5	04/02/15 19:07		CD50161
Aroclor 1262	ND (0.0090)		8082A		1	04/02/15 16:55		CD50161
Aroclor 1268	ND (0.0090)		8082A		1	04/02/15 16:55		CD50161

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*74 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*87 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*56 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*38 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-105 4ft-6ft
Date Sampled: 03/26/15 11:45
Percent Solids: 99
Initial Volume: 25.7
Final Volume: 2
Extraction Method: 3540

ESS Laboratory Work Order: 1503482
ESS Laboratory Sample ID: 1503482-47
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 4/1/15 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0079)		8082A		1	04/02/15 15:23		CD50161
Aroclor 1221	ND (0.0079)		8082A		1	04/02/15 15:23		CD50161
Aroclor 1232	ND (0.0079)		8082A		1	04/02/15 15:23		CD50161
Aroclor 1242	ND (0.0079)		8082A		1	04/02/15 15:23		CD50161
Aroclor 1248	ND (0.0079)		8082A		1	04/02/15 15:23		CD50161
Aroclor 1254	**0.0086** (0.0079)		8082A		1	04/02/15 15:23		CD50161
Aroclor 1260	ND (0.0079)		8082A		1	04/02/15 15:23		CD50161
Aroclor 1262	ND (0.0079)		8082A		1	04/02/15 15:23		CD50161
Aroclor 1268	ND (0.0079)		8082A		1	04/02/15 15:23		CD50161

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*78 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*84 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*79 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*69 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-109 0ft-0.5ft
Date Sampled: 03/26/15 11:45
Percent Solids: 88
Initial Volume: 5.9
Final Volume: 2
Extraction Method: 3540C

ESS Laboratory Work Order: 1503482
ESS Laboratory Sample ID: 1503482-48
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 4/3/15 17:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0385)		8082A		1	04/06/15 12:04		CD50221
Aroclor 1221	ND (0.0385)		8082A		1	04/06/15 12:04		CD50221
Aroclor 1232	ND (0.0385)		8082A		1	04/06/15 12:04		CD50221
Aroclor 1242	ND (0.0385)		8082A		1	04/06/15 12:04		CD50221
Aroclor 1248	**P 0.342** (0.0385)		8082A		1	04/06/15 12:04		CD50221
Aroclor 1254	**0.597** (0.0385)		8082A		1	04/06/15 12:04		CD50221
Aroclor 1260	**0.299** (0.0385)		8082A		1	04/06/15 12:04		CD50221
Aroclor 1262	ND (0.0385)		8082A		1	04/06/15 12:04		CD50221
Aroclor 1268	ND (0.0385)		8082A		1	04/06/15 12:04		CD50221

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*63 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*70 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*64 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*51 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-108 0ft-0.5ft
Date Sampled: 03/26/15 14:00
Percent Solids: 82
Initial Volume: 25.3
Final Volume: 2
Extraction Method: 3540

ESS Laboratory Work Order: 1503482
ESS Laboratory Sample ID: 1503482-49
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 4/1/15 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0096)		8082A		1	04/02/15 16:00		CD50161
Aroclor 1221	ND (0.0096)		8082A		1	04/02/15 16:00		CD50161
Aroclor 1232	ND (0.0096)		8082A		1	04/02/15 16:00		CD50161
Aroclor 1242	ND (0.0096)		8082A		1	04/02/15 16:00		CD50161
Aroclor 1248	**0.275** (0.0480)		8082A		5	04/02/15 18:50		CD50161
Aroclor 1254	**0.411** (0.0480)		8082A		5	04/02/15 18:50		CD50161
Aroclor 1260	**0.187** (0.0096)		8082A		1	04/02/15 16:00		CD50161
Aroclor 1262	ND (0.0096)		8082A		1	04/02/15 16:00		CD50161
Aroclor 1268	ND (0.0096)		8082A		1	04/02/15 16:00		CD50161

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*126 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*52 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*40 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*40 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-108 4ft-6ft
Date Sampled: 03/26/15 14:00
Percent Solids: 99
Initial Volume: 5.6
Final Volume: 2
Extraction Method: 3540C

ESS Laboratory Work Order: 1503482
ESS Laboratory Sample ID: 1503482-50
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 4/3/15 17:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0361)		8082A		1	04/06/15 12:41		CD50221
Aroclor 1221	ND (0.0361)		8082A		1	04/06/15 12:41		CD50221
Aroclor 1232	ND (0.0361)		8082A		1	04/06/15 12:41		CD50221
Aroclor 1242	ND (0.0361)		8082A		1	04/06/15 12:41		CD50221
Aroclor 1248	**LC, P 0.0672** (0.0361)		8082A		1	04/06/15 12:41		CD50221
Aroclor 1254	**0.234** (0.0361)		8082A		1	04/06/15 12:41		CD50221
Aroclor 1260	**0.158** (0.0361)		8082A		1	04/06/15 12:41		CD50221
Aroclor 1262	ND (0.0361)		8082A		1	04/06/15 12:41		CD50221
Aroclor 1268	ND (0.0361)		8082A		1	04/06/15 12:41		CD50221

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*76 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*70 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*55 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*41 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-107 0ft-0.5ft
Date Sampled: 03/26/15 15:15
Percent Solids: 95
Initial Volume: 7.1
Final Volume: 2
Extraction Method: 3540C

ESS Laboratory Work Order: 1503482
ESS Laboratory Sample ID: 1503482-51
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 4/6/15 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0295)		8082A		1	04/07/15 15:43		CD50616
Aroclor 1221	ND (0.0295)		8082A		1	04/07/15 15:43		CD50616
Aroclor 1232	ND (0.0295)		8082A		1	04/07/15 15:43		CD50616
Aroclor 1242	ND (0.0295)		8082A		1	04/07/15 15:43		CD50616
Aroclor 1248	**0.158** (0.0295)		8082A		1	04/07/15 15:43		CD50616
Aroclor 1254	**0.258** (0.0295)		8082A		1	04/07/15 15:43		CD50616
Aroclor 1260	**0.190** (0.0295)		8082A		1	04/07/15 15:43		CD50616
Aroclor 1262	ND (0.0295)		8082A		1	04/07/15 15:43		CD50616
Aroclor 1268	ND (0.0295)		8082A		1	04/07/15 15:43		CD50616

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*47 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*29 %*	*SC*	*30-150*
Surrogate: Tetrachloro-m-xylene	*31 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*30 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-107 0ft-0.5ft
Date Sampled: 03/26/15 15:15
Percent Solids: 95
Initial Volume: 25.5
Final Volume: 2
Extraction Method: 3540

ESS Laboratory Work Order: 1503482
ESS Laboratory Sample ID: 1503482-51RE1
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 4/1/15 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0082)		8082A		1	04/02/15 16:37		CD50161
Aroclor 1221	ND (0.0082)		8082A		1	04/02/15 16:37		CD50161
Aroclor 1232	ND (0.0082)		8082A		1	04/02/15 16:37		CD50161
Aroclor 1242	ND (0.0082)		8082A		1	04/02/15 16:37		CD50161
Aroclor 1248	**0.0928** (0.0082)		8082A		1	04/02/15 16:37		CD50161
Aroclor 1254	**0.143** (0.0082)		8082A		1	04/02/15 16:37		CD50161
Aroclor 1260	**0.0840** (0.0082)		8082A		1	04/02/15 16:37		CD50161
Aroclor 1262	ND (0.0082)		8082A		1	04/02/15 16:37		CD50161
Aroclor 1268	ND (0.0082)		8082A		1	04/02/15 16:37		CD50161

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*71 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*25 %*	*SC*	*30-150*
Surrogate: Tetrachloro-m-xylene	*18 %*	*SC*	*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*17 %*	*SC*	*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-107 2ft-4ft
Date Sampled: 03/26/15 15:15
Percent Solids: 99
Initial Volume: 25.2
Final Volume: 2
Extraction Method: 3540

ESS Laboratory Work Order: 1503482
ESS Laboratory Sample ID: 1503482-52
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 4/1/15 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.399)		8082A		50	04/02/15 19:09		CD50161
Aroclor 1221	ND (0.399)		8082A		50	04/02/15 19:09		CD50161
Aroclor 1232	ND (0.399)		8082A		50	04/02/15 19:09		CD50161
Aroclor 1242	ND (0.399)		8082A		50	04/02/15 19:09		CD50161
Aroclor 1248	**4.83** (0.399)		8082A		50	04/02/15 19:09		CD50161
Aroclor 1254	**4.52** (0.399)		8082A		50	04/02/15 19:09		CD50161
Aroclor 1260	ND (0.399)		8082A		50	04/02/15 19:09		CD50161
Aroclor 1262	ND (0.399)		8082A		50	04/02/15 19:09		CD50161
Aroclor 1268	ND (0.399)		8082A		50	04/02/15 19:09		CD50161

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	%	SD	30-150
Surrogate: Decachlorobiphenyl [2C]	%	SD	30-150
Surrogate: Tetrachloro-m-xylene	%	SD	30-150
Surrogate: Tetrachloro-m-xylene [2C]	%	SD	30-150

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503482

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Total Metals										
Batch CC53118 - 3050B										
Blank										
Antimony	ND	0.25	mg/kg wet							
Antimony	ND	5.00	mg/kg wet							
Arsenic	ND	2.50	mg/kg wet							
Barium	ND	2.50	mg/kg wet							
Beryllium	ND	0.11	mg/kg wet							
Cadmium	ND	0.50	mg/kg wet							
Chromium	ND	1.00	mg/kg wet							
Lead	ND	5.00	mg/kg wet							
Nickel	ND	2.50	mg/kg wet							
Selenium	ND	5.00	mg/kg wet							
Selenium	ND	0.50	mg/kg wet							
Silver	ND	0.50	mg/kg wet							
Thallium	ND	0.25	mg/kg wet							
Vanadium	ND	1.00	mg/kg wet							
Zinc	ND	2.50	mg/kg wet							
LCS										
Antimony	57.4	8.93	mg/kg wet	49.70		115	24-282			
Antimony	50.5	17.9	mg/kg wet	49.70		102	80-120			
Arsenic	121	8.93	mg/kg wet	133.0		91	80-120			
Barium	197	8.93	mg/kg wet	229.0		86	80-120			
Beryllium	88.1	0.39	mg/kg wet	95.80		92	80-120			
Cadmium	104	1.79	mg/kg wet	123.0		84	80-120			
Chromium	53.4	3.57	mg/kg wet	63.20		84	80-120			
Lead	100	17.9	mg/kg wet	108.0		93	80-120			
Nickel	259	8.93	mg/kg wet	285.0		91	80-120			
Selenium	84.2	17.9	mg/kg wet	81.40		103	80-120			
Selenium	71.8	17.9	mg/kg wet	81.40		88	80-120			
Silver	69.1	1.79	mg/kg wet	74.80		92	80-120			
Thallium	53.8	26.8	mg/kg wet	50.10		107	80-120			
Vanadium	138	3.57	mg/kg wet	148.0		93	80-120			
Zinc	174	8.93	mg/kg wet	203.0		86	80-120			
LCS Dup										
Antimony	51.6	17.9	mg/kg wet	49.70		104	80-120	2	20	
Antimony	64.1	8.93	mg/kg wet	49.70		129	24-282	11	20	
Arsenic	119	8.93	mg/kg wet	133.0		90	80-120	1	20	
Barium	198	8.93	mg/kg wet	229.0		86	80-120	0.6	20	
Beryllium	88.1	0.39	mg/kg wet	95.80		92	80-120	0.01	20	
Cadmium	103	1.79	mg/kg wet	123.0		84	80-120	0.3	20	
Chromium	53.3	3.57	mg/kg wet	63.20		84	80-120	0.2	20	
Lead	100	17.9	mg/kg wet	108.0		93	80-120	0.09	20	
Nickel	260	8.93	mg/kg wet	285.0		91	80-120	0.3	20	
Selenium	69.4	17.9	mg/kg wet	81.40		85	80-120	3	20	
Selenium	91.1	17.9	mg/kg wet	81.40		112	80-120	8	20	
Silver	68.6	1.79	mg/kg wet	74.80		92	80-120	0.8	20	

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503482

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Total Metals										
Batch CC53118 - 3050B										
Thallium	54.2	26.8	mg/kg wet	50.10		108	80-120	0.8	20	
Vanadium	138	3.57	mg/kg wet	148.0		93	80-120	0.6	20	
Zinc	178	8.93	mg/kg wet	203.0		87	80-120	2	20	
Batch CC53119 - 7471A										
Blank										
Mercury	ND	0.033	mg/kg wet							
LCS										
Mercury	29.3	3.00	mg/kg wet	24.90		118	80-120			
LCS Dup										
Mercury	27.7	3.36	mg/kg wet	24.90		111	80-120	6	20	
8082A Polychlorinated Biphenyls (PCB)										
Batch CD50161 - 3540										
Blank										
Aroclor 1016	ND	0.0080	mg/kg wet							
Aroclor 1221	ND	0.0080	mg/kg wet							
Aroclor 1232	ND	0.0080	mg/kg wet							
Aroclor 1242	ND	0.0080	mg/kg wet							
Aroclor 1248	ND	0.0080	mg/kg wet							
Aroclor 1254	ND	0.0080	mg/kg wet							
Aroclor 1260	ND	0.0080	mg/kg wet							
Aroclor 1262	ND	0.0080	mg/kg wet							
Aroclor 1268	ND	0.0080	mg/kg wet							
Surrogate: Decachlorobiphenyl	*0.00430*		mg/kg wet	*0.004000*		*108*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.00363*		mg/kg wet	*0.004000*		*91*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.00268*		mg/kg wet	*0.004000*		*67*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.00255*		mg/kg wet	*0.004000*		*64*	*30-150*			
LCS										
Aroclor 1016	0.0769	0.0080	mg/kg wet	0.08000		96	40-140			
Aroclor 1260	0.0771	0.0080	mg/kg wet	0.08000		96	40-140			
Surrogate: Decachlorobiphenyl	*0.00335*		mg/kg wet	*0.004000*		*84*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.00387*		mg/kg wet	*0.004000*		*97*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.00283*		mg/kg wet	*0.004000*		*71*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.00283*		mg/kg wet	*0.004000*		*71*	*30-150*			
LCS Dup										
Aroclor 1016	0.0751	0.0080	mg/kg wet	0.08000		94	40-140	2	30	
Aroclor 1260	0.0773	0.0080	mg/kg wet	0.08000		97	40-140	0.3	30	
Surrogate: Decachlorobiphenyl	*0.00325*		mg/kg wet	*0.004000*		*81*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.00377*		mg/kg wet	*0.004000*		*94*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.00279*		mg/kg wet	*0.004000*		*70*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.00270*		mg/kg wet	*0.004000*		*67*	*30-150*			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503482

Quality Control Data

8082A Polychlorinated Biphenyls (PCB)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch CD50221 - 3540C										
Blank										
Aroclor 1016	ND	0.0100	mg/kg wet							
Aroclor 1221	ND	0.0100	mg/kg wet							
Aroclor 1232	ND	0.0100	mg/kg wet							
Aroclor 1242	ND	0.0100	mg/kg wet							
Aroclor 1248	ND	0.0100	mg/kg wet							
Aroclor 1254	ND	0.0100	mg/kg wet							
Aroclor 1260	ND	0.0100	mg/kg wet							
Aroclor 1262	ND	0.0100	mg/kg wet							
Aroclor 1268	ND	0.0100	mg/kg wet							
Surrogate: Decachlorobiphenyl	*0.00433*		mg/kg wet	*0.005000*		*87*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.00465*		mg/kg wet	*0.005000*		*93*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.00387*		mg/kg wet	*0.005000*		*77*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.00364*		mg/kg wet	*0.005000*		*73*	*30-150*			
LCS										
Aroclor 1016	0.121	0.0100	mg/kg wet	0.1000		121	40-140			
Aroclor 1260	0.109	0.0100	mg/kg wet	0.1000		109	40-140			
Surrogate: Decachlorobiphenyl	*0.00454*		mg/kg wet	*0.005000*		*91*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.00512*		mg/kg wet	*0.005000*		*102*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.00475*		mg/kg wet	*0.005000*		*95*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.00489*		mg/kg wet	*0.005000*		*98*	*30-150*			
LCS Dup										
Aroclor 1016	0.114	0.0100	mg/kg wet	0.1000		114	40-140	6	30	
Aroclor 1260	0.106	0.0100	mg/kg wet	0.1000		106	40-140	3	30	
Surrogate: Decachlorobiphenyl	*0.00423*		mg/kg wet	*0.005000*		*85*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.00517*		mg/kg wet	*0.005000*		*103*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.00414*		mg/kg wet	*0.005000*		*83*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.00420*		mg/kg wet	*0.005000*		*84*	*30-150*			
Batch CD50616 - 3540C										
Blank										
Aroclor 1016	ND	0.0100	mg/kg wet							
Aroclor 1221	ND	0.0100	mg/kg wet							
Aroclor 1232	ND	0.0100	mg/kg wet							
Aroclor 1242	ND	0.0100	mg/kg wet							
Aroclor 1248	ND	0.0100	mg/kg wet							
Aroclor 1254	ND	0.0100	mg/kg wet							
Aroclor 1260	ND	0.0100	mg/kg wet							
Aroclor 1262	ND	0.0100	mg/kg wet							
Aroclor 1268	ND	0.0100	mg/kg wet							
Surrogate: Decachlorobiphenyl	*0.00429*		mg/kg wet	*0.005000*		*86*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.00467*		mg/kg wet	*0.005000*		*93*	*30-150*			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503482

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CD50616 - 3540C										
Surrogate: Tetrachloro-m-xylene	*0.00393*		mg/kg wet	*0.005000*		*79*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.00365*		mg/kg wet	*0.005000*		*73*	*30-150*			
LCS										
Aroclor 1016	0.126	0.0100	mg/kg wet	0.1000		126	40-140			
Aroclor 1260	0.118	0.0100	mg/kg wet	0.1000		118	40-140			
Surrogate: Decachlorobiphenyl	*0.00426*		mg/kg wet	*0.005000*		*85*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.00497*		mg/kg wet	*0.005000*		*99*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.00393*		mg/kg wet	*0.005000*		*79*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.00396*		mg/kg wet	*0.005000*		*79*	*30-150*			
LCS Dup										
Aroclor 1016	0.139	0.0100	mg/kg wet	0.1000		139	40-140	9	30	
Aroclor 1260	0.130	0.0100	mg/kg wet	0.1000		130	40-140	10	30	
Surrogate: Decachlorobiphenyl	*0.00441*		mg/kg wet	*0.005000*		*88*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.00506*		mg/kg wet	*0.005000*		*101*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.00411*		mg/kg wet	*0.005000*		*82*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.00414*		mg/kg wet	*0.005000*		*83*	*30-150*			
8270D Semi-Volatile Organic Compounds										
Batch CD50329 - 3546										
Blank										
1,2,4-Trichlorobenzene	ND	0.333	mg/kg wet							
1,2-Dichlorobenzene	ND	0.333	mg/kg wet							
1,3-Dichlorobenzene	ND	0.333	mg/kg wet							
1,4-Dichlorobenzene	ND	0.333	mg/kg wet							
2,4,5-Trichlorophenol	ND	0.333	mg/kg wet							
2,4,6-Trichlorophenol	ND	0.333	mg/kg wet							
2,4-Dichlorophenol	ND	0.333	mg/kg wet							
2,4-Dimethylphenol	ND	0.333	mg/kg wet							
2,4-Dinitrophenol	ND	1.67	mg/kg wet							
2,4-Dinitrotoluene	ND	0.333	mg/kg wet							
2,6-Dinitrotoluene	ND	0.333	mg/kg wet							
2-Chloronaphthalene	ND	0.333	mg/kg wet							
2-Chlorophenol	ND	0.333	mg/kg wet							
2-Methylphenol	ND	0.333	mg/kg wet							
2-Nitrophenol	ND	0.333	mg/kg wet							
3,3´-Dichlorobenzidine	ND	0.667	mg/kg wet							
3+4-Methylphenol	ND	0.667	mg/kg wet							
4-Bromophenyl-phenylether	ND	0.333	mg/kg wet							
4-Chloroaniline	ND	0.667	mg/kg wet							
4-Nitrophenol	ND	1.67	mg/kg wet							
Acetophenone	ND	0.667	mg/kg wet							
Aniline	ND	1.67	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503482

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D Semi-Volatile Organic Compounds										
Batch CD50329 - 3546										
Azobenzene	ND	0.333	mg/kg wet							
bis(2-Chloroethoxy)methane	ND	0.333	mg/kg wet							
bis(2-Chloroethyl)ether	ND	0.333	mg/kg wet							
bis(2-chloroisopropyl)Ether	ND	0.333	mg/kg wet							
bis(2-Ethylhexyl)phthalate	ND	0.333	mg/kg wet							
Butylbenzylphthalate	ND	0.333	mg/kg wet							
Dibenzofuran	ND	0.333	mg/kg wet							
Diethylphthalate	ND	0.333	mg/kg wet							
Dimethylphthalate	ND	0.333	mg/kg wet							
Di-n-butylphthalate	ND	0.333	mg/kg wet							
Di-n-octylphthalate	ND	0.333	mg/kg wet							
Hexachlorobutadiene	ND	0.333	mg/kg wet							
Hexachloroethane	ND	0.333	mg/kg wet							
Isophorone	ND	0.333	mg/kg wet							
Nitrobenzene	ND	0.333	mg/kg wet							
N-Nitrosodimethylamine	ND	0.333	mg/kg wet							
Pentachlorophenol	ND	1.67	mg/kg wet							
Phenol	ND	0.333	mg/kg wet							
Surrogate: 1,2-Dichlorobenzene-d4	*2.56*		mg/kg wet	*3.333*		*77*	*30-130*			
Surrogate: 2,4,6-Tribromophenol	*5.62*		mg/kg wet	*5.000*		*112*	*30-130*			
Surrogate: 2-Chlorophenol-d4	*3.86*		mg/kg wet	*5.000*		*77*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*2.84*		mg/kg wet	*3.333*		*85*	*30-130*			
Surrogate: 2-Fluorophenol	*3.59*		mg/kg wet	*5.000*		*72*	*30-130*			
Surrogate: Nitrobenzene-d5	*2.43*		mg/kg wet	*3.333*		*73*	*30-130*			
Surrogate: Phenol-d6	*3.70*		mg/kg wet	*5.000*		*74*	*30-130*			
Surrogate: p-Terphenyl-d14	*3.36*		mg/kg wet	*3.333*		*101*	*30-130*			
LCS										
1,2,4-Trichlorobenzene	2.43	0.333	mg/kg wet	3.333		73	40-140			
1,2-Dichlorobenzene	2.05	0.333	mg/kg wet	3.333		62	40-140			
1,3-Dichlorobenzene	2.06	0.333	mg/kg wet	3.333		62	40-140			
1,4-Dichlorobenzene	2.07	0.333	mg/kg wet	3.333		62	40-140			
2,4,5-Trichlorophenol	3.01	0.333	mg/kg wet	3.333		90	30-130			
2,4,6-Trichlorophenol	3.06	0.333	mg/kg wet	3.333		92	30-130			
2,4-Dichlorophenol	2.68	0.333	mg/kg wet	3.333		80	30-130			
2,4-Dimethylphenol	2.76	0.333	mg/kg wet	3.333		83	30-130			
2,4-Dinitrophenol	2.51	1.67	mg/kg wet	3.333		75	30-130			
2,4-Dinitrotoluene	2.65	0.333	mg/kg wet	3.333		80	40-140			
2,6-Dinitrotoluene	2.60	0.333	mg/kg wet	3.333		78	40-140			
2-Chloronaphthalene	2.26	0.333	mg/kg wet	3.333		68	40-140			
2-Chlorophenol	2.12	0.333	mg/kg wet	3.333		64	30-130			
2-Methylphenol	2.16	0.333	mg/kg wet	3.333		65	30-130			
2-Nitrophenol	2.54	0.333	mg/kg wet	3.333		76	30-130			
3,3´-Dichlorobenzidine	2.23	0.667	mg/kg wet	3.333		67	40-140			
3+4-Methylphenol	5.48	0.667	mg/kg wet	6.667		82	30-130			
4-Bromophenyl-phenylether	3.22	0.333	mg/kg wet	3.333		97	40-140			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503482

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D Semi-Volatile Organic Compounds										
Batch CD50329 - 3546										
4-Chloroaniline	1.89	0.667	mg/kg wet	3.333		57	40-140			
4-Nitrophenol	3.70	1.67	mg/kg wet	3.333		111	30-130			
Acetophenone	2.27	0.667	mg/kg wet	3.333		68	40-140			
Aniline	0.990	1.67	mg/kg wet	3.333		30	40-140			B-
Azobenzene	2.73	0.333	mg/kg wet	3.333		82	40-140			
bis(2-Chloroethoxy)methane	2.33	0.333	mg/kg wet	3.333		70	40-140			
bis(2-Chloroethyl)ether	1.83	0.333	mg/kg wet	3.333		55	40-140			
bis(2-chloroisopropyl)Ether	1.61	0.333	mg/kg wet	3.333		48	40-140			
bis(2-Ethylhexyl)phthalate	2.89	0.333	mg/kg wet	3.333		87	40-140			
Butylbenzylphthalate	2.95	0.333	mg/kg wet	3.333		89	40-140			
Dibenzofuran	2.71	0.333	mg/kg wet	3.333		81	40-140			
Diethylphthalate	2.90	0.333	mg/kg wet	3.333		87	40-140			
Dimethylphthalate	2.63	0.333	mg/kg wet	3.333		79	40-140			
Di-n-butylphthalate	2.80	0.333	mg/kg wet	3.333		84	40-140			
Di-n-octylphthalate	2.97	0.333	mg/kg wet	3.333		89	40-140			
Hexachlorobutadiene	2.68	0.333	mg/kg wet	3.333		80	40-140			
Hexachloroethane	2.22	0.333	mg/kg wet	3.333		67	40-140			
Isophorone	2.26	0.333	mg/kg wet	3.333		68	40-140			
Nitrobenzene	2.33	0.333	mg/kg wet	3.333		70	40-140			
N-Nitrosodimethylamine	2.01	0.333	mg/kg wet	3.333		60	40-140			
Pentachlorophenol	3.57	1.67	mg/kg wet	3.333		107	30-130			
Phenol	3.80	0.333	mg/kg wet	3.333		114	30-130			
Surrogate: 1,2-Dichlorobenzene-d4	*2.35*		mg/kg wet	*3.333*		*71*	*30-130*			
Surrogate: 2,4,6-Tribromophenol	*6.25*		mg/kg wet	*5.000*		*125*	*30-130*			
Surrogate: 2-Chlorophenol-d4	*3.57*		mg/kg wet	*5.000*		*71*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*2.94*		mg/kg wet	*3.333*		*88*	*30-130*			
Surrogate: 2-Fluorophenol	*3.42*		mg/kg wet	*5.000*		*68*	*30-130*			
Surrogate: Nitrobenzene-d5	*2.43*		mg/kg wet	*3.333*		*73*	*30-130*			
Surrogate: Phenol-d6	*3.48*		mg/kg wet	*5.000*		*70*	*30-130*			
Surrogate: p-Terphenyl-d14	*3.66*		mg/kg wet	*3.333*		*110*	*30-130*			
LCS Dup										
1,2,4-Trichlorobenzene	2.29	0.333	mg/kg wet	3.333		69	40-140	6	30	
1,2-Dichlorobenzene	2.01	0.333	mg/kg wet	3.333		60	40-140	2	30	
1,3-Dichlorobenzene	2.03	0.333	mg/kg wet	3.333		61	40-140	2	30	
1,4-Dichlorobenzene	2.04	0.333	mg/kg wet	3.333		61	40-140	2	30	
2,4,5-Trichlorophenol	2.79	0.333	mg/kg wet	3.333		84	30-130	8	30	
2,4,6-Trichlorophenol	2.92	0.333	mg/kg wet	3.333		88	30-130	5	30	
2,4-Dichlorophenol	2.51	0.333	mg/kg wet	3.333		75	30-130	6	30	
2,4-Dimethylphenol	2.55	0.333	mg/kg wet	3.333		77	30-130	8	30	
2,4-Dinitrophenol	2.40	1.67	mg/kg wet	3.333		72	30-130	4	30	
2,4-Dinitrotoluene	2.51	0.333	mg/kg wet	3.333		75	40-140	6	30	
2,6-Dinitrotoluene	2.47	0.333	mg/kg wet	3.333		74	40-140	5	30	
2-Chloronaphthalene	2.13	0.333	mg/kg wet	3.333		64	40-140	6	30	
2-Chlorophenol	2.07	0.333	mg/kg wet	3.333		62	30-130	2	30	
2-Methylphenol	2.11	0.333	mg/kg wet	3.333		63	30-130	2	30	

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503482

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D Semi-Volatile Organic Compounds										
Batch CD50329 - 3546										
2-Nitrophenol	2.34	0.333	mg/kg wet	3.333		70	30-130	8	30	
3,3´-Dichlorobenzidine	2.09	0.667	mg/kg wet	3.333		63	40-140	7	30	
3+4-Methylphenol	4.40	0.667	mg/kg wet	6.667		66	30-130	22	30	
4-Bromophenyl-phenylether	2.96	0.333	mg/kg wet	3.333		89	40-140	8	30	
4-Chloroaniline	1.81	0.667	mg/kg wet	3.333		54	40-140	4	30	
4-Nitrophenol	3.54	1.67	mg/kg wet	3.333		106	30-130	5	30	
Acetophenone	2.20	0.667	mg/kg wet	3.333		66	40-140	3	30	
Aniline	1.45	1.67	mg/kg wet	3.333		43	40-140	37	30	D+
Azobenzene	2.47	0.333	mg/kg wet	3.333		74	40-140	10	30	
bis(2-Chloroethoxy)methane	2.19	0.333	mg/kg wet	3.333		66	40-140	6	30	
bis(2-Chloroethyl)ether	1.82	0.333	mg/kg wet	3.333		55	40-140	0.6	30	
bis(2-chloroisopropyl)Ether	1.60	0.333	mg/kg wet	3.333		48	40-140	0.9	30	
bis(2-Ethylhexyl)phthalate	2.70	0.333	mg/kg wet	3.333		81	40-140	7	30	
Butylbenzylphthalate	2.79	0.333	mg/kg wet	3.333		84	40-140	6	30	
Dibenzofuran	2.57	0.333	mg/kg wet	3.333		77	40-140	5	30	
Diethylphthalate	2.73	0.333	mg/kg wet	3.333		82	40-140	6	30	
Dimethylphthalate	2.53	0.333	mg/kg wet	3.333		76	40-140	4	30	
Di-n-butylphthalate	2.62	0.333	mg/kg wet	3.333		79	40-140	7	30	
Di-n-octylphthalate	2.82	0.333	mg/kg wet	3.333		85	40-140	5	30	
Hexachlorobutadiene	2.50	0.333	mg/kg wet	3.333		75	40-140	7	30	
Hexachloroethane	2.14	0.333	mg/kg wet	3.333		64	40-140	4	30	
Isophorone	2.12	0.333	mg/kg wet	3.333		64	40-140	6	30	
Nitrobenzene	2.20	0.333	mg/kg wet	3.333		66	40-140	6	30	
N-Nitrosodimethylamine	2.06	0.333	mg/kg wet	3.333		62	40-140	2	30	
Pentachlorophenol	3.30	1.67	mg/kg wet	3.333		99	30-130	8	30	
Phenol	3.09	0.333	mg/kg wet	3.333		93	30-130	21	30	
Surrogate: 1,2-Dichlorobenzene-d4	*2.23*		mg/kg wet	*3.333*		*67*	*30-130*			
Surrogate: 2,4,6-Tribromophenol	*5.59*		mg/kg wet	*5.000*		*112*	*30-130*			
Surrogate: 2-Chlorophenol-d4	*3.37*		mg/kg wet	*5.000*		*67*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*2.64*		mg/kg wet	*3.333*		*79*	*30-130*			
Surrogate: 2-Fluorophenol	*3.18*		mg/kg wet	*5.000*		*64*	*30-130*			
Surrogate: Nitrobenzene-d5	*2.19*		mg/kg wet	*3.333*		*66*	*30-130*			
Surrogate: Phenol-d6	*3.26*		mg/kg wet	*5.000*		*65*	*30-130*			
Surrogate: p-Terphenyl-d14	*3.33*		mg/kg wet	*3.333*		*100*	*30-130*			
8270D(SIM) Polynuclear Aromatic Hydrocarbons										
Batch CC53111 - 3546										
Blank										
2-Methylnaphthalene	ND	0.017	mg/kg wet							
Acenaphthene	ND	0.017	mg/kg wet							
Acenaphthylene	ND	0.017	mg/kg wet							
Anthracene	ND	0.017	mg/kg wet							
Benzo(a)anthracene	ND	0.017	mg/kg wet							
Benzo(a)pyrene	ND	0.017	mg/kg wet							
Benzo(b)fluoranthene	ND	0.017	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503482

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D(SIM) Polynuclear Aromatic Hydrocarbons										
Batch CC53111 - 3546										
Benzo(g,h,i)perylene	ND	0.017	mg/kg wet							
Benzo(k)fluoranthene	ND	0.017	mg/kg wet							
Chrysene	ND	0.017	mg/kg wet							
Dibenzo(a,h)Anthracene	ND	0.017	mg/kg wet							
Fluoranthene	ND	0.017	mg/kg wet							
Fluorene	ND	0.017	mg/kg wet							
Hexachlorobenzene	ND	0.017	mg/kg wet							
Indeno(1,2,3-cd)Pyrene	ND	0.017	mg/kg wet							
Naphthalene	ND	0.017	mg/kg wet							
Phenanthrene	ND	0.017	mg/kg wet							
Pyrene	ND	0.017	mg/kg wet							
Surrogate: 1,2-Dichlorobenzene-d4	*0.215*		mg/kg wet	*0.3333*		*65*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*0.267*		mg/kg wet	*0.3333*		*80*	*30-130*			
Surrogate: Nitrobenzene-d5	*0.267*		mg/kg wet	*0.3333*		*80*	*30-130*			
Surrogate: p-Terphenyl-d14	*0.294*		mg/kg wet	*0.3333*		*88*	*30-130*			
LCS										
2-Methylnaphthalene	0.189	0.017	mg/kg wet	0.2667		71	40-140			
Acenaphthene	0.205	0.017	mg/kg wet	0.2667		77	40-140			
Acenaphthylene	0.207	0.017	mg/kg wet	0.2667		78	40-140			
Anthracene	0.204	0.017	mg/kg wet	0.2667		76	40-140			
Benzo(a)anthracene	0.201	0.017	mg/kg wet	0.2667		75	40-140			
Benzo(a)pyrene	0.215	0.017	mg/kg wet	0.2667		81	40-140			
Benzo(b)fluoranthene	0.224	0.017	mg/kg wet	0.2667		84	40-140			
Benzo(g,h,i)perylene	0.153	0.017	mg/kg wet	0.2667		57	40-140			
Benzo(k)fluoranthene	0.235	0.017	mg/kg wet	0.2667		88	40-140			
Chrysene	0.224	0.017	mg/kg wet	0.2667		84	40-140			
Dibenzo(a,h)Anthracene	0.179	0.017	mg/kg wet	0.2667		67	40-140			
Fluoranthene	0.214	0.017	mg/kg wet	0.2667		80	40-140			
Fluorene	0.213	0.017	mg/kg wet	0.2667		80	40-140			
Hexachlorobenzene	0.146	0.017	mg/kg wet	0.2667		55	40-140			
Indeno(1,2,3-cd)Pyrene	0.162	0.017	mg/kg wet	0.2667		61	40-140			
Naphthalene	0.177	0.017	mg/kg wet	0.2667		66	40-140			
Phenanthrene	0.190	0.017	mg/kg wet	0.2667		71	40-140			
Pyrene	0.211	0.017	mg/kg wet	0.2667		79	40-140			
Surrogate: 1,2-Dichlorobenzene-d4	*0.240*		mg/kg wet	*0.3333*		*72*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*0.284*		mg/kg wet	*0.3333*		*85*	*30-130*			
Surrogate: Nitrobenzene-d5	*0.285*		mg/kg wet	*0.3333*		*85*	*30-130*			
Surrogate: p-Terphenyl-d14	*0.317*		mg/kg wet	*0.3333*		*95*	*30-130*			
LCS Dup										
2-Methylnaphthalene	0.224	0.017	mg/kg wet	0.2667		84	40-140	17	30	
Acenaphthene	0.230	0.017	mg/kg wet	0.2667		86	40-140	11	30	
Acenaphthylene	0.139	0.017	mg/kg wet	0.2667		52	40-140	40	30	D+
Anthracene	0.171	0.017	mg/kg wet	0.2667		64	40-140	18	30	
Benzo(a)anthracene	0.197	0.017	mg/kg wet	0.2667		74	40-140	2	30	
Benzo(a)pyrene	0.155	0.017	mg/kg wet	0.2667		58	40-140	33	30	D+

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503482

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D(SIM) Polynuclear Aromatic Hydrocarbons										
Batch CC53111 - 3546										
Benzo(b)fluoranthene	0.243	0.017	mg/kg wet	0.2667		91	40-140	8	30	
Benzo(g,h,i)perylene	0.153	0.017	mg/kg wet	0.2667		57	40-140	0.2	30	
Benzo(k)fluoranthene	0.249	0.017	mg/kg wet	0.2667		93	40-140	6	30	
Chrysene	0.224	0.017	mg/kg wet	0.2667		84	40-140	0.2	30	
Dibenzo(a,h)Anthracene	0.177	0.017	mg/kg wet	0.2667		66	40-140	1	30	
Fluoranthene	0.221	0.017	mg/kg wet	0.2667		83	40-140	3	30	
Fluorene	0.239	0.017	mg/kg wet	0.2667		90	40-140	12	30	
Hexachlorobenzene	0.152	0.017	mg/kg wet	0.2667		57	40-140	4	30	
Indeno(1,2,3-cd)Pyrene	0.162	0.017	mg/kg wet	0.2667		61	40-140	0.2	30	
Naphthalene	0.200	0.017	mg/kg wet	0.2667		75	40-140	12	30	
Phenanthrene	0.213	0.017	mg/kg wet	0.2667		80	40-140	11	30	
Pyrene	0.218	0.017	mg/kg wet	0.2667		82	40-140	3	30	
Surrogate: 1,2-Dichlorobenzene-d4	*0.277*		mg/kg wet	*0.3333*		*83*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*0.324*		mg/kg wet	*0.3333*		*97*	*30-130*			
Surrogate: Nitrobenzene-d5	*0.328*		mg/kg wet	*0.3333*		*98*	*30-130*			
Surrogate: p-Terphenyl-d14	*0.331*		mg/kg wet	*0.3333*		*99*	*30-130*			
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CC53008 - 3546										
Blank										
C19-C36 Aliphatics1	ND	15.0	mg/kg wet							
C9-C18 Aliphatics1	ND	15.0	mg/kg wet							
Decane (C10)	ND	0.5	mg/kg wet							
Docosane (C22)	ND	0.5	mg/kg wet							
Dodecane (C12)	ND	0.5	mg/kg wet							
Eicosane (C20)	ND	0.5	mg/kg wet							
Hexacosane (C26)	ND	0.5	mg/kg wet							
Hexadecane (C16)	ND	0.5	mg/kg wet							
Hexatriacontane (C36)	ND	0.5	mg/kg wet							
Nonadecane (C19)	ND	0.5	mg/kg wet							
Nonane (C9)	ND	0.5	mg/kg wet							
Octacosane (C28)	ND	0.5	mg/kg wet							
Octadecane (C18)	ND	0.5	mg/kg wet							
Tetracosane (C24)	ND	0.5	mg/kg wet							
Tetradecane (C14)	ND	0.5	mg/kg wet							
Triacontane (C30)	ND	0.5	mg/kg wet							
Surrogate: 1-Chlorooctadecane	*1.37*		mg/kg wet	*2.000*		*68*	*40-140*			
Blank										
2-Methylnaphthalene	ND	0.20	mg/kg wet							
Acenaphthene	ND	0.40	mg/kg wet							
Acenaphthylene	ND	0.20	mg/kg wet							
Anthracene	ND	0.40	mg/kg wet							
Benzo(a)anthracene	ND	0.40	mg/kg wet							
Benzo(a)pyrene	ND	0.40	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503482

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CC53008 - 3546										
Benzo(b)fluoranthene	ND	0.40	mg/kg wet							
Benzo(g,h,i)perylene	ND	0.40	mg/kg wet							
Benzo(k)fluoranthene	ND	0.40	mg/kg wet							
C11-C22 Unadjusted Aromatics1	ND	15.0	mg/kg wet							
Chrysene	ND	0.40	mg/kg wet							
Dibenzo(a,h)Anthracene	ND	0.20	mg/kg wet							
Fluoranthene	ND	0.40	mg/kg wet							
Fluorene	ND	0.40	mg/kg wet							
Indeno(1,2,3-cd)Pyrene	ND	0.40	mg/kg wet							
Naphthalene	ND	0.40	mg/kg wet							
Phenanthrene	ND	0.40	mg/kg wet							
Pyrene	ND	0.40	mg/kg wet							
Surrogate: 2-Bromonaphthalene	*1.47*		mg/kg wet	*2.000*		*74*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*1.42*		mg/kg wet	*2.000*		*71*	*40-140*			
Surrogate: O-Terphenyl	*1.43*		mg/kg wet	*2.000*		*72*	*40-140*			
LCS										
C19-C36 Aliphatics1	16.9	15.0	mg/kg wet	16.00		106	40-140			
C9-C18 Aliphatics1	10.3	15.0	mg/kg wet	12.00		86	40-140			
Decane (C10)	1.2	0.5	mg/kg wet	2.000		60	40-140			
Docosane (C22)	1.9	0.5	mg/kg wet	2.000		93	40-140			
Dodecane (C12)	1.2	0.5	mg/kg wet	2.000		60	40-140			
Eicosane (C20)	1.8	0.5	mg/kg wet	2.000		90	40-140			
Hexacosane (C26)	1.9	0.5	mg/kg wet	2.000		95	40-140			
Hexadecane (C16)	1.6	0.5	mg/kg wet	2.000		80	40-140			
Hexatriacontane (C36)	1.9	0.5	mg/kg wet	2.000		93	40-140			
Nonadecane (C19)	1.8	0.5	mg/kg wet	2.000		91	40-140			
Nonane (C9)	1.0	0.5	mg/kg wet	2.000		48	30-140			
Octacosane (C28)	1.9	0.5	mg/kg wet	2.000		93	40-140			
Octadecane (C18)	1.7	0.5	mg/kg wet	2.000		86	40-140			
Tetracosane (C24)	1.8	0.5	mg/kg wet	2.000		90	40-140			
Tetradecane (C14)	1.4	0.5	mg/kg wet	2.000		71	40-140			
Triacontane (C30)	1.8	0.5	mg/kg wet	2.000		92	40-140			
Surrogate: 1-Chlorooctadecane	*1.47*		mg/kg wet	*2.000*		*73*	*40-140*			
LCS										
2-Methylnaphthalene	1.29	0.20	mg/kg wet	2.000		65	40-140			
Acenaphthene	1.40	0.40	mg/kg wet	2.000		70	40-140			
Acenaphthylene	1.42	0.20	mg/kg wet	2.000		71	40-140			
Anthracene	1.70	0.40	mg/kg wet	2.000		85	40-140			
Benzo(a)anthracene	1.87	0.40	mg/kg wet	2.000		93	40-140			
Benzo(a)pyrene	2.03	0.40	mg/kg wet	2.000		101	40-140			
Benzo(b)fluoranthene	1.90	0.40	mg/kg wet	2.000		95	40-140			
Benzo(g,h,i)perylene	1.96	0.40	mg/kg wet	2.000		98	40-140			
Benzo(k)fluoranthene	1.80	0.40	mg/kg wet	2.000		90	40-140			
C11-C22 Unadjusted Aromatics1	29.7	15.0	mg/kg wet	34.00		87	40-140			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503482

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CC53008 - 3546										
Chrysene	1.92	0.40	mg/kg wet	2.000		96	40-140			
Dibenzo(a,h)Anthracene	1.84	0.20	mg/kg wet	2.000		92	40-140			
Fluoranthene	1.80	0.40	mg/kg wet	2.000		90	40-140			
Fluorene	1.50	0.40	mg/kg wet	2.000		75	40-140			
Indeno(1,2,3-cd)Pyrene	1.92	0.40	mg/kg wet	2.000		96	40-140			
Naphthalene	1.19	0.40	mg/kg wet	2.000		60	40-140			
Phenanthrene	1.67	0.40	mg/kg wet	2.000		84	40-140			
Pyrene	1.80	0.40	mg/kg wet	2.000		90	40-140			
Surrogate: 2-Bromonaphthalene	*1.57*		mg/kg wet	*2.000*		*78*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*1.56*		mg/kg wet	*2.000*		*78*	*40-140*			
Surrogate: O-Terphenyl	*1.52*		mg/kg wet	*2.000*		*76*	*40-140*			
LCS										
2-Methylnaphthalene Breakthrough	0.0		%				0-5			
Naphthalene Breakthrough	0.0		%				0-5			
LCS Dup										
C19-C36 Aliphatics1	16.0	15.0	mg/kg wet	16.00		100	40-140	5	25	
C9-C18 Aliphatics1	9.1	15.0	mg/kg wet	12.00		76	40-140	12	25	
Decane (C10)	1.0	0.5	mg/kg wet	2.000		52	40-140	14	25	
Docosane (C22)	1.8	0.5	mg/kg wet	2.000		89	40-140	5	25	
Dodecane (C12)	1.0	0.5	mg/kg wet	2.000		52	40-140	14	25	
Eicosane (C20)	1.7	0.5	mg/kg wet	2.000		86	40-140	5	25	
Hexacosane (C26)	1.8	0.5	mg/kg wet	2.000		91	40-140	4	25	
Hexadecane (C16)	1.5	0.5	mg/kg wet	2.000		73	40-140	9	25	
Hexatriacontane (C36)	1.8	0.5	mg/kg wet	2.000		89	40-140	5	25	
Nonadecane (C19)	1.7	0.5	mg/kg wet	2.000		87	40-140	5	25	
Nonane (C9)	0.8	0.5	mg/kg wet	2.000		42	30-140	13	25	
Octacosane (C28)	1.8	0.5	mg/kg wet	2.000		89	40-140	5	25	
Octadecane (C18)	1.6	0.5	mg/kg wet	2.000		82	40-140	5	25	
Tetracosane (C24)	1.7	0.5	mg/kg wet	2.000		86	40-140	5	25	
Tetradecane (C14)	1.3	0.5	mg/kg wet	2.000		63	40-140	13	25	
Triacontane (C30)	1.7	0.5	mg/kg wet	2.000		87	40-140	5	25	
Surrogate: 1-Chlorooctadecane	*1.36*		mg/kg wet	*2.000*		*68*	*40-140*			
LCS Dup										
2-Methylnaphthalene	1.27	0.20	mg/kg wet	2.000		64	40-140	2	20	
Acenaphthene	1.40	0.40	mg/kg wet	2.000		70	40-140	0.03	20	
Acenaphthylene	1.37	0.20	mg/kg wet	2.000		68	40-140	4	20	
Anthracene	1.68	0.40	mg/kg wet	2.000		84	40-140	0.9	20	
Benzo(a)anthracene	1.88	0.40	mg/kg wet	2.000		94	40-140	0.6	20	
Benzo(a)pyrene	2.00	0.40	mg/kg wet	2.000		100	40-140	1	20	
Benzo(b)fluoranthene	1.83	0.40	mg/kg wet	2.000		91	40-140	4	20	
Benzo(g,h,i)perylene	1.97	0.40	mg/kg wet	2.000		98	40-140	0.4	20	
Benzo(k)fluoranthene	1.90	0.40	mg/kg wet	2.000		95	40-140	5	20	
C11-C22 Unadjusted Aromatics1	30.0	15.0	mg/kg wet	34.00		88	40-140	1	25	

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503482

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CC53008 - 3546										
Chrysene	1.91	0.40	mg/kg wet	2.000		96	40-140	0.2	20	
Dibenzo(a,h)Anthracene	1.91	0.20	mg/kg wet	2.000		96	40-140	4	20	
Fluoranthene	1.79	0.40	mg/kg wet	2.000		89	40-140	0.6	20	
Fluorene	1.48	0.40	mg/kg wet	2.000		74	40-140	2	20	
Indeno(1,2,3-cd)Pyrene	1.93	0.40	mg/kg wet	2.000		96	40-140	0.6	20	
Naphthalene	1.19	0.40	mg/kg wet	2.000		60	40-140	0.1	20	
Phenanthrene	1.69	0.40	mg/kg wet	2.000		85	40-140	1	20	
Pyrene	1.80	0.40	mg/kg wet	2.000		90	40-140	0.2	20	
Surrogate: 2-Bromonaphthalene	*1.52*		mg/kg wet	*2.000*		*76*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*1.53*		mg/kg wet	*2.000*		*77*	*40-140*			
Surrogate: O-Terphenyl	*1.55*		mg/kg wet	*2.000*		*78*	*40-140*			
LCS Dup										
2-Methylnaphthalene Breakthrough	0.0		%				0-5		200	
Naphthalene Breakthrough	0.0		%				0-5		200	

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase ESS Laboratory Work Order: 1503482

Notes and Definitions

U	Analyte included in the analysis, but not detected
SD	Surrogate recovery(ies) diluted below the MRL (SD).
SC	Surrogate recovery(ies) outside of criteria. Reextraction/Reanalysis confirms results (SC).
PT	Pentachlorophenol tailing factor > 2.
P	Percent difference between primary and confirmation results exceeds 40% (P).
LC	Lower value is used due to matrix interferences (LC).
IM	Internal Standard(s) outside of criteria due to matrix (UCM/coelution is present) (IM).
EL	Elevated Method Reporting Limits due to sample matrix (EL).
D+	Relative percent difference for duplicate is outside of criteria (D+).
D	Diluted.
C+	Continuing Calibration recovery is above upper control limit (C+).
C-	Continuing Calibration recovery is below lower control limit (C-).
B-	Blank Spike recovery is below lower control limit (B-).
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	Detection Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report
[2C]	Result was taken from the second column. Dual column analysis.

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503482

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Department of Defense (DoD) Environmental Laboratory Accreditation Program (ELAP)
A2LA Accredited: Testing Cert# 2864.01
http://www.a2la.org/scopepdf/2864-01.pdf

Rhode Island Potable and Non Potable Water: LAI00179
http://www.health.ri.gov/find/labs/analytical/ESS.pdf

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750
http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI0002
http://www.maine.gov/dhhs/mecdc/environmental-health/water/dwp-services/labcert/documents/AllLabs.xls

Massachusetts Potable and Non Potable Water: M-RI002
http://public.dep.state.ma.us/Labcert/Labcert.aspx

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424
http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313
http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006
http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

United States Department of Agriculture Soil Permit: P330-12-00139

Pennsylvania: 68-01752
http://www.depweb.state.pa.us/portal/server.pt/community/labs/13780/laboratory_accreditation_program/590095

CHEMISTRY

A2LA Accredited: Testing Cert # 2864.01
Lead in Paint, Phthalates, Lead in Children's Metals Products (Including Jewelry)
http://www.A2LA.org/dirsearchnew/newsearch.cfm

CPSC ID# 1141
Lead Paint, Lead in Children's Metals Jewelry
http://www.cpsc.gov/cgi-bin/labapplist.aspx

Sample and Cooler Receipt Checklist

Client: GZA GeoEnvironmental, Inc.
Client Project ID: _____
Shipped/Delivered Via: ESS Courier

ESS Project ID: 15030482
Date Project Due: 4/3/15
Days For Project: 5 Day

Items to be checked upon receipt:

1. Air Bill Manifest Present?	* No	10. Are the samples properly preserved?	Yes
Air No.:		11. Proper sample containers used?	Yes
2. Were Custody Seals Present?	No	12. Any air bubbles in the VOA vials?	N/A
3. Were Custody Seals Intact?	N/A	13. Holding times exceeded?	No
4. Is Radiation count < 100 CPM?	Yes	14. Sufficient sample volumes?	Yes
5. Is a cooler present?	Yes	15. Any Subcontracting needed?	No
Cooler Temp: **3.0**		16. Are ESS labels on correct containers?	**Yes|No**
Iced With: **Ice**		17. Were samples received intact?	**(Yes)|No**
6. Was COC included with samples?	Yes	ESS Sample IDs: _____	
7. Was COC signed and dated by client?	Yes	Sub Lab: _____	
8. Does the COC match the sample	Yes	Analysis: _____	
9. Is COC complete and correct?	Yes	TAT: _____	

18. Was there need to call project manager to discuss status? If yes, please explain.

_____

_____

_____

Who was called?:_____ By whom? _____

Sample Number	Properly Preserved	Container Type	# of Containers	Preservative
1	Yes	8 oz Soil Jar	2	NP
2	Yes	2 oz Soil Jar	1	NP
2	Yes	8 oz Soil Jar	2	NP
3	Yes	2 oz Soil Jar	1	NP
3	Yes	8 oz Soil Jar	2	NP
4	Yes	8 oz Soil Jar	2	NP
5	Yes	8 oz Soil Jar	2	NP
6	Yes	8 oz Soil Jar	2	NP
7	Yes	2 oz Soil Jar	1	NP
7	Yes	8 oz Soil Jar	2	NP
8	Yes	2 oz Soil Jar	1	NP
8	Yes	8 oz Soil Jar	2	NP
9	Yes	8 oz Soil Jar	2	NP
10	Yes	2 oz Soil Jar	1	NP
10	Yes	8 oz Soil Jar	2	NP
11	Yes	8 oz Soil Jar	2	NP
12	Yes	2 oz Soil Jar	1	NP
12	Yes	8 oz Soil Jar	2	NP
13	Yes	8 oz Soil Jar	2	NP
14	Yes	8 oz Soil Jar	2	NP
15	Yes	2 oz Soil Jar	1	NP
15	Yes	8 oz Soil Jar	2	NP
16	Yes	8 oz Soil Jar	2	NP
17	Yes	2 oz Soil Jar	1	NP
17	Yes	8 oz Soil Jar	2	NP

Sample and Cooler Receipt Checklist

Client: GZA GeoEnvironmental, Inc. ESS Project ID: 15030482

18	Yes	8 oz Soil Jar	2	NP
19	Yes	8 oz Soil Jar	2	NP
20	Yes	8 oz Soil Jar	2	NP
21	Yes	8 oz Soil Jar	1	NP
22	Yes	8 oz Soil Jar	1	NP
23	Yes	8 oz Soil Jar	1	NP
24	Yes	8 oz Soil Jar	1	NP
25	Yes	8 oz Soil Jar	1	NP
26	Yes	8 oz Soil Jar	1	NP
27	Yes	8 oz Soil Jar	1	NP
28	Yes	8 oz Soil Jar	1	NP
29	Yes	8 oz Soil Jar	1	NP
30	Yes	8 oz Soil Jar	1	NP
31	Yes	8 oz Soil Jar	1	NP
32	Yes	8 oz Soil Jar	1	NP
33	Yes	8 oz Soil Jar	1	NP
34	Yes	8 oz Soil Jar	1	NP
35	Yes	8 oz Soil Jar	1	NP
36	Yes	8 oz Soil Jar	1	NP
37	Yes	8 oz Soil Jar	1	NP
38	Yes	8 oz Soil Jar	1	NP
39	Yes	8 oz Soil Jar	1	NP
40	Yes	8 oz Soil Jar	1	NP
41	Yes	8 oz Soil Jar	1	NP
42	Yes	8 oz Soil Jar	1	NP
43	Yes	8 oz Soil Jar	1	NP
44	Yes	8 oz Soil Jar	1	NP
45	Yes	8 oz Soil Jar	1	NP
46	Yes	8 oz Soil Jar	1	NP
47	Yes	8 oz Soil Jar	1	NP
48	Yes	8 oz Soil Jar	1	NP
49	Yes	8 oz Soil Jar	1	NP
50	Yes	8 oz Soil Jar	1	NP
51	Yes	8 oz Soil Jar	1	NP
52	Yes	8 oz Soil Jar	1	NP

Completed By: _____ Date/Time: 3/27/15 1046

Reviewed By: _____ Date/Time: 3/27/15 1124

ESS Laboratory

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
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CHAIN OF CUSTODY

ESS LAB PROJECT ID: 1503482

Turn Time ___X___Standard Rush_____ Approved By: _____

Reporting Limits -

State where samples were collected: **MA** RI CT NH NJ NY ME Other_____

Is this project for any of the following: (please circle)
MA-MCP CT-RCP NJ-DKQP RGP DOD Other____

Electonic Deliverable Yes ✓ No____
Format: Excel ✓ Access___ PDF ✓ Other_____

GZA Project Manager: David E. Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Ave
Norwood, MA 02062
(781) 278-3700

Project No.: 01.0171521.13 Task 001
Project Name: Wynn - Everett
Contract Pricing ____
Special Pricing WO#: _____

ESS Lab Sample ID	Date	Collection Time	Grab -G Composite-C	Matrix	Sample Identification	# of Containers	Analysis: MCP-14 Metals	PAHs by SIM	TOC	SVOCs	PCBs (Aroclors)	EPH	Hexavalent Chromium	Reactivity (Sulfide and Cyanide)	VOCs	% water	Grain Size Analysis	Comment #
1 21 41	3-26-15	1005	G	S	LC-101 (0'-0.5')		X	X	X	X	X	X						
					LC-101 (0.5'-2')		HOLD			AND		FREEZE						
2 22					LC-101 (2'-4')		X	X										
3					LC-101 (4'-6')		HOLD			AND		FREEZE						
5 23		↓			LC-101 (6'-8')		X	X										
4 24 42		1030			LC-102 (0'-0.5')		X	X	X	X	X	X						
5 25 43					LC-102 (0.5'-2')		X	X	X	X	X	X						
					LC-102 (2'-4')		HOLD			AND		FREEZE						
					LC-102 (4'-6')		HOLD			AND		FREEZE						
	↓	↓	↓	↓	LC-102 (6'-8')		HOLD			AND		FREEZE						

Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-_____

Container Type: P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filter

Cooler Present _____Yes _____No

Seals Intact _____Yes _____No NA: _____

Cooler Temperature: 3.0°C ICE Mum 3/27/15

Sampled by : Daniel Scanlon (Daniel.Scanlon@gza.com)

Comments: (1) TCLP 20X Rule Applies ONLY IF NOTED IN COMMENT COLUMN

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	3/26/15 @ 1730	3/27/15 OTW		3/27/15 0920	3/27/15 0924

ESS Laboratory

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185 Frances Avenue, Cranston, RI 02910-2211
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CHAIN OF CUSTODY

ESS LAB PROJECT ID

Turn Time ___X___Standard Rush_____ Approved By: _____

Reporting Limits -

State where samples were collected: **MA** RI CT NH NJ NY ME Other_____

Is this project for any of the following: (please circle)
MA-MCP CT-RCP NJ-DKQP RGP DOD Other____

Electonic Deliverable Yes ✓ No___
Format: Excel X Access___ PDF X Other_____

GZA Project Manager: David E. Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Ave
Norwood, MA 02062
(781) 278-3700

Project No.: 01.0171521.13 Task 001
Project Name: Wynn - Everett
Contract Pricing ____
Special Pricing WO#: _____

ESS Lab Sample ID	Date	Collection Time	Grab -G Composite-C	Matrix	Sample Identification	# of Containers	Analysis: MCP-14 Metals	PAHs by SIM	TOC	SVOCs	PCBs (Aroclors)	EPH	Hexavalent Chromium	Reactivity (Sulfide and Cyanide)	VOCs	% water	Grain Size Analysis	Comment #
~~43 33 44~~	3/26/15	10:50	G	S	LC-103 (0'-0.5')		X	X	X	X	X	X						
6 26 44					LC-103 (0.5'-2')		HOLD AND FREEZE											
7 27					LC-103 (2'-4')		X	X										
8 28		↓			LC-103 (4'-6')		X	X										
9 29 45		1115			LC-104 (0'-0.5')		X	X	X	X	X	X						
10 30					LC-104 (0.5'-2')		X	X										
					LC-104 (2'-4')		HOLD AND FREEZE											
11 31 46		1145			LC-105 (0'-0.5')		X	X	X	X	X	X						
					LC-105 (0.5'-2')		HOLD AND FREEZE											
12 32	↓	↓	↓	↓	LC-105 (2'-4')		X	X										

Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-_____

Container Type: P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filter

Cooler Present ___✓___Yes _____No
Seals Intact _____Yes _____No NA: ✓
Cooler Temperature: 3.6°C 3/27/15

Sampled by : Daniel Scanlon (Daniel.Scanlon@gza.com)

Comments: (1) TCLP 20X Rule Applies ONLY if noted in comments column

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	3/26/15 @ 1730	3/27/15 0700		3/27/15 0920	3/27/15 0924

ESS Laboratory
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185 Frances Avenue, Cranston, RI 02910-2211
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www.esslaboratory.com

CHAIN OF CUSTODY

ESS LAB PROJECT ID

Turn Time ___X___Standard Rush_____ Approved By: _____

Reporting Limits -

State where samples were collected: **MA** RI CT NH NJ NY ME Other_____

Is this project for any of the following: (please circle)
MA-MCP CT-RCP NJ-DKQP RGP DOD Other____

Electonic Deliverable Yes ✓ No___
Format: Excel ✓ Access___ PDF ✓ Other_____

GZA Project Manager: David E. Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Ave
Norwood, MA 02062
(781) 278-3700

Project No.: 01.0171521.13 Task 001

Project Name: Wynn - Everett

Contract Pricing _____
Special Pricing WO#: _____

ESS Lab Sample ID	Date	Collection Time	Grab -G Composite-C	Matrix	Sample Identification	# of Containers	MCP-14 Metals	PAHs by SIM	TOC	SVOCs	PCBs (Aroclors)	EPH	Hexavalent Chromium	Reactivity (Sulfide and Cyanide)	VOCs	% water	Grain Size Analysis	Comment #
13 33 47	3/26/15	1145	G	S	LC-105 (4'-6')		X	X	X	X	X	X						
14 34 48					LC-109 (0'-0.5')		X	X	X	X	X	X						
					LC-109 (0.5'-2')		HOLD AND FREEZE											
					LC-109 (2'-4')		HOLD AND FREEZE											
15 35		↓			LC-109 (4'-6')		X	X										
16 36 49		1400			LC-108 (0'-0.5')		X	X	X	X	X	X						
17 37					LC-108 (0.5'-2')		X	X										
					LC-108 (2'-4')		HOLD AND FREEZE											
18 38 50		↓			LC-108 (4'-6')		X	X	X	X	X	X						
19 39 51	↓	1515	↓	↓	LC-107 (0'-0.5')		X	X	X	X	X	X						

Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-_____

Container Type: P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filter

Cooler Present ✓ Yes _____ No

Seals Intact _____ Yes _____ No NA: ✓

Cooler Temperature: 3.0°C IR Gun 3/27/15

Sampled by : Daniel Scanlon (Daniel.Scanlon@gza.com)

Comments: (1) TCLP 20X Rule Applies ONLY if noted in coments column.

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	3/26/15 @ 1730	3/26/15 0700		3/27/15 0920	3/27/15 0924

ESS Laboratory

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CHAIN OF CUSTODY

ESS LAB PROJECT ID

Turn Time ___X___Standard Rush_____ Approved By: _____

Reporting Limits -

State where samples were collected: **MA** RI CT NH NJ NY ME Other_____

Is this project for any of the following: (please circle)
MA-MCP CT-RCP NJ-DKQP RGP DOD Other____

Electonic Deliverable Yes____ No____
Format: Excel___ Access___ PDF___ Other_____

GZA Project Manager: David E. Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Ave
Norwood, MA 02062
(781) 278-3700

Project No.: 01.0171521.13 Task 001

Project Name: Wynn - Everett

Contract Pricing _____
Special Pricing WO#: _____

ESS Lab Sample ID	Date	Collection Time	Grab -G Composite-C	Matrix	Sample Identification	# of Containers	Analysis: MCP-14 Metals	PAHs by SIM	TOC	SVOCs	PCBs (Aroclors)	EPH	Hexavalent Chromium	Reactivity (Sulfide and Cyanide)	VOCs	% water	Grain Size Analysis	Comment #
	3/26/15	1515	G	S	LC-107 (0.5'-2')		HOLD AND FREEZE											
20 40 52	3/26/15	1515	G	S	LC-107 (2'-4')		X	X	X	X	X	X						

Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-_____

Container Type: P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filter

Cooler Present ✓ Yes ____No

Seals Intact ____ Yes ____No NA✓

Cooler Temperature: 3.0°C ice Date/Time 3/27/15

Sampled by : Daniel Scanlon (Daniel.Scanlon@gza.com)

Comments: (1) TCLP 20X Rule Applies ONLY if noted in ~~column~~ Section Comments column

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
[signature]	3/26/15 @ 1730	[signature] 3/27/15	[signature] 3/27/15	0420	[signature] 3/27/15 0924

CERTIFICATE OF ANALYSIS

David E Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Avenue
Norwood, MA 02062

RE: Wynn Everett Sediment Phase (01.0171521.13 Task 001)
ESS Laboratory Work Order Number: 1503510

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard
Laboratory Director

REVIEWED
By ESS Laboratory at 1:06 pm, Apr 08, 2015

Analytical Summary
The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with NELAC Standards, A2LA and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.

Subcontracted Analyses

TestAmerica Laboratories, Inc. - Burlington, VT	Total Organic Carbon

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503510

SAMPLE RECEIPT

The following samples were received on March 27, 2015 for the analyses specified on the enclosed Chain of Custody Record.

To achieve CAM compliance for MCP data, ESS Laboratory has performed and reviewed all QA/QC Requirements and Performance Standards listed in each method. Holding times and preservation have also been reviewed. All CAM requirements have been achieved unless noted in the project narrative.

Each method has been set-up in the laboratory to reach required MCP standards. The methods for aqueous VOA and Soil Methanol VOA have known limitations for certain analytes. The regulatory standards may not be achieved due to these limitations. In addition, for all methods, matrix interferences, dilutions, and %Solids may elevate method reporting limits above regulatory standards. ESS Laboratory can provide, upon request, a Data Checker (regulatory standard comparison spreadsheet) electronic deliverable which will highlight these exceedances.

For EPH soil samples, the aromatic range results have been corrected for identified cartridge contaminant in accordance with the CAM protocol.

Lab Number	Sample Name	Matrix	Analysis
1503510-01	GZ-225 0ft-0.5ft	Soil	TOC-LK
1503510-02	GZ-225 0ft-3ft	Soil	TOC-LK
1503510-03	GZ-201 0ft-0.5ft	Soil	TOC-LK
1503510-04	GZ-201 0ft-3ft	Soil	TOC-LK
1503510-05	LC-106 0ft-0.5ft	Soil	TOC-LK
1503510-06	LC-106 0.5ft-2ft	Soil	TOC-LK
1503510-07	LC-110 0ft-0.5ft	Soil	TOC-LK
1503510-08	LC-111 0ft-0.5ft	Soil	TOC-LK
1503510-09	LC-112 0ft-0.5ft	Soil	TOC-LK
1503510-10	LC-112 4ft-6ft	Soil	TOC-LK

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503510

PROJECT NARRATIVE

No unusual observations noted.

End of Project Narrative.

DATA USABILITY LINKS

Definitions of Quality Control Parameters

Semivolatile Organics Internal Standard Information

Semivolatile Organics Surrogate Information

Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503510

CURRENT SW-846 METHODOLOGY VERSIONS

Analytical Methods

1010A - Flashpoint
6010C - ICP
6020A - ICP MS
7010 - Graphite Furnace
7196A - Hexavalent Chromium
7470A - Aqueous Mercury
7471B - Solid Mercury
8011 - EDB/DBCP/TCP
8015D - GRO/DRO
8081B - Pesticides
8082A - PCB
8100M - TPH
8151A - Herbicides
8260B - VOA
8270D - SVOA
8270D SIM - SVOA Low Level
9014 - Cyanide
9038 - Sulfate
9040C - Aqueous pH
9045D - Solid pH (Corrosivity)
9050A - Specific Conductance
9056A - Anions (IC)
9060A - TOC
9095B - Paint Filter
MADEP 04-1.1 - EPH / VPH

Prep Methods

3005A - Aqueous ICP and Graphite Furnace Digestion
3020A - Aqueous ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3546 - Microwave Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5030C - Aqueous Purge and Trap
5035 - Solid Purge and Trap

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-225 0ft-0.5ft
Date Sampled: 03/27/15 08:49
Percent Solids: N/A

ESS Laboratory Work Order: 1503510
ESS Laboratory Sample ID: 1503510-01
Sample Matrix: Soil

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**48400** (1000)		TOC-LK		1	SUB	03/31/15 23:04	mg/kg	CD50801

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-225 0ft-3ft
Date Sampled: 03/27/15 08:49
Percent Solids: N/A

ESS Laboratory Work Order: 1503510
ESS Laboratory Sample ID: 1503510-02
Sample Matrix: Soil

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**17000** (1000)		TOC-LK		1	SUB	03/31/15 23:11	mg/kg	CD50801

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-201 0ft-0.5ft
Date Sampled: 03/27/15 09:24
Percent Solids: N/A

ESS Laboratory Work Order: 1503510
ESS Laboratory Sample ID: 1503510-03
Sample Matrix: Soil

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**67200** (1000)		TOC-LK		1	SUB	03/31/15 23:17	mg/kg	CD50801

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-201 0ft-3ft
Date Sampled: 03/27/15 09:24
Percent Solids: N/A

ESS Laboratory Work Order: 1503510
ESS Laboratory Sample ID: 1503510-04
Sample Matrix: Soil

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**45500** (1000)		TOC-LK		1	SUB	03/31/15 23:24	mg/kg	CD50801

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-106 0ft-0.5ft
Date Sampled: 03/27/15 09:24
Percent Solids: N/A

ESS Laboratory Work Order: 1503510
ESS Laboratory Sample ID: 1503510-05
Sample Matrix: Soil

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**75300** (1000)		TOC-LK		1	SUB	03/31/15 23:30	mg/kg	CD50801

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-106 0.5ft-2ft
Date Sampled: 03/27/15 09:24
Percent Solids: N/A

ESS Laboratory Work Order: 1503510
ESS Laboratory Sample ID: 1503510-06
Sample Matrix: Soil

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**62700** (1000)		TOC-LK		1	SUB	03/31/15 23:37	mg/kg	CD50801

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-110 0ft-0.5ft
Date Sampled: 03/27/15 10:27
Percent Solids: N/A

ESS Laboratory Work Order: 1503510
ESS Laboratory Sample ID: 1503510-07
Sample Matrix: Soil

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**81900** (1000)		TOC-LK		1	SUB	03/31/15 23:43	mg/kg	CD50801

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-111 0ft-0.5ft
Date Sampled: 03/27/15 10:46
Percent Solids: N/A

ESS Laboratory Work Order: 1503510
ESS Laboratory Sample ID: 1503510-08
Sample Matrix: Soil

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**61000** (1000)		TOC-LK		1	SUB	03/31/15 23:50	mg/kg	CD50801

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-112 0ft-0.5ft
Date Sampled: 03/27/15 11:16
Percent Solids: N/A

ESS Laboratory Work Order: 1503510
ESS Laboratory Sample ID: 1503510-09
Sample Matrix: Soil

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**59900** (1000)		TOC-LK		1	SUB	04/01/15 0:09	mg/kg	CD50801

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-112 4ft-6ft
Date Sampled: 03/27/15 11:16
Percent Solids: N/A

ESS Laboratory Work Order: 1503510
ESS Laboratory Sample ID: 1503510-10
Sample Matrix: Soil

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**3880** (1000)		TOC-LK		1	SUB	04/01/15 0:15	mg/kg	CD50801

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase ESS Laboratory Work Order: 1503510

Notes and Definitions

ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	Detection Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report
[2C]	Result was taken from the second column. Dual column analysis.

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503510

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Department of Defense (DoD) Environmental Laboratory Accreditation Program (ELAP)
A2LA Accredited: Testing Cert# 2864.01
http://www.a2la.org/scopepdf/2864-01.pdf

Rhode Island Potable and Non Potable Water: LAI00179
http://www.health.ri.gov/find/labs/analytical/ESS.pdf

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750
http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI0002
http://www.maine.gov/dhhs/mecdc/environmental-health/water/dwp-services/labcert/documents/AllLabs.xls

Massachusetts Potable and Non Potable Water: M-RI002
http://public.dep.state.ma.us/Labcert/Labcert.aspx

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424
http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313
http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006
http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

United States Department of Agriculture Soil Permit: P330-12-00139

Pennsylvania: 68-01752
http://www.depweb.state.pa.us/portal/server.pt/community/labs/13780/laboratory_accreditation_program/590095

CHEMISTRY

A2LA Accredited: Testing Cert # 2864.01
Lead in Paint, Phthalates, Lead in Children's Metals Products (Including Jewelry)
http://www.A2LA.org/dirsearchnew/newsearch.cfm

CPSC ID# 1141
Lead Paint, Lead in Children's Metals Jewelry
http://www.cpsc.gov/cgi-bin/labapplist.aspx

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Burlington
30 Community Drive
Suite 11
South Burlington, VT 05403
Tel: (802)660-1990

TestAmerica Job ID: 200-27316-1
TestAmerica Sample Delivery Group: 1503510
Client Project/Site: 1503510

For:
ESS Laboratory
185 Frances Ave.
Cranston, Rhode Island 02910

Attn: Ms. Elizabeth Ouk

Authorized for release by:
4/7/2015 4:51:19 PM

Kathryn Kelly, Project Manager I
(802)660-1990
kathryn.kelly@testamericainc.com

LINKS
Review your project results through TotalAccess
Have a Question? Ask The Expert
Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Definitions/Glossary 3
Case Narrative 4
Detection Summary 5
Client Sample Results 6
QC Sample Results 8
QC Association Summary 9
Lab Chronicle 10
Certification Summary 12
Method Summary 13
Sample Summary 14
Chain of Custody 15
Receipt Checklists 17

Qualifiers

General Chemistry

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 200-27316-1

Laboratory: TestAmerica Burlington

Narrative

CASE NARRATIVE

Client: ESS Laboratory

Project: 1503510

Report Number: 200-27316-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 03/31/2015; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 1.4° C.

TOTAL ORGANIC CARBON

Samples 1503510-01, 1503510-02, 1503510-03, 1503510-04, 1503510-05, 1503510-06, 1503510-07, 1503510-08, 1503510-09 and 1503510-10 were analyzed for total organic carbon in accordance with Lloyd Kahn Method. The samples were analyzed on 03/31/2015 and 04/01/2015.

Total Organic Carbon was detected in method blank MB 200-86321/13 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

The concentration of total organic carbon (TOC) associated with the following sample(s) exceeded the instrument calibration range: 1503510-07. Due to the low sample mass used for this procedure, further dilution of the sample is not practical and would adversely impact the confidence level for the results. The analyte has been qualified and the peak did not saturate the instrument detector.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: ESS Laboratory
Project/Site: 1503510

TestAmerica Job ID: 200-27316-1
SDG: 1503510

Client Sample ID: 1503510-01 — Lab Sample ID: 200-27316-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	48400	B	1000	120	mg/Kg	1		Lloyd Kahn	Total/NA

Client Sample ID: 1503510-02 — Lab Sample ID: 200-27316-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	17000	B	1000	120	mg/Kg	1		Lloyd Kahn	Total/NA

Client Sample ID: 1503510-03 — Lab Sample ID: 200-27316-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	67200	B	1000	120	mg/Kg	1		Lloyd Kahn	Total/NA

Client Sample ID: 1503510-04 — Lab Sample ID: 200-27316-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	45500	B	1000	120	mg/Kg	1		Lloyd Kahn	Total/NA

Client Sample ID: 1503510-05 — Lab Sample ID: 200-27316-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	75300	B	1000	120	mg/Kg	1		Lloyd Kahn	Total/NA

Client Sample ID: 1503510-06 — Lab Sample ID: 200-27316-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	62700	B	1000	120	mg/Kg	1		Lloyd Kahn	Total/NA

Client Sample ID: 1503510-07 — Lab Sample ID: 200-27316-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	81900		1000	120	mg/Kg	1		Lloyd Kahn	Total/NA

Client Sample ID: 1503510-08 — Lab Sample ID: 200-27316-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	61000	B	1000	120	mg/Kg	1		Lloyd Kahn	Total/NA

Client Sample ID: 1503510-09 — Lab Sample ID: 200-27316-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	59900	B	1000	120	mg/Kg	1		Lloyd Kahn	Total/NA

Client Sample ID: 1503510-10 — Lab Sample ID: 200-27316-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	3880	B	1000	120	mg/Kg	1		Lloyd Kahn	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 1503510-01 — **Lab Sample ID: 200-27316-1**
Date Collected: 03/27/15 08:49
Date Received: 03/31/15 10:20
Matrix: Sediment

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	48400	B	1000	120	mg/Kg			03/31/15 23:04	1

Client Sample ID: 1503510-02 — **Lab Sample ID: 200-27316-2**
Date Collected: 03/27/15 08:49
Date Received: 03/31/15 10:20
Matrix: Sediment

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	17000	B	1000	120	mg/Kg			03/31/15 23:11	1

Client Sample ID: 1503510-03 — **Lab Sample ID: 200-27316-3**
Date Collected: 03/27/15 09:24
Date Received: 03/31/15 10:20
Matrix: Sediment

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	67200	B	1000	120	mg/Kg			03/31/15 23:17	1

Client Sample ID: 1503510-04 — **Lab Sample ID: 200-27316-4**
Date Collected: 03/27/15 09:24
Date Received: 03/31/15 10:20
Matrix: Sediment

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	45500	B	1000	120	mg/Kg			03/31/15 23:24	1

Client Sample ID: 1503510-05 — **Lab Sample ID: 200-27316-5**
Date Collected: 03/27/15 09:24
Date Received: 03/31/15 10:20
Matrix: Sediment

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	75300	B	1000	120	mg/Kg			03/31/15 23:30	1

Client Sample ID: 1503510-06 — **Lab Sample ID: 200-27316-6**
Date Collected: 03/27/15 09:24
Date Received: 03/31/15 10:20
Matrix: Sediment

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	62700	B	1000	120	mg/Kg			03/31/15 23:37	1

Client Sample ID: 1503510-07 — **Lab Sample ID: 200-27316-7**
Date Collected: 03/27/15 10:27
Date Received: 03/31/15 10:20
Matrix: Sediment

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	81900		1000	120	mg/Kg			03/31/15 23:43	1

Client: ESS Laboratory
Project/Site: 1503510

TestAmerica Job ID: 200-27316-1
SDG: 1503510

Client Sample ID: 1503510-08 — **Lab Sample ID: 200-27316-8**
Date Collected: 03/27/15 10:46 — **Matrix: Sediment**
Date Received: 03/31/15 10:20

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	61000	B	1000	120	mg/Kg			03/31/15 23:50	1

Client Sample ID: 1503510-09 — **Lab Sample ID: 200-27316-9**
Date Collected: 03/27/15 11:16 — **Matrix: Sediment**
Date Received: 03/31/15 10:20

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	59900	B	1000	120	mg/Kg			04/01/15 00:09	1

Client Sample ID: 1503510-10 — **Lab Sample ID: 200-27316-10**
Date Collected: 03/27/15 11:16 — **Matrix: Sediment**
Date Received: 03/31/15 10:20

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	3880	B	1000	120	mg/Kg			04/01/15 00:15	1

Client: ESS Laboratory
Project/Site: 1503510

TestAmerica Job ID: 200-27316-1
SDG: 1503510

Method: Lloyd Kahn - Organic Carbon, Total (TOC)

Lab Sample ID: MB 200-86321/13
Matrix: Sediment
Analysis Batch: 86321

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	125.0	J	1000	120	mg/Kg			03/31/15 21:54	1

Lab Sample ID: LCS 200-86321/14
Matrix: Sediment
Analysis Batch: 86321

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	20100	19920		mg/Kg		99	75 - 125

QC Association Summary

Client: ESS Laboratory
Project/Site: 1503510

TestAmerica Job ID: 200-27316-1
SDG: 1503510

General Chemistry

Analysis Batch: 86321

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-27316-1	1503510-01	Total/NA	Sediment	Lloyd Kahn	
200-27316-2	1503510-02	Total/NA	Sediment	Lloyd Kahn	
200-27316-3	1503510-03	Total/NA	Sediment	Lloyd Kahn	
200-27316-4	1503510-04	Total/NA	Sediment	Lloyd Kahn	
200-27316-5	1503510-05	Total/NA	Sediment	Lloyd Kahn	
200-27316-6	1503510-06	Total/NA	Sediment	Lloyd Kahn	
200-27316-7	1503510-07	Total/NA	Sediment	Lloyd Kahn	
200-27316-8	1503510-08	Total/NA	Sediment	Lloyd Kahn	
200-27316-9	1503510-09	Total/NA	Sediment	Lloyd Kahn	
200-27316-10	1503510-10	Total/NA	Sediment	Lloyd Kahn	
LCS 200-86321/14	Lab Control Sample	Total/NA	Sediment	Lloyd Kahn	
MB 200-86321/13	Method Blank	Total/NA	Sediment	Lloyd Kahn	

Lab Chronicle

Client: ESS Laboratory
Project/Site: 1503510

TestAmerica Job ID: 200-27316-1
SDG: 1503510

Client Sample ID: 1503510-01
Lab Sample ID: 200-27316-1
Date Collected: 03/27/15 08:49
Matrix: Sediment
Date Received: 03/31/15 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	86321	03/31/15 23:04	MDK	TAL BUR

Client Sample ID: 1503510-02
Lab Sample ID: 200-27316-2
Date Collected: 03/27/15 08:49
Matrix: Sediment
Date Received: 03/31/15 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	86321	03/31/15 23:11	MDK	TAL BUR

Client Sample ID: 1503510-03
Lab Sample ID: 200-27316-3
Date Collected: 03/27/15 09:24
Matrix: Sediment
Date Received: 03/31/15 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	86321	03/31/15 23:17	MDK	TAL BUR

Client Sample ID: 1503510-04
Lab Sample ID: 200-27316-4
Date Collected: 03/27/15 09:24
Matrix: Sediment
Date Received: 03/31/15 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	86321	03/31/15 23:24	MDK	TAL BUR

Client Sample ID: 1503510-05
Lab Sample ID: 200-27316-5
Date Collected: 03/27/15 09:24
Matrix: Sediment
Date Received: 03/31/15 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	86321	03/31/15 23:30	MDK	TAL BUR

Client Sample ID: 1503510-06
Lab Sample ID: 200-27316-6
Date Collected: 03/27/15 09:24
Matrix: Sediment
Date Received: 03/31/15 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	86321	03/31/15 23:37	MDK	TAL BUR

Lab Chronicle

Client: ESS Laboratory
Project/Site: 1503510

TestAmerica Job ID: 200-27316-1
SDG: 1503510

Client Sample ID: 1503510-07
Date Collected: 03/27/15 10:27
Date Received: 03/31/15 10:20

Lab Sample ID: 200-27316-7
Matrix: Sediment

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	86321	03/31/15 23:43	MDK	TAL BUR

Client Sample ID: 1503510-08
Date Collected: 03/27/15 10:46
Date Received: 03/31/15 10:20

Lab Sample ID: 200-27316-8
Matrix: Sediment

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	86321	03/31/15 23:50	MDK	TAL BUR

Client Sample ID: 1503510-09
Date Collected: 03/27/15 11:16
Date Received: 03/31/15 10:20

Lab Sample ID: 200-27316-9
Matrix: Sediment

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	86321	04/01/15 00:09	MDK	TAL BUR

Client Sample ID: 1503510-10
Date Collected: 03/27/15 11:16
Date Received: 03/31/15 10:20

Lab Sample ID: 200-27316-10
Matrix: Sediment

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	86321	04/01/15 00:15	MDK	TAL BUR

Laboratory References:

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Certification Summary

Client: ESS Laboratory
Project/Site: 1503510

TestAmerica Job ID: 200-27316-1
SDG: 1503510

Laboratory: TestAmerica Burlington

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Connecticut	State Program	1	PH-0751	09-30-15
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	NA	02-13-16
Florida	NELAP	4	E87467	06-30-15
L-A-B	DoD ELAP		L2336	02-26-17
Maine	State Program	1	VT00008	04-17-15 *
Minnesota	NELAP	5	050-999-436	12-31-15
New Hampshire	NELAP	1	2006	12-18-15
New Jersey	NELAP	2	VT972	06-30-15
New York	NELAP	2	10391	03-31-16
Pennsylvania	NELAP	3	68-00489	04-30-15 *
Rhode Island	State Program	1	LAO00298	12-30-15
US Fish & Wildlife	Federal		LE-058448-0	02-28-16
USDA	Federal		P330-11-00093	10-28-16
Vermont	State Program	1	VT-4000	12-31-15
Virginia	NELAP	3	460209	12-14-15

* Certification renewal pending - certification considered valid.

Method Summary

Client: ESS Laboratory
Project/Site: 1503510

TestAmerica Job ID: 200-27316-1
SDG: 1503510

Method	Method Description	Protocol	Laboratory
Lloyd Kahn	Organic Carbon, Total (TOC)	EPA	TAL BUR

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Sample Summary

Client: ESS Laboratory
Project/Site: 1503510

TestAmerica Job ID: 200-27316-1
SDG: 1503510

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
200-27316-1	1503510-01	Sediment	03/27/15 08:49	03/31/15 10:20
200-27316-2	1503510-02	Sediment	03/27/15 08:49	03/31/15 10:20
200-27316-3	1503510-03	Sediment	03/27/15 09:24	03/31/15 10:20
200-27316-4	1503510-04	Sediment	03/27/15 09:24	03/31/15 10:20
200-27316-5	1503510-05	Sediment	03/27/15 09:24	03/31/15 10:20
200-27316-6	1503510-06	Sediment	03/27/15 09:24	03/31/15 10:20
200-27316-7	1503510-07	Sediment	03/27/15 10:27	03/31/15 10:20
200-27316-8	1503510-08	Sediment	03/27/15 10:46	03/31/15 10:20
200-27316-9	1503510-09	Sediment	03/27/15 11:16	03/31/15 10:20
200-27316-10	1503510-10	Sediment	03/27/15 11:16	03/31/15 10:20

ESS Laboratory — T. America — CHAIN OF CUSTODY

ESS Lab # 1503510

Division of Thielsch Engineering, Inc.

185 Frances Avenue, Cranston RI 02910-2211
Tel. (401)461-7181 Fax (401)461-4486
www.esslaboratory.com

Turn Time _____Standard Other **5 DAY**

Regulatory State: **MA** RI CT NH NJ NY ME Other_____

Is this project for any of the following:(please circle)
MA-MCP Navy USACE CT DEP Other_____

Reporting Limits - _____

Electonic Deliverables **Excel** Access **PDF** *

Co. Name: **ESS Laboratory**	Project #:	Project Name: **1503510**	
Contact Person: **Christine Taylor**	Proj. Location:		
Address:	City , State:	Zip:	PO #: B02192
Tel: ext. 3039	email: ctaylor@thielsch.com	email: smorrell@thielsch.com	

Analysis: TOC Lloyd Kahn

ESS Lab ID	Date	Collection Time	Grab -G Composite-C	Matrix	Sample ID	Pres Code	# of Containers	Type of Container	Vol of Container	TOC Lloyd Kahn
	3/27/15	0849	G	SED	1503510-01	1	1	G	2oz	X
	3/27/15	0849	G	SED	1503510-02	1	1	G	2oz	X
	3/27/15	0924	G	SED	1503510-03	1	1	G	2oz	X
	3/27/15	0924	G	SED	1503510-04	1	1	G	2oz	X
	3/27/15	0924	G	SED	1503510-05	1	1	G	2oz	X
	3/27/15	0924	G	SED	1503510-06	1	1	G	2oz	X
	3/27/15	1027	G	SED	1503510-07	1	1	G	2oz	X
	3/27/15	1046	G	SED	1503510-08	1	1	G	2oz	
	3/27/15	1116	G	SED	1503510-09	1	1	G	2oz	
	3/27/15	1116	G	SED	1503510-10	1	1	G	2oz	

200-27316 Chain of Custody

Container Type P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA

Matrix S-Soil SD-Solid D-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filter

Cooler Present _____Yes _____No

Seals Intact ____ Yes _____No NA:____

Cooler Temperature: _____

Internal Use Only

[ ] Pickup

[ ] Technician____

Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-_____

Sampled by :

Comments:

Relinquished by: (Signature, Date & Time)	Received by: (Signature, Date & Time)	Relinquished by (Signature, Date & Time)	Received by: (Signature, Date & Time)
3/30/15 1528		12:00 3/31/15	
Relinquished by: (Signature, Date & Time)	**Received by (Signature, Date & Time)**	**Relinquished by (Signature, Date & Time)**	**Received by: (Signature, Date & Time)**
	1030 TABIV 3/31/15		

* By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VIIA

Please fax to the laboratory all changes to Chain of Custody

Report Method Blank & Laboratory Control Sample Results


ORIGIN ID:BXCA (781) 466-6900
PAUL HOBART
TESTAMERICA
240 BEAR HILL ROAD
SUITE 104
WALTHAM, MA 02451
UNITED STATES US
SHIP DATE: 30MAR15
ACTWGT: 17.9 LB
CAD: 590687/CAFE2807
BILL RECIPIENT
TO SAMPLE RECEIVING
TESTAMERICA BURLINGTON
30 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403
(802) 660-1990
INV:
PO:
REF:
DEPT:
Express
TUE - 31 MAR AA
STANDARD OVERNIGHT
TRK#
0201
4258 8388 7820
EK BTVA
05403
VT-US
BTV

Login Sample Receipt Checklist

Client: ESS Laboratory

Job Number: 200-27316-1
SDG Number: 1503510

Login Number: 27316
List Number: 1
Creator: Young, Joseph W

List Source: TestAmerica Burlington

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.4ºC
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

Sample and Cooler Receipt Checklist

Client: GZA GeoEnvironmental, Inc.
Client Project ID: _____
Shipped/Delivered Via: ESS Courier

ESS Project ID: 15030510
Date Project Due: 4/3/15
Days For Project: 5 Day

Items to be checked upon receipt:

1. Air Bill Manifest Present?	* No	10. Are the samples properly preserved?	Yes
Air No.:		11. Proper sample containers used?	Yes
2. Were Custody Seals Present?	No	12. Any air bubbles in the VOA vials?	N/A
3. Were Custody Seals Intact?	N/A	13. Holding times exceeded?	No
4. Is Radiation count < 100 CPM?	Yes	14. Sufficient sample volumes?	Yes
5. Is a cooler present?	Yes	15. Any Subcontracting needed?	* Yes
Cooler Temp: **3.5**		16. Are ESS labels on correct containers?	**Yes|No**
Iced With: **Ice**		17. Were samples received intact?	**Yes|No**
6. Was COC included with samples?	Yes	ESS Sample IDs:	01-10
7. Was COC signed and dated by client?	Yes	Sub Lab:	Test America
8. Does the COC match the sample	Yes	Analysis:	TOC - LK
9. Is COC complete and correct?	Yes	TAT:	5 DAY

18. Was there need to call project manager to discuss status? If yes, please explain.

_____

_____

_____

Who was called?:_____ By whom? _____

Sample Number	Properly Preserved	Container Type	# of Containers	Preservative
1	Yes	2 oz Soil Jar	1	NP
2	Yes	2 oz Soil Jar	1	NP
3	Yes	2 oz Soil Jar	1	NP
4	Yes	2 oz Soil Jar	1	NP
5	Yes	2 oz Soil Jar	1	NP
6	Yes	2 oz Soil Jar	1	NP
7	Yes	2 oz Soil Jar	1	NP
8	Yes	2 oz Soil Jar	1	NP
9	Yes	2 oz Soil Jar	1	NP
10	Yes	2 oz Soil Jar	1	NP

Completed By: _____ Date/Time: 3/27/15 1925

Reviewed By: Monica Rose Date/Time: 3/27/15 1930

ESS Laboratory

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

ESS LAB PROJECT ID: 150310

Turn Time ___X___ Standard Rush_____ Approved By: _____

Reporting Limits -

State where samples were collected: **MA** RI CT NH NJ NY ME Other_____

Is this project for any of the following: (please circle)
MA-MCP CT-RCP NJ-DKQP RGP DOD Other____

Electonic Deliverable Yes✓ No____
Format: Excel✓ Access___ PDF✓ Other_____

GZA Project Manager: David E. Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Ave
Norwood, MA 02062
(781) 278-3700

Project No.: 01.0171521.13 Task 001
Project Name: Wynn - Everett
Contract Pricing _____
Special Pricing WO#: _____

ESS Lab Sample ID	Date	Collection Time	Grab -G Composite-C	Matrix	Sample Identification	# of Containers	MCP-14 Metals	PAHs by SIM	TOC	SVOCs	PCBs (Arocolors)	EPH	Hexavalent Chromium	Reactivity (Sulfide and Cyanide)	VOCs	% water	Grain Size Analysis	Comment #
1	3/27/15	0849	G	S	GZ-225 (0'-0.5')		X	X	X	X	X	X						
					GZ-225 (0.5'-2')		HOLD AND FREEZE											
					GZ-225 (2'-4')		HOLD AND FREEZE											
					GZ-225 (4'-6')		X	X										
					GZ-225 (6'-7'2")		X	X										
2		↓			GZ-225 (0'-3')		X		X	X	X	X	X	X	X	X	X	(1)
3		09:24			GZ-201 (0'-0.5')		X	X	X	X	X	X						
					GZ-201 (0.5'-2')		HOLD AND FREEZE											
					GZ-201 (2'-4')		HOLD AND FREEZE											
	↓	↓	↓	↓	GZ-201 (4'-5')		X	X										

Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-_____

Container Type: P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filter

Cooler Present ___~~Yes~~ _____No
Seals Intact _____Yes _____No NA: ✓
Cooler Temperature: 3.5 & 2.8 ice

Sampled by : Daniel Scanlon (Daniel.Scanlon@gza.com)

Comments: (1) TCLP 20X Rule Applies ONLY if noted in the comment column ✓
TOC only are reported with this WO - cmt 4/1/15

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	3/27/15 @1430	3/27/15 1447	3/27/15	1643	3/27/15 1816

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CHAIN OF CUSTODY

ESS LAB PROJECT ID: 1503510

Turn Time ___X___ Standard Rush_____ Approved By: _____

Reporting Limits -

State where samples were collected: **MA** RI CT NH NJ NY ME Other_____

Is this project for any of the following: (please circle)
MA-MCP CT-RCP NJ-DKQP RGP DOD Other____

Electonic Deliverable Yes ✓ No____
Format: Excel ✓ Access___ PDF ✓ Other_____

GZA Project Manager: David E. Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Ave
Norwood, MA 02062
(781) 278-3700

Project No.: 01.0171521.13 Task 001
Project Name: Wynn - Everett
Contract Pricing ____
Special Pricing WO#: _____

ESS Lab Sample ID	Date	Collection Time	Grab -G Composite-C	Matrix	Sample Identification	# of Containers	Analysis: MCP 14 Metals	PAHs by SIM	TOC	SVOCs	PCBs (Aroclors)	EPH	Hexavalent Chromium	Reactivity (Sulfide and Cyanide)	VOCs	% water	Grain Size Analysis	Comment #
4	3-27-15	09:24	G	S	GZ-201 (0'-3')		X		X	X	X	X	X	X	X	X	X	(1)
5					LC-106 (0'-0.5')		X	X	X	X	X	X						
6					LC-106 (0.5'-2')		X	X	X	X	X	X						
					LC-~~102~~ 106 (2'-4')		HOLD AND FREEZE											
					LC-106 (4'-6')		X	X										
		↓			LC-106 (6'-7')		HOLD AND FREEZE											
7		1027			LC-110 (0'-0.5')		X	X	X	X	X	X						
					LC-110 (0.5'-2')		HOLD AND FREEZE											
					LC-110 (2'-4')		X	X										
	↓	↓	↓	↓	LC-110 (4'-6')		HOLD AND FREEZE											

Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-_____
Container Type: P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA
Matrix: S-Soil SD-Solid D-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filter

Cooler Present ✓ Yes ____No
Seals Intact ____Yes ____No NA: ✓
Cooler Temperature: 3.5 + 2.8 in ice

Sampled by : Daniel Scanlon (Daniel.Scanlon@gza.com)
Comments: (1) TCLP 20X Rule Applies ONLY if noted in comments column

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
[signature]	3/27/15 @ 1430	[signature] 3/27/15 1447	[signature] 3/27/15	1643	[signature] 3/27/15 1816

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CHAIN OF CUSTODY

ESS LAB PROJECT ID: 1503510

Turn Time ___X___ Standard Rush_____ Approved By: _____

Reporting Limits -

State where samples were collected: **MA** RI CT NH NJ NY ME Other_____

Is this project for any of the following: (please circle)
MA-MCP CT-RCP NJ-DKQP RGP DOD Other____

Electonic Deliverable Yes ✓ No____
Format: Excel ✓ Access___ PDF ✓ Other_____

GZA Project Manager: David E. Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Ave
Norwood, MA 02062
(781) 278-3700

Project No.: 01.0171521.13 Task 001
Project Name: Wynn - Everett
Contract Pricing ____
Special Pricing WO#: _____

ESS Lab Sample ID	Date	Collection Time	Grab -G Composite-C	Matrix	Sample Identification	# of Containers	MCP 14 Metals	PAHs by SIM	TOC	SVOCs	PCBs (Aroclors)	EPH	Hexavalent Chromium	Reactivity (Sulfide and Cyanide)	VOCs	% Water	Grain Size Analysis	Comment #
	3-27-15	1027	G	S	LC-110 (6'-8')		HOLD AND FREEZE											
8		1046			LC-111 (0'-0.5')		X	X	X	X	X	X						
					LC-111 (0.5'-2')		X	X										
					LC-111 (2'-4')		HOLD AND FREEZE											
					LC-111 (4'-6')		X	X										
		↓			LC-111 (6'-7½')		HOLD AND FREEZE											
9		1116			LC-112 (0'-0.5')		X	X	X	X	X	X						
					LC-112 (0.5'-2')		HOLD AND FREEZE											
					LC-112 (2'-4')		HOLD AND FREEZE											
10	↓	↓	↓	↓	LC-112 (4'-6')		X	X	X	X	X	X						

Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-_____

Container Type: P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filter

Cooler Present _____Yes _____No

Seals Intact _____ Yes _____No NA: _____

Cooler Temperature: 3.5 + 2.8

Sampled by : Daniel Scanlon (Daniel.Scanlon@gza.com)

Comments: (1) TCLP 20X Rule Applies ONLY as noted in comments column

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	3/27/15 @ 1430	3/27/15 1447	3/27/15	1643	3/27/15 1816

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CHAIN OF CUSTODY

ESS LAB PROJECT ID: 1503510

Turn Time ___X___ Standard Rush_____ Approved By: _____

Reporting Limits -

State where samples were collected: **MA** RI CT NH NJ NY ME Other_____

Is this project for any of the following: (please circle)
MA-MCP CT-RCP NJ-DKQP RGP DOD Other____

Electonic Deliverable Yes ✓ No____
Format: Excel ✓ Access___ PDF ✓ Other_____

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Contract Pricing _____
Special Pricing WO#: _____

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1	3/27/15	0849	G	S	GZ-225 (0'-0.5')		X	X	X	X	X	X						
					GZ-225 (0.5'-2')		HOLD AND FREEZE											
					GZ-225 (2'-4')		HOLD AND FREEZE											
					GZ-225 (4'-6')		X	X										
					GZ-225 (6'-7'2")		X	X										
2		↓			GZ-225 (0'-3')		X		X	X	X	X	X	X	X	X	X	(1)
3		09:24			GZ-201 (0'-0.5')		X	X	X	X	X	X						
					GZ-201 (0.5'-2')		HOLD AND FREEZE											
					GZ-201 (2'-4')		HOLD AND FREEZE											
	↓	↓	↓	↓	GZ-201 (4'-5')		X	X										

Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-_____

Container Type: P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filter

Cooler Present ___~~Yes~~ _____No
Seals Intact _____Yes _____No NA: ✓
Cooler Temperature: 3.5 & 2.8 ice

Sampled by : Daniel Scanlon (Daniel.Scanlon@gza.com)

Comments: (1) TCLP 20X Rule Applies ONLY if noted in the comment column ✓

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
[signature]	3/27/15 @1430	[signature] 3/27/15 1447	[signature] 3/27/15	1643	[signature] 3/27/15 1816

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CHAIN OF CUSTODY

ESS LAB PROJECT ID: 1503510

Turn Time ___X___ Standard Rush_____ Approved By: _____

Reporting Limits -

State where samples were collected: **MA** RI CT NH NJ NY ME Other_____

Is this project for any of the following: (please circle)
MA-MCP CT-RCP NJ-DKQP RGP DOD Other___

Electonic Deliverable Yes ✓ No___
Format: Excel ✓ Access___ PDF ✓ Other_____

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(781) 278-3700

Project No.: 01.0171521.13 Task 001
Project Name: Wynn - Everett
Contract Pricing ____
Special Pricing WO#: _____

ESS Lab Sample ID	Date	Collection Time	Grab -G Composite-C	Matrix	Sample Identification	# of Containers	Analysis: MCP-14 Metals	PAHs by SIM	TOC	SVOCs	PCBs (Aroclors)	EPH	Hexavalent Chromium	Reactivity (Sulfide and Cyanide)	VOCs	% water	Grain Size Analysis	Comment #
4	3-27-15	09:24	G	S	GZ-201 (0'-3')		X		X	X	X	X	X	X	X	X	X	(1)
5					LC-106 (0'-0.5')		X	X	X	X	X	X						
6					LC-106 (0.5'-2')		X	X	X	X	X	X						
					LC-~~102~~ 106 (2'-4')		HOLD AND FREEZE											
					LC-106 (4'-6')		X	X										
		↓			LC-106 (6'-7')		HOLD AND FREEZE											
7		10:27			LC-110 (0'-0.5')		X	X	X	X	X	X						
					LC-110 (0.5'-2')		HOLD AND FREEZE											
					LC-110 (2'-4')		X	X										
	↓	↓	↓	↓	LC-110 (4'-6')		HOLD AND FREEZE											

Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-_____

Container Type: P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filter

Cooler Present ✓ Yes ____No

Seals Intact _____Yes _____No NA: ✓

Cooler Temperature: 3.5 + 2.8 in ice

Sampled by : Daniel Scanlon (Daniel.Scanlon@gza.com)

Comments: (1) TCLP 20X Rule Applies ONLY if noted in comments column

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
[signature]	3/27/15 @ 1430	[signature] 3/27/15 1447	[signature] 3/27/15	1643	[signature] 3/27/15 1816

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CHAIN OF CUSTODY

ESS LAB PROJECT ID 1503510

Turn Time ___X___ Standard Rush_____ Approved By: _____

Reporting Limits -

State where samples were collected: **MA** RI CT NH NJ NY ME Other_____

Is this project for any of the following: (please circle)
MA-MCP CT-RCP NJ-DKQP RGP DOD Other____

Electonic Deliverable Yes ✓ No____
Format: Excel ✓ Access___ PDF ✓ Other_____

GZA Project Manager: David E. Leone
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Norwood, MA 02062
(781) 278-3700

Project No.: 01.0171521.13 Task 001

Project Name: Wynn - Everett

Contract Pricing ____
Special Pricing WO#: _____

ESS Lab Sample ID	Date	Collection Time	Grab -G Composite-C	Matrix	Sample Identification	# of Containers	Analysis: MCP-14 Metals	PAHs by SIM	TOC	SVOCs	PCBs (Aroclors)	EPH	Hexavalent Chromium	Reactivity (Sulfide and Cyanide)	VOCs	% water	Grain Size Analysis	Comment #
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8		1046			LC-111 (0'-0.5')		X	X	X	X	X	X						
					LC-111 (0.5'-2')		X	X										
					LC-111 (2'-4')		HOLD AND FREEZE											
					LC-111 (4'-6')		X	X										
		↓			LC-111 (6'-7½')		HOLD AND FREEZE											
9		1116			LC-112 (0'-0.5')		X	X	X	X	X	X						
					LC-112 (0.5'-2')		HOLD AND FREEZE											
					LC-112 (2'-4')		HOLD AND FREEZE											
10	↓	↓	↓	↓	LC-112 (4'-6')		X	X	X	X	X	X						

Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-_____

Container Type: P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filter

Cooler Present _____Yes _____No

Seals Intact _____ Yes _____No NA: _____

Cooler Temperature: 3.5 + 2.8

Sampled by : Daniel Scanlon (Daniel.Scanlon@gza.com)

Comments: (1) TCLP 20X Rule Applies ONLY as noted in comments column

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	3/27/15 @ 1430	3/27/15 1447	3/27/15	1643	3/27/15 1816

CERTIFICATE OF ANALYSIS

David E Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Avenue
Norwood, MA 02062

RE: Wynn Everett Sediment Phase (01.0171521.13 Task 001)
ESS Laboratory Work Order Number: 1503512

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard
Laboratory Director

REVIEWED
By ESS Laboratory at 5:26 pm, Apr 10, 2015

Analytical Summary
The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with NELAC Standards, A2LA and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.

Subcontracted Analyses

CTS - Cranston, RI	Grain Size Analysis, Percent Water

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503512

SAMPLE RECEIPT

The following samples were received on March 27, 2015 for the analyses specified on the enclosed Chain of Custody Record.

To achieve CAM compliance for MCP data, ESS Laboratory has performed and reviewed all QA/QC Requirements and Performance Standards listed in each method. Holding times and preservation have also been reviewed. All CAM requirements have been achieved unless noted in the project narrative.

Each method has been set-up in the laboratory to reach required MCP standards. The methods for aqueous VOA and Soil Methanol VOA have known limitations for certain analytes. The regulatory standards may not be achieved due to these limitations. In addition, for all methods, matrix interferences, dilutions, and %Solids may elevate method reporting limits above regulatory standards. ESS Laboratory can provide, upon request, a Data Checker (regulatory standard comparison spreadsheet) electronic deliverable which will highlight these exceedances.

For EPH soil samples, the aromatic range results have been corrected for identified cartridge contaminant in accordance with the CAM protocol.

Low Level VOA vials were frozen by ESS Laboratory on March 27, 2015 at 19:54.

Question I: Samples GZ-225 4ft-6ft, GZ-225 6ft-7ft 2in, GZ-201 4ft-5ft, LC-106 4ft-6ft, LC-110 2ft-4ft, LC-111 0.5ft-2ft and LC-111 4ft-6ft (1503512-02, 1503512-03, 1503512-06, 1503512-10, 1503512-12, 1503512-14 and 1503512-15) for SVOA were analyzed for a subset of the required MCP list per the client's request.

Samples were decanted, per client request, upon reciept by ESS.

Lab Number	Sample Name	Matrix	Analysis
1503512-01	GZ-225 0ft-0.5ft	Soil	8270D, EPH8270, MADEP-EPH
1503512-02	GZ-225 4ft-6ft	Soil	8270D
1503512-03	GZ-225 6ft-7ft 2in	Soil	8270D
1503512-04	GZ-225 0ft-3ft	Soil	§, 2580, 7.3.3.2, 7.3.4.1, 7196A, 8260B Low, 8270D, 9045, EPH8270, MADEP-EPH
1503512-05	GZ-201 0ft-0.5ft	Soil	8270D, EPH8270, MADEP-EPH
1503512-06	GZ-201 4ft-5ft	Soil	8270D
1503512-07	GZ-201 0ft-3ft	Soil	§, 2580, 7.3.3.2, 7.3.4.1, 7196A, 8260B, 8260B Low, 8270D, 9045, EPH8270, MADEP-EPH
1503512-08	LC-106 0ft-0.5ft	Soil	8270D, EPH8270, MADEP-EPH
1503512-09	LC-106 0.5ft-2ft	Soil	8270D, EPH8270, MADEP-EPH
1503512-10	LC-106 4ft-6ft	Soil	8270D
1503512-11	LC-110 0.5ft-2ft	Soil	8270D, EPH8270, MADEP-EPH
1503512-12	LC-110 2ft-4ft	Soil	8270D

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase ESS Laboratory Work Order: 1503512

1503512-13	LC-111 0ft-0.5ft	Soil	8270D, EPH8270, MADEP-EPH
1503512-14	LC-111 0.5ft-2ft	Soil	8270D
1503512-15	LC-111 4ft-6ft	Soil	8270D
1503512-16	LC-112 0ft-0.5ft	Soil	8270D, EPH8270, MADEP-EPH
1503512-17	LC-112 4ft-6ft	Soil	8270D, EPH8270, MADEP-EPH
1503512-18	GZ-225 0ft-0.5ft	Soil	6010C, 6020A, 7010, 7471B
1503512-19	GZ-225 4ft-6ft	Soil	6010C, 7010, 7471B
1503512-20	GZ-225 6ft-7ft 2in	Soil	6010C, 6020A, 7010, 7471B
1503512-21	GZ-225 0ft-3ft	Soil	6010C, 6020A, 7010, 7471B
1503512-22	GZ-201 0ft-0.5ft	Soil	6010C, 6020A, 7010, 7471B
1503512-23	GZ-201 4ft-5ft	Soil	6010C, 6020A, 7010, 7471B
1503512-24	GZ-201 0ft-3ft	Soil	6010C, 6020A, 7010, 7471B
1503512-25	LC-106 0ft-0.5ft	Soil	6010C, 6020A, 7010, 7471B
1503512-26	LC-106 0.5ft-2ft	Soil	6010C, 6020A, 7010, 7471B
1503512-27	LC-106 4ft-6ft	Soil	6010C, 6020A, 7010, 7471B
1503512-28	LC-110 0.5ft-2ft	Soil	6010C, 6020A, 7010, 7471B
1503512-29	LC-110 2ft-4ft	Soil	6010C, 7010, 7471B
1503512-30	LC-111 0ft-0.5ft	Soil	6010C, 6020A, 7010, 7471B
1503512-31	LC-111 0.5ft-2ft	Soil	6010C, 6020A, 7010, 7471B
1503512-32	LC-111 4ft-6ft	Soil	6010C, 6020A, 7010, 7471B
1503512-33	LC-112 0ft-0.5ft	Soil	6010C, 6020A, 7010, 7471B
1503512-34	LC-112 4ft-6ft	Soil	6010C, 7010, 7471B
1503512-35	GZ-225 0ft-0.5ft	Soil	8082A
1503512-36	GZ-225 0ft-3ft	Soil	8082A
1503512-37	GZ-201 0ft-0.5ft	Soil	8082A
1503512-38	GZ-201 0ft-3ft	Soil	8082A
1503512-39	LC-106 0ft-0.5ft	Soil	8082A
1503512-40	LC-106 0.5ft-2ft	Soil	8082A
1503512-41	LC-110 0.5ft-2ft	Soil	8082A
1503512-42	LC-111 0ft-0.5ft	Soil	8082A
1503512-43	LC-112 0ft-0.5ft	Soil	8082A
1503512-44	LC-112 4ft-6ft	Soil	8082A

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503512

PROJECT NARRATIVE

5035/8260B Volatile Organic Compounds / Low Level

1503512-07	**Internal Standard(s) outside of criteria (I).**
	1,4-Dichlorobenzene-D4 (37% @ 50-200%), Chlorobenzene-d5 (47% @ 50-200%), Pentafluorobenzene (42% @ 50-200%)
CC53022-BS1	**Blank Spike recovery is above upper control limit (B+).**
	Bromomethane (182% @ 70-130%)
CC53022-BSD1	**Blank Spike recovery is above upper control limit (B+).**
	1,2-Dibromo-3-Chloropropane (245% @ 70-130%), Bromomethane (154% @ 70-130%)
CC53022-BSD1	**Relative percent difference for duplicate is outside of criteria (D+).**
	1,2-Dibromo-3-Chloropropane (75% @ 25%)
CC53120-BS1	**Blank Spike recovery is above upper control limit (B+).**
	Bromomethane (167% @ 70-130%)
CC53120-BSD1	**Blank Spike recovery is above upper control limit (B+).**
	1,2-Dibromo-3-Chloropropane (197% @ 70-130%), Bromomethane (161% @ 70-130%)
CC53120-BSD1	**Relative percent difference for duplicate is outside of criteria (D+).**
	1,2-Dibromo-3-Chloropropane (64% @ 25%)
CYC0353-CCV1	**Continuing Calibration recovery is above upper control limit (C+).**
	Bromomethane (145% @ 70-130%)
CYC0360-CCV1	**Continuing Calibration recovery is above upper control limit (C+).**
	Bromomethane (173% @ 70-130%)

5035/8260B Volatile Organic Compounds / Methanol

CD50244-BS1	**Blank Spike recovery is above upper control limit (B+).**
	2-Butanone (166% @ 70-130%), 2-Hexanone (134% @ 70-130%), Acetone (228% @ 70-130%)
CD50244-BSD1	**Blank Spike recovery is above upper control limit (B+).**
	2-Butanone (185% @ 70-130%), 2-Hexanone (152% @ 70-130%), Acetone (264% @ 70-130%)

8082A Polychlorinated Biphenyls (PCB)

1503512-35	**Percent difference between primary and confirmation results exceeds 40% (P).**
	Aroclor 1248 , Aroclor 1254
1503512-36	**Percent difference between primary and confirmation results exceeds 40% (P).**
	Aroclor 1248
1503512-37	**Percent difference between primary and confirmation results exceeds 40% (P).**
	Aroclor 1248
1503512-38	**Surrogate recovery(ies) outside of criteria. Reextraction/Reanalysis confirms results (SC).**
	Tetrachloro-m-xylene [2C] (24% @ 30-150%)
1503512-38RE1	**Surrogate recovery(ies) outside of criteria. Reextraction/Reanalysis confirms results (SC).**
	Tetrachloro-m-xylene [2C] (23% @ 30-150%)
1503512-40	**Percent difference between primary and confirmation results exceeds 40% (P).**
	Aroclor 1248
1503512-40	**Surrogate recovery(ies) diluted below the MRL (SD).**

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase ESS Laboratory Work Order: 1503512

Decachlorobiphenyl (% @ 30-150%), Decachlorobiphenyl [2C] (% @ 30-150%), Tetrachloro-m-xylene (% @ 30-150%), Tetrachloro-m-xylene [2C] (% @ 30-150%)

1503512-41 **Percent difference between primary and confirmation results exceeds 40% (P).**
Aroclor 1248 , Aroclor 1254

8270D Semi-Volatile Organic Compounds

CD50642-BS1 **Blank Spike recovery is below lower control limit (B-).**
3,3´-Dichlorobenzidine (24% @ 40-140%), 4-Chloroaniline (38% @ 40-140%), Aniline (39% @ 40-140%)

CD50642-BSD1 **Blank Spike recovery is below lower control limit (B-).**
4-Chloroaniline (38% @ 40-140%), Aniline (37% @ 40-140%)

CD50642-BSD1 **Relative percent difference for duplicate is outside of criteria (D+).**
3,3´-Dichlorobenzidine (48% @ 30%)

CYD0019-CCV1 **Continuing Calibration recovery is above upper control limit (C+).**
Azobenzene (124% @ 80-120%)

CYD0021-CCV1 **Continuing Calibration recovery is above upper control limit (C+).**
Di-n-octylphthalate (123% @ 80-120%)

CYD0021-CCV1 **Continuing Calibration recovery is below lower control limit (C-).**
3+4-Methylphenol (55% @ 80-120%)

CYD0023-CCV1 **Calibration required quadratic regression (Q).**
Aniline (106% @ 80-120%)

CYD0033-CCV1 **Calibration required quadratic regression (Q).**
Aniline (106% @ 80-120%)

8270D(SIM) Polynuclear Aromatic Hydrocarbons

CYD0062-CCV1 **Continuing Calibration recovery is above upper control limit (C+).**
2-Methylnaphthalene (144% @ 70-130%)

Classical Chemistry

1503512-04 **Estimated value. Sample hold times were exceeded (H).**
Corrosivity (pH) , Eh (ORP)

1503512-07 **Estimated value. Sample hold times were exceeded (H).**
Corrosivity (pH) , Eh (ORP)

No other observations noted.

End of Project Narrative.

DATA USABILITY LINKS

Definitions of Quality Control Parameters

Semivolatile Organics Internal Standard Information

Semivolatile Organics Surrogate Information

Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503512

CURRENT SW-846 METHODOLOGY VERSIONS

Analytical Methods

1010A - Flashpoint
6010C - ICP
6020A - ICP MS
7010 - Graphite Furnace
7196A - Hexavalent Chromium
7470A - Aqueous Mercury
7471B - Solid Mercury
8011 - EDB/DBCP/TCP
8015D - GRO/DRO
8081B - Pesticides
8082A - PCB
8100M - TPH
8151A - Herbicides
8260B - VOA
8270D - SVOA
8270D SIM - SVOA Low Level
9014 - Cyanide
9038 - Sulfate
9040C - Aqueous pH
9045D - Solid pH (Corrosivity)
9050A - Specific Conductance
9056A - Anions (IC)
9060A - TOC
9095B - Paint Filter
MADEP 04-1.1 - EPH / VPH

Prep Methods

3005A - Aqueous ICP and Graphite Furnace Digestion
3020A - Aqueous ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3546 - Microwave Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5030C - Aqueous Purge and Trap
5035 - Solid Purge and Trap

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503512

MassDEP Analytical Protocol Certification Form

MADEP RTN: _____

This form provides certification for the following data set: **1503512-01 through 1503512-44**

Matrices: ( ) Ground Water/Surface Water (X) Soil/Sediment ( ) Drinking Water ( ) Air ( ) Other:_____

CAM Protocol (check all that apply below):

(X) 8260 VOC CAM II A	(X) 7470/7471 Hg CAM III B	( ) MassDEP VPH CAM IV A	( ) 8081 Pesticides CAM V B	(X) 7196 Hex Cr CAM VI B	( ) MassDEP APH CAM IX A
(X) 8270 SVOC CAM II B	(X) 7010 Metals CAM III C	(X) MassDEP EPH CAM IV B	( ) 8151 Herbicides CAM V C	( ) 8330 Explosives CAM VIII A	( ) TO-15 VOC CAM IX B
(X) 6010 Metals CAM III A	(X) 6020 Metals CAM III D	(X) 8082 PCB CAM V A	( ) 6860 Perchlorate CAM VIII B	( ) 9014 Total Cyanide/PAC CAM VI A	

Affirmative responses to questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	Yes ( ) No (X)
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	Yes (X) No ( )
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	Yes (X) No ( )
D	Does the laboratory report comply with all the reporting requirements specified in the CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	Yes (X) No ( )
E	a. VPH, EPH, APH and TO-15 only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	Yes (X) No ( )
	b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	Yes ( ) No ( )
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	Yes (X) No ( )

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocols(s)?	Yes (X) No ( )*
	***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**	
H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	Yes ( ) No (X)*
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	Yes ( ) No (X)*

All negative responses must be addressed in an attached laboratory narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: _____ Date: April 10, 2015

Printed Name: Laurel Stoddard Position: Laboratory Director

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-225 0ft-0.5ft
Date Sampled: 03/27/15 08:49
Percent Solids: 49
Initial Volume: 30.2
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503512
ESS Laboratory Sample ID: 1503512-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 4/1/15 13:22

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.335)		8270D		1	04/02/15 17:46	CYD0021	CD50643
1,2-Dichlorobenzene	ND (0.335)		8270D		1	04/02/15 17:46	CYD0021	CD50643
1,3-Dichlorobenzene	ND (0.335)		8270D		1	04/02/15 17:46	CYD0021	CD50643
1,4-Dichlorobenzene	ND (0.335)		8270D		1	04/02/15 17:46	CYD0021	CD50643
2,4,5-Trichlorophenol	ND (0.335)		8270D		1	04/02/15 17:46	CYD0021	CD50643
2,4,6-Trichlorophenol	ND (0.335)		8270D		1	04/02/15 17:46	CYD0021	CD50643
2,4-Dichlorophenol	ND (0.335)		8270D		1	04/02/15 17:46	CYD0021	CD50643
2,4-Dimethylphenol	ND (0.335)		8270D		1	04/02/15 17:46	CYD0021	CD50643
2,4-Dinitrophenol	ND (1.68)		8270D		1	04/02/15 17:46	CYD0021	CD50643
2,4-Dinitrotoluene	ND (0.335)		8270D		1	04/02/15 17:46	CYD0021	CD50643
2,6-Dinitrotoluene	ND (0.335)		8270D		1	04/02/15 17:46	CYD0021	CD50643
2-Chloronaphthalene	ND (0.335)		8270D		1	04/02/15 17:46	CYD0021	CD50643
2-Chlorophenol	ND (0.335)		8270D		1	04/02/15 17:46	CYD0021	CD50643
2-Methylphenol	ND (0.335)		8270D		1	04/02/15 17:46	CYD0021	CD50643
2-Nitrophenol	ND (0.335)		8270D		1	04/02/15 17:46	CYD0021	CD50643
3,3´-Dichlorobenzidine	ND (0.670)		8270D		1	04/02/15 17:46	CYD0021	CD50643
3+4-Methylphenol	ND (0.670)		8270D		1	04/02/15 17:46	CYD0021	CD50643
4-Bromophenyl-phenylether	ND (0.335)		8270D		1	04/02/15 17:46	CYD0021	CD50643
4-Chloroaniline	ND (0.670)		8270D		1	04/02/15 17:46	CYD0021	CD50643
4-Nitrophenol	ND (1.68)		8270D		1	04/02/15 17:46	CYD0021	CD50643
Acetophenone	ND (0.670)		8270D		1	04/02/15 17:46	CYD0021	CD50643
Aniline	ND (1.68)		8270D		1	04/02/15 17:46	CYD0021	CD50643
Azobenzene	ND (0.335)		8270D		1	04/02/15 17:46	CYD0021	CD50643
bis(2-Chloroethoxy)methane	ND (0.335)		8270D		1	04/02/15 17:46	CYD0021	CD50643
bis(2-Chloroethyl)ether	ND (0.335)		8270D		1	04/02/15 17:46	CYD0021	CD50643
bis(2-chloroisopropyl)Ether	ND (0.335)		8270D		1	04/02/15 17:46	CYD0021	CD50643
bis(2-Ethylhexyl)phthalate	**1.01** (0.335)		8270D		1	04/02/15 17:46	CYD0021	CD50643
Butylbenzylphthalate	ND (0.335)		8270D		1	04/02/15 17:46	CYD0021	CD50643
Dibenzofuran	ND (0.335)		8270D		1	04/02/15 17:46	CYD0021	CD50643
Diethylphthalate	ND (0.335)		8270D		1	04/02/15 17:46	CYD0021	CD50643
Dimethylphthalate	ND (0.335)		8270D		1	04/02/15 17:46	CYD0021	CD50643
Di-n-butylphthalate	ND (0.335)		8270D		1	04/02/15 17:46	CYD0021	CD50643

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-225 0ft-0.5ft
Date Sampled: 03/27/15 08:49
Percent Solids: 49
Initial Volume: 30.2
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503512
ESS Laboratory Sample ID: 1503512-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 4/1/15 13:22

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Di-n-octylphthalate	ND (0.335)		8270D		1	04/02/15 17:46	CYD0021	CD50643
Hexachlorobutadiene	ND (0.335)		8270D		1	04/02/15 17:46	CYD0021	CD50643
Hexachloroethane	ND (0.335)		8270D		1	04/02/15 17:46	CYD0021	CD50643
Isophorone	ND (0.335)		8270D		1	04/02/15 17:46	CYD0021	CD50643
Nitrobenzene	ND (0.335)		8270D		1	04/02/15 17:46	CYD0021	CD50643
N-Nitrosodimethylamine	ND (0.335)		8270D		1	04/02/15 17:46	CYD0021	CD50643
Pentachlorophenol	ND (1.68)		8270D		1	04/02/15 17:46	CYD0021	CD50643
Phenol	ND (0.335)		8270D		1	04/02/15 17:46	CYD0021	CD50643

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*71 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*86 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*76 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*77 %*		*30-130*
Surrogate: 2-Fluorophenol	*72 %*		*30-130*
Surrogate: Nitrobenzene-d5	*75 %*		*30-130*
Surrogate: Phenol-d6	*78 %*		*30-130*
Surrogate: p-Terphenyl-d14	*83 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-225 0ft-0.5ft
Date Sampled: 03/27/15 08:49
Percent Solids: 49
Initial Volume: 20.3
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503512
ESS Laboratory Sample ID: 1503512-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 4/1/15 15:30

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	ND (0.025)		8270D		1	04/04/15 15:26	CYD0062	CD50136
Acenaphthene	ND (0.025)		8270D		1	04/04/15 15:26	CYD0062	CD50136
Acenaphthylene	**0.055** (0.025)		8270D		1	04/04/15 15:26	CYD0062	CD50136
Anthracene	**0.089** (0.025)		8270D		1	04/04/15 15:26	CYD0062	CD50136
Benzo(a)anthracene	**0.195** (0.025)		8270D		1	04/04/15 15:26	CYD0062	CD50136
Benzo(a)pyrene	**0.237** (0.025)		8270D		1	04/04/15 15:26	CYD0062	CD50136
Benzo(b)fluoranthene	**0.365** (0.025)		8270D		1	04/04/15 15:26	CYD0062	CD50136
Benzo(g,h,i)perylene	**0.102** (0.025)		8270D		1	04/04/15 15:26	CYD0062	CD50136
Benzo(k)fluoranthene	**0.132** (0.025)		8270D		1	04/04/15 15:26	CYD0062	CD50136
Chrysene	**0.256** (0.025)		8270D		1	04/04/15 15:26	CYD0062	CD50136
Dibenzo(a,h)Anthracene	**0.032** (0.025)		8270D		1	04/04/15 15:26	CYD0062	CD50136
Fluoranthene	**0.401** (0.025)		8270D		1	04/04/15 15:26	CYD0062	CD50136
Fluorene	ND (0.025)		8270D		1	04/04/15 15:26	CYD0062	CD50136
Hexachlorobenzene	ND (0.025)		8270D		1	04/04/15 15:26	CYD0062	CD50136
Indeno(1,2,3-cd)Pyrene	**0.126** (0.025)		8270D		1	04/04/15 15:26	CYD0062	CD50136
Naphthalene	**0.045** (0.025)		8270D		1	04/04/15 15:26	CYD0062	CD50136
Phenanthrene	**0.138** (0.025)		8270D		1	04/04/15 15:26	CYD0062	CD50136
Pyrene	**0.355** (0.025)		8270D		1	04/04/15 15:26	CYD0062	CD50136

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*37 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*60 %*		*30-130*
Surrogate: Nitrobenzene-d5	*48 %*		*30-130*
Surrogate: p-Terphenyl-d14	*71 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-225 0ft-0.5ft
Date Sampled: 03/27/15 08:49
Percent Solids: 49
Initial Volume: 30
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1503512
ESS Laboratory Sample ID: 1503512-01
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 3/31/15 18:19

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (25.3)		MADEP-EPH		1	JXS	04/02/15 3:43	CYC0382	CC53112
C19-C36 Aliphatics1	**80.9** (25.3)		MADEP-EPH		1	JXS	04/02/15 3:43	CYC0382	CC53112
C11-C22 Unadjusted Aromatics1	**31.9** (25.3)		EPH8270		1	VSC	04/03/15 6:38	CYD0036	CC53112
C11-C22 Aromatics1,2	**25.9** (25.3)		EPH8270			VSC	04/03/15 6:38		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*59 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*85 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*81 %*		*40-140*
Surrogate: O-Terphenyl	*72 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-225 4ft-6ft
Date Sampled: 03/27/15 08:49
Percent Solids: 58
Initial Volume: 20
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503512
ESS Laboratory Sample ID: 1503512-02
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 4/1/15 15:30

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	ND (0.022)		8270D		1	04/04/15 16:14	CYD0062	CD50136
Acenaphthene	ND (0.022)		8270D		1	04/04/15 16:14	CYD0062	CD50136
Acenaphthylene	**0.072** (0.022)		8270D		1	04/04/15 16:14	CYD0062	CD50136
Anthracene	**0.056** (0.022)		8270D		1	04/04/15 16:14	CYD0062	CD50136
Benzo(a)anthracene	**0.144** (0.022)		8270D		1	04/04/15 16:14	CYD0062	CD50136
Benzo(a)pyrene	**0.143** (0.022)		8270D		1	04/04/15 16:14	CYD0062	CD50136
Benzo(b)fluoranthene	**0.155** (0.022)		8270D		1	04/04/15 16:14	CYD0062	CD50136
Benzo(g,h,i)perylene	**0.048** (0.022)		8270D		1	04/04/15 16:14	CYD0062	CD50136
Benzo(k)fluoranthene	**0.050** (0.022)		8270D		1	04/04/15 16:14	CYD0062	CD50136
Chrysene	**0.167** (0.022)		8270D		1	04/04/15 16:14	CYD0062	CD50136
Dibenzo(a,h)Anthracene	ND (0.022)		8270D		1	04/04/15 16:14	CYD0062	CD50136
Fluoranthene	**0.256** (0.022)		8270D		1	04/04/15 16:14	CYD0062	CD50136
Fluorene	ND (0.022)		8270D		1	04/04/15 16:14	CYD0062	CD50136
Hexachlorobenzene	ND (0.022)		8270D		1	04/04/15 16:14	CYD0062	CD50136
Indeno(1,2,3-cd)Pyrene	**0.057** (0.022)		8270D		1	04/04/15 16:14	CYD0062	CD50136
Naphthalene	ND (0.022)		8270D		1	04/04/15 16:14	CYD0062	CD50136
Phenanthrene	**0.053** (0.022)		8270D		1	04/04/15 16:14	CYD0062	CD50136
Pyrene	**0.265** (0.022)		8270D		1	04/04/15 16:14	CYD0062	CD50136

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*47 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*65 %*		*30-130*
Surrogate: Nitrobenzene-d5	*56 %*		*30-130*
Surrogate: p-Terphenyl-d14	*78 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-225 6ft-7ft 2in
Date Sampled: 03/27/15 08:49
Percent Solids: 76
Initial Volume: 20.1
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503512
ESS Laboratory Sample ID: 1503512-03
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 4/1/15 15:30

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	ND (0.016)		8270D		1	04/04/15 17:03	CYD0062	CD50136
Acenaphthene	ND (0.016)		8270D		1	04/04/15 17:03	CYD0062	CD50136
Acenaphthylene	ND (0.016)		8270D		1	04/04/15 17:03	CYD0062	CD50136
Anthracene	ND (0.016)		8270D		1	04/04/15 17:03	CYD0062	CD50136
Benzo(a)anthracene	ND (0.016)		8270D		1	04/04/15 17:03	CYD0062	CD50136
Benzo(a)pyrene	ND (0.016)		8270D		1	04/04/15 17:03	CYD0062	CD50136
Benzo(b)fluoranthene	ND (0.016)		8270D		1	04/04/15 17:03	CYD0062	CD50136
Benzo(g,h,i)perylene	ND (0.016)		8270D		1	04/04/15 17:03	CYD0062	CD50136
Benzo(k)fluoranthene	ND (0.016)		8270D		1	04/04/15 17:03	CYD0062	CD50136
Chrysene	ND (0.016)		8270D		1	04/04/15 17:03	CYD0062	CD50136
Dibenzo(a,h)Anthracene	ND (0.016)		8270D		1	04/04/15 17:03	CYD0062	CD50136
Fluoranthene	ND (0.016)		8270D		1	04/04/15 17:03	CYD0062	CD50136
Fluorene	ND (0.016)		8270D		1	04/04/15 17:03	CYD0062	CD50136
Hexachlorobenzene	ND (0.016)		8270D		1	04/04/15 17:03	CYD0062	CD50136
Indeno(1,2,3-cd)Pyrene	ND (0.016)		8270D		1	04/04/15 17:03	CYD0062	CD50136
Naphthalene	ND (0.016)		8270D		1	04/04/15 17:03	CYD0062	CD50136
Phenanthrene	ND (0.016)		8270D		1	04/04/15 17:03	CYD0062	CD50136
Pyrene	ND (0.016)		8270D		1	04/04/15 17:03	CYD0062	CD50136

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*42 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*57 %*		*30-130*
Surrogate: Nitrobenzene-d5	*51 %*		*30-130*
Surrogate: p-Terphenyl-d14	*80 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-225 0ft-3ft
Date Sampled: 03/27/15 08:49
Percent Solids: 58
Initial Volume: 6.9
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1503512
ESS Laboratory Sample ID: 1503512-04
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.0062)		8260B Low		1	03/30/15 17:44	CYC0353	CC53022
1,1,1-Trichloroethane	ND (0.0062)		8260B Low		1	03/30/15 17:44	CYC0353	CC53022
1,1,2,2-Tetrachloroethane	ND (0.0025)		8260B Low		1	03/30/15 17:44	CYC0353	CC53022
1,1,2-Trichloroethane	ND (0.0062)		8260B Low		1	03/30/15 17:44	CYC0353	CC53022
1,1-Dichloroethane	ND (0.0062)		8260B Low		1	03/30/15 17:44	CYC0353	CC53022
1,1-Dichloroethene	ND (0.0062)		8260B Low		1	03/30/15 17:44	CYC0353	CC53022
1,1-Dichloropropene	ND (0.0062)		8260B Low		1	03/30/15 17:44	CYC0353	CC53022
1,2,3-Trichlorobenzene	ND (0.0062)		8260B Low		1	03/30/15 17:44	CYC0353	CC53022
1,2,3-Trichloropropane	ND (0.0062)		8260B Low		1	03/30/15 17:44	CYC0353	CC53022
1,2,4-Trichlorobenzene	ND (0.0062)		8260B Low		1	03/30/15 17:44	CYC0353	CC53022
1,2,4-Trimethylbenzene	ND (0.0062)		8260B Low		1	03/30/15 17:44	CYC0353	CC53022
1,2-Dibromo-3-Chloropropane	ND (0.0062)		8260B Low		1	03/30/15 17:44	CYC0353	CC53022
1,2-Dibromoethane	ND (0.0062)		8260B Low		1	03/30/15 17:44	CYC0353	CC53022
1,2-Dichlorobenzene	ND (0.0062)		8260B Low		1	03/30/15 17:44	CYC0353	CC53022
1,2-Dichloroethane	ND (0.0062)		8260B Low		1	03/30/15 17:44	CYC0353	CC53022
1,2-Dichloropropane	ND (0.0062)		8260B Low		1	03/30/15 17:44	CYC0353	CC53022
1,3,5-Trimethylbenzene	ND (0.0062)		8260B Low		1	03/30/15 17:44	CYC0353	CC53022
1,3-Dichlorobenzene	ND (0.0062)		8260B Low		1	03/30/15 17:44	CYC0353	CC53022
1,3-Dichloropropane	ND (0.0062)		8260B Low		1	03/30/15 17:44	CYC0353	CC53022
1,4-Dichlorobenzene	ND (0.0062)		8260B Low		1	03/30/15 17:44	CYC0353	CC53022
1,4-Dioxane	ND (0.124)		8260B Low		1	03/30/15 17:44	CYC0353	CC53022
2,2-Dichloropropane	ND (0.0062)		8260B Low		1	03/30/15 17:44	CYC0353	CC53022
2-Butanone	ND (0.0124)		8260B Low		1	03/30/15 17:44	CYC0353	CC53022
2-Chlorotoluene	ND (0.0062)		8260B Low		1	03/30/15 17:44	CYC0353	CC53022
2-Hexanone	ND (0.0124)		8260B Low		1	03/30/15 17:44	CYC0353	CC53022
4-Chlorotoluene	ND (0.0062)		8260B Low		1	03/30/15 17:44	CYC0353	CC53022
4-Isopropyltoluene	ND (0.0062)		8260B Low		1	03/30/15 17:44	CYC0353	CC53022
4-Methyl-2-Pentanone	ND (0.0124)		8260B Low		1	03/30/15 17:44	CYC0353	CC53022
Acetone	**0.0617** (0.0124)		8260B Low		1	03/30/15 17:44	CYC0353	CC53022
Benzene	ND (0.0062)		8260B Low		1	03/30/15 17:44	CYC0353	CC53022
Bromobenzene	ND (0.0062)		8260B Low		1	03/30/15 17:44	CYC0353	CC53022
Bromochloromethane	ND (0.0062)		8260B Low		1	03/30/15 17:44	CYC0353	CC53022

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-225 0ft-3ft
Date Sampled: 03/27/15 08:49
Percent Solids: 58
Initial Volume: 6.9
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1503512
ESS Laboratory Sample ID: 1503512-04
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Bromodichloromethane	ND (0.0062)		8260B Low		1	03/30/15 17:44	CYC0353	CC53022
Bromoform	ND (0.0062)		8260B Low		1	03/30/15 17:44	CYC0353	CC53022
Bromomethane	ND (0.0124)		8260B Low		1	03/30/15 17:44	CYC0353	CC53022
Carbon Disulfide	**0.0142** (0.0062)		8260B Low		1	03/30/15 17:44	CYC0353	CC53022
Carbon Tetrachloride	ND (0.0062)		8260B Low		1	03/30/15 17:44	CYC0353	CC53022
Chlorobenzene	ND (0.0062)		8260B Low		1	03/30/15 17:44	CYC0353	CC53022
Chloroethane	ND (0.0124)		8260B Low		1	03/30/15 17:44	CYC0353	CC53022
Chloroform	ND (0.0062)		8260B Low		1	03/30/15 17:44	CYC0353	CC53022
Chloromethane	ND (0.0124)		8260B Low		1	03/30/15 17:44	CYC0353	CC53022
cis-1,2-Dichloroethene	ND (0.0062)		8260B Low		1	03/30/15 17:44	CYC0353	CC53022
cis-1,3-Dichloropropene	ND (0.0062)		8260B Low		1	03/30/15 17:44	CYC0353	CC53022
Dibromochloromethane	ND (0.0025)		8260B Low		1	03/30/15 17:44	CYC0353	CC53022
Dibromomethane	ND (0.0062)		8260B Low		1	03/30/15 17:44	CYC0353	CC53022
Dichlorodifluoromethane	ND (0.0124)		8260B Low		1	03/30/15 17:44	CYC0353	CC53022
Diethyl Ether	ND (0.0062)		8260B Low		1	03/30/15 17:44	CYC0353	CC53022
Di-isopropyl ether	ND (0.0062)		8260B Low		1	03/30/15 17:44	CYC0353	CC53022
Ethyl tertiary-butyl ether	ND (0.0062)		8260B Low		1	03/30/15 17:44	CYC0353	CC53022
Ethylbenzene	ND (0.0062)		8260B Low		1	03/30/15 17:44	CYC0353	CC53022
Hexachlorobutadiene	ND (0.0062)		8260B Low		1	03/30/15 17:44	CYC0353	CC53022
Isopropylbenzene	ND (0.0062)		8260B Low		1	03/30/15 17:44	CYC0353	CC53022
Methyl tert-Butyl Ether	ND (0.0062)		8260B Low		1	03/30/15 17:44	CYC0353	CC53022
Methylene Chloride	ND (0.0124)		8260B Low		1	03/30/15 17:44	CYC0353	CC53022
Naphthalene	ND (0.0062)		8260B Low		1	03/30/15 17:44	CYC0353	CC53022
n-Butylbenzene	ND (0.0062)		8260B Low		1	03/30/15 17:44	CYC0353	CC53022
n-Propylbenzene	ND (0.0062)		8260B Low		1	03/30/15 17:44	CYC0353	CC53022
sec-Butylbenzene	ND (0.0062)		8260B Low		1	03/30/15 17:44	CYC0353	CC53022
Styrene	ND (0.0062)		8260B Low		1	03/30/15 17:44	CYC0353	CC53022
tert-Butylbenzene	ND (0.0062)		8260B Low		1	03/30/15 17:44	CYC0353	CC53022
Tertiary-amyl methyl ether	ND (0.0062)		8260B Low		1	03/30/15 17:44	CYC0353	CC53022
Tetrachloroethene	ND (0.0062)		8260B Low		1	03/30/15 17:44	CYC0353	CC53022
Tetrahydrofuran	ND (0.0062)		8260B Low		1	03/30/15 17:44	CYC0353	CC53022
Toluene	ND (0.0062)		8260B Low		1	03/30/15 17:44	CYC0353	CC53022

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-225 0ft-3ft
Date Sampled: 03/27/15 08:49
Percent Solids: 58
Initial Volume: 6.9
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1503512
ESS Laboratory Sample ID: 1503512-04
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
trans-1,2-Dichloroethene	ND (0.0062)		8260B Low		1	03/30/15 17:44	CYC0353	CC53022
trans-1,3-Dichloropropene	ND (0.0062)		8260B Low		1	03/30/15 17:44	CYC0353	CC53022
Trichloroethene	ND (0.0062)		8260B Low		1	03/30/15 17:44	CYC0353	CC53022
Trichlorofluoromethane	ND (0.0062)		8260B Low		1	03/30/15 17:44	CYC0353	CC53022
Vinyl Chloride	ND (0.0124)		8260B Low		1	03/30/15 17:44	CYC0353	CC53022
Xylene O	ND (0.0062)		8260B Low		1	03/30/15 17:44	CYC0353	CC53022
Xylene P,M	ND (0.0124)		8260B Low		1	03/30/15 17:44	CYC0353	CC53022
Xylenes (Total)	ND (0.0124)		8260B Low		1	03/30/15 17:44		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*97 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*89 %*		*70-130*
Surrogate: Dibromofluoromethane	*93 %*		*70-130*
Surrogate: Toluene-d8	*95 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-225 0ft-3ft
Date Sampled: 03/27/15 08:49
Percent Solids: 58
Initial Volume: 30.2
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503512
ESS Laboratory Sample ID: 1503512-04
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 4/1/15 14:40

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.283)		8270D		1	04/02/15 18:22	CYD0021	CD50642
1,2-Dichlorobenzene	ND (0.283)		8270D		1	04/02/15 18:22	CYD0021	CD50642
1,3-Dichlorobenzene	ND (0.283)		8270D		1	04/02/15 18:22	CYD0021	CD50642
1,4-Dichlorobenzene	ND (0.283)		8270D		1	04/02/15 18:22	CYD0021	CD50642
2,4,5-Trichlorophenol	ND (0.283)		8270D		1	04/02/15 18:22	CYD0021	CD50642
2,4,6-Trichlorophenol	ND (0.283)		8270D		1	04/02/15 18:22	CYD0021	CD50642
2,4-Dichlorophenol	ND (0.283)		8270D		1	04/02/15 18:22	CYD0021	CD50642
2,4-Dimethylphenol	ND (0.283)		8270D		1	04/02/15 18:22	CYD0021	CD50642
2,4-Dinitrophenol	ND (1.42)		8270D		1	04/02/15 18:22	CYD0021	CD50642
2,4-Dinitrotoluene	ND (0.283)		8270D		1	04/02/15 18:22	CYD0021	CD50642
2,6-Dinitrotoluene	ND (0.283)		8270D		1	04/02/15 18:22	CYD0021	CD50642
2-Chloronaphthalene	ND (0.283)		8270D		1	04/02/15 18:22	CYD0021	CD50642
2-Chlorophenol	ND (0.283)		8270D		1	04/02/15 18:22	CYD0021	CD50642
2-Methylphenol	ND (0.283)		8270D		1	04/02/15 18:22	CYD0021	CD50642
2-Nitrophenol	ND (0.283)		8270D		1	04/02/15 18:22	CYD0021	CD50642
3,3´-Dichlorobenzidine	ND (0.568)		8270D		1	04/02/15 18:22	CYD0021	CD50642
3+4-Methylphenol	ND (0.568)		8270D		1	04/02/15 18:22	CYD0021	CD50642
4-Bromophenyl-phenylether	ND (0.283)		8270D		1	04/02/15 18:22	CYD0021	CD50642
4-Chloroaniline	ND (0.568)		8270D		1	04/02/15 18:22	CYD0021	CD50642
4-Nitrophenol	ND (1.42)		8270D		1	04/02/15 18:22	CYD0021	CD50642
Acetophenone	ND (0.568)		8270D		1	04/02/15 18:22	CYD0021	CD50642
Aniline	ND (1.42)		8270D		1	04/02/15 18:22	CYD0021	CD50642
Azobenzene	ND (0.283)		8270D		1	04/02/15 18:22	CYD0021	CD50642
bis(2-Chloroethoxy)methane	ND (0.283)		8270D		1	04/02/15 18:22	CYD0021	CD50642
bis(2-Chloroethyl)ether	ND (0.283)		8270D		1	04/02/15 18:22	CYD0021	CD50642
bis(2-chloroisopropyl)Ether	ND (0.283)		8270D		1	04/02/15 18:22	CYD0021	CD50642
bis(2-Ethylhexyl)phthalate	**3.08** (0.283)		8270D		1	04/02/15 18:22	CYD0021	CD50642
Butylbenzylphthalate	ND (0.283)		8270D		1	04/02/15 18:22	CYD0021	CD50642
Dibenzofuran	ND (0.283)		8270D		1	04/02/15 18:22	CYD0021	CD50642
Diethylphthalate	ND (0.283)		8270D		1	04/02/15 18:22	CYD0021	CD50642
Dimethylphthalate	ND (0.283)		8270D		1	04/02/15 18:22	CYD0021	CD50642
Di-n-butylphthalate	ND (0.283)		8270D		1	04/02/15 18:22	CYD0021	CD50642

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-225 0ft-3ft
Date Sampled: 03/27/15 08:49
Percent Solids: 58
Initial Volume: 30.2
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503512
ESS Laboratory Sample ID: 1503512-04
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 4/1/15 14:40

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Di-n-octylphthalate	ND (0.283)		8270D		1	04/02/15 18:22	CYD0021	CD50642
Hexachlorobutadiene	ND (0.283)		8270D		1	04/02/15 18:22	CYD0021	CD50642
Hexachloroethane	ND (0.283)		8270D		1	04/02/15 18:22	CYD0021	CD50642
Isophorone	ND (0.283)		8270D		1	04/02/15 18:22	CYD0021	CD50642
Nitrobenzene	ND (0.283)		8270D		1	04/02/15 18:22	CYD0021	CD50642
N-Nitrosodimethylamine	ND (0.283)		8270D		1	04/02/15 18:22	CYD0021	CD50642
Pentachlorophenol	ND (1.42)		8270D		1	04/02/15 18:22	CYD0021	CD50642
Phenol	ND (0.283)		8270D		1	04/02/15 18:22	CYD0021	CD50642

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*40 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*62 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*44 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*53 %*		*30-130*
Surrogate: 2-Fluorophenol	*43 %*		*30-130*
Surrogate: Nitrobenzene-d5	*44 %*		*30-130*
Surrogate: Phenol-d6	*48 %*		*30-130*
Surrogate: p-Terphenyl-d14	*63 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-225 0ft-3ft
Date Sampled: 03/27/15 08:49
Percent Solids: 58

ESS Laboratory Work Order: 1503512
ESS Laboratory Sample ID: 1503512-04
Sample Matrix: Soil

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Corrosivity (pH)	**H 7.36** (N/A)		9045		1	JLK	03/28/15 10:32	S.U.	CC52811
Corrosivity (pH) Sample Temp	**Soil pH measured in water at 15.6 ºC.**								
Eh (ORP)	**H, WL** ND (N/A)		2580		1	JLK	03/28/15 10:32	mv	CC52818
Grain Size	**See Attached** (N/A)								
Hexavalent Chromium	ND (0.7)		7196A		1	JLK	03/28/15 11:00	mg/kg dry	CC52807
Percent Water	**See Attached** (N/A)								
Reactive Cyanide	ND (2.0)		7.3.3.2		1	JLK	03/31/15 10:59	mg/kg	CC53003
Reactive Sulfide	ND (2.0)		7.3.4.1		1	JLK	03/31/15 10:59	mg/kg	CC53003

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-225 0ft-3ft
Date Sampled: 03/27/15 08:49
Percent Solids: 58
Initial Volume: 30.2
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1503512
ESS Laboratory Sample ID: 1503512-04
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 3/31/15 18:19

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (21.3)		MADEP-EPH		1	JXS	04/02/15 4:33	CYC0382	CC53112
C19-C36 Aliphatics1	ND (21.3)		MADEP-EPH		1	JXS	04/02/15 4:33	CYC0382	CC53112
C11-C22 Unadjusted Aromatics1	ND (21.3)		EPH8270		1	VSC	04/03/15 7:13	CYD0036	CC53112
C11-C22 Aromatics1,2	ND (21.3)		EPH8270			VSC	04/03/15 7:13		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*62 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*95 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*93 %*		*40-140*
Surrogate: O-Terphenyl	*80 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-201 0ft-0.5ft
Date Sampled: 03/27/15 09:24
Percent Solids: 28
Initial Volume: 30.3
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503512
ESS Laboratory Sample ID: 1503512-05
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 4/1/15 14:40

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.596)		8270D		1	04/02/15 18:58	CYD0021	CD50642
1,2-Dichlorobenzene	ND (0.596)		8270D		1	04/02/15 18:58	CYD0021	CD50642
1,3-Dichlorobenzene	ND (0.596)		8270D		1	04/02/15 18:58	CYD0021	CD50642
1,4-Dichlorobenzene	ND (0.596)		8270D		1	04/02/15 18:58	CYD0021	CD50642
2,4,5-Trichlorophenol	ND (0.596)		8270D		1	04/02/15 18:58	CYD0021	CD50642
2,4,6-Trichlorophenol	ND (0.596)		8270D		1	04/02/15 18:58	CYD0021	CD50642
2,4-Dichlorophenol	ND (0.596)		8270D		1	04/02/15 18:58	CYD0021	CD50642
2,4-Dimethylphenol	ND (0.596)		8270D		1	04/02/15 18:58	CYD0021	CD50642
2,4-Dinitrophenol	ND (2.99)		8270D		1	04/02/15 18:58	CYD0021	CD50642
2,4-Dinitrotoluene	ND (0.596)		8270D		1	04/02/15 18:58	CYD0021	CD50642
2,6-Dinitrotoluene	ND (0.596)		8270D		1	04/02/15 18:58	CYD0021	CD50642
2-Chloronaphthalene	ND (0.596)		8270D		1	04/02/15 18:58	CYD0021	CD50642
2-Chlorophenol	ND (0.596)		8270D		1	04/02/15 18:58	CYD0021	CD50642
2-Methylphenol	ND (0.596)		8270D		1	04/02/15 18:58	CYD0021	CD50642
2-Nitrophenol	ND (0.596)		8270D		1	04/02/15 18:58	CYD0021	CD50642
3,3´-Dichlorobenzidine	ND (1.19)		8270D		1	04/02/15 18:58	CYD0021	CD50642
3+4-Methylphenol	ND (1.19)		8270D		1	04/02/15 18:58	CYD0021	CD50642
4-Bromophenyl-phenylether	ND (0.596)		8270D		1	04/02/15 18:58	CYD0021	CD50642
4-Chloroaniline	ND (1.19)		8270D		1	04/02/15 18:58	CYD0021	CD50642
4-Nitrophenol	ND (2.99)		8270D		1	04/02/15 18:58	CYD0021	CD50642
Acetophenone	ND (1.19)		8270D		1	04/02/15 18:58	CYD0021	CD50642
Aniline	ND (2.99)		8270D		1	04/02/15 18:58	CYD0021	CD50642
Azobenzene	ND (0.596)		8270D		1	04/02/15 18:58	CYD0021	CD50642
bis(2-Chloroethoxy)methane	ND (0.596)		8270D		1	04/02/15 18:58	CYD0021	CD50642
bis(2-Chloroethyl)ether	ND (0.596)		8270D		1	04/02/15 18:58	CYD0021	CD50642
bis(2-chloroisopropyl)Ether	ND (0.596)		8270D		1	04/02/15 18:58	CYD0021	CD50642
bis(2-Ethylhexyl)phthalate	**1.14** (0.596)		8270D		1	04/02/15 18:58	CYD0021	CD50642
Butylbenzylphthalate	ND (0.596)		8270D		1	04/02/15 18:58	CYD0021	CD50642
Dibenzofuran	ND (0.596)		8270D		1	04/02/15 18:58	CYD0021	CD50642
Diethylphthalate	ND (0.596)		8270D		1	04/02/15 18:58	CYD0021	CD50642
Dimethylphthalate	ND (0.596)		8270D		1	04/02/15 18:58	CYD0021	CD50642
Di-n-butylphthalate	ND (0.596)		8270D		1	04/02/15 18:58	CYD0021	CD50642

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-201 0ft-0.5ft
Date Sampled: 03/27/15 09:24
Percent Solids: 28
Initial Volume: 30.3
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503512
ESS Laboratory Sample ID: 1503512-05
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 4/1/15 14:40

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Di-n-octylphthalate	ND (0.596)		8270D		1	04/02/15 18:58	CYD0021	CD50642
Hexachlorobutadiene	ND (0.596)		8270D		1	04/02/15 18:58	CYD0021	CD50642
Hexachloroethane	ND (0.596)		8270D		1	04/02/15 18:58	CYD0021	CD50642
Isophorone	ND (0.596)		8270D		1	04/02/15 18:58	CYD0021	CD50642
Nitrobenzene	ND (0.596)		8270D		1	04/02/15 18:58	CYD0021	CD50642
N-Nitrosodimethylamine	ND (0.596)		8270D		1	04/02/15 18:58	CYD0021	CD50642
Pentachlorophenol	ND (2.99)		8270D		1	04/02/15 18:58	CYD0021	CD50642
Phenol	ND (0.596)		8270D		1	04/02/15 18:58	CYD0021	CD50642

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*46 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*71 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*49 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*50 %*		*30-130*
Surrogate: 2-Fluorophenol	*46 %*		*30-130*
Surrogate: Nitrobenzene-d5	*47 %*		*30-130*
Surrogate: Phenol-d6	*50 %*		*30-130*
Surrogate: p-Terphenyl-d14	*72 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-201 0ft-0.5ft
Date Sampled: 03/27/15 09:24
Percent Solids: 28
Initial Volume: 20.2
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503512
ESS Laboratory Sample ID: 1503512-05
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 4/1/15 15:30

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	ND (0.045)		8270D		1	04/04/15 17:52	CYD0062	CD50136
Acenaphthene	**0.021** (0.018)		8270D		1	04/04/15 17:52	CYD0062	CD50136
Acenaphthylene	**0.101** (0.045)		8270D		1	04/04/15 17:52	CYD0062	CD50136
Anthracene	**0.130** (0.045)		8270D		1	04/04/15 17:52	CYD0062	CD50136
Benzo(a)anthracene	**0.276** (0.045)		8270D		1	04/04/15 17:52	CYD0062	CD50136
Benzo(a)pyrene	**0.389** (0.045)		8270D		1	04/04/15 17:52	CYD0062	CD50136
Benzo(b)fluoranthene	**0.594** (0.045)		8270D		1	04/04/15 17:52	CYD0062	CD50136
Benzo(g,h,i)perylene	**0.187** (0.045)		8270D		1	04/04/15 17:52	CYD0062	CD50136
Benzo(k)fluoranthene	**0.190** (0.045)		8270D		1	04/04/15 17:52	CYD0062	CD50136
Chrysene	**0.401** (0.045)		8270D		1	04/04/15 17:52	CYD0062	CD50136
Dibenzo(a,h)Anthracene	**0.055** (0.045)		8270D		1	04/04/15 17:52	CYD0062	CD50136
Fluoranthene	**0.684** (0.045)		8270D		1	04/04/15 17:52	CYD0062	CD50136
Fluorene	**0.033** (0.018)		8270D		1	04/04/15 17:52	CYD0062	CD50136
Hexachlorobenzene	ND (0.018)		8270D		1	04/04/15 17:52	CYD0062	CD50136
Indeno(1,2,3-cd)Pyrene	**0.222** (0.045)		8270D		1	04/04/15 17:52	CYD0062	CD50136
Naphthalene	**0.125** (0.045)		8270D		1	04/04/15 17:52	CYD0062	CD50136
Phenanthrene	**0.230** (0.045)		8270D		1	04/04/15 17:52	CYD0062	CD50136
Pyrene	**0.553** (0.045)		8270D		1	04/04/15 17:52	CYD0062	CD50136

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*41 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*62 %*		*30-130*
Surrogate: Nitrobenzene-d5	*54 %*		*30-130*
Surrogate: p-Terphenyl-d14	*72 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-201 0ft-0.5ft
Date Sampled: 03/27/15 09:24
Percent Solids: 28
Initial Volume: 30.2
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1503512
ESS Laboratory Sample ID: 1503512-05
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 3/31/15 18:19

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (44.9)		MADEP-EPH		1	JXS	04/02/15 5:24	CYC0382	CC53112
C19-C36 Aliphatics1	**141** (44.9)		MADEP-EPH		1	JXS	04/02/15 5:24	CYC0382	CC53112
C11-C22 Unadjusted Aromatics1	**49.0** (44.9)		EPH8270		1	VSC	04/03/15 7:47	CYD0036	CC53112
C11-C22 Aromatics1,2	**49.0** (44.9)		EPH8270			VSC	04/03/15 7:47		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*69 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*79 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*74 %*		*40-140*
Surrogate: O-Terphenyl	*71 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-201 4ft-5ft
Date Sampled: 03/27/15 09:24
Percent Solids: 54
Initial Volume: 20.8
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503512
ESS Laboratory Sample ID: 1503512-06
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 4/1/15 15:30

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	**0.060** (0.022)		8270D		1	04/04/15 18:41	CYD0062	CD50136
Acenaphthene	ND (0.022)		8270D		1	04/04/15 18:41	CYD0062	CD50136
Acenaphthylene	**0.078** (0.022)		8270D		1	04/04/15 18:41	CYD0062	CD50136
Anthracene	**0.088** (0.022)		8270D		1	04/04/15 18:41	CYD0062	CD50136
Benzo(a)anthracene	**0.154** (0.022)		8270D		1	04/04/15 18:41	CYD0062	CD50136
Benzo(a)pyrene	**0.197** (0.022)		8270D		1	04/04/15 18:41	CYD0062	CD50136
Benzo(b)fluoranthene	**0.276** (0.022)		8270D		1	04/04/15 18:41	CYD0062	CD50136
Benzo(g,h,i)perylene	**0.091** (0.022)		8270D		1	04/04/15 18:41	CYD0062	CD50136
Benzo(k)fluoranthene	**0.103** (0.022)		8270D		1	04/04/15 18:41	CYD0062	CD50136
Chrysene	**0.183** (0.022)		8270D		1	04/04/15 18:41	CYD0062	CD50136
Dibenzo(a,h)Anthracene	**0.029** (0.022)		8270D		1	04/04/15 18:41	CYD0062	CD50136
Fluoranthene	**0.303** (0.022)		8270D		1	04/04/15 18:41	CYD0062	CD50136
Fluorene	**0.029** (0.022)		8270D		1	04/04/15 18:41	CYD0062	CD50136
Hexachlorobenzene	ND (0.022)		8270D		1	04/04/15 18:41	CYD0062	CD50136
Indeno(1,2,3-cd)Pyrene	**0.102** (0.022)		8270D		1	04/04/15 18:41	CYD0062	CD50136
Naphthalene	**0.112** (0.022)		8270D		1	04/04/15 18:41	CYD0062	CD50136
Phenanthrene	**0.124** (0.022)		8270D		1	04/04/15 18:41	CYD0062	CD50136
Pyrene	**0.332** (0.022)		8270D		1	04/04/15 18:41	CYD0062	CD50136

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*34 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*61 %*		*30-130*
Surrogate: Nitrobenzene-d5	*49 %*		*30-130*
Surrogate: p-Terphenyl-d14	*71 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-201 0ft-3ft
Date Sampled: 03/27/15 09:24
Percent Solids: 39
Initial Volume: 11.8
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1503512
ESS Laboratory Sample ID: 1503512-07
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.0054)		8260B Low		1	03/31/15 13:51	CYC0360	CC53120
1,1,1-Trichloroethane	ND (0.0054)		8260B Low		1	03/31/15 13:51	CYC0360	CC53120
1,1,2,2-Tetrachloroethane	ND (0.0022)		8260B Low		1	03/31/15 13:51	CYC0360	CC53120
1,1,2-Trichloroethane	ND (0.0054)		8260B Low		1	03/31/15 13:51	CYC0360	CC53120
1,1-Dichloroethane	ND (0.0054)		8260B Low		1	03/31/15 13:51	CYC0360	CC53120
1,1-Dichloroethene	ND (0.0054)		8260B Low		1	03/31/15 13:51	CYC0360	CC53120
1,1-Dichloropropene	ND (0.0054)		8260B Low		1	03/31/15 13:51	CYC0360	CC53120
1,2,3-Trichlorobenzene	ND (0.0054)		8260B Low		1	03/31/15 13:51	CYC0360	CC53120
1,2,3-Trichloropropane	ND (0.0054)		8260B Low		1	03/31/15 13:51	CYC0360	CC53120
1,2,4-Trichlorobenzene	ND (0.0054)		8260B Low		1	03/31/15 13:51	CYC0360	CC53120
1,2,4-Trimethylbenzene	ND (0.0054)		8260B Low		1	03/31/15 13:51	CYC0360	CC53120
1,2-Dibromo-3-Chloropropane	ND (0.0054)		8260B Low		1	03/31/15 13:51	CYC0360	CC53120
1,2-Dibromoethane	ND (0.0054)		8260B Low		1	03/31/15 13:51	CYC0360	CC53120
1,2-Dichlorobenzene	ND (0.0054)		8260B Low		1	03/31/15 13:51	CYC0360	CC53120
1,2-Dichloroethane	ND (0.0054)		8260B Low		1	03/31/15 13:51	CYC0360	CC53120
1,2-Dichloropropane	ND (0.0054)		8260B Low		1	03/31/15 13:51	CYC0360	CC53120
1,3,5-Trimethylbenzene	ND (0.0054)		8260B Low		1	03/31/15 13:51	CYC0360	CC53120
1,3-Dichlorobenzene	ND (0.0054)		8260B Low		1	03/31/15 13:51	CYC0360	CC53120
1,3-Dichloropropane	ND (0.0054)		8260B Low		1	03/31/15 13:51	CYC0360	CC53120
1,4-Dichlorobenzene	ND (0.0054)		8260B Low		1	03/31/15 13:51	CYC0360	CC53120
1,4-Dioxane	ND (0.109)		8260B Low		1	03/31/15 13:51	CYC0360	CC53120
2,2-Dichloropropane	ND (0.0054)		8260B Low		1	03/31/15 13:51	CYC0360	CC53120
2-Butanone	ND (0.0109)		8260B Low		1	03/31/15 13:51	CYC0360	CC53120
2-Chlorotoluene	**0.0740** (0.0054)		8260B Low		1	03/31/15 13:51	CYC0360	CC53120
2-Hexanone	ND (0.0109)		8260B Low		1	03/31/15 13:51	CYC0360	CC53120
4-Chlorotoluene	ND (0.0054)		8260B Low		1	03/31/15 13:51	CYC0360	CC53120
4-Isopropyltoluene	ND (0.0054)		8260B Low		1	03/31/15 13:51	CYC0360	CC53120
4-Methyl-2-Pentanone	ND (0.0109)		8260B Low		1	03/31/15 13:51	CYC0360	CC53120
Acetone	ND (0.0109)		8260B Low		1	03/31/15 13:51	CYC0360	CC53120
Benzene	ND (0.0054)		8260B Low		1	03/31/15 13:51	CYC0360	CC53120
Bromobenzene	ND (0.0054)		8260B Low		1	03/31/15 13:51	CYC0360	CC53120
Bromochloromethane	ND (0.0054)		8260B Low		1	03/31/15 13:51	CYC0360	CC53120

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-201 0ft-3ft
Date Sampled: 03/27/15 09:24
Percent Solids: 39
Initial Volume: 11.8
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1503512
ESS Laboratory Sample ID: 1503512-07
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Bromodichloromethane	ND (0.0054)		8260B Low		1	03/31/15 13:51	CYC0360	CC53120
Bromoform	ND (0.0054)		8260B Low		1	03/31/15 13:51	CYC0360	CC53120
Bromomethane	ND (0.0109)		8260B Low		1	03/31/15 13:51	CYC0360	CC53120
Carbon Disulfide	ND (0.0054)		8260B Low		1	03/31/15 13:51	CYC0360	CC53120
Carbon Tetrachloride	ND (0.0054)		8260B Low		1	03/31/15 13:51	CYC0360	CC53120
Chlorobenzene	ND (0.0054)		8260B Low		1	03/31/15 13:51	CYC0360	CC53120
Chloroethane	ND (0.0109)		8260B Low		1	03/31/15 13:51	CYC0360	CC53120
Chloroform	ND (0.0054)		8260B Low		1	03/31/15 13:51	CYC0360	CC53120
Chloromethane	ND (0.0109)		8260B Low		1	03/31/15 13:51	CYC0360	CC53120
cis-1,2-Dichloroethene	ND (0.0054)		8260B Low		1	03/31/15 13:51	CYC0360	CC53120
cis-1,3-Dichloropropene	ND (0.0054)		8260B Low		1	03/31/15 13:51	CYC0360	CC53120
Dibromochloromethane	ND (0.0022)		8260B Low		1	03/31/15 13:51	CYC0360	CC53120
Dibromomethane	ND (0.0054)		8260B Low		1	03/31/15 13:51	CYC0360	CC53120
Dichlorodifluoromethane	ND (0.0109)		8260B Low		1	03/31/15 13:51	CYC0360	CC53120
Diethyl Ether	ND (0.0054)		8260B Low		1	03/31/15 13:51	CYC0360	CC53120
Di-isopropyl ether	ND (0.0054)		8260B Low		1	03/31/15 13:51	CYC0360	CC53120
Ethyl tertiary-butyl ether	ND (0.0054)		8260B Low		1	03/31/15 13:51	CYC0360	CC53120
Ethylbenzene	ND (0.0054)		8260B Low		1	03/31/15 13:51	CYC0360	CC53120
Hexachlorobutadiene	ND (0.0054)		8260B Low		1	03/31/15 13:51	CYC0360	CC53120
Isopropylbenzene	ND (0.0054)		8260B Low		1	03/31/15 13:51	CYC0360	CC53120
Methyl tert-Butyl Ether	ND (0.0054)		8260B Low		1	03/31/15 13:51	CYC0360	CC53120
Methylene Chloride	ND (0.0109)		8260B Low		1	03/31/15 13:51	CYC0360	CC53120
Naphthalene	**0.0105** (0.0054)		8260B Low		1	03/31/15 13:51	CYC0360	CC53120
n-Butylbenzene	ND (0.0054)		8260B Low		1	03/31/15 13:51	CYC0360	CC53120
n-Propylbenzene	ND (0.0054)		8260B Low		1	03/31/15 13:51	CYC0360	CC53120
sec-Butylbenzene	ND (0.0054)		8260B Low		1	03/31/15 13:51	CYC0360	CC53120
Styrene	ND (0.0054)		8260B Low		1	03/31/15 13:51	CYC0360	CC53120
tert-Butylbenzene	ND (0.0054)		8260B Low		1	03/31/15 13:51	CYC0360	CC53120
Tertiary-amyl methyl ether	ND (0.0054)		8260B Low		1	03/31/15 13:51	CYC0360	CC53120
Tetrachloroethene	ND (0.0054)		8260B Low		1	03/31/15 13:51	CYC0360	CC53120
Tetrahydrofuran	ND (0.0054)		8260B Low		1	03/31/15 13:51	CYC0360	CC53120
Toluene	ND (0.0054)		8260B Low		1	03/31/15 13:51	CYC0360	CC53120

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-201 0ft-3ft
Date Sampled: 03/27/15 09:24
Percent Solids: 39
Initial Volume: 11.8
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1503512
ESS Laboratory Sample ID: 1503512-07
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
trans-1,2-Dichloroethene	ND (0.0054)		8260B Low		1	03/31/15 13:51	CYC0360	CC53120
trans-1,3-Dichloropropene	ND (0.0054)		8260B Low		1	03/31/15 13:51	CYC0360	CC53120
Trichloroethene	ND (0.0054)		8260B Low		1	03/31/15 13:51	CYC0360	CC53120
Trichlorofluoromethane	ND (0.0054)		8260B Low		1	03/31/15 13:51	CYC0360	CC53120
Vinyl Chloride	ND (0.0109)		8260B Low		1	03/31/15 13:51	CYC0360	CC53120
Xylene O	ND (0.0054)		8260B Low		1	03/31/15 13:51	CYC0360	CC53120
Xylene P,M	ND (0.0109)		8260B Low		1	03/31/15 13:51	CYC0360	CC53120
Xylenes (Total)	ND (0.0109)		8260B Low		1	03/31/15 13:51		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*100 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*83 %*		*70-130*
Surrogate: Dibromofluoromethane	*98 %*		*70-130*
Surrogate: Toluene-d8	*98 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-201 0ft-3ft
Date Sampled: 03/27/15 09:24
Percent Solids: 39
Initial Volume: 16.4
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 1503512
ESS Laboratory Sample ID: 1503512-07
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Methanol

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.392)		8260B		1	04/02/15 15:49	CYD0027	CD50244
1,1,1-Trichloroethane	ND (0.196)		8260B		1	04/02/15 15:49	CYD0027	CD50244
1,1,2,2-Tetrachloroethane	ND (0.196)		8260B		1	04/02/15 15:49	CYD0027	CD50244
1,1,2-Trichloroethane	ND (0.196)		8260B		1	04/02/15 15:49	CYD0027	CD50244
1,1-Dichloroethane	ND (0.196)		8260B		1	04/02/15 15:49	CYD0027	CD50244
1,1-Dichloroethene	ND (0.196)		8260B		1	04/02/15 15:49	CYD0027	CD50244
1,1-Dichloropropene	ND (0.196)		8260B		1	04/02/15 15:49	CYD0027	CD50244
1,2,3-Trichlorobenzene	ND (0.196)		8260B		1	04/02/15 15:49	CYD0027	CD50244
1,2,3-Trichloropropane	ND (0.196)		8260B		1	04/02/15 15:49	CYD0027	CD50244
1,2,4-Trichlorobenzene	ND (0.196)		8260B		1	04/02/15 15:49	CYD0027	CD50244
1,2,4-Trimethylbenzene	ND (0.196)		8260B		1	04/02/15 15:49	CYD0027	CD50244
1,2-Dibromo-3-Chloropropane	ND (0.784)		8260B		1	04/02/15 15:49	CYD0027	CD50244
1,2-Dibromoethane	ND (0.196)		8260B		1	04/02/15 15:49	CYD0027	CD50244
1,2-Dichlorobenzene	ND (0.196)		8260B		1	04/02/15 15:49	CYD0027	CD50244
1,2-Dichloroethane	ND (0.196)		8260B		1	04/02/15 15:49	CYD0027	CD50244
1,2-Dichloropropane	ND (0.196)		8260B		1	04/02/15 15:49	CYD0027	CD50244
1,3,5-Trimethylbenzene	ND (0.196)		8260B		1	04/02/15 15:49	CYD0027	CD50244
1,3-Dichlorobenzene	ND (0.196)		8260B		1	04/02/15 15:49	CYD0027	CD50244
1,3-Dichloropropane	ND (0.196)		8260B		1	04/02/15 15:49	CYD0027	CD50244
1,4-Dichlorobenzene	ND (0.196)		8260B		1	04/02/15 15:49	CYD0027	CD50244
1,4-Dioxane - Screen	ND (19.6)		8260B		1	04/02/15 15:49	CYD0027	CD50244
2,2-Dichloropropane	ND (0.392)		8260B		1	04/02/15 15:49	CYD0027	CD50244
2-Butanone	ND (0.784)		8260B		1	04/02/15 15:49	CYD0027	CD50244
2-Chlorotoluene	ND (0.196)		8260B		1	04/02/15 15:49	CYD0027	CD50244
2-Hexanone	ND (0.784)		8260B		1	04/02/15 15:49	CYD0027	CD50244
4-Chlorotoluene	ND (0.196)		8260B		1	04/02/15 15:49	CYD0027	CD50244
4-Isopropyltoluene	ND (0.196)		8260B		1	04/02/15 15:49	CYD0027	CD50244
4-Methyl-2-Pentanone	ND (0.784)		8260B		1	04/02/15 15:49	CYD0027	CD50244
Acetone	ND (0.784)		8260B		1	04/02/15 15:49	CYD0027	CD50244
Benzene	ND (0.196)		8260B		1	04/02/15 15:49	CYD0027	CD50244
Bromobenzene	ND (0.196)		8260B		1	04/02/15 15:49	CYD0027	CD50244
Bromochloromethane	ND (0.196)		8260B		1	04/02/15 15:49	CYD0027	CD50244

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-201 0ft-3ft
Date Sampled: 03/27/15 09:24
Percent Solids: 39
Initial Volume: 16.4
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 1503512
ESS Laboratory Sample ID: 1503512-07
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Methanol

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Bromodichloromethane	ND (0.196)		8260B		1	04/02/15 15:49	CYD0027	CD50244
Bromoform	ND (0.196)		8260B		1	04/02/15 15:49	CYD0027	CD50244
Bromomethane	ND (0.392)		8260B		1	04/02/15 15:49	CYD0027	CD50244
Carbon Disulfide	ND (0.196)		8260B		1	04/02/15 15:49	CYD0027	CD50244
Carbon Tetrachloride	ND (0.196)		8260B		1	04/02/15 15:49	CYD0027	CD50244
Chlorobenzene	ND (0.196)		8260B		1	04/02/15 15:49	CYD0027	CD50244
Chloroethane	ND (0.392)		8260B		1	04/02/15 15:49	CYD0027	CD50244
Chloroform	ND (0.196)		8260B		1	04/02/15 15:49	CYD0027	CD50244
Chloromethane	ND (0.392)		8260B		1	04/02/15 15:49	CYD0027	CD50244
cis-1,2-Dichloroethene	ND (0.196)		8260B		1	04/02/15 15:49	CYD0027	CD50244
cis-1,3-Dichloropropene	ND (0.196)		8260B		1	04/02/15 15:49	CYD0027	CD50244
Dibromochloromethane	ND (0.196)		8260B		1	04/02/15 15:49	CYD0027	CD50244
Dibromomethane	ND (0.196)		8260B		1	04/02/15 15:49	CYD0027	CD50244
Dichlorodifluoromethane	ND (0.196)		8260B		1	04/02/15 15:49	CYD0027	CD50244
Diethyl Ether	ND (0.196)		8260B		1	04/02/15 15:49	CYD0027	CD50244
Di-isopropyl ether	ND (0.196)		8260B		1	04/02/15 15:49	CYD0027	CD50244
Ethyl tertiary-butyl ether	ND (0.196)		8260B		1	04/02/15 15:49	CYD0027	CD50244
Ethylbenzene	ND (0.196)		8260B		1	04/02/15 15:49	CYD0027	CD50244
Hexachlorobutadiene	ND (0.196)		8260B		1	04/02/15 15:49	CYD0027	CD50244
Isopropylbenzene	ND (0.196)		8260B		1	04/02/15 15:49	CYD0027	CD50244
Methyl tert-Butyl Ether	ND (0.196)		8260B		1	04/02/15 15:49	CYD0027	CD50244
Methylene Chloride	ND (0.784)		8260B		1	04/02/15 15:49	CYD0027	CD50244
Naphthalene	ND (0.196)		8260B		1	04/02/15 15:49	CYD0027	CD50244
n-Butylbenzene	ND (0.196)		8260B		1	04/02/15 15:49	CYD0027	CD50244
n-Propylbenzene	ND (0.196)		8260B		1	04/02/15 15:49	CYD0027	CD50244
sec-Butylbenzene	ND (0.196)		8260B		1	04/02/15 15:49	CYD0027	CD50244
Styrene	ND (0.196)		8260B		1	04/02/15 15:49	CYD0027	CD50244
tert-Butylbenzene	ND (0.196)		8260B		1	04/02/15 15:49	CYD0027	CD50244
Tertiary-amyl methyl ether	ND (0.196)		8260B		1	04/02/15 15:49	CYD0027	CD50244
Tetrachloroethene	ND (0.196)		8260B		1	04/02/15 15:49	CYD0027	CD50244
Tetrahydrofuran	ND (0.784)		8260B		1	04/02/15 15:49	CYD0027	CD50244
Toluene	ND (0.196)		8260B		1	04/02/15 15:49	CYD0027	CD50244

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-201 0ft-3ft
Date Sampled: 03/27/15 09:24
Percent Solids: 39
Initial Volume: 16.4
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 1503512
ESS Laboratory Sample ID: 1503512-07
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Methanol

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
trans-1,2-Dichloroethene	ND (0.196)		8260B		1	04/02/15 15:49	CYD0027	CD50244
trans-1,3-Dichloropropene	ND (0.196)		8260B		1	04/02/15 15:49	CYD0027	CD50244
Trichloroethene	ND (0.196)		8260B		1	04/02/15 15:49	CYD0027	CD50244
Trichlorofluoromethane	ND (0.196)		8260B		1	04/02/15 15:49	CYD0027	CD50244
Vinyl Chloride	ND (0.196)		8260B		1	04/02/15 15:49	CYD0027	CD50244
Xylene O	ND (0.196)		8260B		1	04/02/15 15:49	CYD0027	CD50244
Xylene P,M	ND (0.392)		8260B		1	04/02/15 15:49	CYD0027	CD50244
Xylenes (Total)	ND (0.392)		8260B		1	04/02/15 15:49		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*99 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*89 %*		*70-130*
Surrogate: Dibromofluoromethane	*113 %*		*70-130*
Surrogate: Toluene-d8	*93 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-201 0ft-3ft
Date Sampled: 03/27/15 09:24
Percent Solids: 39
Initial Volume: 30
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503512
ESS Laboratory Sample ID: 1503512-07
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 4/1/15 14:40

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.428)		8270D		1	04/02/15 19:33	CYD0021	CD50642
1,2-Dichlorobenzene	ND (0.428)		8270D		1	04/02/15 19:33	CYD0021	CD50642
1,3-Dichlorobenzene	ND (0.428)		8270D		1	04/02/15 19:33	CYD0021	CD50642
1,4-Dichlorobenzene	ND (0.428)		8270D		1	04/02/15 19:33	CYD0021	CD50642
2,4,5-Trichlorophenol	ND (0.428)		8270D		1	04/02/15 19:33	CYD0021	CD50642
2,4,6-Trichlorophenol	ND (0.428)		8270D		1	04/02/15 19:33	CYD0021	CD50642
2,4-Dichlorophenol	ND (0.428)		8270D		1	04/02/15 19:33	CYD0021	CD50642
2,4-Dimethylphenol	ND (0.428)		8270D		1	04/02/15 19:33	CYD0021	CD50642
2,4-Dinitrophenol	ND (2.15)		8270D		1	04/02/15 19:33	CYD0021	CD50642
2,4-Dinitrotoluene	ND (0.428)		8270D		1	04/02/15 19:33	CYD0021	CD50642
2,6-Dinitrotoluene	ND (0.428)		8270D		1	04/02/15 19:33	CYD0021	CD50642
2-Chloronaphthalene	ND (0.428)		8270D		1	04/02/15 19:33	CYD0021	CD50642
2-Chlorophenol	ND (0.428)		8270D		1	04/02/15 19:33	CYD0021	CD50642
2-Methylphenol	ND (0.428)		8270D		1	04/02/15 19:33	CYD0021	CD50642
2-Nitrophenol	ND (0.428)		8270D		1	04/02/15 19:33	CYD0021	CD50642
3,3´-Dichlorobenzidine	ND (0.857)		8270D		1	04/02/15 19:33	CYD0021	CD50642
3+4-Methylphenol	ND (0.857)		8270D		1	04/02/15 19:33	CYD0021	CD50642
4-Bromophenyl-phenylether	ND (0.428)		8270D		1	04/02/15 19:33	CYD0021	CD50642
4-Chloroaniline	ND (0.857)		8270D		1	04/02/15 19:33	CYD0021	CD50642
4-Nitrophenol	ND (2.15)		8270D		1	04/02/15 19:33	CYD0021	CD50642
Acetophenone	ND (0.857)		8270D		1	04/02/15 19:33	CYD0021	CD50642
Aniline	ND (2.15)		8270D		1	04/02/15 19:33	CYD0021	CD50642
Azobenzene	ND (0.428)		8270D		1	04/02/15 19:33	CYD0021	CD50642
bis(2-Chloroethoxy)methane	ND (0.428)		8270D		1	04/02/15 19:33	CYD0021	CD50642
bis(2-Chloroethyl)ether	ND (0.428)		8270D		1	04/02/15 19:33	CYD0021	CD50642
bis(2-chloroisopropyl)Ether	ND (0.428)		8270D		1	04/02/15 19:33	CYD0021	CD50642
bis(2-Ethylhexyl)phthalate	**76.0** (4.28)		8270D		10	04/04/15 4:10	CYD0021	CD50642
Butylbenzylphthalate	ND (0.428)		8270D		1	04/02/15 19:33	CYD0021	CD50642
Dibenzofuran	ND (0.428)		8270D		1	04/02/15 19:33	CYD0021	CD50642
Diethylphthalate	ND (0.428)		8270D		1	04/02/15 19:33	CYD0021	CD50642
Dimethylphthalate	ND (0.428)		8270D		1	04/02/15 19:33	CYD0021	CD50642
Di-n-butylphthalate	ND (0.428)		8270D		1	04/02/15 19:33	CYD0021	CD50642

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-201 0ft-3ft
Date Sampled: 03/27/15 09:24
Percent Solids: 39
Initial Volume: 30
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503512
ESS Laboratory Sample ID: 1503512-07
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 4/1/15 14:40

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Di-n-octylphthalate	**1.35** (0.428)		8270D		1	04/02/15 19:33	CYD0021	CD50642
Hexachlorobutadiene	ND (0.428)		8270D		1	04/02/15 19:33	CYD0021	CD50642
Hexachloroethane	ND (0.428)		8270D		1	04/02/15 19:33	CYD0021	CD50642
Isophorone	ND (0.428)		8270D		1	04/02/15 19:33	CYD0021	CD50642
Nitrobenzene	ND (0.428)		8270D		1	04/02/15 19:33	CYD0021	CD50642
N-Nitrosodimethylamine	ND (0.428)		8270D		1	04/02/15 19:33	CYD0021	CD50642
Pentachlorophenol	ND (2.15)		8270D		1	04/02/15 19:33	CYD0021	CD50642
Phenol	ND (0.428)		8270D		1	04/02/15 19:33	CYD0021	CD50642

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*49 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*72 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*51 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*60 %*		*30-130*
Surrogate: 2-Fluorophenol	*49 %*		*30-130*
Surrogate: Nitrobenzene-d5	*51 %*		*30-130*
Surrogate: Phenol-d6	*54 %*		*30-130*
Surrogate: p-Terphenyl-d14	*67 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-201 0ft-3ft
Date Sampled: 03/27/15 09:24
Percent Solids: 39

ESS Laboratory Work Order: 1503512
ESS Laboratory Sample ID: 1503512-07
Sample Matrix: Soil

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Corrosivity (pH)	**H 7.91** (N/A)		9045		1	JLK	03/28/15 10:32	S.U.	CC52811
Corrosivity (pH) Sample Temp	**Soil pH measured in water at 15.1 ºC.**								
Eh (ORP)	**H, WL** ND (N/A)		2580		1	JLK	03/28/15 10:32	mv	CC52818
Grain Size	**See Attached** (N/A)								
Hexavalent Chromium	ND (1.0)		7196A		1	JLK	03/28/15 11:00	mg/kg dry	CC52807
Percent Water	**See Attached** (N/A)								
Reactive Cyanide	ND (2.0)		7.3.3.2		1	JLK	03/31/15 10:59	mg/kg	CC53003
Reactive Sulfide	ND (2.0)		7.3.4.1		1	JLK	03/31/15 10:59	mg/kg	CC53003

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-201 0ft-3ft
Date Sampled: 03/27/15 09:24
Percent Solids: 39
Initial Volume: 30.1
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1503512
ESS Laboratory Sample ID: 1503512-07
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 3/31/15 18:19

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (32.0)		MADEP-EPH		1	JXS	04/02/15 7:55	CYC0382	CC53112
C19-C36 Aliphatics1	**64.0** (32.0)		MADEP-EPH		1	JXS	04/02/15 7:55	CYC0382	CC53112
C11-C22 Unadjusted Aromatics1	**42.9** (32.0)		EPH8270		1	VSC	04/03/15 8:22	CYD0036	CC53112
C11-C22 Aromatics1,2	**42.9** (32.0)		EPH8270			VSC	04/03/15 8:22		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*58 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*85 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*85 %*		*40-140*
Surrogate: O-Terphenyl	*76 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-106 0ft-0.5ft
Date Sampled: 03/27/15 09:24
Percent Solids: 32
Initial Volume: 30.5
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503512
ESS Laboratory Sample ID: 1503512-08
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 4/1/15 14:40

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.518)		8270D		1	04/02/15 20:09	CYD0021	CD50642
1,2-Dichlorobenzene	ND (0.518)		8270D		1	04/02/15 20:09	CYD0021	CD50642
1,3-Dichlorobenzene	ND (0.518)		8270D		1	04/02/15 20:09	CYD0021	CD50642
1,4-Dichlorobenzene	ND (0.518)		8270D		1	04/02/15 20:09	CYD0021	CD50642
2,4,5-Trichlorophenol	ND (0.518)		8270D		1	04/02/15 20:09	CYD0021	CD50642
2,4,6-Trichlorophenol	ND (0.518)		8270D		1	04/02/15 20:09	CYD0021	CD50642
2,4-Dichlorophenol	ND (0.518)		8270D		1	04/02/15 20:09	CYD0021	CD50642
2,4-Dimethylphenol	ND (0.518)		8270D		1	04/02/15 20:09	CYD0021	CD50642
2,4-Dinitrophenol	ND (2.60)		8270D		1	04/02/15 20:09	CYD0021	CD50642
2,4-Dinitrotoluene	ND (0.518)		8270D		1	04/02/15 20:09	CYD0021	CD50642
2,6-Dinitrotoluene	ND (0.518)		8270D		1	04/02/15 20:09	CYD0021	CD50642
2-Chloronaphthalene	ND (0.518)		8270D		1	04/02/15 20:09	CYD0021	CD50642
2-Chlorophenol	ND (0.518)		8270D		1	04/02/15 20:09	CYD0021	CD50642
2-Methylphenol	ND (0.518)		8270D		1	04/02/15 20:09	CYD0021	CD50642
2-Nitrophenol	ND (0.518)		8270D		1	04/02/15 20:09	CYD0021	CD50642
3,3´-Dichlorobenzidine	ND (1.04)		8270D		1	04/02/15 20:09	CYD0021	CD50642
3+4-Methylphenol	ND (1.04)		8270D		1	04/02/15 20:09	CYD0021	CD50642
4-Bromophenyl-phenylether	ND (0.518)		8270D		1	04/02/15 20:09	CYD0021	CD50642
4-Chloroaniline	ND (1.04)		8270D		1	04/02/15 20:09	CYD0021	CD50642
4-Nitrophenol	ND (2.60)		8270D		1	04/02/15 20:09	CYD0021	CD50642
Acetophenone	ND (1.04)		8270D		1	04/02/15 20:09	CYD0021	CD50642
Aniline	ND (2.60)		8270D		1	04/02/15 20:09	CYD0021	CD50642
Azobenzene	ND (0.518)		8270D		1	04/02/15 20:09	CYD0021	CD50642
bis(2-Chloroethoxy)methane	ND (0.518)		8270D		1	04/02/15 20:09	CYD0021	CD50642
bis(2-Chloroethyl)ether	ND (0.518)		8270D		1	04/02/15 20:09	CYD0021	CD50642
bis(2-chloroisopropyl)Ether	ND (0.518)		8270D		1	04/02/15 20:09	CYD0021	CD50642
bis(2-Ethylhexyl)phthalate	**1.53** (0.518)		8270D		1	04/02/15 20:09	CYD0021	CD50642
Butylbenzylphthalate	ND (0.518)		8270D		1	04/02/15 20:09	CYD0021	CD50642
Dibenzofuran	ND (0.518)		8270D		1	04/02/15 20:09	CYD0021	CD50642
Diethylphthalate	ND (0.518)		8270D		1	04/02/15 20:09	CYD0021	CD50642
Dimethylphthalate	ND (0.518)		8270D		1	04/02/15 20:09	CYD0021	CD50642
Di-n-butylphthalate	ND (0.518)		8270D		1	04/02/15 20:09	CYD0021	CD50642

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-106 0ft-0.5ft
Date Sampled: 03/27/15 09:24
Percent Solids: 32
Initial Volume: 30.5
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503512
ESS Laboratory Sample ID: 1503512-08
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 4/1/15 14:40

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Di-n-octylphthalate	ND (0.518)		8270D		1	04/02/15 20:09	CYD0021	CD50642
Hexachlorobutadiene	ND (0.518)		8270D		1	04/02/15 20:09	CYD0021	CD50642
Hexachloroethane	ND (0.518)		8270D		1	04/02/15 20:09	CYD0021	CD50642
Isophorone	ND (0.518)		8270D		1	04/02/15 20:09	CYD0021	CD50642
Nitrobenzene	ND (0.518)		8270D		1	04/02/15 20:09	CYD0021	CD50642
N-Nitrosodimethylamine	ND (0.518)		8270D		1	04/02/15 20:09	CYD0021	CD50642
Pentachlorophenol	ND (2.60)		8270D		1	04/02/15 20:09	CYD0021	CD50642
Phenol	ND (0.518)		8270D		1	04/02/15 20:09	CYD0021	CD50642

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*47 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*69 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*51 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*51 %*		*30-130*
Surrogate: 2-Fluorophenol	*48 %*		*30-130*
Surrogate: Nitrobenzene-d5	*49 %*		*30-130*
Surrogate: Phenol-d6	*53 %*		*30-130*
Surrogate: p-Terphenyl-d14	*68 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-106 0ft-0.5ft
Date Sampled: 03/27/15 09:24
Percent Solids: 32
Initial Volume: 20.2
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503512
ESS Laboratory Sample ID: 1503512-08
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 4/1/15 15:30

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	**0.046** (0.039)		8270D		1	04/04/15 19:29	CYD0062	CD50136
Acenaphthene	**0.055** (0.039)		8270D		1	04/04/15 19:29	CYD0062	CD50136
Acenaphthylene	**0.198** (0.039)		8270D		1	04/04/15 19:29	CYD0062	CD50136
Anthracene	**0.292** (0.039)		8270D		1	04/04/15 19:29	CYD0062	CD50136
Benzo(a)anthracene	**0.620** (0.039)		8270D		1	04/04/15 19:29	CYD0062	CD50136
Benzo(a)pyrene	**0.888** (0.039)		8270D		1	04/04/15 19:29	CYD0062	CD50136
Benzo(b)fluoranthene	**1.37** (0.039)		8270D		1	04/04/15 19:29	CYD0062	CD50136
Benzo(g,h,i)perylene	**0.380** (0.039)		8270D		1	04/04/15 19:29	CYD0062	CD50136
Benzo(k)fluoranthene	**0.489** (0.039)		8270D		1	04/04/15 19:29	CYD0062	CD50136
Chrysene	**0.893** (0.039)		8270D		1	04/04/15 19:29	CYD0062	CD50136
Dibenzo(a,h)Anthracene	**0.116** (0.039)		8270D		1	04/04/15 19:29	CYD0062	CD50136
Fluoranthene	**1.64** (0.039)		8270D		1	04/04/15 19:29	CYD0062	CD50136
Fluorene	**0.082** (0.039)		8270D		1	04/04/15 19:29	CYD0062	CD50136
Hexachlorobenzene	ND (0.039)		8270D		1	04/04/15 19:29	CYD0062	CD50136
Indeno(1,2,3-cd)Pyrene	**0.473** (0.039)		8270D		1	04/04/15 19:29	CYD0062	CD50136
Naphthalene	**0.234** (0.039)		8270D		1	04/04/15 19:29	CYD0062	CD50136
Phenanthrene	**0.634** (0.039)		8270D		1	04/04/15 19:29	CYD0062	CD50136
Pyrene	**1.29** (0.039)		8270D		1	04/04/15 19:29	CYD0062	CD50136

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*40 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*61 %*		*30-130*
Surrogate: Nitrobenzene-d5	*54 %*		*30-130*
Surrogate: p-Terphenyl-d14	*73 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-106 0ft-0.5ft
Date Sampled: 03/27/15 09:24
Percent Solids: 32
Initial Volume: 30.1
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1503512
ESS Laboratory Sample ID: 1503512-08
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 3/31/15 18:19

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (39.4)		MADEP-EPH		1	JXS	04/02/15 8:46	CYC0382	CC53112
C19-C36 Aliphatics1	**132** (39.4)		MADEP-EPH		1	JXS	04/02/15 8:46	CYC0382	CC53112
C11-C22 Unadjusted Aromatics1	**47.3** (39.4)		EPH8270		1	VSC	04/03/15 8:56	CYD0036	CC53112
C11-C22 Aromatics1,2	**45.1** (39.4)		EPH8270			VSC	04/03/15 8:56		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*66 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*85 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*85 %*		*40-140*
Surrogate: O-Terphenyl	*80 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-106 0.5ft-2ft
Date Sampled: 03/27/15 09:24
Percent Solids: 38
Initial Volume: 30.3
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503512
ESS Laboratory Sample ID: 1503512-09
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 4/1/15 14:40

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.439)		8270D		1	04/03/15 2:49	CYD0033	CD50642
1,2-Dichlorobenzene	ND (0.439)		8270D		1	04/03/15 2:49	CYD0033	CD50642
1,3-Dichlorobenzene	ND (0.439)		8270D		1	04/03/15 2:49	CYD0033	CD50642
1,4-Dichlorobenzene	ND (0.439)		8270D		1	04/03/15 2:49	CYD0033	CD50642
2,4,5-Trichlorophenol	ND (0.439)		8270D		1	04/03/15 2:49	CYD0033	CD50642
2,4,6-Trichlorophenol	ND (0.439)		8270D		1	04/03/15 2:49	CYD0033	CD50642
2,4-Dichlorophenol	ND (0.439)		8270D		1	04/03/15 2:49	CYD0033	CD50642
2,4-Dimethylphenol	ND (0.439)		8270D		1	04/03/15 2:49	CYD0033	CD50642
2,4-Dinitrophenol	ND (2.20)		8270D		1	04/03/15 2:49	CYD0033	CD50642
2,4-Dinitrotoluene	ND (0.439)		8270D		1	04/03/15 2:49	CYD0033	CD50642
2,6-Dinitrotoluene	ND (0.439)		8270D		1	04/03/15 2:49	CYD0033	CD50642
2-Chloronaphthalene	ND (0.439)		8270D		1	04/03/15 2:49	CYD0033	CD50642
2-Chlorophenol	ND (0.439)		8270D		1	04/03/15 2:49	CYD0033	CD50642
2-Methylphenol	ND (0.439)		8270D		1	04/03/15 2:49	CYD0033	CD50642
2-Nitrophenol	ND (0.439)		8270D		1	04/03/15 2:49	CYD0033	CD50642
3,3´-Dichlorobenzidine	ND (0.879)		8270D		1	04/03/15 2:49	CYD0033	CD50642
3+4-Methylphenol	ND (0.879)		8270D		1	04/03/15 2:49	CYD0033	CD50642
4-Bromophenyl-phenylether	ND (0.439)		8270D		1	04/03/15 2:49	CYD0033	CD50642
4-Chloroaniline	ND (0.879)		8270D		1	04/03/15 2:49	CYD0033	CD50642
4-Nitrophenol	ND (2.20)		8270D		1	04/03/15 2:49	CYD0033	CD50642
Acetophenone	ND (0.879)		8270D		1	04/03/15 2:49	CYD0033	CD50642
Aniline	ND (2.20)		8270D		1	04/03/15 2:49	CYD0033	CD50642
Azobenzene	ND (0.439)		8270D		1	04/03/15 2:49	CYD0033	CD50642
bis(2-Chloroethoxy)methane	ND (0.439)		8270D		1	04/03/15 2:49	CYD0033	CD50642
bis(2-Chloroethyl)ether	ND (0.439)		8270D		1	04/03/15 2:49	CYD0033	CD50642
bis(2-chloroisopropyl)Ether	ND (0.439)		8270D		1	04/03/15 2:49	CYD0033	CD50642
bis(2-Ethylhexyl)phthalate	**25.4** (4.39)		8270D		10	04/04/15 4:46	CYD0033	CD50642
Butylbenzylphthalate	ND (0.439)		8270D		1	04/03/15 2:49	CYD0033	CD50642
Dibenzofuran	ND (0.439)		8270D		1	04/03/15 2:49	CYD0033	CD50642
Diethylphthalate	ND (0.439)		8270D		1	04/03/15 2:49	CYD0033	CD50642
Dimethylphthalate	ND (0.439)		8270D		1	04/03/15 2:49	CYD0033	CD50642
Di-n-butylphthalate	ND (0.439)		8270D		1	04/03/15 2:49	CYD0033	CD50642

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-106 0.5ft-2ft
Date Sampled: 03/27/15 09:24
Percent Solids: 38
Initial Volume: 30.3
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503512
ESS Laboratory Sample ID: 1503512-09
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 4/1/15 14:40

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Di-n-octylphthalate	ND (0.439)		8270D		1	04/03/15 2:49	CYD0033	CD50642
Hexachlorobutadiene	ND (0.439)		8270D		1	04/03/15 2:49	CYD0033	CD50642
Hexachloroethane	ND (0.439)		8270D		1	04/03/15 2:49	CYD0033	CD50642
Isophorone	ND (0.439)		8270D		1	04/03/15 2:49	CYD0033	CD50642
Nitrobenzene	ND (0.439)		8270D		1	04/03/15 2:49	CYD0033	CD50642
N-Nitrosodimethylamine	ND (0.439)		8270D		1	04/03/15 2:49	CYD0033	CD50642
Pentachlorophenol	ND (2.20)		8270D		1	04/03/15 2:49	CYD0033	CD50642
Phenol	ND (0.439)		8270D		1	04/03/15 2:49	CYD0033	CD50642

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*37 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*70 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*39 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*55 %*		*30-130*
Surrogate: 2-Fluorophenol	*39 %*		*30-130*
Surrogate: Nitrobenzene-d5	*42 %*		*30-130*
Surrogate: Phenol-d6	*44 %*		*30-130*
Surrogate: p-Terphenyl-d14	*64 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-106 0.5ft-2ft
Date Sampled: 03/27/15 09:24
Percent Solids: 38
Initial Volume: 20.2
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503512
ESS Laboratory Sample ID: 1503512-09
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 4/1/15 15:30

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	**0.080** (0.033)		8270D		1	04/09/15 10:29	CYD0127	CD50136
Acenaphthene	**0.072** (0.033)		8270D		1	04/09/15 10:29	CYD0127	CD50136
Acenaphthylene	**0.330** (0.033)		8270D		1	04/09/15 10:29	CYD0127	CD50136
Anthracene	**0.343** (0.033)		8270D		1	04/09/15 10:29	CYD0127	CD50136
Benzo(a)anthracene	**0.624** (0.033)		8270D		1	04/09/15 10:29	CYD0127	CD50136
Benzo(a)pyrene	**0.924** (0.033)		8270D		1	04/09/15 10:29	CYD0127	CD50136
Benzo(b)fluoranthene	**1.53** (0.033)		8270D		1	04/09/15 10:29	CYD0127	CD50136
Benzo(g,h,i)perylene	**0.416** (0.033)		8270D		1	04/09/15 10:29	CYD0127	CD50136
Benzo(k)fluoranthene	**0.445** (0.033)		8270D		1	04/09/15 10:29	CYD0127	CD50136
Chrysene	**0.778** (0.033)		8270D		1	04/09/15 10:29	CYD0127	CD50136
Dibenzo(a,h)Anthracene	**0.134** (0.033)		8270D		1	04/09/15 10:29	CYD0127	CD50136
Fluoranthene	**1.22** (0.033)		8270D		1	04/09/15 10:29	CYD0127	CD50136
Fluorene	**0.108** (0.033)		8270D		1	04/09/15 10:29	CYD0127	CD50136
Hexachlorobenzene	ND (0.033)		8270D		1	04/09/15 10:29	CYD0127	CD50136
Indeno(1,2,3-cd)Pyrene	**0.550** (0.033)		8270D		1	04/09/15 10:29	CYD0127	CD50136
Naphthalene	**0.490** (0.033)		8270D		1	04/09/15 10:29	CYD0127	CD50136
Phenanthrene	**0.594** (0.033)		8270D		1	04/09/15 10:29	CYD0127	CD50136
Pyrene	**1.36** (0.033)		8270D		1	04/09/15 10:29	CYD0127	CD50136

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1,2-Dichlorobenzene-d4	*42 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*66 %*		*30-130*
Surrogate: Nitrobenzene-d5	*44 %*		*30-130*
Surrogate: p-Terphenyl-d14	*69 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-106 0.5ft-2ft
Date Sampled: 03/27/15 09:24
Percent Solids: 38
Initial Volume: 30.1
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1503512
ESS Laboratory Sample ID: 1503512-09
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 3/31/15 18:19

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	**36.2** (33.2)		MADEP-EPH		1	JXS	04/02/15 9:37	CYC0382	CC53112
C19-C36 Aliphatics1	**192** (33.2)		MADEP-EPH		1	JXS	04/02/15 9:37	CYC0382	CC53112
C11-C22 Unadjusted Aromatics1	**99.9** (33.2)		EPH8270		1	VSC	04/03/15 9:30	CYD0036	CC53112
C11-C22 Aromatics1,2	**93.7** (33.2)		EPH8270			VSC	04/03/15 9:30		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*65 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*81 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*78 %*		*40-140*
Surrogate: O-Terphenyl	*80 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-106 4ft-6ft
Date Sampled: 03/27/15 09:24
Percent Solids: 47
Initial Volume: 20.6
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503512
ESS Laboratory Sample ID: 1503512-10
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 4/1/15 15:30

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	**0.805** (0.026)		8270D		1	04/04/15 21:07	CYD0062	CD50136
Acenaphthene	**0.728** (0.026)		8270D		1	04/04/15 21:07	CYD0062	CD50136
Acenaphthylene	**0.800** (0.026)		8270D		1	04/04/15 21:07	CYD0062	CD50136
Anthracene	**1.30** (0.026)		8270D		1	04/04/15 21:07	CYD0062	CD50136
Benzo(a)anthracene	**1.15** (0.026)		8270D		1	04/04/15 21:07	CYD0062	CD50136
Benzo(a)pyrene	**0.990** (0.026)		8270D		1	04/04/15 21:07	CYD0062	CD50136
Benzo(b)fluoranthene	**1.37** (0.026)		8270D		1	04/04/15 21:07	CYD0062	CD50136
Benzo(g,h,i)perylene	**0.337** (0.026)		8270D		1	04/04/15 21:07	CYD0062	CD50136
Benzo(k)fluoranthene	**0.482** (0.026)		8270D		1	04/04/15 21:07	CYD0062	CD50136
Chrysene	**1.25** (0.026)		8270D		1	04/04/15 21:07	CYD0062	CD50136
Dibenzo(a,h)Anthracene	**0.122** (0.026)		8270D		1	04/04/15 21:07	CYD0062	CD50136
Fluoranthene	**2.19** (0.026)		8270D		1	04/04/15 21:07	CYD0062	CD50136
Fluorene	**0.248** (0.026)		8270D		1	04/04/15 21:07	CYD0062	CD50136
Hexachlorobenzene	ND (0.026)		8270D		1	04/04/15 21:07	CYD0062	CD50136
Indeno(1,2,3-cd)Pyrene	**0.402** (0.026)		8270D		1	04/04/15 21:07	CYD0062	CD50136
Naphthalene	**4.90** (0.130)		8270D		5	04/09/15 2:19	CYD0062	CD50136
Phenanthrene	**2.27** (0.026)		8270D		1	04/04/15 21:07	CYD0062	CD50136
Pyrene	**2.52** (0.026)		8270D		1	04/04/15 21:07	CYD0062	CD50136

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1,2-Dichlorobenzene-d4	*45 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*67 %*		*30-130*
Surrogate: Nitrobenzene-d5	*55 %*		*30-130*
Surrogate: p-Terphenyl-d14	*73 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-110 0.5ft-2ft
Date Sampled: 03/27/15 10:27
Percent Solids: 41
Initial Volume: 30.4
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503512
ESS Laboratory Sample ID: 1503512-11
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 4/1/15 14:40

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.402)		8270D		1	04/03/15 3:25	CYD0033	CD50642
1,2-Dichlorobenzene	ND (0.402)		8270D		1	04/03/15 3:25	CYD0033	CD50642
1,3-Dichlorobenzene	ND (0.402)		8270D		1	04/03/15 3:25	CYD0033	CD50642
1,4-Dichlorobenzene	ND (0.402)		8270D		1	04/03/15 3:25	CYD0033	CD50642
2,4,5-Trichlorophenol	ND (0.402)		8270D		1	04/03/15 3:25	CYD0033	CD50642
2,4,6-Trichlorophenol	ND (0.402)		8270D		1	04/03/15 3:25	CYD0033	CD50642
2,4-Dichlorophenol	ND (0.402)		8270D		1	04/03/15 3:25	CYD0033	CD50642
2,4-Dimethylphenol	ND (0.402)		8270D		1	04/03/15 3:25	CYD0033	CD50642
2,4-Dinitrophenol	ND (2.01)		8270D		1	04/03/15 3:25	CYD0033	CD50642
2,4-Dinitrotoluene	ND (0.402)		8270D		1	04/03/15 3:25	CYD0033	CD50642
2,6-Dinitrotoluene	ND (0.402)		8270D		1	04/03/15 3:25	CYD0033	CD50642
2-Chloronaphthalene	ND (0.402)		8270D		1	04/03/15 3:25	CYD0033	CD50642
2-Chlorophenol	ND (0.402)		8270D		1	04/03/15 3:25	CYD0033	CD50642
2-Methylphenol	ND (0.402)		8270D		1	04/03/15 3:25	CYD0033	CD50642
2-Nitrophenol	ND (0.402)		8270D		1	04/03/15 3:25	CYD0033	CD50642
3,3´-Dichlorobenzidine	ND (0.805)		8270D		1	04/03/15 3:25	CYD0033	CD50642
3+4-Methylphenol	ND (0.805)		8270D		1	04/03/15 3:25	CYD0033	CD50642
4-Bromophenyl-phenylether	ND (0.402)		8270D		1	04/03/15 3:25	CYD0033	CD50642
4-Chloroaniline	ND (0.805)		8270D		1	04/03/15 3:25	CYD0033	CD50642
4-Nitrophenol	ND (2.01)		8270D		1	04/03/15 3:25	CYD0033	CD50642
Acetophenone	ND (0.805)		8270D		1	04/03/15 3:25	CYD0033	CD50642
Aniline	ND (2.01)		8270D		1	04/03/15 3:25	CYD0033	CD50642
Azobenzene	ND (0.402)		8270D		1	04/03/15 3:25	CYD0033	CD50642
bis(2-Chloroethoxy)methane	ND (0.402)		8270D		1	04/03/15 3:25	CYD0033	CD50642
bis(2-Chloroethyl)ether	ND (0.402)		8270D		1	04/03/15 3:25	CYD0033	CD50642
bis(2-chloroisopropyl)Ether	ND (0.402)		8270D		1	04/03/15 3:25	CYD0033	CD50642
bis(2-Ethylhexyl)phthalate	**3.02** (0.402)		8270D		1	04/03/15 3:25	CYD0033	CD50642
Butylbenzylphthalate	ND (0.402)		8270D		1	04/03/15 3:25	CYD0033	CD50642
Dibenzofuran	ND (0.402)		8270D		1	04/03/15 3:25	CYD0033	CD50642
Diethylphthalate	ND (0.402)		8270D		1	04/03/15 3:25	CYD0033	CD50642
Dimethylphthalate	ND (0.402)		8270D		1	04/03/15 3:25	CYD0033	CD50642
Di-n-butylphthalate	ND (0.402)		8270D		1	04/03/15 3:25	CYD0033	CD50642

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-110 0.5ft-2ft
Date Sampled: 03/27/15 10:27
Percent Solids: 41
Initial Volume: 30.4
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503512
ESS Laboratory Sample ID: 1503512-11
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 4/1/15 14:40

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Di-n-octylphthalate	ND (0.402)		8270D		1	04/03/15 3:25	CYD0033	CD50642
Hexachlorobutadiene	ND (0.402)		8270D		1	04/03/15 3:25	CYD0033	CD50642
Hexachloroethane	ND (0.402)		8270D		1	04/03/15 3:25	CYD0033	CD50642
Isophorone	ND (0.402)		8270D		1	04/03/15 3:25	CYD0033	CD50642
Nitrobenzene	ND (0.402)		8270D		1	04/03/15 3:25	CYD0033	CD50642
N-Nitrosodimethylamine	ND (0.402)		8270D		1	04/03/15 3:25	CYD0033	CD50642
Pentachlorophenol	ND (2.01)		8270D		1	04/03/15 3:25	CYD0033	CD50642
Phenol	ND (0.402)		8270D		1	04/03/15 3:25	CYD0033	CD50642

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*39 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*77 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*41 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*50 %*		*30-130*
Surrogate: 2-Fluorophenol	*39 %*		*30-130*
Surrogate: Nitrobenzene-d5	*42 %*		*30-130*
Surrogate: Phenol-d6	*46 %*		*30-130*
Surrogate: p-Terphenyl-d14	*70 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-110 0.5ft-2ft
Date Sampled: 03/27/15 10:27
Percent Solids: 41
Initial Volume: 20.2
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503512
ESS Laboratory Sample ID: 1503512-11
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 4/1/15 15:30

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	**0.084** (0.030)		8270D		1	04/09/15 3:08	CYD0127	CD50136
Acenaphthene	**0.147** (0.030)		8270D		1	04/09/15 3:08	CYD0127	CD50136
Acenaphthylene	**0.429** (0.030)		8270D		1	04/09/15 3:08	CYD0127	CD50136
Anthracene	**0.574** (0.030)		8270D		1	04/09/15 3:08	CYD0127	CD50136
Benzo(a)anthracene	**1.40** (0.030)		8270D		1	04/09/15 3:08	CYD0127	CD50136
Benzo(a)pyrene	**1.72** (0.030)		8270D		1	04/09/15 3:08	CYD0127	CD50136
Benzo(b)fluoranthene	**2.27** (0.030)		8270D		1	04/09/15 3:08	CYD0127	CD50136
Benzo(g,h,i)perylene	**1.07** (0.030)		8270D		1	04/09/15 3:08	CYD0127	CD50136
Benzo(k)fluoranthene	**0.668** (0.030)		8270D		1	04/09/15 3:08	CYD0127	CD50136
Chrysene	**1.54** (0.030)		8270D		1	04/09/15 3:08	CYD0127	CD50136
Dibenzo(a,h)Anthracene	**0.310** (0.030)		8270D		1	04/09/15 3:08	CYD0127	CD50136
Fluoranthene	**2.52** (0.030)		8270D		1	04/09/15 3:08	CYD0127	CD50136
Fluorene	**0.194** (0.030)		8270D		1	04/09/15 3:08	CYD0127	CD50136
Hexachlorobenzene	ND (0.030)		8270D		1	04/09/15 3:08	CYD0127	CD50136
Indeno(1,2,3-cd)Pyrene	**1.32** (0.030)		8270D		1	04/09/15 3:08	CYD0127	CD50136
Naphthalene	**0.537** (0.030)		8270D		1	04/09/15 3:08	CYD0127	CD50136
Phenanthrene	**1.30** (0.030)		8270D		1	04/09/15 3:08	CYD0127	CD50136
Pyrene	**2.68** (0.030)		8270D		1	04/09/15 3:08	CYD0127	CD50136

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*45 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*67 %*		*30-130*
Surrogate: Nitrobenzene-d5	*50 %*		*30-130*
Surrogate: p-Terphenyl-d14	*90 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-110 0.5ft-2ft
Date Sampled: 03/27/15 10:27
Percent Solids: 41
Initial Volume: 30.1
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1503512
ESS Laboratory Sample ID: 1503512-11
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 3/31/15 18:19

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	**34.9** (30.5)		MADEP-EPH		1	JXS	04/02/15 10:27	CYC0382	CC53112
C19-C36 Aliphatics1	**179** (30.5)		MADEP-EPH		1	JXS	04/02/15 10:27	CYC0382	CC53112
C11-C22 Unadjusted Aromatics1	**152** (30.5)		EPH8270		1	VSC	04/03/15 10:04	CYD0036	CC53112
C11-C22 Aromatics1,2	**137** (30.5)		EPH8270			VSC	04/03/15 10:04		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*52 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*86 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*84 %*		*40-140*
Surrogate: O-Terphenyl	*71 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-110 2ft-4ft
Date Sampled: 03/27/15 10:27
Percent Solids: 71
Initial Volume: 20
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503512
ESS Laboratory Sample ID: 1503512-12
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 4/1/15 15:30

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	**0.232** (0.018)		8270D		1	04/09/15 3:57	CYD0127	CD50136
Acenaphthene	**0.175** (0.018)		8270D		1	04/09/15 3:57	CYD0127	CD50136
Acenaphthylene	**1.15** (0.018)		8270D		1	04/09/15 3:57	CYD0127	CD50136
Anthracene	**1.16** (0.018)		8270D		1	04/09/15 3:57	CYD0127	CD50136
Benzo(a)anthracene	**3.32** (0.175)		8270D		10	04/09/15 15:58	CYD0127	CD50136
Benzo(a)pyrene	**3.86** (0.175)		8270D		10	04/09/15 15:58	CYD0127	CD50136
Benzo(b)fluoranthene	**4.17** (0.175)		8270D		10	04/09/15 15:58	CYD0127	CD50136
Benzo(g,h,i)perylene	**1.34** (0.018)		8270D		1	04/09/15 3:57	CYD0127	CD50136
Benzo(k)fluoranthene	**0.807** (0.018)		8270D		1	04/09/15 3:57	CYD0127	CD50136
Chrysene	**3.56** (0.175)		8270D		10	04/09/15 15:58	CYD0127	CD50136
Dibenzo(a,h)Anthracene	**0.521** (0.018)		8270D		1	04/09/15 3:57	CYD0127	CD50136
Fluoranthene	**5.75** (0.175)		8270D		10	04/09/15 15:58	CYD0127	CD50136
Fluorene	**0.300** (0.018)		8270D		1	04/09/15 3:57	CYD0127	CD50136
Hexachlorobenzene	ND (0.018)		8270D		1	04/09/15 3:57	CYD0127	CD50136
Indeno(1,2,3-cd)Pyrene	**1.68** (0.018)		8270D		1	04/09/15 3:57	CYD0127	CD50136
Naphthalene	**0.543** (0.018)		8270D		1	04/09/15 3:57	CYD0127	CD50136
Phenanthrene	**1.51** (0.018)		8270D		1	04/09/15 3:57	CYD0127	CD50136
Pyrene	**6.26** (0.175)		8270D		10	04/09/15 15:58	CYD0127	CD50136

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*49 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*73 %*		*30-130*
Surrogate: Nitrobenzene-d5	*54 %*		*30-130*
Surrogate: p-Terphenyl-d14	*97 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-111 0ft-0.5ft
Date Sampled: 03/27/15 10:46
Percent Solids: 39
Initial Volume: 30.2
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503512
ESS Laboratory Sample ID: 1503512-13
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 4/1/15 14:40

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.423)		8270D		1	04/03/15 4:01	CYD0033	CD50642
1,2-Dichlorobenzene	ND (0.423)		8270D		1	04/03/15 4:01	CYD0033	CD50642
1,3-Dichlorobenzene	ND (0.423)		8270D		1	04/03/15 4:01	CYD0033	CD50642
1,4-Dichlorobenzene	ND (0.423)		8270D		1	04/03/15 4:01	CYD0033	CD50642
2,4,5-Trichlorophenol	ND (0.423)		8270D		1	04/03/15 4:01	CYD0033	CD50642
2,4,6-Trichlorophenol	ND (0.423)		8270D		1	04/03/15 4:01	CYD0033	CD50642
2,4-Dichlorophenol	ND (0.423)		8270D		1	04/03/15 4:01	CYD0033	CD50642
2,4-Dimethylphenol	ND (0.423)		8270D		1	04/03/15 4:01	CYD0033	CD50642
2,4-Dinitrophenol	ND (2.12)		8270D		1	04/03/15 4:01	CYD0033	CD50642
2,4-Dinitrotoluene	ND (0.423)		8270D		1	04/03/15 4:01	CYD0033	CD50642
2,6-Dinitrotoluene	ND (0.423)		8270D		1	04/03/15 4:01	CYD0033	CD50642
2-Chloronaphthalene	ND (0.423)		8270D		1	04/03/15 4:01	CYD0033	CD50642
2-Chlorophenol	ND (0.423)		8270D		1	04/03/15 4:01	CYD0033	CD50642
2-Methylphenol	ND (0.423)		8270D		1	04/03/15 4:01	CYD0033	CD50642
2-Nitrophenol	ND (0.423)		8270D		1	04/03/15 4:01	CYD0033	CD50642
3,3´-Dichlorobenzidine	ND (0.847)		8270D		1	04/03/15 4:01	CYD0033	CD50642
3+4-Methylphenol	ND (0.847)		8270D		1	04/03/15 4:01	CYD0033	CD50642
4-Bromophenyl-phenylether	ND (0.423)		8270D		1	04/03/15 4:01	CYD0033	CD50642
4-Chloroaniline	ND (0.847)		8270D		1	04/03/15 4:01	CYD0033	CD50642
4-Nitrophenol	ND (2.12)		8270D		1	04/03/15 4:01	CYD0033	CD50642
Acetophenone	ND (0.847)		8270D		1	04/03/15 4:01	CYD0033	CD50642
Aniline	ND (2.12)		8270D		1	04/03/15 4:01	CYD0033	CD50642
Azobenzene	ND (0.423)		8270D		1	04/03/15 4:01	CYD0033	CD50642
bis(2-Chloroethoxy)methane	ND (0.423)		8270D		1	04/03/15 4:01	CYD0033	CD50642
bis(2-Chloroethyl)ether	ND (0.423)		8270D		1	04/03/15 4:01	CYD0033	CD50642
bis(2-chloroisopropyl)Ether	ND (0.423)		8270D		1	04/03/15 4:01	CYD0033	CD50642
bis(2-Ethylhexyl)phthalate	**2.17** (0.423)		8270D		1	04/03/15 4:01	CYD0033	CD50642
Butylbenzylphthalate	ND (0.423)		8270D		1	04/03/15 4:01	CYD0033	CD50642
Dibenzofuran	ND (0.423)		8270D		1	04/03/15 4:01	CYD0033	CD50642
Diethylphthalate	ND (0.423)		8270D		1	04/03/15 4:01	CYD0033	CD50642
Dimethylphthalate	ND (0.423)		8270D		1	04/03/15 4:01	CYD0033	CD50642
Di-n-butylphthalate	ND (0.423)		8270D		1	04/03/15 4:01	CYD0033	CD50642

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-111 0ft-0.5ft
Date Sampled: 03/27/15 10:46
Percent Solids: 39
Initial Volume: 30.2
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503512
ESS Laboratory Sample ID: 1503512-13
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 4/1/15 14:40

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Di-n-octylphthalate	ND (0.423)		8270D		1	04/03/15 4:01	CYD0033	CD50642
Hexachlorobutadiene	ND (0.423)		8270D		1	04/03/15 4:01	CYD0033	CD50642
Hexachloroethane	ND (0.423)		8270D		1	04/03/15 4:01	CYD0033	CD50642
Isophorone	ND (0.423)		8270D		1	04/03/15 4:01	CYD0033	CD50642
Nitrobenzene	ND (0.423)		8270D		1	04/03/15 4:01	CYD0033	CD50642
N-Nitrosodimethylamine	ND (0.423)		8270D		1	04/03/15 4:01	CYD0033	CD50642
Pentachlorophenol	ND (2.12)		8270D		1	04/03/15 4:01	CYD0033	CD50642
Phenol	ND (0.423)		8270D		1	04/03/15 4:01	CYD0033	CD50642

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*45 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*79 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*49 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*58 %*		*30-130*
Surrogate: 2-Fluorophenol	*47 %*		*30-130*
Surrogate: Nitrobenzene-d5	*52 %*		*30-130*
Surrogate: Phenol-d6	*54 %*		*30-130*
Surrogate: p-Terphenyl-d14	*68 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-111 0ft-0.5ft
Date Sampled: 03/27/15 10:46
Percent Solids: 39
Initial Volume: 20
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503512
ESS Laboratory Sample ID: 1503512-13
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 4/1/15 15:30

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	**0.106** (0.032)		8270D		1	04/09/15 4:46	CYD0127	CD50136
Acenaphthene	**0.122** (0.032)		8270D		1	04/09/15 4:46	CYD0127	CD50136
Acenaphthylene	**0.452** (0.032)		8270D		1	04/09/15 4:46	CYD0127	CD50136
Anthracene	**0.567** (0.032)		8270D		1	04/09/15 4:46	CYD0127	CD50136
Benzo(a)anthracene	**1.34** (0.032)		8270D		1	04/09/15 4:46	CYD0127	CD50136
Benzo(a)pyrene	**1.82** (0.032)		8270D		1	04/09/15 4:46	CYD0127	CD50136
Benzo(b)fluoranthene	**2.45** (0.032)		8270D		1	04/09/15 4:46	CYD0127	CD50136
Benzo(g,h,i)perylene	**0.961** (0.032)		8270D		1	04/09/15 4:46	CYD0127	CD50136
Benzo(k)fluoranthene	**0.808** (0.032)		8270D		1	04/09/15 4:46	CYD0127	CD50136
Chrysene	**1.54** (0.032)		8270D		1	04/09/15 4:46	CYD0127	CD50136
Dibenzo(a,h)Anthracene	**0.294** (0.032)		8270D		1	04/09/15 4:46	CYD0127	CD50136
Fluoranthene	**2.65** (0.032)		8270D		1	04/09/15 4:46	CYD0127	CD50136
Fluorene	**0.172** (0.032)		8270D		1	04/09/15 4:46	CYD0127	CD50136
Hexachlorobenzene	ND (0.032)		8270D		1	04/09/15 4:46	CYD0127	CD50136
Indeno(1,2,3-cd)Pyrene	**1.23** (0.032)		8270D		1	04/09/15 4:46	CYD0127	CD50136
Naphthalene	**0.700** (0.032)		8270D		1	04/09/15 4:46	CYD0127	CD50136
Phenanthrene	**1.23** (0.032)		8270D		1	04/09/15 4:46	CYD0127	CD50136
Pyrene	**2.60** (0.032)		8270D		1	04/09/15 4:46	CYD0127	CD50136

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*39 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*60 %*		*30-130*
Surrogate: Nitrobenzene-d5	*45 %*		*30-130*
Surrogate: p-Terphenyl-d14	*76 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-111 0ft-0.5ft
Date Sampled: 03/27/15 10:46
Percent Solids: 39
Initial Volume: 30
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1503512
ESS Laboratory Sample ID: 1503512-13
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 3/31/15 18:19

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (32.0)		MADEP-EPH		1	JXS	04/02/15 11:18	CYC0382	CC53112
C19-C36 Aliphatics1	**137** (32.0)		MADEP-EPH		1	JXS	04/02/15 11:18	CYC0382	CC53112
C11-C22 Unadjusted Aromatics1	**175** (32.0)		EPH8270		1	VSC	04/03/15 10:38	CYD0036	CC53112
C11-C22 Aromatics1,2	**139** (32.0)		EPH8270			VSC	04/03/15 10:38		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*61 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*82 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*81 %*		*40-140*
Surrogate: O-Terphenyl	*72 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-111 0.5ft-2ft
Date Sampled: 03/27/15 10:46
Percent Solids: 44
Initial Volume: 20.3
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503512
ESS Laboratory Sample ID: 1503512-14
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 4/1/15 15:30

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	**0.277** (0.028)		8270D		1	04/09/15 5:35	CYD0127	CD50136
Acenaphthene	**0.084** (0.028)		8270D		1	04/09/15 5:35	CYD0127	CD50136
Acenaphthylene	**1.02** (0.028)		8270D		1	04/09/15 5:35	CYD0127	CD50136
Anthracene	**0.854** (0.028)		8270D		1	04/09/15 5:35	CYD0127	CD50136
Benzo(a)anthracene	**1.63** (0.028)		8270D		1	04/09/15 5:35	CYD0127	CD50136
Benzo(a)pyrene	**1.96** (0.028)		8270D		1	04/09/15 5:35	CYD0127	CD50136
Benzo(b)fluoranthene	**2.60** (0.028)		8270D		1	04/09/15 5:35	CYD0127	CD50136
Benzo(g,h,i)perylene	**0.840** (0.028)		8270D		1	04/09/15 5:35	CYD0127	CD50136
Benzo(k)fluoranthene	**0.710** (0.028)		8270D		1	04/09/15 5:35	CYD0127	CD50136
Chrysene	**1.56** (0.028)		8270D		1	04/09/15 5:35	CYD0127	CD50136
Dibenzo(a,h)Anthracene	**0.348** (0.028)		8270D		1	04/09/15 5:35	CYD0127	CD50136
Fluoranthene	**1.80** (0.028)		8270D		1	04/09/15 5:35	CYD0127	CD50136
Fluorene	**0.214** (0.028)		8270D		1	04/09/15 5:35	CYD0127	CD50136
Hexachlorobenzene	ND (0.028)		8270D		1	04/09/15 5:35	CYD0127	CD50136
Indeno(1,2,3-cd)Pyrene	**1.07** (0.028)		8270D		1	04/09/15 5:35	CYD0127	CD50136
Naphthalene	**2.24** (0.028)		8270D		1	04/09/15 5:35	CYD0127	CD50136
Phenanthrene	**0.759** (0.028)		8270D		1	04/09/15 5:35	CYD0127	CD50136
Pyrene	**4.35** (0.280)		8270D		10	04/09/15 16:47	CYD0127	CD50136

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*43 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*61 %*		*30-130*
Surrogate: Nitrobenzene-d5	*50 %*		*30-130*
Surrogate: p-Terphenyl-d14	*82 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-111 4ft-6ft
Date Sampled: 03/27/15 10:46
Percent Solids: 61
Initial Volume: 20.1
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503512
ESS Laboratory Sample ID: 1503512-15
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 4/1/15 15:30

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	ND (0.021)		8270D		1	04/08/15 5:09	CYD0108	CD50136
Acenaphthene	ND (0.021)		8270D		1	04/08/15 5:09	CYD0108	CD50136
Acenaphthylene	ND (0.021)		8270D		1	04/08/15 5:09	CYD0108	CD50136
Anthracene	ND (0.021)		8270D		1	04/08/15 5:09	CYD0108	CD50136
Benzo(a)anthracene	**0.028** (0.021)		8270D		1	04/08/15 5:09	CYD0108	CD50136
Benzo(a)pyrene	**0.034** (0.021)		8270D		1	04/08/15 5:09	CYD0108	CD50136
Benzo(b)fluoranthene	**0.043** (0.021)		8270D		1	04/08/15 5:09	CYD0108	CD50136
Benzo(g,h,i)perylene	**0.022** (0.021)		8270D		1	04/08/15 5:09	CYD0108	CD50136
Benzo(k)fluoranthene	ND (0.021)		8270D		1	04/08/15 5:09	CYD0108	CD50136
Chrysene	**0.031** (0.021)		8270D		1	04/08/15 5:09	CYD0108	CD50136
Dibenzo(a,h)Anthracene	ND (0.021)		8270D		1	04/08/15 5:09	CYD0108	CD50136
Fluoranthene	**0.051** (0.021)		8270D		1	04/08/15 5:09	CYD0108	CD50136
Fluorene	ND (0.021)		8270D		1	04/08/15 5:09	CYD0108	CD50136
Hexachlorobenzene	ND (0.021)		8270D		1	04/08/15 5:09	CYD0108	CD50136
Indeno(1,2,3-cd)Pyrene	**0.024** (0.021)		8270D		1	04/08/15 5:09	CYD0108	CD50136
Naphthalene	ND (0.021)		8270D		1	04/08/15 5:09	CYD0108	CD50136
Phenanthrene	ND (0.021)		8270D		1	04/08/15 5:09	CYD0108	CD50136
Pyrene	**0.070** (0.021)		8270D		1	04/08/15 5:09	CYD0108	CD50136

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*50 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*62 %*		*30-130*
Surrogate: Nitrobenzene-d5	*55 %*		*30-130*
Surrogate: p-Terphenyl-d14	*79 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-112 0ft-0.5ft
Date Sampled: 03/27/15 11:16
Percent Solids: 40
Initial Volume: 30
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503512
ESS Laboratory Sample ID: 1503512-16
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 4/1/15 14:40

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.414)		8270D		1	04/03/15 4:37	CYD0033	CD50642
1,2-Dichlorobenzene	ND (0.414)		8270D		1	04/03/15 4:37	CYD0033	CD50642
1,3-Dichlorobenzene	ND (0.414)		8270D		1	04/03/15 4:37	CYD0033	CD50642
1,4-Dichlorobenzene	ND (0.414)		8270D		1	04/03/15 4:37	CYD0033	CD50642
2,4,5-Trichlorophenol	ND (0.414)		8270D		1	04/03/15 4:37	CYD0033	CD50642
2,4,6-Trichlorophenol	ND (0.414)		8270D		1	04/03/15 4:37	CYD0033	CD50642
2,4-Dichlorophenol	ND (0.414)		8270D		1	04/03/15 4:37	CYD0033	CD50642
2,4-Dimethylphenol	ND (0.414)		8270D		1	04/03/15 4:37	CYD0033	CD50642
2,4-Dinitrophenol	ND (2.08)		8270D		1	04/03/15 4:37	CYD0033	CD50642
2,4-Dinitrotoluene	ND (0.414)		8270D		1	04/03/15 4:37	CYD0033	CD50642
2,6-Dinitrotoluene	ND (0.414)		8270D		1	04/03/15 4:37	CYD0033	CD50642
2-Chloronaphthalene	ND (0.414)		8270D		1	04/03/15 4:37	CYD0033	CD50642
2-Chlorophenol	ND (0.414)		8270D		1	04/03/15 4:37	CYD0033	CD50642
2-Methylphenol	ND (0.414)		8270D		1	04/03/15 4:37	CYD0033	CD50642
2-Nitrophenol	ND (0.414)		8270D		1	04/03/15 4:37	CYD0033	CD50642
3,3´-Dichlorobenzidine	ND (0.829)		8270D		1	04/03/15 4:37	CYD0033	CD50642
3+4-Methylphenol	ND (0.829)		8270D		1	04/03/15 4:37	CYD0033	CD50642
4-Bromophenyl-phenylether	ND (0.414)		8270D		1	04/03/15 4:37	CYD0033	CD50642
4-Chloroaniline	ND (0.829)		8270D		1	04/03/15 4:37	CYD0033	CD50642
4-Nitrophenol	ND (2.08)		8270D		1	04/03/15 4:37	CYD0033	CD50642
Acetophenone	ND (0.829)		8270D		1	04/03/15 4:37	CYD0033	CD50642
Aniline	ND (2.08)		8270D		1	04/03/15 4:37	CYD0033	CD50642
Azobenzene	ND (0.414)		8270D		1	04/03/15 4:37	CYD0033	CD50642
bis(2-Chloroethoxy)methane	ND (0.414)		8270D		1	04/03/15 4:37	CYD0033	CD50642
bis(2-Chloroethyl)ether	ND (0.414)		8270D		1	04/03/15 4:37	CYD0033	CD50642
bis(2-chloroisopropyl)Ether	ND (0.414)		8270D		1	04/03/15 4:37	CYD0033	CD50642
bis(2-Ethylhexyl)phthalate	**2.53** (0.414)		8270D		1	04/03/15 4:37	CYD0033	CD50642
Butylbenzylphthalate	ND (0.414)		8270D		1	04/03/15 4:37	CYD0033	CD50642
Dibenzofuran	ND (0.414)		8270D		1	04/03/15 4:37	CYD0033	CD50642
Diethylphthalate	ND (0.414)		8270D		1	04/03/15 4:37	CYD0033	CD50642
Dimethylphthalate	ND (0.414)		8270D		1	04/03/15 4:37	CYD0033	CD50642
Di-n-butylphthalate	ND (0.414)		8270D		1	04/03/15 4:37	CYD0033	CD50642

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-112 0ft-0.5ft
Date Sampled: 03/27/15 11:16
Percent Solids: 40
Initial Volume: 30
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503512
ESS Laboratory Sample ID: 1503512-16
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 4/1/15 14:40

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Di-n-octylphthalate	ND (0.414)		8270D		1	04/03/15 4:37	CYD0033	CD50642
Hexachlorobutadiene	ND (0.414)		8270D		1	04/03/15 4:37	CYD0033	CD50642
Hexachloroethane	ND (0.414)		8270D		1	04/03/15 4:37	CYD0033	CD50642
Isophorone	ND (0.414)		8270D		1	04/03/15 4:37	CYD0033	CD50642
Nitrobenzene	ND (0.414)		8270D		1	04/03/15 4:37	CYD0033	CD50642
N-Nitrosodimethylamine	ND (0.414)		8270D		1	04/03/15 4:37	CYD0033	CD50642
Pentachlorophenol	ND (2.08)		8270D		1	04/03/15 4:37	CYD0033	CD50642
Phenol	ND (0.414)		8270D		1	04/03/15 4:37	CYD0033	CD50642

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*38 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*77 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*40 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*49 %*		*30-130*
Surrogate: 2-Fluorophenol	*39 %*		*30-130*
Surrogate: Nitrobenzene-d5	*42 %*		*30-130*
Surrogate: Phenol-d6	*45 %*		*30-130*
Surrogate: p-Terphenyl-d14	*65 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-112 0ft-0.5ft
Date Sampled: 03/27/15 11:16
Percent Solids: 40
Initial Volume: 20.6
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503512
ESS Laboratory Sample ID: 1503512-16
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 4/1/15 15:30

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	**0.190** (0.030)		8270D		1	04/09/15 6:24	CYD0127	CD50136
Acenaphthene	**0.104** (0.030)		8270D		1	04/09/15 6:24	CYD0127	CD50136
Acenaphthylene	**0.484** (0.030)		8270D		1	04/09/15 6:24	CYD0127	CD50136
Anthracene	**0.556** (0.030)		8270D		1	04/09/15 6:24	CYD0127	CD50136
Benzo(a)anthracene	**1.25** (0.030)		8270D		1	04/09/15 6:24	CYD0127	CD50136
Benzo(a)pyrene	**1.76** (0.030)		8270D		1	04/09/15 6:24	CYD0127	CD50136
Benzo(b)fluoranthene	**2.43** (0.030)		8270D		1	04/09/15 6:24	CYD0127	CD50136
Benzo(g,h,i)perylene	**0.776** (0.030)		8270D		1	04/09/15 6:24	CYD0127	CD50136
Benzo(k)fluoranthene	**0.968** (0.030)		8270D		1	04/09/15 6:24	CYD0127	CD50136
Chrysene	**1.43** (0.030)		8270D		1	04/09/15 6:24	CYD0127	CD50136
Dibenzo(a,h)Anthracene	**0.251** (0.030)		8270D		1	04/09/15 6:24	CYD0127	CD50136
Fluoranthene	**2.27** (0.030)		8270D		1	04/09/15 6:24	CYD0127	CD50136
Fluorene	**0.171** (0.030)		8270D		1	04/09/15 6:24	CYD0127	CD50136
Hexachlorobenzene	ND (0.030)		8270D		1	04/09/15 6:24	CYD0127	CD50136
Indeno(1,2,3-cd)Pyrene	**0.998** (0.030)		8270D		1	04/09/15 6:24	CYD0127	CD50136
Naphthalene	**0.908** (0.030)		8270D		1	04/09/15 6:24	CYD0127	CD50136
Phenanthrene	**1.09** (0.030)		8270D		1	04/09/15 6:24	CYD0127	CD50136
Pyrene	**2.36** (0.030)		8270D		1	04/09/15 6:24	CYD0127	CD50136

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*38 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*59 %*		*30-130*
Surrogate: Nitrobenzene-d5	*44 %*		*30-130*
Surrogate: p-Terphenyl-d14	*74 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-112 0ft-0.5ft
Date Sampled: 03/27/15 11:16
Percent Solids: 40
Initial Volume: 30.1
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1503512
ESS Laboratory Sample ID: 1503512-16
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 3/31/15 18:19

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (31.0)		MADEP-EPH		1	JXS	04/02/15 12:08	CYC0382	CC53112
C19-C36 Aliphatics1	**52.9** (31.0)		MADEP-EPH		1	JXS	04/02/15 12:08	CYC0382	CC53112
C11-C22 Unadjusted Aromatics1	**50.3** (31.0)		EPH8270		1	VSC	04/03/15 11:12	CYD0036	CC53112
C11-C22 Aromatics1,2	**45.9** (31.0)		EPH8270			VSC	04/03/15 11:12		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*53 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*84 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*86 %*		*40-140*
Surrogate: O-Terphenyl	*74 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-112 4ft-6ft
Date Sampled: 03/27/15 11:16
Percent Solids: 76
Initial Volume: 30.2
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503512
ESS Laboratory Sample ID: 1503512-17
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 4/1/15 14:40

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.216)		8270D		1	04/03/15 2:13	CYD0033	CD50642
1,2-Dichlorobenzene	ND (0.216)		8270D		1	04/03/15 2:13	CYD0033	CD50642
1,3-Dichlorobenzene	ND (0.216)		8270D		1	04/03/15 2:13	CYD0033	CD50642
1,4-Dichlorobenzene	ND (0.216)		8270D		1	04/03/15 2:13	CYD0033	CD50642
2,4,5-Trichlorophenol	ND (0.216)		8270D		1	04/03/15 2:13	CYD0033	CD50642
2,4,6-Trichlorophenol	ND (0.216)		8270D		1	04/03/15 2:13	CYD0033	CD50642
2,4-Dichlorophenol	ND (0.216)		8270D		1	04/03/15 2:13	CYD0033	CD50642
2,4-Dimethylphenol	ND (0.216)		8270D		1	04/03/15 2:13	CYD0033	CD50642
2,4-Dinitrophenol	ND (1.08)		8270D		1	04/03/15 2:13	CYD0033	CD50642
2,4-Dinitrotoluene	ND (0.216)		8270D		1	04/03/15 2:13	CYD0033	CD50642
2,6-Dinitrotoluene	ND (0.216)		8270D		1	04/03/15 2:13	CYD0033	CD50642
2-Chloronaphthalene	ND (0.216)		8270D		1	04/03/15 2:13	CYD0033	CD50642
2-Chlorophenol	ND (0.216)		8270D		1	04/03/15 2:13	CYD0033	CD50642
2-Methylphenol	ND (0.216)		8270D		1	04/03/15 2:13	CYD0033	CD50642
2-Nitrophenol	ND (0.216)		8270D		1	04/03/15 2:13	CYD0033	CD50642
3,3´-Dichlorobenzidine	ND (0.433)		8270D		1	04/03/15 2:13	CYD0033	CD50642
3+4-Methylphenol	ND (0.433)		8270D		1	04/03/15 2:13	CYD0033	CD50642
4-Bromophenyl-phenylether	ND (0.216)		8270D		1	04/03/15 2:13	CYD0033	CD50642
4-Chloroaniline	ND (0.433)		8270D		1	04/03/15 2:13	CYD0033	CD50642
4-Nitrophenol	ND (1.08)		8270D		1	04/03/15 2:13	CYD0033	CD50642
Acetophenone	ND (0.433)		8270D		1	04/03/15 2:13	CYD0033	CD50642
Aniline	ND (1.08)		8270D		1	04/03/15 2:13	CYD0033	CD50642
Azobenzene	ND (0.216)		8270D		1	04/03/15 2:13	CYD0033	CD50642
bis(2-Chloroethoxy)methane	ND (0.216)		8270D		1	04/03/15 2:13	CYD0033	CD50642
bis(2-Chloroethyl)ether	ND (0.216)		8270D		1	04/03/15 2:13	CYD0033	CD50642
bis(2-chloroisopropyl)Ether	ND (0.216)		8270D		1	04/03/15 2:13	CYD0033	CD50642
bis(2-Ethylhexyl)phthalate	ND (0.216)		8270D		1	04/03/15 2:13	CYD0033	CD50642
Butylbenzylphthalate	ND (0.216)		8270D		1	04/03/15 2:13	CYD0033	CD50642
Dibenzofuran	ND (0.216)		8270D		1	04/03/15 2:13	CYD0033	CD50642
Diethylphthalate	ND (0.216)		8270D		1	04/03/15 2:13	CYD0033	CD50642
Dimethylphthalate	ND (0.216)		8270D		1	04/03/15 2:13	CYD0033	CD50642
Di-n-butylphthalate	ND (0.216)		8270D		1	04/03/15 2:13	CYD0033	CD50642

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-112 4ft-6ft
Date Sampled: 03/27/15 11:16
Percent Solids: 76
Initial Volume: 30.2
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503512
ESS Laboratory Sample ID: 1503512-17
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 4/1/15 14:40

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Di-n-octylphthalate	ND (0.216)		8270D		1	04/03/15 2:13	CYD0033	CD50642
Hexachlorobutadiene	ND (0.216)		8270D		1	04/03/15 2:13	CYD0033	CD50642
Hexachloroethane	ND (0.216)		8270D		1	04/03/15 2:13	CYD0033	CD50642
Isophorone	ND (0.216)		8270D		1	04/03/15 2:13	CYD0033	CD50642
Nitrobenzene	ND (0.216)		8270D		1	04/03/15 2:13	CYD0033	CD50642
N-Nitrosodimethylamine	ND (0.216)		8270D		1	04/03/15 2:13	CYD0033	CD50642
Pentachlorophenol	ND (1.08)		8270D		1	04/03/15 2:13	CYD0033	CD50642
Phenol	ND (0.216)		8270D		1	04/03/15 2:13	CYD0033	CD50642

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*76 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*93 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*82 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*86 %*		*30-130*
Surrogate: 2-Fluorophenol	*83 %*		*30-130*
Surrogate: Nitrobenzene-d5	*84 %*		*30-130*
Surrogate: Phenol-d6	*89 %*		*30-130*
Surrogate: p-Terphenyl-d14	*91 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-112 4ft-6ft
Date Sampled: 03/27/15 11:16
Percent Solids: 76
Initial Volume: 20.4
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503512
ESS Laboratory Sample ID: 1503512-17
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 4/1/15 15:30

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	ND (0.016)		8270D		1	04/08/15 2:44	CYD0108	CD50136
Acenaphthene	ND (0.016)		8270D		1	04/08/15 2:44	CYD0108	CD50136
Acenaphthylene	**0.032** (0.016)		8270D		1	04/08/15 2:44	CYD0108	CD50136
Anthracene	**0.095** (0.016)		8270D		1	04/08/15 2:44	CYD0108	CD50136
Benzo(a)anthracene	**0.187** (0.016)		8270D		1	04/08/15 2:44	CYD0108	CD50136
Benzo(a)pyrene	**0.182** (0.016)		8270D		1	04/08/15 2:44	CYD0108	CD50136
Benzo(b)fluoranthene	**0.188** (0.016)		8270D		1	04/08/15 2:44	CYD0108	CD50136
Benzo(g,h,i)perylene	**0.096** (0.016)		8270D		1	04/08/15 2:44	CYD0108	CD50136
Benzo(k)fluoranthene	**0.061** (0.016)		8270D		1	04/08/15 2:44	CYD0108	CD50136
Chrysene	**0.175** (0.016)		8270D		1	04/08/15 2:44	CYD0108	CD50136
Dibenzo(a,h)Anthracene	**0.023** (0.016)		8270D		1	04/08/15 2:44	CYD0108	CD50136
Fluoranthene	**0.363** (0.016)		8270D		1	04/08/15 2:44	CYD0108	CD50136
Fluorene	**0.023** (0.016)		8270D		1	04/08/15 2:44	CYD0108	CD50136
Hexachlorobenzene	ND (0.016)		8270D		1	04/08/15 2:44	CYD0108	CD50136
Indeno(1,2,3-cd)Pyrene	**0.113** (0.016)		8270D		1	04/08/15 2:44	CYD0108	CD50136
Naphthalene	**0.026** (0.016)		8270D		1	04/08/15 2:44	CYD0108	CD50136
Phenanthrene	**0.194** (0.016)		8270D		1	04/08/15 2:44	CYD0108	CD50136
Pyrene	**0.380** (0.016)		8270D		1	04/08/15 2:44	CYD0108	CD50136

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*47 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*58 %*		*30-130*
Surrogate: Nitrobenzene-d5	*50 %*		*30-130*
Surrogate: p-Terphenyl-d14	*83 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-112 4ft-6ft
Date Sampled: 03/27/15 11:16
Percent Solids: 76
Initial Volume: 30.5
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1503512
ESS Laboratory Sample ID: 1503512-17
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 3/31/15 18:19

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (16.1)		MADEP-EPH		1	JXS	04/02/15 12:59	CYC0382	CC53112
C19-C36 Aliphatics1	ND (16.1)		MADEP-EPH		1	JXS	04/02/15 12:59	CYC0382	CC53112
C11-C22 Unadjusted Aromatics1	ND (16.1)		EPH8270		1	JXS	04/01/15 21:34	CYD0009	CC53112
C11-C22 Aromatics1,2	ND (16.1)		EPH8270			JXS	04/01/15 21:34		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*49 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*84 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*84 %*		*40-140*
Surrogate: O-Terphenyl	*60 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-225 0ft-0.5ft
Date Sampled: 03/27/15 08:49
Percent Solids: 100

ESS Laboratory Work Order: 1503512
ESS Laboratory Sample ID: 1503512-18
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	**0.51** (0.44)		6020A		50	NAR	04/08/15 17:03	2.28	100	CD50408
Arsenic	**41.1** (2.19)		6010C		1	KJK	04/08/15 0:35	2.28	100	CD50408
Barium	**36.5** (2.19)		6010C		1	KJK	04/04/15 20:46	2.28	100	CD50408
Beryllium	**0.22** (0.10)		6010C		1	KJK	04/04/15 20:46	2.28	100	CD50408
Cadmium	ND (0.44)		6010C		1	KJK	04/04/15 20:46	2.28	100	CD50408
Chromium	**38.8** (0.88)		6010C		1	KJK	04/04/15 20:46	2.28	100	CD50408
Lead	**389** (4.39)		6010C		1	KJK	04/04/15 20:46	2.28	100	CD50408
Mercury	**0.319** (0.031)		7471B		1	RLA	04/06/15 22:35	0.64	40	CD50409
Nickel	**13.7** (2.19)		6010C		1	KJK	04/08/15 0:35	2.28	100	CD50408
Selenium	**2.75** (0.44)		6020A		50	NAR	04/08/15 17:03	2.28	100	CD50408
Silver	ND (0.44)		6010C		1	KJK	04/08/15 0:35	2.28	100	CD50408
Thallium	ND (0.35)		7010		4	JP	04/07/15 6:56	2.28	100	CD50408
Vanadium	**48.2** (0.88)		6010C		1	KJK	04/04/15 20:46	2.28	100	CD50408
Zinc	**202** (2.19)		6010C		1	KJK	04/04/15 20:46	2.28	100	CD50408

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-225 4ft-6ft
Date Sampled: 03/27/15 08:49
Percent Solids: 100

ESS Laboratory Work Order: 1503512
ESS Laboratory Sample ID: 1503512-19
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (4.57)		6010C		1	KJK	04/08/15 1:15	2.19	100	CD50408
Arsenic	**51.9** (2.28)		6010C		1	KJK	04/08/15 1:15	2.19	100	CD50408
Barium	**32.0** (2.28)		6010C		1	KJK	04/04/15 21:41	2.19	100	CD50408
Beryllium	**0.49** (0.10)		6010C		1	KJK	04/04/15 21:41	2.19	100	CD50408
Cadmium	ND (0.46)		6010C		1	KJK	04/04/15 21:41	2.19	100	CD50408
Chromium	**27.3** (0.91)		6010C		1	KJK	04/04/15 21:41	2.19	100	CD50408
Lead	**123** (4.57)		6010C		1	KJK	04/04/15 21:41	2.19	100	CD50408
Mercury	**0.136** (0.029)		7471B		1	RLA	04/06/15 22:51	0.68	40	CD50409
Nickel	**15.7** (2.28)		6010C		1	KJK	04/08/15 1:15	2.19	100	CD50408
Selenium	ND (4.57)		6010C		1	KJK	04/04/15 21:41	2.19	100	CD50408
Silver	ND (0.46)		6010C		1	KJK	04/08/15 1:15	2.19	100	CD50408
Thallium	ND (0.37)		7010		4	JP	04/07/15 8:00	2.19	100	CD50408
Vanadium	**33.7** (0.91)		6010C		1	KJK	04/04/15 21:41	2.19	100	CD50408
Zinc	**107** (2.28)		6010C		1	KJK	04/04/15 21:41	2.19	100	CD50408

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-225 6ft-7ft 2in
Date Sampled: 03/27/15 08:49
Percent Solids: 100

ESS Laboratory Work Order: 1503512
ESS Laboratory Sample ID: 1503512-20
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (0.45)		6020A		50	NAR	04/08/15 17:32	2.2	100	CD50408
Arsenic	**3.46** (2.27)		6010C		1	KJK	04/08/15 1:19	2.2	100	CD50408
Barium	**57.9** (2.27)		6010C		1	KJK	04/04/15 21:45	2.2	100	CD50408
Beryllium	**0.76** (0.10)		6010C		1	KJK	04/04/15 21:45	2.2	100	CD50408
Cadmium	ND (0.45)		6010C		1	KJK	04/04/15 21:45	2.2	100	CD50408
Chromium	**32.4** (0.91)		6010C		1	KJK	04/04/15 21:45	2.2	100	CD50408
Lead	**9.92** (4.55)		6010C		1	KJK	04/04/15 21:45	2.2	100	CD50408
Mercury	ND (0.029)		7471B		1	RLA	04/06/15 22:54	0.69	40	CD50409
Nickel	**23.7** (2.27)		6010C		1	KJK	04/08/15 1:19	2.2	100	CD50408
Selenium	ND (4.55)		6010C		1	KJK	04/04/15 21:45	2.2	100	CD50408
Silver	ND (0.45)		6010C		1	KJK	04/08/15 1:19	2.2	100	CD50408
Thallium	ND (0.36)		7010		4	JP	04/07/15 8:05	2.2	100	CD50408
Vanadium	**46.4** (0.91)		6010C		1	KJK	04/04/15 21:45	2.2	100	CD50408
Zinc	**52.0** (2.27)		6010C		1	KJK	04/04/15 21:45	2.2	100	CD50408

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-225 0ft-3ft
Date Sampled: 03/27/15 08:49
Percent Solids: 100

ESS Laboratory Work Order: 1503512
ESS Laboratory Sample ID: 1503512-21
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	**0.50** (0.44)		6020A		50	NAR	04/08/15 17:38	2.29	100	CD50408
Arsenic	**27.8** (2.18)		6010C		1	KJK	04/08/15 1:25	2.29	100	CD50408
Barium	**32.3** (2.18)		6010C		1	KJK	04/04/15 21:50	2.29	100	CD50408
Beryllium	**0.49** (0.10)		6010C		1	KJK	04/04/15 21:50	2.29	100	CD50408
Cadmium	ND (0.44)		6010C		1	KJK	04/04/15 21:50	2.29	100	CD50408
Chromium	**26.4** (0.87)		6010C		1	KJK	04/04/15 21:50	2.29	100	CD50408
Lead	**83.5** (4.37)		6010C		1	KJK	04/04/15 21:50	2.29	100	CD50408
Mercury	**0.628** (0.271)		7471B		10	RLA	04/07/15 0:13	0.73	40	CD50409
Nickel	**15.1** (2.18)		6010C		1	KJK	04/08/15 1:25	2.29	100	CD50408
Selenium	ND (4.37)		6010C		1	KJK	04/04/15 21:50	2.29	100	CD50408
Silver	ND (0.44)		6010C		1	KJK	04/08/15 1:25	2.29	100	CD50408
Thallium	ND (0.35)		7010		4	JP	04/07/15 8:11	2.29	100	CD50408
Vanadium	**32.8** (0.87)		6010C		1	KJK	04/04/15 21:50	2.29	100	CD50408
Zinc	**92.5** (2.18)		6010C		1	KJK	04/04/15 21:50	2.29	100	CD50408

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-201 0ft-0.5ft
Date Sampled: 03/27/15 09:24
Percent Solids: 100

ESS Laboratory Work Order: 1503512
ESS Laboratory Sample ID: 1503512-22
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	**0.54** (0.46)		6020A		50	NAR	04/08/15 17:44	2.17	100	CD50408
Arsenic	**17.0** (2.30)		6010C		1	KJK	04/08/15 1:29	2.17	100	CD50408
Barium	**60.7** (2.30)		6010C		1	KJK	04/04/15 21:54	2.17	100	CD50408
Beryllium	**0.60** (0.10)		6010C		1	KJK	04/04/15 21:54	2.17	100	CD50408
Cadmium	**1.10** (0.46)		6010C		1	KJK	04/04/15 21:54	2.17	100	CD50408
Chromium	**74.2** (0.92)		6010C		1	KJK	04/04/15 21:54	2.17	100	CD50408
Lead	**165** (4.61)		6010C		1	KJK	04/04/15 21:54	2.17	100	CD50408
Mercury	**0.114** (0.032)		7471B		1	RLA	04/06/15 22:59	0.61	40	CD50409
Nickel	**24.0** (2.30)		6010C		1	KJK	04/08/15 1:29	2.17	100	CD50408
Selenium	ND (4.61)		6010C		1	KJK	04/04/15 21:54	2.17	100	CD50408
Silver	**1.05** (0.46)		6010C		1	KJK	04/08/15 1:29	2.17	100	CD50408
Thallium	ND (0.37)		7010		4	JP	04/07/15 8:16	2.17	100	CD50408
Vanadium	**64.8** (0.92)		6010C		1	KJK	04/04/15 21:54	2.17	100	CD50408
Zinc	**304** (2.30)		6010C		1	KJK	04/04/15 21:54	2.17	100	CD50408

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-201 4ft-5ft
Date Sampled: 03/27/15 09:24
Percent Solids: 100

ESS Laboratory Work Order: 1503512
ESS Laboratory Sample ID: 1503512-23
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	**0.58** (0.44)		6020A		50	NAR	04/08/15 17:50	2.27	100	CD50408
Arsenic	**14.0** (2.20)		6010C		1	KJK	04/08/15 1:35	2.27	100	CD50408
Barium	**47.2** (2.20)		6010C		1	KJK	04/04/15 22:00	2.27	100	CD50408
Beryllium	**0.45** (0.10)		6010C		1	KJK	04/04/15 22:00	2.27	100	CD50408
Cadmium	**1.38** (0.44)		6010C		1	KJK	04/04/15 22:00	2.27	100	CD50408
Chromium	**63.5** (0.88)		6010C		1	KJK	04/04/15 22:00	2.27	100	CD50408
Lead	**178** (4.41)		6010C		1	KJK	04/04/15 22:00	2.27	100	CD50408
Mercury	**0.498** (0.026)		7471B		1	RLA	04/06/15 23:07	0.77	40	CD50409
Nickel	**22.9** (2.20)		6010C		1	KJK	04/08/15 1:35	2.27	100	CD50408
Selenium	ND (4.41)		6010C		1	KJK	04/04/15 22:00	2.27	100	CD50408
Silver	**1.36** (0.44)		6010C		1	KJK	04/08/15 1:35	2.27	100	CD50408
Thallium	ND (0.35)		7010		4	JP	04/07/15 8:22	2.27	100	CD50408
Vanadium	**90.0** (0.88)		6010C		1	KJK	04/04/15 22:00	2.27	100	CD50408
Zinc	**216** (2.20)		6010C		1	KJK	04/04/15 22:00	2.27	100	CD50408

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-201 0ft-3ft
Date Sampled: 03/27/15 09:24
Percent Solids: 100

ESS Laboratory Work Order: 1503512
ESS Laboratory Sample ID: 1503512-24
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	**0.50** (0.43)		6020A		50	NAR	04/08/15 17:56	2.3	100	CD50408
Arsenic	**20.4** (2.17)		6010C		1	KJK	04/08/15 1:40	2.3	100	CD50408
Barium	**63.6** (2.17)		6010C		1	KJK	04/04/15 22:05	2.3	100	CD50408
Beryllium	**0.62** (0.10)		6010C		1	KJK	04/04/15 22:05	2.3	100	CD50408
Cadmium	**1.54** (0.43)		6010C		1	KJK	04/04/15 22:05	2.3	100	CD50408
Chromium	**88.6** (0.87)		6010C		1	KJK	04/04/15 22:05	2.3	100	CD50408
Lead	**218** (4.35)		6010C		1	KJK	04/04/15 22:05	2.3	100	CD50408
Mercury	**0.434** (0.031)		7471B		1	RLA	04/06/15 23:10	0.64	40	CD50409
Nickel	**30.4** (2.17)		6010C		1	KJK	04/08/15 1:40	2.3	100	CD50408
Selenium	ND (4.35)		6010C		1	KJK	04/04/15 22:05	2.3	100	CD50408
Silver	**2.11** (0.43)		6010C		1	KJK	04/08/15 1:40	2.3	100	CD50408
Thallium	ND (0.35)		7010		4	JP	04/07/15 8:27	2.3	100	CD50408
Vanadium	**103** (0.87)		6010C		1	KJK	04/04/15 22:05	2.3	100	CD50408
Zinc	**307** (2.17)		6010C		1	KJK	04/04/15 22:05	2.3	100	CD50408

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-106 0ft-0.5ft
Date Sampled: 03/27/15 09:24
Percent Solids: 100

ESS Laboratory Work Order: 1503512
ESS Laboratory Sample ID: 1503512-25
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	**0.73** (0.47)		6020A		50	NAR	04/08/15 18:13	2.11	100	CD50408
Arsenic	**16.7** (2.37)		6010C		1	KJK	04/08/15 1:46	2.11	100	CD50408
Barium	**69.6** (2.37)		6010C		1	KJK	04/04/15 22:24	2.11	100	CD50408
Beryllium	**0.67** (0.10)		6010C		1	KJK	04/04/15 22:24	2.11	100	CD50408
Cadmium	**1.47** (0.47)		6010C		1	KJK	04/04/15 22:24	2.11	100	CD50408
Chromium	**85.7** (0.95)		6010C		1	KJK	04/04/15 22:24	2.11	100	CD50408
Lead	**216** (4.74)		6010C		1	KJK	04/04/15 22:24	2.11	100	CD50408
Mercury	**0.146** (0.033)		7471B		1	RLA	04/06/15 23:13	0.6	40	CD50409
Nickel	**27.6** (2.37)		6010C		1	KJK	04/08/15 1:46	2.11	100	CD50408
Selenium	ND (4.74)		6010C		1	KJK	04/04/15 22:24	2.11	100	CD50408
Silver	**1.23** (0.47)		6010C		1	KJK	04/08/15 1:46	2.11	100	CD50408
Thallium	ND (0.38)		7010		4	JP	04/07/15 8:33	2.11	100	CD50408
Vanadium	**77.0** (0.95)		6010C		1	KJK	04/04/15 22:24	2.11	100	CD50408
Zinc	**386** (2.37)		6010C		1	KJK	04/04/15 22:24	2.11	100	CD50408

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-106 0.5ft-2ft
Date Sampled: 03/27/15 09:24
Percent Solids: 100

ESS Laboratory Work Order: 1503512
ESS Laboratory Sample ID: 1503512-26
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (0.48)		6020A		50	NAR	04/08/15 18:19	2.09	100	CD50408
Arsenic	**17.2** (2.39)		6010C		1	KJK	04/08/15 1:51	2.09	100	CD50408
Barium	**71.4** (2.39)		6010C		1	KJK	04/04/15 22:29	2.09	100	CD50408
Beryllium	**0.68** (0.11)		6010C		1	KJK	04/04/15 22:29	2.09	100	CD50408
Cadmium	**1.79** (0.48)		6010C		1	KJK	04/04/15 22:29	2.09	100	CD50408
Chromium	**93.8** (0.96)		6010C		1	KJK	04/04/15 22:29	2.09	100	CD50408
Lead	**243** (4.78)		6010C		1	KJK	04/04/15 22:29	2.09	100	CD50408
Mercury	**0.682** (0.296)		7471B		10	RLA	04/07/15 0:14	0.67	40	CD50409
Nickel	**30.5** (2.39)		6010C		1	KJK	04/08/15 1:51	2.09	100	CD50408
Selenium	ND (4.78)		6010C		1	KJK	04/04/15 22:29	2.09	100	CD50408
Silver	**1.63** (0.48)		6010C		1	KJK	04/08/15 1:51	2.09	100	CD50408
Thallium	ND (0.38)		7010		4	JP	04/07/15 8:38	2.09	100	CD50408
Vanadium	**88.2** (0.96)		6010C		1	KJK	04/04/15 22:29	2.09	100	CD50408
Zinc	**396** (2.39)		6010C		1	KJK	04/04/15 22:29	2.09	100	CD50408

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-106 4ft-6ft
Date Sampled: 03/27/15 09:24
Percent Solids: 100

ESS Laboratory Work Order: 1503512
ESS Laboratory Sample ID: 1503512-27
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (0.42)		6020A		50	NAR	04/08/15 18:25	2.4	100	CD50408
Arsenic	**24.5** (2.08)		6010C		1	KJK	04/08/15 1:57	2.4	100	CD50408
Barium	**93.5** (2.08)		6010C		1	KJK	04/04/15 22:35	2.4	100	CD50408
Beryllium	**0.95** (0.09)		6010C		1	KJK	04/04/15 22:35	2.4	100	CD50408
Cadmium	**1.62** (0.42)		6010C		1	KJK	04/04/15 22:35	2.4	100	CD50408
Chromium	**86.5** (0.83)		6010C		1	KJK	04/04/15 22:35	2.4	100	CD50408
Lead	**167** (4.17)		6010C		1	KJK	04/04/15 22:35	2.4	100	CD50408
Mercury	ND (0.032)		7471B		1	RLA	04/06/15 23:21	0.62	40	CD50409
Nickel	**30.9** (2.08)		6010C		1	KJK	04/08/15 1:57	2.4	100	CD50408
Selenium	**1.91** (0.42)		6020A		50	NAR	04/08/15 18:25	2.4	100	CD50408
Silver	ND (0.42)		6010C		1	KJK	04/08/15 1:57	2.4	100	CD50408
Thallium	ND (0.33)		7010		4	JP	04/07/15 9:01	2.4	100	CD50408
Vanadium	**74.3** (0.83)		6010C		1	KJK	04/04/15 22:35	2.4	100	CD50408
Zinc	**270** (2.08)		6010C		1	KJK	04/04/15 22:35	2.4	100	CD50408

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-110 0.5ft-2ft
Date Sampled: 03/27/15 10:27
Percent Solids: 100

ESS Laboratory Work Order: 1503512
ESS Laboratory Sample ID: 1503512-28
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	**0.69** (0.43)		6020A		50	NAR	04/08/15 18:31	2.3	100	CD50408
Arsenic	**16.3** (2.17)		6010C		1	KJK	04/08/15 2:02	2.3	100	CD50408
Barium	**72.6** (2.17)		6010C		1	KJK	04/04/15 22:40	2.3	100	CD50408
Beryllium	**0.58** (0.10)		6010C		1	KJK	04/04/15 22:40	2.3	100	CD50408
Cadmium	**1.57** (0.43)		6010C		1	KJK	04/04/15 22:40	2.3	100	CD50408
Chromium	**83.6** (0.87)		6010C		1	KJK	04/04/15 22:40	2.3	100	CD50408
Lead	**218** (4.35)		6010C		1	KJK	04/04/15 22:40	2.3	100	CD50408
Mercury	**0.827** (0.309)		7471B		10	RLA	04/07/15 0:16	0.64	40	CD50409
Nickel	**29.8** (2.17)		6010C		1	KJK	04/08/15 2:02	2.3	100	CD50408
Selenium	ND (4.35)		6010C		1	KJK	04/04/15 22:40	2.3	100	CD50408
Silver	**1.52** (0.43)		6010C		1	KJK	04/08/15 2:02	2.3	100	CD50408
Thallium	ND (0.35)		7010		4	JP	04/07/15 9:06	2.3	100	CD50408
Vanadium	**82.4** (0.87)		6010C		1	KJK	04/04/15 22:40	2.3	100	CD50408
Zinc	**300** (2.17)		6010C		1	KJK	04/04/15 22:40	2.3	100	CD50408

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-110 2ft-4ft
Date Sampled: 03/27/15 10:27
Percent Solids: 100

ESS Laboratory Work Order: 1503512
ESS Laboratory Sample ID: 1503512-29
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (4.07)		6010C		1	KJK	04/08/15 2:21	2.46	100	CD50408
Arsenic	**20.0** (2.03)		6010C		1	KJK	04/08/15 2:21	2.46	100	CD50408
Barium	**36.7** (2.03)		6010C		1	KJK	04/04/15 22:46	2.46	100	CD50408
Beryllium	**0.36** (0.09)		6010C		1	KJK	04/04/15 22:46	2.46	100	CD50408
Cadmium	**0.47** (0.41)		6010C		1	KJK	04/04/15 22:46	2.46	100	CD50408
Chromium	**41.1** (0.81)		6010C		1	KJK	04/04/15 22:46	2.46	100	CD50408
Lead	**94.9** (4.07)		6010C		1	KJK	04/04/15 22:46	2.46	100	CD50408
Mercury	**0.375** (0.029)		7471B		1	RLA	04/06/15 23:26	0.69	40	CD50409
Nickel	**10.7** (2.03)		6010C		1	KJK	04/08/15 2:21	2.46	100	CD50408
Selenium	ND (4.07)		6010C		1	KJK	04/04/15 22:46	2.46	100	CD50408
Silver	ND (0.41)		6010C		1	KJK	04/08/15 2:21	2.46	100	CD50408
Thallium	ND (0.33)		7010		4	JP	04/07/15 9:12	2.46	100	CD50408
Vanadium	**24.4** (0.81)		6010C		1	KJK	04/04/15 22:46	2.46	100	CD50408
Zinc	**165** (2.03)		6010C		1	KJK	04/04/15 22:46	2.46	100	CD50408

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-111 0ft-0.5ft
Date Sampled: 03/27/15 10:46
Percent Solids: 100

ESS Laboratory Work Order: 1503512
ESS Laboratory Sample ID: 1503512-30
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	**0.59** (0.47)		6020A		50	NAR	04/08/15 18:37	2.15	100	CD50408
Arsenic	**13.5** (2.33)		6010C		1	KJK	04/07/15 21:10	2.15	100	CD50408
Barium	**66.1** (2.33)		6010C		1	KJK	04/04/15 22:50	2.15	100	CD50408
Beryllium	**0.53** (0.10)		6010C		1	KJK	04/04/15 22:50	2.15	100	CD50408
Cadmium	**1.18** (0.47)		6010C		1	KJK	04/04/15 22:50	2.15	100	CD50408
Chromium	**75.9** (0.93)		6010C		1	KJK	04/04/15 22:50	2.15	100	CD50408
Lead	**186** (4.65)		6010C		1	KJK	04/04/15 22:50	2.15	100	CD50408
Mercury	**0.846** (0.330)		7471B		10	RLA	04/07/15 0:18	0.6	40	CD50409
Nickel	**29.6** (2.33)		6010C		1	KJK	04/07/15 21:10	2.15	100	CD50408
Selenium	ND (4.65)		6010C		1	KJK	04/04/15 22:50	2.15	100	CD50408
Silver	**1.37** (0.47)		6010C		1	KJK	04/07/15 21:10	2.15	100	CD50408
Thallium	ND (0.37)		7010		4	JP	04/07/15 9:17	2.15	100	CD50408
Vanadium	**93.3** (0.93)		6010C		1	KJK	04/04/15 22:50	2.15	100	CD50408
Zinc	**274** (2.33)		6010C		1	KJK	04/04/15 22:50	2.15	100	CD50408

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-111 0.5ft-2ft
Date Sampled: 03/27/15 10:46
Percent Solids: 100

ESS Laboratory Work Order: 1503512
ESS Laboratory Sample ID: 1503512-31
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	**0.85** (0.48)		6020A		50	NAR	04/08/15 18:43	2.08	100	CD50408
Arsenic	**34.1** (2.40)		6010C		1	KJK	04/07/15 21:16	2.08	100	CD50408
Barium	**106** (2.40)		6010C		1	KJK	04/04/15 22:56	2.08	100	CD50408
Beryllium	**0.87** (0.11)		6010C		1	KJK	04/04/15 22:56	2.08	100	CD50408
Cadmium	**2.52** (0.48)		6010C		1	KJK	04/04/15 22:56	2.08	100	CD50408
Chromium	**83.9** (0.96)		6010C		1	KJK	04/04/15 22:56	2.08	100	CD50408
Lead	**211** (4.81)		6010C		1	KJK	04/04/15 22:56	2.08	100	CD50408
Mercury	**1.08** (0.066)		7471B		2	JP	04/07/15 17:45	0.6	40	CD50716
Nickel	**29.8** (2.40)		6010C		1	KJK	04/07/15 21:16	2.08	100	CD50408
Selenium	ND (4.81)		6010C		1	KJK	04/04/15 22:56	2.08	100	CD50408
Silver	ND (0.48)		6010C		1	KJK	04/07/15 21:16	2.08	100	CD50408
Thallium	ND (0.38)		7010		4	JP	04/07/15 9:23	2.08	100	CD50408
Vanadium	**66.5** (0.96)		6010C		1	KJK	04/04/15 22:56	2.08	100	CD50408
Zinc	**279** (2.40)		6010C		1	KJK	04/04/15 22:56	2.08	100	CD50408

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-111 4ft-6ft
Date Sampled: 03/27/15 10:46
Percent Solids: 100

ESS Laboratory Work Order: 1503512
ESS Laboratory Sample ID: 1503512-32
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (0.47)		6020A		50	NAR	04/08/15 18:49	2.14	100	CD50408
Arsenic	**3.07** (2.34)		6010C		1	KJK	04/07/15 21:21	2.14	100	CD50408
Barium	**30.4** (2.34)		6010C		1	KJK	04/04/15 23:01	2.14	100	CD50408
Beryllium	**0.53** (0.10)		6010C		1	KJK	04/04/15 23:01	2.14	100	CD50408
Cadmium	ND (0.47)		6010C		1	KJK	04/04/15 23:01	2.14	100	CD50408
Chromium	**25.0** (0.93)		6010C		1	KJK	04/04/15 23:01	2.14	100	CD50408
Lead	**7.27** (4.67)		6010C		1	KJK	04/04/15 23:01	2.14	100	CD50408
Mercury	ND (0.030)		7471B		1	RLA	04/06/15 23:39	0.65	40	CD50409
Nickel	**15.8** (2.34)		6010C		1	KJK	04/07/15 21:21	2.14	100	CD50408
Selenium	ND (4.67)		6010C		1	KJK	04/04/15 23:01	2.14	100	CD50408
Silver	ND (0.47)		6010C		1	KJK	04/07/15 21:21	2.14	100	CD50408
Thallium	ND (0.37)		7010		4	JP	04/07/15 9:28	2.14	100	CD50408
Vanadium	**34.5** (0.93)		6010C		1	KJK	04/04/15 23:01	2.14	100	CD50408
Zinc	**36.3** (2.34)		6010C		1	KJK	04/04/15 23:01	2.14	100	CD50408

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-112 0ft-0.5ft
Date Sampled: 03/27/15 11:16
Percent Solids: 100

ESS Laboratory Work Order: 1503512
ESS Laboratory Sample ID: 1503512-33
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (0.48)		6020A		50	NAR	04/08/15 18:54	2.1	100	CD50408
Arsenic	**15.1** (2.38)		6010C		1	KJK	04/07/15 21:25	2.1	100	CD50408
Barium	**64.8** (2.38)		6010C		1	KJK	04/04/15 23:05	2.1	100	CD50408
Beryllium	**0.55** (0.10)		6010C		1	KJK	04/04/15 23:05	2.1	100	CD50408
Cadmium	**1.19** (0.48)		6010C		1	KJK	04/04/15 23:05	2.1	100	CD50408
Chromium	**73.4** (0.95)		6010C		1	KJK	04/04/15 23:05	2.1	100	CD50408
Lead	**183** (4.76)		6010C		1	KJK	04/04/15 23:05	2.1	100	CD50408
Mercury	**0.760** (0.162)		7471B		5	RLA	04/07/15 0:19	0.61	40	CD50409
Nickel	**25.1** (2.38)		6010C		1	KJK	04/07/15 21:25	2.1	100	CD50408
Selenium	ND (4.76)		6010C		1	KJK	04/04/15 23:05	2.1	100	CD50408
Silver	**1.16** (0.48)		6010C		1	KJK	04/07/15 21:25	2.1	100	CD50408
Thallium	ND (0.38)		7010		4	JP	04/07/15 9:34	2.1	100	CD50408
Vanadium	**75.2** (0.95)		6010C		1	KJK	04/04/15 23:05	2.1	100	CD50408
Zinc	**255** (2.38)		6010C		1	KJK	04/04/15 23:05	2.1	100	CD50408

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-112 4ft-6ft
Date Sampled: 03/27/15 11:16
Percent Solids: 100

ESS Laboratory Work Order: 1503512
ESS Laboratory Sample ID: 1503512-34
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (4.46)		6010C		1	KJK	04/07/15 21:31	2.24	100	CD50408
Arsenic	**5.13** (2.23)		6010C		1	KJK	04/07/15 21:31	2.24	100	CD50408
Barium	**12.2** (2.23)		6010C		1	KJK	04/04/15 23:11	2.24	100	CD50408
Beryllium	**0.30** (0.10)		6010C		1	KJK	04/04/15 23:11	2.24	100	CD50408
Cadmium	ND (0.45)		6010C		1	KJK	04/04/15 23:11	2.24	100	CD50408
Chromium	**13.3** (0.89)		6010C		1	KJK	04/04/15 23:11	2.24	100	CD50408
Lead	**4.97** (4.46)		6010C		1	KJK	04/04/15 23:11	2.24	100	CD50408
Mercury	ND (0.028)		7471B		1	RLA	04/06/15 23:45	0.72	40	CD50409
Nickel	**8.56** (2.23)		6010C		1	KJK	04/07/15 21:31	2.24	100	CD50408
Selenium	ND (4.46)		6010C		1	KJK	04/04/15 23:11	2.24	100	CD50408
Silver	ND (0.45)		6010C		1	KJK	04/07/15 21:31	2.24	100	CD50408
Thallium	ND (0.36)		7010		4	JP	04/07/15 9:40	2.24	100	CD50408
Vanadium	**20.2** (0.89)		6010C		1	KJK	04/04/15 23:11	2.24	100	CD50408
Zinc	**19.6** (2.23)		6010C		1	KJK	04/04/15 23:11	2.24	100	CD50408

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-225 0ft-0.5ft
Date Sampled: 03/27/15 08:49
Percent Solids: 96
Initial Volume: 25.1
Final Volume: 2
Extraction Method: 3540

ESS Laboratory Work Order: 1503512
ESS Laboratory Sample ID: 1503512-35
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 4/2/15 17:45
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0083)		8082A		1	04/03/15 12:53		CD50161
Aroclor 1221	ND (0.0083)		8082A		1	04/03/15 12:53		CD50161
Aroclor 1232	ND (0.0083)		8082A		1	04/03/15 12:53		CD50161
Aroclor 1242	ND (0.0083)		8082A		1	04/03/15 12:53		CD50161
Aroclor 1248	**P 0.119** (0.0083)		8082A		1	04/03/15 12:53		CD50161
Aroclor 1254	**P 0.284** (0.0416)		8082A		5	04/03/15 14:49		CD50161
Aroclor 1260	**0.108** (0.0083)		8082A		1	04/03/15 12:53		CD50161
Aroclor 1262	ND (0.0083)		8082A		1	04/03/15 12:53		CD50161
Aroclor 1268	ND (0.0083)		8082A		1	04/03/15 12:53		CD50161

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*61 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*73 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*93 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*42 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-225 0ft-3ft
Date Sampled: 03/27/15 08:49
Percent Solids: 99
Initial Volume: 25
Final Volume: 2
Extraction Method: 3540

ESS Laboratory Work Order: 1503512
ESS Laboratory Sample ID: 1503512-36
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 4/2/15 17:45
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0081)		8082A		1	04/03/15 13:12		CD50161
Aroclor 1221	ND (0.0081)		8082A		1	04/03/15 13:12		CD50161
Aroclor 1232	ND (0.0081)		8082A		1	04/03/15 13:12		CD50161
Aroclor 1242	ND (0.0081)		8082A		1	04/03/15 13:12		CD50161
Aroclor 1248	**P 0.0388** (0.0081)		8082A		1	04/03/15 13:12		CD50161
Aroclor 1254	**0.0495** (0.0081)		8082A		1	04/03/15 13:12		CD50161
Aroclor 1260	**0.0160** (0.0081)		8082A		1	04/03/15 13:12		CD50161
Aroclor 1262	ND (0.0081)		8082A		1	04/03/15 13:12		CD50161
Aroclor 1268	ND (0.0081)		8082A		1	04/03/15 13:12		CD50161

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*52 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*49 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*47 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*34 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-201 0ft-0.5ft
Date Sampled: 03/27/15 09:24
Percent Solids: 78
Initial Volume: 3.8
Final Volume: 2
Extraction Method: 3540C

ESS Laboratory Work Order: 1503512
ESS Laboratory Sample ID: 1503512-37
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 4/3/15 17:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0671)		8082A		1	04/06/15 13:00		CD50221
Aroclor 1221	ND (0.0671)		8082A		1	04/06/15 13:00		CD50221
Aroclor 1232	ND (0.0671)		8082A		1	04/06/15 13:00		CD50221
Aroclor 1242	ND (0.0671)		8082A		1	04/06/15 13:00		CD50221
Aroclor 1248	**P 0.326** (0.0671)		8082A		1	04/06/15 13:00		CD50221
Aroclor 1254	**0.582** (0.0671)		8082A		1	04/06/15 13:00		CD50221
Aroclor 1260	**0.285** (0.0671)		8082A		1	04/06/15 13:00		CD50221
Aroclor 1262	ND (0.0671)		8082A		1	04/06/15 13:00		CD50221
Aroclor 1268	ND (0.0671)		8082A		1	04/06/15 13:00		CD50221

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*74 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*68 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*71 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*56 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-201 0ft-3ft
Date Sampled: 03/27/15 09:24
Percent Solids: 85
Initial Volume: 25.069
Final Volume: 2
Extraction Method: 3540

ESS Laboratory Work Order: 1503512
ESS Laboratory Sample ID: 1503512-38
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 4/2/15 17:45
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0094)		8082A		1	04/03/15 13:51		CD50161
Aroclor 1221	ND (0.0094)		8082A		1	04/03/15 13:51		CD50161
Aroclor 1232	ND (0.0094)		8082A		1	04/03/15 13:51		CD50161
Aroclor 1242	ND (0.0094)		8082A		1	04/03/15 13:51		CD50161
Aroclor 1248	**1.17** (0.0938)		8082A		10	04/03/15 15:46		CD50161
Aroclor 1254	**0.913** (0.0938)		8082A		10	04/03/15 15:46		CD50161
Aroclor 1260	**0.264** (0.0938)		8082A		10	04/03/15 15:46		CD50161
Aroclor 1262	ND (0.0094)		8082A		1	04/03/15 13:51		CD50161
Aroclor 1268	ND (0.0094)		8082A		1	04/03/15 13:51		CD50161

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*49 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*47 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*40 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*24 %*	*SC*	*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-201 0ft-3ft
Date Sampled: 03/27/15 09:24
Percent Solids: 85
Initial Volume: 25.069
Final Volume: 2
Extraction Method: 3540

ESS Laboratory Work Order: 1503512
ESS Laboratory Sample ID: 1503512-38RE1
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 4/2/15 17:45
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0938)		8082A		10	04/03/15 15:46		CD50161
Aroclor 1221	ND (0.0938)		8082A		10	04/03/15 15:46		CD50161
Aroclor 1232	ND (0.0938)		8082A		10	04/03/15 15:46		CD50161
Aroclor 1242	ND (0.0938)		8082A		10	04/03/15 15:46		CD50161
Aroclor 1248	**1.17** (0.0938)		8082A		10	04/03/15 15:46		CD50161
Aroclor 1254	**0.913** (0.0938)		8082A		10	04/03/15 15:46		CD50161
Aroclor 1260	**0.264** (0.0938)		8082A		10	04/03/15 15:46		CD50161
Aroclor 1262	ND (0.0938)		8082A		10	04/03/15 15:46		CD50161
Aroclor 1268	ND (0.0938)		8082A		10	04/03/15 15:46		CD50161

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*38 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*67 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*40 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*23 %*	*SC*	*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-106 0ft-0.5ft
Date Sampled: 03/27/15 09:24
Percent Solids: 90
Initial Volume: 8
Final Volume: 2
Extraction Method: 3540C

ESS Laboratory Work Order: 1503512
ESS Laboratory Sample ID: 1503512-39
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 4/6/15 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0279)		8082A		1	04/07/15 16:03		CD50616
Aroclor 1221	ND (0.0279)		8082A		1	04/07/15 16:03		CD50616
Aroclor 1232	ND (0.0279)		8082A		1	04/07/15 16:03		CD50616
Aroclor 1242	ND (0.0279)		8082A		1	04/07/15 16:03		CD50616
Aroclor 1248	**0.442** (0.0279)		8082A		1	04/07/15 16:03		CD50616
Aroclor 1254	**0.755** (0.140)		8082A		5	04/08/15 1:31		CD50616
Aroclor 1260	**0.392** (0.0279)		8082A		1	04/07/15 16:03		CD50616
Aroclor 1262	ND (0.0279)		8082A		1	04/07/15 16:03		CD50616
Aroclor 1268	ND (0.0279)		8082A		1	04/07/15 16:03		CD50616

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*108 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*64 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*68 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*66 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-106 0.5ft-2ft
Date Sampled: 03/27/15 09:24
Percent Solids: 98
Initial Volume: 25.1
Final Volume: 2
Extraction Method: 3540

ESS Laboratory Work Order: 1503512
ESS Laboratory Sample ID: 1503512-40
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 4/2/15 17:45
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.163)		8082A		20	04/03/15 15:27		CD50161
Aroclor 1221	ND (0.163)		8082A		20	04/03/15 15:27		CD50161
Aroclor 1232	ND (0.163)		8082A		20	04/03/15 15:27		CD50161
Aroclor 1242	ND (0.163)		8082A		20	04/03/15 15:27		CD50161
Aroclor 1248	**P 1.29** (0.163)		8082A		20	04/03/15 15:27		CD50161
Aroclor 1254	**2.07** (0.163)		8082A		20	04/03/15 15:27		CD50161
Aroclor 1260	**0.850** (0.163)		8082A		20	04/03/15 15:27		CD50161
Aroclor 1262	ND (0.163)		8082A		20	04/03/15 15:27		CD50161
Aroclor 1268	ND (0.163)		8082A		20	04/03/15 15:27		CD50161

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	%	SD	30-150
Surrogate: Decachlorobiphenyl [2C]	%	SD	30-150
Surrogate: Tetrachloro-m-xylene	%	SD	30-150
Surrogate: Tetrachloro-m-xylene [2C]	%	SD	30-150

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-110 0.5ft-2ft
Date Sampled: 03/27/15 10:27
Percent Solids: 96
Initial Volume: 25.5
Final Volume: 2
Extraction Method: 3540

ESS Laboratory Work Order: 1503512
ESS Laboratory Sample ID: 1503512-41
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 4/2/15 17:45
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0082)		8082A		1	04/03/15 12:42		CD50161
Aroclor 1221	ND (0.0082)		8082A		1	04/03/15 12:42		CD50161
Aroclor 1232	ND (0.0082)		8082A		1	04/03/15 12:42		CD50161
Aroclor 1242	ND (0.0082)		8082A		1	04/03/15 12:42		CD50161
Aroclor 1248	**P 0.334** (0.0820)		8082A		10	04/03/15 15:08		CD50161
Aroclor 1254	**P 0.673** (0.0820)		8082A		10	04/03/15 15:08		CD50161
Aroclor 1260	**0.316** (0.0820)		8082A		10	04/03/15 15:08		CD50161
Aroclor 1262	ND (0.0082)		8082A		1	04/03/15 12:42		CD50161
Aroclor 1268	ND (0.0082)		8082A		1	04/03/15 12:42		CD50161

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*136 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*71 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*62 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*61 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-111 0ft-0.5ft
Date Sampled: 03/27/15 10:46
Percent Solids: 93
Initial Volume: 25.3
Final Volume: 2
Extraction Method: 3540

ESS Laboratory Work Order: 1503512
ESS Laboratory Sample ID: 1503512-42
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 4/2/15 17:45
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0085)		8082A		1	04/03/15 13:00		CD50161
Aroclor 1221	ND (0.0085)		8082A		1	04/03/15 13:00		CD50161
Aroclor 1232	ND (0.0085)		8082A		1	04/03/15 13:00		CD50161
Aroclor 1242	ND (0.0085)		8082A		1	04/03/15 13:00		CD50161
Aroclor 1248	**0.540** (0.0849)		8082A		10	04/03/15 14:53		CD50161
Aroclor 1254	**0.813** (0.0849)		8082A		10	04/03/15 14:53		CD50161
Aroclor 1260	**0.381** (0.0849)		8082A		10	04/03/15 14:53		CD50161
Aroclor 1262	ND (0.0085)		8082A		1	04/03/15 13:00		CD50161
Aroclor 1268	ND (0.0085)		8082A		1	04/03/15 13:00		CD50161

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*130 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*78 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*67 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*66 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-112 0ft-0.5ft
Date Sampled: 03/27/15 11:16
Percent Solids: 83
Initial Volume: 25.4
Final Volume: 2
Extraction Method: 3540C

ESS Laboratory Work Order: 1503512
ESS Laboratory Sample ID: 1503512-43
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 4/2/15 18:15
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0095)		8082A		1	04/03/15 13:19		CD50221
Aroclor 1221	ND (0.0095)		8082A		1	04/03/15 13:19		CD50221
Aroclor 1232	ND (0.0095)		8082A		1	04/03/15 13:19		CD50221
Aroclor 1242	ND (0.0095)		8082A		1	04/03/15 13:19		CD50221
Aroclor 1248	**0.300** (0.0473)		8082A		5	04/03/15 15:12		CD50221
Aroclor 1254	**0.480** (0.0473)		8082A		5	04/03/15 15:12		CD50221
Aroclor 1260	**0.265** (0.0473)		8082A		5	04/03/15 15:12		CD50221
Aroclor 1262	ND (0.0095)		8082A		1	04/03/15 13:19		CD50221
Aroclor 1268	ND (0.0095)		8082A		1	04/03/15 13:19		CD50221

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*137 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*79 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*63 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*62 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: LC-112 4ft-6ft
Date Sampled: 03/27/15 11:16
Percent Solids: 100
Initial Volume: 25
Final Volume: 2
Extraction Method: 3540C

ESS Laboratory Work Order: 1503512
ESS Laboratory Sample ID: 1503512-44
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 4/2/15 18:15
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0080)		8082A		1	04/03/15 13:38		CD50221
Aroclor 1221	ND (0.0080)		8082A		1	04/03/15 13:38		CD50221
Aroclor 1232	ND (0.0080)		8082A		1	04/03/15 13:38		CD50221
Aroclor 1242	ND (0.0080)		8082A		1	04/03/15 13:38		CD50221
Aroclor 1248	ND (0.0080)		8082A		1	04/03/15 13:38		CD50221
Aroclor 1254	ND (0.0080)		8082A		1	04/03/15 13:38		CD50221
Aroclor 1260	ND (0.0080)		8082A		1	04/03/15 13:38		CD50221
Aroclor 1262	ND (0.0080)		8082A		1	04/03/15 13:38		CD50221
Aroclor 1268	ND (0.0080)		8082A		1	04/03/15 13:38		CD50221

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*74 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*82 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*72 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*72 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503512

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Total Metals										
Batch CD50408 - 3050B										
Blank										
Antimony	ND	5.00	mg/kg wet							
Antimony	ND	0.50	mg/kg wet							
Arsenic	ND	2.50	mg/kg wet							
Arsenic	ND	2.50	mg/kg wet							
Barium	ND	2.50	mg/kg wet							
Barium	ND	2.50	mg/kg wet							
Beryllium	ND	0.11	mg/kg wet							
Cadmium	ND	0.50	mg/kg wet							
Cadmium	ND	0.50	mg/kg wet							
Chromium	ND	1.00	mg/kg wet							
Chromium	ND	1.00	mg/kg wet							
Lead	ND	5.00	mg/kg wet							
Lead	ND	5.00	mg/kg wet							
Nickel	ND	2.50	mg/kg wet							
Selenium	ND	5.00	mg/kg wet							
Selenium	ND	5.00	mg/kg wet							
Selenium	ND	0.50	mg/kg wet							
Silver	ND	0.50	mg/kg wet							
Silver	ND	0.50	mg/kg wet							
Thallium	ND	0.25	mg/kg wet							
Vanadium	ND	1.00	mg/kg wet							
Zinc	ND	2.50	mg/kg wet							
LCS										
Antimony	59.8	1.67	mg/kg wet	49.70		120	80-120			
Antimony	53.0	16.7	mg/kg wet	49.70		107	80-120			
Arsenic	125	8.33	mg/kg wet	133.0		94	80-120			
Arsenic	125	8.33	mg/kg wet	133.0		94	80-120			
Barium	191	8.33	mg/kg wet	229.0		83	80-120			
Barium	191	8.33	mg/kg wet	229.0		83	80-120			
Beryllium	83.2	0.37	mg/kg wet	95.80		87	80-120			
Cadmium	98.9	1.67	mg/kg wet	123.0		80	73-127			
Cadmium	98.9	1.67	mg/kg wet	123.0		80	73-127			
Chromium	53.8	3.33	mg/kg wet	63.20		85	80-120			
Chromium	53.8	3.33	mg/kg wet	63.20		85	80-120			
Lead	90.1	16.7	mg/kg wet	108.0		83	80-120			
Lead	90.1	16.7	mg/kg wet	108.0		83	80-120			
Nickel	263	8.33	mg/kg wet	285.0		92	80-120			
Selenium	88.8	1.67	mg/kg wet	81.40		109	80-120			
Selenium	69.2	16.7	mg/kg wet	81.40		85	64-136			
Selenium	69.2	16.7	mg/kg wet	81.40		85	64-136			
Silver	70.7	1.67	mg/kg wet	74.80		95	80-120			
Silver	70.7	1.67	mg/kg wet	74.80		95	80-120			
Thallium	52.7	25.0	mg/kg wet	50.10		105	80-120			
Vanadium	131	3.33	mg/kg wet	148.0		88	80-120			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503512

Quality Control Data

Total Metals

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch CD50408 - 3050B										
Zinc	158	8.33	mg/kg wet	203.0		78	70-130			
LCS Dup										
Antimony	56.5	1.69	mg/kg wet	49.70		114	80-120	6	30	
Antimony	55.3	16.9	mg/kg wet	49.70		111	80-120	4	20	
Arsenic	124	8.47	mg/kg wet	133.0		93	80-120	0.9	20	
Arsenic	124	8.47	mg/kg wet	133.0		93	80-120	0.9	20	
Barium	187	8.47	mg/kg wet	229.0		82	80-120	2	20	
Barium	187	8.47	mg/kg wet	229.0		82	80-120	2	20	
Beryllium	78.9	0.37	mg/kg wet	95.80		82	80-120	5	20	
Cadmium	92.3	1.69	mg/kg wet	123.0		75	73-127	7	20	
Cadmium	92.3	1.69	mg/kg wet	123.0		75	73-127	7	20	
Chromium	50.8	3.39	mg/kg wet	63.20		80	80-120	6	20	
Chromium	50.8	3.39	mg/kg wet	63.20		80	80-120	6	20	
Lead	85.9	16.9	mg/kg wet	108.0		80	80-120	5	20	
Lead	85.9	16.9	mg/kg wet	108.0		80	80-120	5	20	
Nickel	252	8.47	mg/kg wet	285.0		88	80-120	4	20	
Selenium	64.6	16.9	mg/kg wet	81.40		79	64-136	7	20	
Selenium	84.1	1.69	mg/kg wet	81.40		103	80-120	6	30	
Selenium	64.6	16.9	mg/kg wet	81.40		79	64-136	7	20	
Silver	68.0	1.69	mg/kg wet	74.80		91	80-120	4	20	
Silver	68.0	1.69	mg/kg wet	74.80		91	80-120	4	20	
Thallium	55.2	25.4	mg/kg wet	50.10		110	80-120	5	20	
Vanadium	123	3.39	mg/kg wet	148.0		83	80-120	6	20	
Zinc	151	8.47	mg/kg wet	203.0		75	70-130	4	20	
Batch CD50409 - 7471A										
Blank										
Mercury	ND	0.033	mg/kg wet							
Mercury	ND	0.033	mg/kg wet							
LCS										
Mercury	32.3	3.60	mg/kg wet	24.90		130	51-149			
Mercury	32.3	3.60	mg/kg wet	24.90		130	51-149			
LCS Dup										
Mercury	33.2	3.47	mg/kg wet	24.90		133	51-149	3	20	
Mercury	33.2	3.47	mg/kg wet	24.90		133	51-149	3	20	
Batch CD50716 - 7471A										
Blank										
Mercury	ND	0.033	mg/kg wet							
LCS										
Mercury	34.2	3.74	mg/kg wet	24.90		137	51-149			
LCS Dup										
Mercury	34.3	3.88	mg/kg wet	24.90		138	51-149	0.4	20	
Reference										
Mercury	0.967	0.194	mg/kg wet	1.000		97	70-130			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503512

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier

5035/8260B Volatile Organic Compounds / Low Level

Batch CC53022 - 5035

Blank

1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet
1,1,1-Trichloroethane	0.0066	0.0050	mg/kg wet
1,1,2,2-Tetrachloroethane	ND	0.0020	mg/kg wet
1,1,2-Trichloroethane	ND	0.0050	mg/kg wet
1,1-Dichloroethane	ND	0.0050	mg/kg wet
1,1-Dichloroethene	ND	0.0050	mg/kg wet
1,1-Dichloropropene	ND	0.0050	mg/kg wet
1,2,3-Trichlorobenzene	ND	0.0050	mg/kg wet
1,2,3-Trichloropropane	ND	0.0050	mg/kg wet
1,2,4-Trichlorobenzene	ND	0.0050	mg/kg wet
1,2,4-Trimethylbenzene	ND	0.0050	mg/kg wet
1,2-Dibromo-3-Chloropropane	ND	0.0050	mg/kg wet
1,2-Dibromoethane	ND	0.0050	mg/kg wet
1,2-Dichlorobenzene	ND	0.0050	mg/kg wet
1,2-Dichloroethane	ND	0.0050	mg/kg wet
1,2-Dichloropropane	ND	0.0050	mg/kg wet
1,3,5-Trimethylbenzene	ND	0.0050	mg/kg wet
1,3-Dichlorobenzene	ND	0.0050	mg/kg wet
1,3-Dichloropropane	ND	0.0050	mg/kg wet
1,4-Dichlorobenzene	ND	0.0050	mg/kg wet
1,4-Dioxane	ND	0.100	mg/kg wet
2,2-Dichloropropane	ND	0.0050	mg/kg wet
2-Butanone	ND	0.0100	mg/kg wet
2-Chlorotoluene	ND	0.0050	mg/kg wet
2-Hexanone	ND	0.0100	mg/kg wet
4-Chlorotoluene	ND	0.0050	mg/kg wet
4-Isopropyltoluene	ND	0.0050	mg/kg wet
4-Methyl-2-Pentanone	ND	0.0100	mg/kg wet
Acetone	ND	0.0100	mg/kg wet
Benzene	ND	0.0050	mg/kg wet
Bromobenzene	ND	0.0050	mg/kg wet
Bromochloromethane	ND	0.0050	mg/kg wet
Bromodichloromethane	ND	0.0050	mg/kg wet
Bromoform	ND	0.0050	mg/kg wet
Bromomethane	ND	0.0100	mg/kg wet
Carbon Disulfide	ND	0.0050	mg/kg wet
Carbon Tetrachloride	ND	0.0050	mg/kg wet
Chlorobenzene	ND	0.0050	mg/kg wet
Chloroethane	ND	0.0100	mg/kg wet
Chloroform	ND	0.0050	mg/kg wet
Chloromethane	ND	0.0100	mg/kg wet
cis-1,2-Dichloroethene	ND	0.0050	mg/kg wet
cis-1,3-Dichloropropene	ND	0.0050	mg/kg wet
Dibromochloromethane	ND	0.0020	mg/kg wet

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503512

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch CC53022 - 5035										
Dibromomethane	ND	0.0050	mg/kg wet							
Dichlorodifluoromethane	ND	0.0100	mg/kg wet							
Diethyl Ether	ND	0.0050	mg/kg wet							
Di-isopropyl ether	ND	0.0050	mg/kg wet							
Ethyl tertiary-butyl ether	ND	0.0050	mg/kg wet							
Ethylbenzene	ND	0.0050	mg/kg wet							
Hexachlorobutadiene	ND	0.0050	mg/kg wet							
Isopropylbenzene	ND	0.0050	mg/kg wet							
Methyl tert-Butyl Ether	ND	0.0050	mg/kg wet							
Methylene Chloride	ND	0.0100	mg/kg wet							
Naphthalene	ND	0.0050	mg/kg wet							
n-Butylbenzene	ND	0.0050	mg/kg wet							
n-Propylbenzene	ND	0.0050	mg/kg wet							
sec-Butylbenzene	ND	0.0050	mg/kg wet							
Styrene	ND	0.0050	mg/kg wet							
tert-Butylbenzene	ND	0.0050	mg/kg wet							
Tertiary-amyl methyl ether	ND	0.0050	mg/kg wet							
Tetrachloroethene	ND	0.0050	mg/kg wet							
Tetrahydrofuran	ND	0.0050	mg/kg wet							
Toluene	ND	0.0050	mg/kg wet							
trans-1,2-Dichloroethene	ND	0.0050	mg/kg wet							
trans-1,3-Dichloropropene	ND	0.0050	mg/kg wet							
Trichloroethene	ND	0.0050	mg/kg wet							
Trichlorofluoromethane	ND	0.0050	mg/kg wet							
Vinyl Chloride	ND	0.0100	mg/kg wet							
Xylene O	ND	0.0050	mg/kg wet							
Xylene P,M	ND	0.0100	mg/kg wet							
Surrogate: 1,2-Dichloroethane-d4	*0.0461*		mg/kg wet	*0.05000*		*92*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.0457*		mg/kg wet	*0.05000*		*91*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0442*		mg/kg wet	*0.05000*		*88*	*70-130*			
Surrogate: Toluene-d8	*0.0452*		mg/kg wet	*0.05000*		*90*	*70-130*			
LCS										
1,1,1,2-Tetrachloroethane	0.0562	0.0050	mg/kg wet	0.05000		112	70-130			
1,1,1-Trichloroethane	0.0547	0.0050	mg/kg wet	0.05000		109	70-130			
1,1,2,2-Tetrachloroethane	0.0502	0.0020	mg/kg wet	0.05000		100	70-130			
1,1,2-Trichloroethane	0.0496	0.0050	mg/kg wet	0.05000		99	70-130			
1,1-Dichloroethane	0.0491	0.0050	mg/kg wet	0.05000		98	70-130			
1,1-Dichloroethene	0.0468	0.0050	mg/kg wet	0.05000		94	70-130			
1,1-Dichloropropene	0.0475	0.0050	mg/kg wet	0.05000		95	70-130			
1,2,3-Trichlorobenzene	0.0501	0.0050	mg/kg wet	0.05000		100	70-130			
1,2,3-Trichloropropane	0.0536	0.0050	mg/kg wet	0.05000		107	70-130			
1,2,4-Trichlorobenzene	0.0493	0.0050	mg/kg wet	0.05000		99	70-130			
1,2,4-Trimethylbenzene	0.0484	0.0050	mg/kg wet	0.05000		97	70-130			
1,2-Dibromo-3-Chloropropane	0.0555	0.0050	mg/kg wet	0.05000		111	70-130			
1,2-Dibromoethane	0.0520	0.0050	mg/kg wet	0.05000		104	70-130			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503512

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch CC53022 - 5035										
1,2-Dichlorobenzene	0.0482	0.0050	mg/kg wet	0.05000		96	70-130			
1,2-Dichloroethane	0.0520	0.0050	mg/kg wet	0.05000		104	70-130			
1,2-Dichloropropane	0.0478	0.0050	mg/kg wet	0.05000		96	70-130			
1,3,5-Trimethylbenzene	0.0505	0.0050	mg/kg wet	0.05000		101	70-130			
1,3-Dichlorobenzene	0.0489	0.0050	mg/kg wet	0.05000		98	70-130			
1,3-Dichloropropane	0.0543	0.0050	mg/kg wet	0.05000		109	70-130			
1,4-Dichlorobenzene	0.0487	0.0050	mg/kg wet	0.05000		97	70-130			
1,4-Dioxane	0.969	0.100	mg/kg wet	1.000		97	70-130			
2,2-Dichloropropane	0.0568	0.0050	mg/kg wet	0.05000		114	70-130			
2-Butanone	0.255	0.0100	mg/kg wet	0.2500		102	70-130			
2-Chlorotoluene	0.0493	0.0050	mg/kg wet	0.05000		99	70-130			
2-Hexanone	0.286	0.0100	mg/kg wet	0.2500		114	70-130			
4-Chlorotoluene	0.0495	0.0050	mg/kg wet	0.05000		99	70-130			
4-Isopropyltoluene	0.0486	0.0050	mg/kg wet	0.05000		97	70-130			
4-Methyl-2-Pentanone	0.259	0.0100	mg/kg wet	0.2500		104	70-130			
Acetone	0.284	0.0100	mg/kg wet	0.2500		113	70-130			
Benzene	0.0494	0.0050	mg/kg wet	0.05000		99	70-130			
Bromobenzene	0.0491	0.0050	mg/kg wet	0.05000		98	70-130			
Bromochloromethane	0.0504	0.0050	mg/kg wet	0.05000		101	70-130			
Bromodichloromethane	0.0537	0.0050	mg/kg wet	0.05000		107	70-130			
Bromoform	0.0520	0.0050	mg/kg wet	0.05000		104	70-130			
Bromomethane	0.0912	0.0100	mg/kg wet	0.05000		182	70-130			B+
Carbon Disulfide	0.0545	0.0050	mg/kg wet	0.05000		109	70-130			
Carbon Tetrachloride	0.0576	0.0050	mg/kg wet	0.05000		115	70-130			
Chlorobenzene	0.0500	0.0050	mg/kg wet	0.05000		100	70-130			
Chloroethane	0.0458	0.0100	mg/kg wet	0.05000		92	70-130			
Chloroform	0.0520	0.0050	mg/kg wet	0.05000		104	70-130			
Chloromethane	0.0573	0.0100	mg/kg wet	0.05000		115	70-130			
cis-1,2-Dichloroethene	0.0506	0.0050	mg/kg wet	0.05000		101	70-130			
cis-1,3-Dichloropropene	0.0569	0.0050	mg/kg wet	0.05000		114	70-130			
Dibromochloromethane	0.0516	0.0020	mg/kg wet	0.05000		103	70-130			
Dibromomethane	0.0516	0.0050	mg/kg wet	0.05000		103	70-130			
Dichlorodifluoromethane	0.0541	0.0100	mg/kg wet	0.05000		108	70-130			
Diethyl Ether	0.0504	0.0050	mg/kg wet	0.05000		101	70-130			
Di-isopropyl ether	0.0488	0.0050	mg/kg wet	0.05000		98	70-130			
Ethyl tertiary-butyl ether	0.0485	0.0050	mg/kg wet	0.05000		97	70-130			
Ethylbenzene	0.0505	0.0050	mg/kg wet	0.05000		101	70-130			
Hexachlorobutadiene	0.0550	0.0050	mg/kg wet	0.05000		110	70-130			
Isopropylbenzene	0.0489	0.0050	mg/kg wet	0.05000		98	70-130			
Methyl tert-Butyl Ether	0.0509	0.0050	mg/kg wet	0.05000		102	70-130			
Methylene Chloride	0.0497	0.0100	mg/kg wet	0.05000		99	70-130			
Naphthalene	0.0452	0.0050	mg/kg wet	0.05000		90	70-130			
n-Butylbenzene	0.0497	0.0050	mg/kg wet	0.05000		99	70-130			
n-Propylbenzene	0.0484	0.0050	mg/kg wet	0.05000		97	70-130			
sec-Butylbenzene	0.0489	0.0050	mg/kg wet	0.05000		98	70-130			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503512

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch CC53022 - 5035										
Styrene	0.0507	0.0050	mg/kg wet	0.05000		101	70-130			
tert-Butylbenzene	0.0486	0.0050	mg/kg wet	0.05000		97	70-130			
Tertiary-amyl methyl ether	0.0506	0.0050	mg/kg wet	0.05000		101	70-130			
Tetrachloroethene	0.0511	0.0050	mg/kg wet	0.05000		102	70-130			
Tetrahydrofuran	0.0487	0.0050	mg/kg wet	0.05000		97	70-130			
Toluene	0.0491	0.0050	mg/kg wet	0.05000		98	70-130			
trans-1,2-Dichloroethene	0.0457	0.0050	mg/kg wet	0.05000		91	70-130			
trans-1,3-Dichloropropene	0.0565	0.0050	mg/kg wet	0.05000		113	70-130			
Trichloroethene	0.0496	0.0050	mg/kg wet	0.05000		99	70-130			
Trichlorofluoromethane	0.0474	0.0050	mg/kg wet	0.05000		95	70-130			
Vinyl Chloride	0.0519	0.0100	mg/kg wet	0.05000		104	70-130			
Xylene O	0.0498	0.0050	mg/kg wet	0.05000		100	70-130			
Xylene P,M	0.101	0.0100	mg/kg wet	0.1000		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0505*		mg/kg wet	*0.05000*		*101*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.0481*		mg/kg wet	*0.05000*		*96*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0480*		mg/kg wet	*0.05000*		*96*	*70-130*			
Surrogate: Toluene-d8	*0.0497*		mg/kg wet	*0.05000*		*99*	*70-130*			
LCS Dup										
1,1,1,2-Tetrachloroethane	0.0502	0.0050	mg/kg wet	0.05000		100	70-130	11	25	
1,1,1-Trichloroethane	0.0503	0.0050	mg/kg wet	0.05000		101	70-130	8	25	
1,1,2,2-Tetrachloroethane	0.0453	0.0020	mg/kg wet	0.05000		91	70-130	10	25	
1,1,2-Trichloroethane	0.0436	0.0050	mg/kg wet	0.05000		87	70-130	13	25	
1,1-Dichloroethane	0.0438	0.0050	mg/kg wet	0.05000		88	70-130	11	25	
1,1-Dichloroethene	0.0421	0.0050	mg/kg wet	0.05000		84	70-130	11	25	
1,1-Dichloropropene	0.0429	0.0050	mg/kg wet	0.05000		86	70-130	10	25	
1,2,3-Trichlorobenzene	0.0474	0.0050	mg/kg wet	0.05000		95	70-130	6	25	
1,2,3-Trichloropropane	0.0488	0.0050	mg/kg wet	0.05000		98	70-130	10	25	
1,2,4-Trichlorobenzene	0.0470	0.0050	mg/kg wet	0.05000		94	70-130	5	25	
1,2,4-Trimethylbenzene	0.0450	0.0050	mg/kg wet	0.05000		90	70-130	7	25	
1,2-Dibromo-3-Chloropropane	0.123	0.0050	mg/kg wet	0.05000		245	70-130	75	25	B+, D+
1,2-Dibromoethane	0.0459	0.0050	mg/kg wet	0.05000		92	70-130	13	25	
1,2-Dichlorobenzene	0.0448	0.0050	mg/kg wet	0.05000		90	70-130	7	25	
1,2-Dichloroethane	0.0461	0.0050	mg/kg wet	0.05000		92	70-130	12	25	
1,2-Dichloropropane	0.0429	0.0050	mg/kg wet	0.05000		86	70-130	11	25	
1,3,5-Trimethylbenzene	0.0470	0.0050	mg/kg wet	0.05000		94	70-130	7	25	
1,3-Dichlorobenzene	0.0456	0.0050	mg/kg wet	0.05000		91	70-130	7	25	
1,3-Dichloropropane	0.0480	0.0050	mg/kg wet	0.05000		96	70-130	12	25	
1,4-Dichlorobenzene	0.0457	0.0050	mg/kg wet	0.05000		91	70-130	6	25	
1,4-Dioxane	0.914	0.100	mg/kg wet	1.000		91	70-130	6	20	
2,2-Dichloropropane	0.0496	0.0050	mg/kg wet	0.05000		99	70-130	14	25	
2-Butanone	0.223	0.0100	mg/kg wet	0.2500		89	70-130	13	25	
2-Chlorotoluene	0.0453	0.0050	mg/kg wet	0.05000		91	70-130	8	25	
2-Hexanone	0.244	0.0100	mg/kg wet	0.2500		98	70-130	16	25	
4-Chlorotoluene	0.0467	0.0050	mg/kg wet	0.05000		93	70-130	6	25	
4-Isopropyltoluene	0.0455	0.0050	mg/kg wet	0.05000		91	70-130	7	25	

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503512

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch CC53022 - 5035										
4-Methyl-2-Pentanone	0.227	0.0100	mg/kg wet	0.2500		91	70-130	13	25	
Acetone	0.254	0.0100	mg/kg wet	0.2500		101	70-130	11	25	
Benzene	0.0441	0.0050	mg/kg wet	0.05000		88	70-130	11	25	
Bromobenzene	0.0461	0.0050	mg/kg wet	0.05000		92	70-130	6	25	
Bromochloromethane	0.0460	0.0050	mg/kg wet	0.05000		92	70-130	9	25	
Bromodichloromethane	0.0483	0.0050	mg/kg wet	0.05000		97	70-130	11	25	
Bromoform	0.0475	0.0050	mg/kg wet	0.05000		95	70-130	9	25	
Bromomethane	0.0771	0.0100	mg/kg wet	0.05000		154	70-130	17	25	B+
Carbon Disulfide	0.0479	0.0050	mg/kg wet	0.05000		96	70-130	13	25	
Carbon Tetrachloride	0.0516	0.0050	mg/kg wet	0.05000		103	70-130	11	25	
Chlorobenzene	0.0452	0.0050	mg/kg wet	0.05000		90	70-130	10	25	
Chloroethane	0.0422	0.0100	mg/kg wet	0.05000		84	70-130	8	25	
Chloroform	0.0464	0.0050	mg/kg wet	0.05000		93	70-130	11	25	
Chloromethane	0.0524	0.0100	mg/kg wet	0.05000		105	70-130	9	25	
cis-1,2-Dichloroethene	0.0452	0.0050	mg/kg wet	0.05000		90	70-130	11	25	
cis-1,3-Dichloropropene	0.0513	0.0050	mg/kg wet	0.05000		103	70-130	10	25	
Dibromochloromethane	0.0469	0.0020	mg/kg wet	0.05000		94	70-130	10	25	
Dibromomethane	0.0452	0.0050	mg/kg wet	0.05000		90	70-130	13	25	
Dichlorodifluoromethane	0.0478	0.0100	mg/kg wet	0.05000		96	70-130	12	25	
Diethyl Ether	0.0449	0.0050	mg/kg wet	0.05000		90	70-130	12	25	
Di-isopropyl ether	0.0430	0.0050	mg/kg wet	0.05000		86	70-130	13	25	
Ethyl tertiary-butyl ether	0.0410	0.0050	mg/kg wet	0.05000		82	70-130	17	25	
Ethylbenzene	0.0452	0.0050	mg/kg wet	0.05000		90	70-130	11	25	
Hexachlorobutadiene	0.0525	0.0050	mg/kg wet	0.05000		105	70-130	5	25	
Isopropylbenzene	0.0456	0.0050	mg/kg wet	0.05000		91	70-130	7	25	
Methyl tert-Butyl Ether	0.0442	0.0050	mg/kg wet	0.05000		88	70-130	14	25	
Methylene Chloride	0.0428	0.0100	mg/kg wet	0.05000		86	70-130	15	25	
Naphthalene	0.0422	0.0050	mg/kg wet	0.05000		84	70-130	7	25	
n-Butylbenzene	0.0466	0.0050	mg/kg wet	0.05000		93	70-130	7	25	
n-Propylbenzene	0.0452	0.0050	mg/kg wet	0.05000		90	70-130	7	25	
sec-Butylbenzene	0.0455	0.0050	mg/kg wet	0.05000		91	70-130	7	25	
Styrene	0.0458	0.0050	mg/kg wet	0.05000		92	70-130	10	25	
tert-Butylbenzene	0.0459	0.0050	mg/kg wet	0.05000		92	70-130	6	25	
Tertiary-amyl methyl ether	0.0429	0.0050	mg/kg wet	0.05000		86	70-130	16	25	
Tetrachloroethene	0.0454	0.0050	mg/kg wet	0.05000		91	70-130	12	25	
Tetrahydrofuran	0.0407	0.0050	mg/kg wet	0.05000		81	70-130	18	25	
Toluene	0.0441	0.0050	mg/kg wet	0.05000		88	70-130	11	25	
trans-1,2-Dichloroethene	0.0404	0.0050	mg/kg wet	0.05000		81	70-130	12	25	
trans-1,3-Dichloropropene	0.0503	0.0050	mg/kg wet	0.05000		101	70-130	12	25	
Trichloroethene	0.0441	0.0050	mg/kg wet	0.05000		88	70-130	12	25	
Trichlorofluoromethane	0.0429	0.0050	mg/kg wet	0.05000		86	70-130	10	25	
Vinyl Chloride	0.0482	0.0100	mg/kg wet	0.05000		96	70-130	7	25	
Xylene O	0.0448	0.0050	mg/kg wet	0.05000		90	70-130	11	25	
Xylene P,M	0.0909	0.0100	mg/kg wet	0.1000		91	70-130	10	25	
Surrogate: 1,2-Dichloroethane-d4	*0.0477*		mg/kg wet	*0.05000*		*95*	*70-130*			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503512

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch CC53022 - 5035										
Surrogate: 4-Bromofluorobenzene	*0.0468*		mg/kg wet	*0.05000*		*94*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0464*		mg/kg wet	*0.05000*		*93*	*70-130*			
Surrogate: Toluene-d8	*0.0483*		mg/kg wet	*0.05000*		*97*	*70-130*			
Batch CC53120 - 5035										
Blank										
1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet							
1,1,1-Trichloroethane	ND	0.0050	mg/kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0020	mg/kg wet							
1,1,2-Trichloroethane	ND	0.0050	mg/kg wet							
1,1-Dichloroethane	ND	0.0050	mg/kg wet							
1,1-Dichloroethene	ND	0.0050	mg/kg wet							
1,1-Dichloropropene	ND	0.0050	mg/kg wet							
1,2,3-Trichlorobenzene	ND	0.0050	mg/kg wet							
1,2,3-Trichloropropane	ND	0.0050	mg/kg wet							
1,2,4-Trichlorobenzene	ND	0.0050	mg/kg wet							
1,2,4-Trimethylbenzene	ND	0.0050	mg/kg wet							
1,2-Dibromo-3-Chloropropane	ND	0.0050	mg/kg wet							
1,2-Dibromoethane	ND	0.0050	mg/kg wet							
1,2-Dichlorobenzene	ND	0.0050	mg/kg wet							
1,2-Dichloroethane	ND	0.0050	mg/kg wet							
1,2-Dichloropropane	ND	0.0050	mg/kg wet							
1,3,5-Trimethylbenzene	ND	0.0050	mg/kg wet							
1,3-Dichlorobenzene	ND	0.0050	mg/kg wet							
1,3-Dichloropropane	ND	0.0050	mg/kg wet							
1,4-Dichlorobenzene	ND	0.0050	mg/kg wet							
1,4-Dioxane	ND	0.100	mg/kg wet							
2,2-Dichloropropane	ND	0.0050	mg/kg wet							
2-Butanone	ND	0.0100	mg/kg wet							
2-Chlorotoluene	ND	0.0050	mg/kg wet							
2-Hexanone	ND	0.0100	mg/kg wet							
4-Chlorotoluene	ND	0.0050	mg/kg wet							
4-Isopropyltoluene	ND	0.0050	mg/kg wet							
4-Methyl-2-Pentanone	ND	0.0100	mg/kg wet							
Acetone	ND	0.0100	mg/kg wet							
Benzene	ND	0.0050	mg/kg wet							
Bromobenzene	ND	0.0050	mg/kg wet							
Bromochloromethane	ND	0.0050	mg/kg wet							
Bromodichloromethane	ND	0.0050	mg/kg wet							
Bromoform	ND	0.0050	mg/kg wet							
Bromomethane	ND	0.0100	mg/kg wet							
Carbon Disulfide	ND	0.0050	mg/kg wet							
Carbon Tetrachloride	ND	0.0050	mg/kg wet							
Chlorobenzene	ND	0.0050	mg/kg wet							
Chloroethane	ND	0.0100	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503512

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch CC53120 - 5035										
Chloroform	ND	0.0050	mg/kg wet							
Chloromethane	ND	0.0100	mg/kg wet							
cis-1,2-Dichloroethene	ND	0.0050	mg/kg wet							
cis-1,3-Dichloropropene	ND	0.0050	mg/kg wet							
Dibromochloromethane	ND	0.0020	mg/kg wet							
Dibromomethane	ND	0.0050	mg/kg wet							
Dichlorodifluoromethane	ND	0.0100	mg/kg wet							
Diethyl Ether	ND	0.0050	mg/kg wet							
Di-isopropyl ether	ND	0.0050	mg/kg wet							
Ethyl tertiary-butyl ether	ND	0.0050	mg/kg wet							
Ethylbenzene	ND	0.0050	mg/kg wet							
Hexachlorobutadiene	ND	0.0050	mg/kg wet							
Isopropylbenzene	ND	0.0050	mg/kg wet							
Methyl tert-Butyl Ether	ND	0.0050	mg/kg wet							
Methylene Chloride	ND	0.0100	mg/kg wet							
Naphthalene	ND	0.0050	mg/kg wet							
n-Butylbenzene	ND	0.0050	mg/kg wet							
n-Propylbenzene	ND	0.0050	mg/kg wet							
sec-Butylbenzene	ND	0.0050	mg/kg wet							
Styrene	ND	0.0050	mg/kg wet							
tert-Butylbenzene	ND	0.0050	mg/kg wet							
Tertiary-amyl methyl ether	ND	0.0050	mg/kg wet							
Tetrachloroethene	ND	0.0050	mg/kg wet							
Tetrahydrofuran	ND	0.0050	mg/kg wet							
Toluene	ND	0.0050	mg/kg wet							
trans-1,2-Dichloroethene	ND	0.0050	mg/kg wet							
trans-1,3-Dichloropropene	ND	0.0050	mg/kg wet							
Trichloroethene	ND	0.0050	mg/kg wet							
Trichlorofluoromethane	ND	0.0050	mg/kg wet							
Vinyl Chloride	ND	0.0100	mg/kg wet							
Xylene O	ND	0.0050	mg/kg wet							
Xylene P,M	ND	0.0100	mg/kg wet							
Surrogate: 1,2-Dichloroethane-d4	*0.0443*		mg/kg wet	*0.05000*		*89*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.0462*		mg/kg wet	*0.05000*		*92*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0431*		mg/kg wet	*0.05000*		*86*	*70-130*			
Surrogate: Toluene-d8	*0.0455*		mg/kg wet	*0.05000*		*91*	*70-130*			
LCS										
1,1,1,2-Tetrachloroethane	0.0533	0.0050	mg/kg wet	0.05000		107	70-130			
1,1,1-Trichloroethane	0.0501	0.0050	mg/kg wet	0.05000		100	70-130			
1,1,2,2-Tetrachloroethane	0.0454	0.0020	mg/kg wet	0.05000		91	70-130			
1,1,2-Trichloroethane	0.0441	0.0050	mg/kg wet	0.05000		88	70-130			
1,1-Dichloroethane	0.0448	0.0050	mg/kg wet	0.05000		90	70-130			
1,1-Dichloroethene	0.0429	0.0050	mg/kg wet	0.05000		86	70-130			
1,1-Dichloropropene	0.0431	0.0050	mg/kg wet	0.05000		86	70-130			
1,2,3-Trichlorobenzene	0.0494	0.0050	mg/kg wet	0.05000		99	70-130			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503512

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch CC53120 - 5035										
1,2,3-Trichloropropane	0.0491	0.0050	mg/kg wet	0.05000		98	70-130			
1,2,4-Trichlorobenzene	0.0489	0.0050	mg/kg wet	0.05000		98	70-130			
1,2,4-Trimethylbenzene	0.0469	0.0050	mg/kg wet	0.05000		94	70-130			
1,2-Dibromo-3-Chloropropane	0.0504	0.0050	mg/kg wet	0.05000		101	70-130			
1,2-Dibromoethane	0.0488	0.0050	mg/kg wet	0.05000		98	70-130			
1,2-Dichlorobenzene	0.0464	0.0050	mg/kg wet	0.05000		93	70-130			
1,2-Dichloroethane	0.0465	0.0050	mg/kg wet	0.05000		93	70-130			
1,2-Dichloropropane	0.0434	0.0050	mg/kg wet	0.05000		87	70-130			
1,3,5-Trimethylbenzene	0.0493	0.0050	mg/kg wet	0.05000		99	70-130			
1,3-Dichlorobenzene	0.0479	0.0050	mg/kg wet	0.05000		96	70-130			
1,3-Dichloropropane	0.0508	0.0050	mg/kg wet	0.05000		102	70-130			
1,4-Dichlorobenzene	0.0477	0.0050	mg/kg wet	0.05000		95	70-130			
1,4-Dioxane	0.886	0.100	mg/kg wet	1.000		89	70-130			
2,2-Dichloropropane	0.0507	0.0050	mg/kg wet	0.05000		101	70-130			
2-Butanone	0.217	0.0100	mg/kg wet	0.2500		87	70-130			
2-Chlorotoluene	0.0479	0.0050	mg/kg wet	0.05000		96	70-130			
2-Hexanone	0.246	0.0100	mg/kg wet	0.2500		99	70-130			
4-Chlorotoluene	0.0478	0.0050	mg/kg wet	0.05000		96	70-130			
4-Isopropyltoluene	0.0473	0.0050	mg/kg wet	0.05000		95	70-130			
4-Methyl-2-Pentanone	0.212	0.0100	mg/kg wet	0.2500		85	70-130			
Acetone	0.241	0.0100	mg/kg wet	0.2500		96	70-130			
Benzene	0.0442	0.0050	mg/kg wet	0.05000		88	70-130			
Bromobenzene	0.0490	0.0050	mg/kg wet	0.05000		98	70-130			
Bromochloromethane	0.0457	0.0050	mg/kg wet	0.05000		91	70-130			
Bromodichloromethane	0.0488	0.0050	mg/kg wet	0.05000		98	70-130			
Bromoform	0.0503	0.0050	mg/kg wet	0.05000		101	70-130			
Bromomethane	0.0837	0.0100	mg/kg wet	0.05000		167	70-130			B+
Carbon Disulfide	0.0477	0.0050	mg/kg wet	0.05000		95	70-130			
Carbon Tetrachloride	0.0525	0.0050	mg/kg wet	0.05000		105	70-130			
Chlorobenzene	0.0486	0.0050	mg/kg wet	0.05000		97	70-130			
Chloroethane	0.0410	0.0100	mg/kg wet	0.05000		82	70-130			
Chloroform	0.0471	0.0050	mg/kg wet	0.05000		94	70-130			
Chloromethane	0.0517	0.0100	mg/kg wet	0.05000		103	70-130			
cis-1,2-Dichloroethene	0.0456	0.0050	mg/kg wet	0.05000		91	70-130			
cis-1,3-Dichloropropene	0.0523	0.0050	mg/kg wet	0.05000		105	70-130			
Dibromochloromethane	0.0496	0.0020	mg/kg wet	0.05000		99	70-130			
Dibromomethane	0.0461	0.0050	mg/kg wet	0.05000		92	70-130			
Dichlorodifluoromethane	0.0481	0.0100	mg/kg wet	0.05000		96	70-130			
Diethyl Ether	0.0451	0.0050	mg/kg wet	0.05000		90	70-130			
Di-isopropyl ether	0.0442	0.0050	mg/kg wet	0.05000		88	70-130			
Ethyl tertiary-butyl ether	0.0431	0.0050	mg/kg wet	0.05000		86	70-130			
Ethylbenzene	0.0483	0.0050	mg/kg wet	0.05000		97	70-130			
Hexachlorobutadiene	0.0539	0.0050	mg/kg wet	0.05000		108	70-130			
Isopropylbenzene	0.0477	0.0050	mg/kg wet	0.05000		95	70-130			
Methyl tert-Butyl Ether	0.0454	0.0050	mg/kg wet	0.05000		91	70-130			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503512

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch CC53120 - 5035										
Methylene Chloride	0.0447	0.0100	mg/kg wet	0.05000		89	70-130			
Naphthalene	0.0426	0.0050	mg/kg wet	0.05000		85	70-130			
n-Butylbenzene	0.0477	0.0050	mg/kg wet	0.05000		95	70-130			
n-Propylbenzene	0.0466	0.0050	mg/kg wet	0.05000		93	70-130			
sec-Butylbenzene	0.0468	0.0050	mg/kg wet	0.05000		94	70-130			
Styrene	0.0498	0.0050	mg/kg wet	0.05000		100	70-130			
tert-Butylbenzene	0.0480	0.0050	mg/kg wet	0.05000		96	70-130			
Tertiary-amyl methyl ether	0.0450	0.0050	mg/kg wet	0.05000		90	70-130			
Tetrachloroethene	0.0485	0.0050	mg/kg wet	0.05000		97	70-130			
Tetrahydrofuran	0.0372	0.0050	mg/kg wet	0.05000		74	70-130			
Toluene	0.0438	0.0050	mg/kg wet	0.05000		88	70-130			
trans-1,2-Dichloroethene	0.0411	0.0050	mg/kg wet	0.05000		82	70-130			
trans-1,3-Dichloropropene	0.0520	0.0050	mg/kg wet	0.05000		104	70-130			
Trichloroethene	0.0456	0.0050	mg/kg wet	0.05000		91	70-130			
Trichlorofluoromethane	0.0431	0.0050	mg/kg wet	0.05000		86	70-130			
Vinyl Chloride	0.0452	0.0100	mg/kg wet	0.05000		90	70-130			
Xylene O	0.0480	0.0050	mg/kg wet	0.05000		96	70-130			
Xylene P,M	0.0969	0.0100	mg/kg wet	0.1000		97	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0454*		mg/kg wet	*0.05000*		*91*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.0483*		mg/kg wet	*0.05000*		*97*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0450*		mg/kg wet	*0.05000*		*90*	*70-130*			
Surrogate: Toluene-d8	*0.0504*		mg/kg wet	*0.05000*		*101*	*70-130*			
LCS Dup										
1,1,1,2-Tetrachloroethane	0.0590	0.0050	mg/kg wet	0.05000		118	70-130	10	25	
1,1,1-Trichloroethane	0.0522	0.0050	mg/kg wet	0.05000		104	70-130	4	25	
1,1,2,2-Tetrachloroethane	0.0479	0.0020	mg/kg wet	0.05000		96	70-130	5	25	
1,1,2-Trichloroethane	0.0462	0.0050	mg/kg wet	0.05000		92	70-130	5	25	
1,1-Dichloroethane	0.0456	0.0050	mg/kg wet	0.05000		91	70-130	2	25	
1,1-Dichloroethene	0.0449	0.0050	mg/kg wet	0.05000		90	70-130	5	25	
1,1-Dichloropropene	0.0450	0.0050	mg/kg wet	0.05000		90	70-130	4	25	
1,2,3-Trichlorobenzene	0.0533	0.0050	mg/kg wet	0.05000		107	70-130	7	25	
1,2,3-Trichloropropane	0.0521	0.0050	mg/kg wet	0.05000		104	70-130	6	25	
1,2,4-Trichlorobenzene	0.0539	0.0050	mg/kg wet	0.05000		108	70-130	10	25	
1,2,4-Trimethylbenzene	0.0493	0.0050	mg/kg wet	0.05000		99	70-130	5	25	
1,2-Dibromo-3-Chloropropane	0.0983	0.0050	mg/kg wet	0.05000		197	70-130	64	25	B+, D+
1,2-Dibromoethane	0.0539	0.0050	mg/kg wet	0.05000		108	70-130	10	25	
1,2-Dichlorobenzene	0.0492	0.0050	mg/kg wet	0.05000		98	70-130	6	25	
1,2-Dichloroethane	0.0486	0.0050	mg/kg wet	0.05000		97	70-130	5	25	
1,2-Dichloropropane	0.0443	0.0050	mg/kg wet	0.05000		89	70-130	2	25	
1,3,5-Trimethylbenzene	0.0517	0.0050	mg/kg wet	0.05000		103	70-130	5	25	
1,3-Dichlorobenzene	0.0501	0.0050	mg/kg wet	0.05000		100	70-130	4	25	
1,3-Dichloropropane	0.0550	0.0050	mg/kg wet	0.05000		110	70-130	8	25	
1,4-Dichlorobenzene	0.0502	0.0050	mg/kg wet	0.05000		100	70-130	5	25	
1,4-Dioxane	0.970	0.100	mg/kg wet	1.000		97	70-130	9	20	
2,2-Dichloropropane	0.0533	0.0050	mg/kg wet	0.05000		107	70-130	5	25	

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503512

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch CC53120 - 5035										
2-Butanone	0.229	0.0100	mg/kg wet	0.2500		92	70-130	6	25	
2-Chlorotoluene	0.0493	0.0050	mg/kg wet	0.05000		99	70-130	3	25	
2-Hexanone	0.275	0.0100	mg/kg wet	0.2500		110	70-130	11	25	
4-Chlorotoluene	0.0505	0.0050	mg/kg wet	0.05000		101	70-130	5	25	
4-Isopropyltoluene	0.0499	0.0050	mg/kg wet	0.05000		100	70-130	5	25	
4-Methyl-2-Pentanone	0.231	0.0100	mg/kg wet	0.2500		92	70-130	9	25	
Acetone	0.265	0.0100	mg/kg wet	0.2500		106	70-130	9	25	
Benzene	0.0460	0.0050	mg/kg wet	0.05000		92	70-130	4	25	
Bromobenzene	0.0515	0.0050	mg/kg wet	0.05000		103	70-130	5	25	
Bromochloromethane	0.0483	0.0050	mg/kg wet	0.05000		97	70-130	6	25	
Bromodichloromethane	0.0512	0.0050	mg/kg wet	0.05000		102	70-130	5	25	
Bromoform	0.0563	0.0050	mg/kg wet	0.05000		113	70-130	11	25	
Bromomethane	0.0806	0.0100	mg/kg wet	0.05000		161	70-130	4	25	B+
Carbon Disulfide	0.0499	0.0050	mg/kg wet	0.05000		100	70-130	5	25	
Carbon Tetrachloride	0.0553	0.0050	mg/kg wet	0.05000		111	70-130	5	25	
Chlorobenzene	0.0526	0.0050	mg/kg wet	0.05000		105	70-130	8	25	
Chloroethane	0.0421	0.0100	mg/kg wet	0.05000		84	70-130	3	25	
Chloroform	0.0487	0.0050	mg/kg wet	0.05000		97	70-130	3	25	
Chloromethane	0.0529	0.0100	mg/kg wet	0.05000		106	70-130	2	25	
cis-1,2-Dichloroethene	0.0477	0.0050	mg/kg wet	0.05000		95	70-130	5	25	
cis-1,3-Dichloropropene	0.0543	0.0050	mg/kg wet	0.05000		109	70-130	4	25	
Dibromochloromethane	0.0552	0.0020	mg/kg wet	0.05000		110	70-130	11	25	
Dibromomethane	0.0478	0.0050	mg/kg wet	0.05000		96	70-130	4	25	
Dichlorodifluoromethane	0.0502	0.0100	mg/kg wet	0.05000		100	70-130	4	25	
Diethyl Ether	0.0471	0.0050	mg/kg wet	0.05000		94	70-130	4	25	
Di-isopropyl ether	0.0452	0.0050	mg/kg wet	0.05000		90	70-130	2	25	
Ethyl tertiary-butyl ether	0.0406	0.0050	mg/kg wet	0.05000		81	70-130	6	25	
Ethylbenzene	0.0520	0.0050	mg/kg wet	0.05000		104	70-130	7	25	
Hexachlorobutadiene	0.0585	0.0050	mg/kg wet	0.05000		117	70-130	8	25	
Isopropylbenzene	0.0496	0.0050	mg/kg wet	0.05000		99	70-130	4	25	
Methyl tert-Butyl Ether	0.0451	0.0050	mg/kg wet	0.05000		90	70-130	0.7	25	
Methylene Chloride	0.0453	0.0100	mg/kg wet	0.05000		91	70-130	1	25	
Naphthalene	0.0460	0.0050	mg/kg wet	0.05000		92	70-130	8	25	
n-Butylbenzene	0.0497	0.0050	mg/kg wet	0.05000		99	70-130	4	25	
n-Propylbenzene	0.0492	0.0050	mg/kg wet	0.05000		98	70-130	5	25	
sec-Butylbenzene	0.0495	0.0050	mg/kg wet	0.05000		99	70-130	6	25	
Styrene	0.0535	0.0050	mg/kg wet	0.05000		107	70-130	7	25	
tert-Butylbenzene	0.0504	0.0050	mg/kg wet	0.05000		101	70-130	5	25	
Tertiary-amyl methyl ether	0.0434	0.0050	mg/kg wet	0.05000		87	70-130	4	25	
Tetrachloroethene	0.0542	0.0050	mg/kg wet	0.05000		108	70-130	11	25	
Tetrahydrofuran	0.0435	0.0050	mg/kg wet	0.05000		87	70-130	15	25	
Toluene	0.0461	0.0050	mg/kg wet	0.05000		92	70-130	5	25	
trans-1,2-Dichloroethene	0.0435	0.0050	mg/kg wet	0.05000		87	70-130	6	25	
trans-1,3-Dichloropropene	0.0537	0.0050	mg/kg wet	0.05000		107	70-130	3	25	
Trichloroethene	0.0474	0.0050	mg/kg wet	0.05000		95	70-130	4	25	

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503512

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch CC53120 - 5035										
Trichlorofluoromethane	0.0454	0.0050	mg/kg wet	0.05000		91	70-130	5	25	
Vinyl Chloride	0.0461	0.0100	mg/kg wet	0.05000		92	70-130	2	25	
Xylene O	0.0519	0.0050	mg/kg wet	0.05000		104	70-130	8	25	
Xylene P,M	0.106	0.0100	mg/kg wet	0.1000		106	70-130	9	25	
Surrogate: 1,2-Dichloroethane-d4	*0.0448*		mg/kg wet	*0.05000*		*90*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.0487*		mg/kg wet	*0.05000*		*97*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0445*		mg/kg wet	*0.05000*		*89*	*70-130*			
Surrogate: Toluene-d8	*0.0507*		mg/kg wet	*0.05000*		*101*	*70-130*			
5035/8260B Volatile Organic Compounds / Methanol										
Batch CD50244 - 5035										
Blank										
1,1,1,2-Tetrachloroethane	ND	0.100	mg/kg wet							
1,1,1-Trichloroethane	ND	0.0500	mg/kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0500	mg/kg wet							
1,1,2-Trichloroethane	ND	0.0500	mg/kg wet							
1,1-Dichloroethane	ND	0.0500	mg/kg wet							
1,1-Dichloroethene	ND	0.0500	mg/kg wet							
1,1-Dichloropropene	ND	0.0500	mg/kg wet							
1,2,3-Trichlorobenzene	ND	0.0500	mg/kg wet							
1,2,3-Trichloropropane	ND	0.0500	mg/kg wet							
1,2,4-Trichlorobenzene	ND	0.0500	mg/kg wet							
1,2,4-Trimethylbenzene	ND	0.0500	mg/kg wet							
1,2-Dibromo-3-Chloropropane	ND	0.200	mg/kg wet							
1,2-Dibromoethane	ND	0.0500	mg/kg wet							
1,2-Dichlorobenzene	ND	0.0500	mg/kg wet							
1,2-Dichloroethane	ND	0.0500	mg/kg wet							
1,2-Dichloropropane	ND	0.0500	mg/kg wet							
1,3,5-Trimethylbenzene	ND	0.0500	mg/kg wet							
1,3-Dichlorobenzene	ND	0.0500	mg/kg wet							
1,3-Dichloropropane	ND	0.0500	mg/kg wet							
1,4-Dichlorobenzene	ND	0.0500	mg/kg wet							
1,4-Dioxane - Screen	ND	5.00	mg/kg wet							
2,2-Dichloropropane	ND	0.100	mg/kg wet							
2-Butanone	ND	0.200	mg/kg wet							
2-Chlorotoluene	ND	0.0500	mg/kg wet							
2-Hexanone	ND	0.200	mg/kg wet							
4-Chlorotoluene	ND	0.0500	mg/kg wet							
4-Isopropyltoluene	ND	0.0500	mg/kg wet							
4-Methyl-2-Pentanone	ND	0.200	mg/kg wet							
Acetone	ND	0.200	mg/kg wet							
Benzene	ND	0.0500	mg/kg wet							
Bromobenzene	ND	0.0500	mg/kg wet							
Bromochloromethane	ND	0.0500	mg/kg wet							
Bromodichloromethane	ND	0.0500	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503512

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Methanol										
Batch CD50244 - 5035										
Bromoform	ND	0.0500	mg/kg wet							
Bromomethane	ND	0.100	mg/kg wet							
Carbon Disulfide	ND	0.0500	mg/kg wet							
Carbon Tetrachloride	ND	0.0500	mg/kg wet							
Chlorobenzene	ND	0.0500	mg/kg wet							
Chloroethane	ND	0.100	mg/kg wet							
Chloroform	ND	0.0500	mg/kg wet							
Chloromethane	ND	0.100	mg/kg wet							
cis-1,2-Dichloroethene	ND	0.0500	mg/kg wet							
cis-1,3-Dichloropropene	ND	0.0500	mg/kg wet							
Dibromochloromethane	ND	0.0500	mg/kg wet							
Dibromomethane	ND	0.0500	mg/kg wet							
Dichlorodifluoromethane	ND	0.0500	mg/kg wet							
Diethyl Ether	ND	0.0500	mg/kg wet							
Di-isopropyl ether	ND	0.0500	mg/kg wet							
Ethyl tertiary-butyl ether	ND	0.0500	mg/kg wet							
Ethylbenzene	ND	0.0500	mg/kg wet							
Hexachlorobutadiene	ND	0.0500	mg/kg wet							
Isopropylbenzene	ND	0.0500	mg/kg wet							
Methyl tert-Butyl Ether	ND	0.0500	mg/kg wet							
Methylene Chloride	ND	0.200	mg/kg wet							
Naphthalene	ND	0.0500	mg/kg wet							
n-Butylbenzene	ND	0.0500	mg/kg wet							
n-Propylbenzene	ND	0.0500	mg/kg wet							
sec-Butylbenzene	ND	0.0500	mg/kg wet							
Styrene	ND	0.0500	mg/kg wet							
tert-Butylbenzene	ND	0.0500	mg/kg wet							
Tertiary-amyl methyl ether	ND	0.0500	mg/kg wet							
Tetrachloroethene	ND	0.0500	mg/kg wet							
Tetrahydrofuran	ND	0.200	mg/kg wet							
Toluene	ND	0.0500	mg/kg wet							
trans-1,2-Dichloroethene	ND	0.0500	mg/kg wet							
trans-1,3-Dichloropropene	ND	0.0500	mg/kg wet							
Trichloroethene	ND	0.0500	mg/kg wet							
Trichlorofluoromethane	ND	0.0500	mg/kg wet							
Vinyl Chloride	ND	0.0500	mg/kg wet							
Xylene O	ND	0.0500	mg/kg wet							
Xylene P,M	ND	0.100	mg/kg wet							
Surrogate: 1,2-Dichloroethane-d4	*2.45*		mg/kg wet	*2.500*		*98*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*2.38*		mg/kg wet	*2.500*		*95*	*70-130*			
Surrogate: Dibromofluoromethane	*2.81*		mg/kg wet	*2.500*		*112*	*70-130*			
Surrogate: Toluene-d8	*2.43*		mg/kg wet	*2.500*		*97*	*70-130*			
LCS										
1,1,1,2-Tetrachloroethane	2.28	0.100	mg/kg wet	2.500		91	70-130			
1,1,1-Trichloroethane	2.53	0.0500	mg/kg wet	2.500		101	70-130			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503512

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Methanol										
Batch CD50244 - 5035										
1,1,2,2-Tetrachloroethane	2.42	0.0500	mg/kg wet	2.500		97	70-130			
1,1,2-Trichloroethane	2.79	0.0500	mg/kg wet	2.500		112	70-130			
1,1-Dichloroethane	2.52	0.0500	mg/kg wet	2.500		101	70-130			
1,1-Dichloroethene	2.50	0.0500	mg/kg wet	2.500		100	70-130			
1,1-Dichloropropene	2.28	0.0500	mg/kg wet	2.500		91	70-130			
1,2,3-Trichlorobenzene	2.88	0.0500	mg/kg wet	2.500		115	70-130			
1,2,3-Trichloropropane	2.43	0.0500	mg/kg wet	2.500		97	70-130			
1,2,4-Trichlorobenzene	2.67	0.0500	mg/kg wet	2.500		107	70-130			
1,2,4-Trimethylbenzene	2.32	0.0500	mg/kg wet	2.500		93	70-130			
1,2-Dibromo-3-Chloropropane	2.34	0.200	mg/kg wet	2.500		94	70-130			
1,2-Dibromoethane	2.43	0.0500	mg/kg wet	2.500		97	70-130			
1,2-Dichlorobenzene	2.35	0.0500	mg/kg wet	2.500		94	70-130			
1,2-Dichloroethane	2.54	0.0500	mg/kg wet	2.500		102	70-130			
1,2-Dichloropropane	2.74	0.0500	mg/kg wet	2.500		109	70-130			
1,3,5-Trimethylbenzene	2.40	0.0500	mg/kg wet	2.500		96	70-130			
1,3-Dichlorobenzene	2.37	0.0500	mg/kg wet	2.500		95	70-130			
1,3-Dichloropropane	2.46	0.0500	mg/kg wet	2.500		98	70-130			
1,4-Dichlorobenzene	2.36	0.0500	mg/kg wet	2.500		94	70-130			
1,4-Dioxane - Screen	60.7	5.00	mg/kg wet	50.00		121	44-241			
2,2-Dichloropropane	2.90	0.100	mg/kg wet	2.500		116	70-130			
2-Butanone	20.7	0.200	mg/kg wet	12.50		166	70-130			B+
2-Chlorotoluene	2.26	0.0500	mg/kg wet	2.500		90	70-130			
2-Hexanone	16.8	0.200	mg/kg wet	12.50		134	70-130			B+
4-Chlorotoluene	2.33	0.0500	mg/kg wet	2.500		93	70-130			
4-Isopropyltoluene	2.33	0.0500	mg/kg wet	2.500		93	70-130			
4-Methyl-2-Pentanone	13.4	0.200	mg/kg wet	12.50		108	70-130			
Acetone	28.5	0.200	mg/kg wet	12.50		228	70-130			B+
Benzene	2.39	0.0500	mg/kg wet	2.500		96	70-130			
Bromobenzene	2.40	0.0500	mg/kg wet	2.500		96	70-130			
Bromochloromethane	2.74	0.0500	mg/kg wet	2.500		110	70-130			
Bromodichloromethane	2.62	0.0500	mg/kg wet	2.500		105	70-130			
Bromoform	2.54	0.0500	mg/kg wet	2.500		102	70-130			
Bromomethane	3.17	0.100	mg/kg wet	2.500		127	70-130			
Carbon Disulfide	2.16	0.0500	mg/kg wet	2.500		86	70-130			
Carbon Tetrachloride	2.56	0.0500	mg/kg wet	2.500		102	70-130			
Chlorobenzene	2.36	0.0500	mg/kg wet	2.500		95	70-130			
Chloroethane	2.56	0.100	mg/kg wet	2.500		102	70-130			
Chloroform	2.67	0.0500	mg/kg wet	2.500		107	70-130			
Chloromethane	2.70	0.100	mg/kg wet	2.500		108	70-130			
cis-1,2-Dichloroethene	2.66	0.0500	mg/kg wet	2.500		106	70-130			
cis-1,3-Dichloropropene	3.00	0.0500	mg/kg wet	2.500		120	70-130			
Dibromochloromethane	2.42	0.0500	mg/kg wet	2.500		97	70-130			
Dibromomethane	2.76	0.0500	mg/kg wet	2.500		110	70-130			
Dichlorodifluoromethane	2.75	0.0500	mg/kg wet	2.500		110	70-130			
Diethyl Ether	2.75	0.0500	mg/kg wet	2.500		110	70-130			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503512

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Methanol										
Batch CD50244 - 5035										
Di-isopropyl ether	2.47	0.0500	mg/kg wet	2.500		99	70-130			
Ethyl tertiary-butyl ether	2.49	0.0500	mg/kg wet	2.500		100	70-130			
Ethylbenzene	2.28	0.0500	mg/kg wet	2.500		91	70-130			
Hexachlorobutadiene	2.72	0.0500	mg/kg wet	2.500		109	70-130			
Isopropylbenzene	2.33	0.0500	mg/kg wet	2.500		93	70-130			
Methyl tert-Butyl Ether	2.60	0.0500	mg/kg wet	2.500		104	70-130			
Methylene Chloride	2.60	0.200	mg/kg wet	2.500		104	70-130			
Naphthalene	2.75	0.0500	mg/kg wet	2.500		110	70-130			
n-Butylbenzene	2.42	0.0500	mg/kg wet	2.500		97	70-130			
n-Propylbenzene	2.30	0.0500	mg/kg wet	2.500		92	70-130			
sec-Butylbenzene	2.35	0.0500	mg/kg wet	2.500		94	70-130			
Styrene	2.39	0.0500	mg/kg wet	2.500		96	70-130			
tert-Butylbenzene	2.31	0.0500	mg/kg wet	2.500		92	70-130			
Tertiary-amyl methyl ether	2.26	0.0500	mg/kg wet	2.500		90	70-130			
Tetrachloroethene	2.50	0.0500	mg/kg wet	2.500		100	70-130			
Tetrahydrofuran	2.60	0.200	mg/kg wet	2.500		104	70-130			
Toluene	2.72	0.0500	mg/kg wet	2.500		109	70-130			
trans-1,2-Dichloroethene	2.38	0.0500	mg/kg wet	2.500		95	70-130			
trans-1,3-Dichloropropene	2.85	0.0500	mg/kg wet	2.500		114	70-130			
Trichloroethene	2.88	0.0500	mg/kg wet	2.500		115	70-130			
Trichlorofluoromethane	2.14	0.0500	mg/kg wet	2.500		86	70-130			
Vinyl Chloride	2.94	0.0500	mg/kg wet	2.500		118	70-130			
Xylene O	2.35	0.0500	mg/kg wet	2.500		94	70-130			
Xylene P,M	4.68	0.100	mg/kg wet	5.000		94	70-130			
Surrogate: 1,2-Dichloroethane-d4	*2.46*		mg/kg wet	*2.500*		*99*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*2.40*		mg/kg wet	*2.500*		*96*	*70-130*			
Surrogate: Dibromofluoromethane	*2.70*		mg/kg wet	*2.500*		*108*	*70-130*			
Surrogate: Toluene-d8	*2.40*		mg/kg wet	*2.500*		*96*	*70-130*			
LCS Dup										
1,1,1,2-Tetrachloroethane	2.29	0.100	mg/kg wet	2.500		91	70-130	0.04	25	
1,1,1-Trichloroethane	2.57	0.0500	mg/kg wet	2.500		103	70-130	2	25	
1,1,2,2-Tetrachloroethane	2.44	0.0500	mg/kg wet	2.500		98	70-130	0.8	25	
1,1,2-Trichloroethane	2.79	0.0500	mg/kg wet	2.500		112	70-130	0.1	25	
1,1-Dichloroethane	2.52	0.0500	mg/kg wet	2.500		101	70-130	0.2	25	
1,1-Dichloroethene	2.53	0.0500	mg/kg wet	2.500		101	70-130	1	25	
1,1-Dichloropropene	2.31	0.0500	mg/kg wet	2.500		92	70-130	1	25	
1,2,3-Trichlorobenzene	2.85	0.0500	mg/kg wet	2.500		114	70-130	1	25	
1,2,3-Trichloropropane	2.43	0.0500	mg/kg wet	2.500		97	70-130	0.08	25	
1,2,4-Trichlorobenzene	2.64	0.0500	mg/kg wet	2.500		106	70-130	1	25	
1,2,4-Trimethylbenzene	2.29	0.0500	mg/kg wet	2.500		91	70-130	2	25	
1,2-Dibromo-3-Chloropropane	2.36	0.200	mg/kg wet	2.500		95	70-130	0.8	25	
1,2-Dibromoethane	2.46	0.0500	mg/kg wet	2.500		98	70-130	1	25	
1,2-Dichlorobenzene	2.32	0.0500	mg/kg wet	2.500		93	70-130	1	25	
1,2-Dichloroethane	2.54	0.0500	mg/kg wet	2.500		101	70-130	0.3	25	
1,2-Dichloropropane	2.77	0.0500	mg/kg wet	2.500		111	70-130	1	25	

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503512

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Methanol										
Batch CD50244 - 5035										
1,3,5-Trimethylbenzene	2.38	0.0500	mg/kg wet	2.500		95	70-130	0.5	25	
1,3-Dichlorobenzene	2.33	0.0500	mg/kg wet	2.500		93	70-130	1	25	
1,3-Dichloropropane	2.47	0.0500	mg/kg wet	2.500		99	70-130	0.4	25	
1,4-Dichlorobenzene	2.31	0.0500	mg/kg wet	2.500		92	70-130	2	25	
1,4-Dioxane - Screen	65.4	5.00	mg/kg wet	50.00		131	44-241	7	200	
2,2-Dichloropropane	2.91	0.100	mg/kg wet	2.500		116	70-130	0.2	25	
2-Butanone	23.1	0.200	mg/kg wet	12.50		185	70-130	11	25	B+
2-Chlorotoluene	2.45	0.0500	mg/kg wet	2.500		98	70-130	8	25	
2-Hexanone	19.0	0.200	mg/kg wet	12.50		152	70-130	13	25	B+
4-Chlorotoluene	2.28	0.0500	mg/kg wet	2.500		91	70-130	2	25	
4-Isopropyltoluene	2.27	0.0500	mg/kg wet	2.500		91	70-130	3	25	
4-Methyl-2-Pentanone	14.3	0.200	mg/kg wet	12.50		114	70-130	6	25	
Acetone	33.0	0.200	mg/kg wet	12.50		264	70-130	14	25	B+
Benzene	2.40	0.0500	mg/kg wet	2.500		96	70-130	0.5	25	
Bromobenzene	2.37	0.0500	mg/kg wet	2.500		95	70-130	1	25	
Bromochloromethane	2.76	0.0500	mg/kg wet	2.500		110	70-130	0.7	25	
Bromodichloromethane	2.67	0.0500	mg/kg wet	2.500		107	70-130	2	25	
Bromoform	2.58	0.0500	mg/kg wet	2.500		103	70-130	1	25	
Bromomethane	3.10	0.100	mg/kg wet	2.500		124	70-130	2	25	
Carbon Disulfide	2.47	0.0500	mg/kg wet	2.500		99	70-130	14	25	
Carbon Tetrachloride	2.56	0.0500	mg/kg wet	2.500		102	70-130	0.1	25	
Chlorobenzene	2.35	0.0500	mg/kg wet	2.500		94	70-130	0.7	25	
Chloroethane	2.56	0.100	mg/kg wet	2.500		102	70-130	0.1	25	
Chloroform	2.69	0.0500	mg/kg wet	2.500		108	70-130	1	25	
Chloromethane	2.67	0.100	mg/kg wet	2.500		107	70-130	0.9	25	
cis-1,2-Dichloroethene	2.66	0.0500	mg/kg wet	2.500		106	70-130	0	25	
cis-1,3-Dichloropropene	3.01	0.0500	mg/kg wet	2.500		121	70-130	0.6	25	
Dibromochloromethane	2.45	0.0500	mg/kg wet	2.500		98	70-130	1	25	
Dibromomethane	2.81	0.0500	mg/kg wet	2.500		112	70-130	2	25	
Dichlorodifluoromethane	2.76	0.0500	mg/kg wet	2.500		110	70-130	0.2	25	
Diethyl Ether	2.74	0.0500	mg/kg wet	2.500		110	70-130	0.6	25	
Di-isopropyl ether	2.49	0.0500	mg/kg wet	2.500		100	70-130	0.8	25	
Ethyl tertiary-butyl ether	2.50	0.0500	mg/kg wet	2.500		100	70-130	0.4	25	
Ethylbenzene	2.29	0.0500	mg/kg wet	2.500		92	70-130	0.8	25	
Hexachlorobutadiene	2.88	0.0500	mg/kg wet	2.500		115	70-130	6	25	
Isopropylbenzene	2.30	0.0500	mg/kg wet	2.500		92	70-130	1	25	
Methyl tert-Butyl Ether	2.63	0.0500	mg/kg wet	2.500		105	70-130	1	25	
Methylene Chloride	2.65	0.200	mg/kg wet	2.500		106	70-130	2	25	
Naphthalene	2.79	0.0500	mg/kg wet	2.500		112	70-130	1	25	
n-Butylbenzene	2.38	0.0500	mg/kg wet	2.500		95	70-130	2	25	
n-Propylbenzene	2.07	0.0500	mg/kg wet	2.500		83	70-130	10	25	
sec-Butylbenzene	2.32	0.0500	mg/kg wet	2.500		93	70-130	1	25	
Styrene	2.39	0.0500	mg/kg wet	2.500		95	70-130	0.08	25	
tert-Butylbenzene	2.28	0.0500	mg/kg wet	2.500		91	70-130	1	25	
Tertiary-amyl methyl ether	2.28	0.0500	mg/kg wet	2.500		91	70-130	0.7	25	

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503512

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Methanol										
Batch CD50244 - 5035										
Tetrachloroethene	2.50	0.0500	mg/kg wet	2.500		100	70-130	0.2	25	
Tetrahydrofuran	2.72	0.200	mg/kg wet	2.500		109	70-130	5	25	
Toluene	2.72	0.0500	mg/kg wet	2.500		109	70-130	0.2	25	
trans-1,2-Dichloroethene	2.37	0.0500	mg/kg wet	2.500		95	70-130	0.4	25	
trans-1,3-Dichloropropene	2.86	0.0500	mg/kg wet	2.500		114	70-130	0.3	25	
Trichloroethene	2.92	0.0500	mg/kg wet	2.500		117	70-130	1	25	
Trichlorofluoromethane	2.05	0.0500	mg/kg wet	2.500		82	70-130	4	25	
Vinyl Chloride	3.00	0.0500	mg/kg wet	2.500		120	70-130	2	25	
Xylene O	2.37	0.0500	mg/kg wet	2.500		95	70-130	1	25	
Xylene P,M	4.69	0.100	mg/kg wet	5.000		94	70-130	0.3	25	
Surrogate: 1,2-Dichloroethane-d4	*2.47*		mg/kg wet	*2.500*		*99*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*2.38*		mg/kg wet	*2.500*		*95*	*70-130*			
Surrogate: Dibromofluoromethane	*2.72*		mg/kg wet	*2.500*		*109*	*70-130*			
Surrogate: Toluene-d8	*2.41*		mg/kg wet	*2.500*		*96*	*70-130*			
8082A Polychlorinated Biphenyls (PCB)										
Batch CD50161 - 3540										
Blank										
Aroclor 1016	ND	0.0080	mg/kg wet							
Aroclor 1221	ND	0.0080	mg/kg wet							
Aroclor 1232	ND	0.0080	mg/kg wet							
Aroclor 1242	ND	0.0080	mg/kg wet							
Aroclor 1248	ND	0.0080	mg/kg wet							
Aroclor 1254	ND	0.0080	mg/kg wet							
Aroclor 1260	ND	0.0080	mg/kg wet							
Aroclor 1262	ND	0.0080	mg/kg wet							
Aroclor 1268	ND	0.0080	mg/kg wet							
Surrogate: Decachlorobiphenyl	*0.00430*		mg/kg wet	*0.004000*		*108*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.00363*		mg/kg wet	*0.004000*		*91*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.00268*		mg/kg wet	*0.004000*		*67*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.00255*		mg/kg wet	*0.004000*		*64*	*30-150*			
LCS										
Aroclor 1016	0.0769	0.0080	mg/kg wet	0.08000		96	40-140			
Aroclor 1260	0.0771	0.0080	mg/kg wet	0.08000		96	40-140			
Surrogate: Decachlorobiphenyl	*0.00335*		mg/kg wet	*0.004000*		*84*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.00387*		mg/kg wet	*0.004000*		*97*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.00283*		mg/kg wet	*0.004000*		*71*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.00283*		mg/kg wet	*0.004000*		*71*	*30-150*			
LCS Dup										
Aroclor 1016	0.0751	0.0080	mg/kg wet	0.08000		94	40-140	2	30	
Aroclor 1260	0.0773	0.0080	mg/kg wet	0.08000		97	40-140	0.3	30	
Surrogate: Decachlorobiphenyl	*0.00325*		mg/kg wet	*0.004000*		*81*	*30-150*			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503512

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CD50161 - 3540										
Surrogate: Decachlorobiphenyl [2C]	*0.00377*		mg/kg wet	*0.004000*		*94*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.00279*		mg/kg wet	*0.004000*		*70*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.00270*		mg/kg wet	*0.004000*		*67*	*30-150*			
Batch CD50221 - 3540C										
Blank										
Aroclor 1016	ND	0.0100	mg/kg wet							
Aroclor 1221	ND	0.0100	mg/kg wet							
Aroclor 1232	ND	0.0100	mg/kg wet							
Aroclor 1242	ND	0.0100	mg/kg wet							
Aroclor 1248	ND	0.0100	mg/kg wet							
Aroclor 1254	ND	0.0100	mg/kg wet							
Aroclor 1260	ND	0.0100	mg/kg wet							
Aroclor 1262	ND	0.0100	mg/kg wet							
Aroclor 1268	ND	0.0100	mg/kg wet							
Surrogate: Decachlorobiphenyl	*0.00433*		mg/kg wet	*0.005000*		*87*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.00465*		mg/kg wet	*0.005000*		*93*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.00387*		mg/kg wet	*0.005000*		*77*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.00364*		mg/kg wet	*0.005000*		*73*	*30-150*			
LCS										
Aroclor 1016	0.121	0.0100	mg/kg wet	0.1000		121	40-140			
Aroclor 1260	0.109	0.0100	mg/kg wet	0.1000		109	40-140			
Surrogate: Decachlorobiphenyl	*0.00454*		mg/kg wet	*0.005000*		*91*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.00512*		mg/kg wet	*0.005000*		*102*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.00475*		mg/kg wet	*0.005000*		*95*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.00489*		mg/kg wet	*0.005000*		*98*	*30-150*			
LCS Dup										
Aroclor 1016	0.114	0.0100	mg/kg wet	0.1000		114	40-140	6	30	
Aroclor 1260	0.106	0.0100	mg/kg wet	0.1000		106	40-140	3	30	
Surrogate: Decachlorobiphenyl	*0.00423*		mg/kg wet	*0.005000*		*85*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.00517*		mg/kg wet	*0.005000*		*103*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.00414*		mg/kg wet	*0.005000*		*83*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.00420*		mg/kg wet	*0.005000*		*84*	*30-150*			
Batch CD50616 - 3540C										
Blank										
Aroclor 1016	ND	0.0100	mg/kg wet							
Aroclor 1221	ND	0.0100	mg/kg wet							
Aroclor 1232	ND	0.0100	mg/kg wet							
Aroclor 1242	ND	0.0100	mg/kg wet							
Aroclor 1248	ND	0.0100	mg/kg wet							
Aroclor 1254	ND	0.0100	mg/kg wet							
Aroclor 1260	ND	0.0100	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503512

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CD50616 - 3540C										
Aroclor 1262	ND	0.0100	mg/kg wet							
Aroclor 1268	ND	0.0100	mg/kg wet							
Surrogate: Decachlorobiphenyl	*0.00429*		mg/kg wet	*0.005000*		*86*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.00467*		mg/kg wet	*0.005000*		*93*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.00393*		mg/kg wet	*0.005000*		*79*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.00365*		mg/kg wet	*0.005000*		*73*	*30-150*			
LCS										
Aroclor 1016	0.126	0.0100	mg/kg wet	0.1000		126	40-140			
Aroclor 1260	0.118	0.0100	mg/kg wet	0.1000		118	40-140			
Surrogate: Decachlorobiphenyl	*0.00426*		mg/kg wet	*0.005000*		*85*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.00497*		mg/kg wet	*0.005000*		*99*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.00393*		mg/kg wet	*0.005000*		*79*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.00396*		mg/kg wet	*0.005000*		*79*	*30-150*			
LCS Dup										
Aroclor 1016	0.139	0.0100	mg/kg wet	0.1000		139	40-140	9	30	
Aroclor 1260	0.130	0.0100	mg/kg wet	0.1000		130	40-140	10	30	
Surrogate: Decachlorobiphenyl	*0.00441*		mg/kg wet	*0.005000*		*88*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.00506*		mg/kg wet	*0.005000*		*101*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.00411*		mg/kg wet	*0.005000*		*82*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.00414*		mg/kg wet	*0.005000*		*83*	*30-150*			
8270D Semi-Volatile Organic Compounds										
Batch CD50642 - 3546										
Blank										
1,2,4-Trichlorobenzene	ND	0.333	mg/kg wet							
1,2-Dichlorobenzene	ND	0.333	mg/kg wet							
1,3-Dichlorobenzene	ND	0.333	mg/kg wet							
1,4-Dichlorobenzene	ND	0.333	mg/kg wet							
2,4,5-Trichlorophenol	ND	0.333	mg/kg wet							
2,4,6-Trichlorophenol	ND	0.333	mg/kg wet							
2,4-Dichlorophenol	ND	0.333	mg/kg wet							
2,4-Dimethylphenol	ND	0.333	mg/kg wet							
2,4-Dinitrophenol	ND	1.67	mg/kg wet							
2,4-Dinitrotoluene	ND	0.333	mg/kg wet							
2,6-Dinitrotoluene	ND	0.333	mg/kg wet							
2-Chloronaphthalene	ND	0.333	mg/kg wet							
2-Chlorophenol	ND	0.333	mg/kg wet							
2-Methylphenol	ND	0.333	mg/kg wet							
2-Nitrophenol	ND	0.333	mg/kg wet							
3,3´-Dichlorobenzidine	ND	0.667	mg/kg wet							
3+4-Methylphenol	ND	0.667	mg/kg wet							
4-Bromophenyl-phenylether	ND	0.333	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503512

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D Semi-Volatile Organic Compounds										
Batch CD50642 - 3546										
4-Chloroaniline	ND	0.667	mg/kg wet							
4-Nitrophenol	ND	1.67	mg/kg wet							
Acetophenone	ND	0.667	mg/kg wet							
Aniline	ND	1.67	mg/kg wet							
Azobenzene	ND	0.333	mg/kg wet							
bis(2-Chloroethoxy)methane	ND	0.333	mg/kg wet							
bis(2-Chloroethyl)ether	ND	0.333	mg/kg wet							
bis(2-chloroisopropyl)Ether	ND	0.333	mg/kg wet							
bis(2-Ethylhexyl)phthalate	ND	0.333	mg/kg wet							
Butylbenzylphthalate	ND	0.333	mg/kg wet							
Dibenzofuran	ND	0.333	mg/kg wet							
Diethylphthalate	ND	0.333	mg/kg wet							
Dimethylphthalate	ND	0.333	mg/kg wet							
Di-n-butylphthalate	ND	0.333	mg/kg wet							
Di-n-octylphthalate	ND	0.333	mg/kg wet							
Hexachlorobutadiene	ND	0.333	mg/kg wet							
Hexachloroethane	ND	0.333	mg/kg wet							
Isophorone	ND	0.333	mg/kg wet							
Nitrobenzene	ND	0.333	mg/kg wet							
N-Nitrosodimethylamine	ND	0.333	mg/kg wet							
Pentachlorophenol	ND	1.67	mg/kg wet							
Phenol	ND	0.333	mg/kg wet							
Surrogate: 1,2-Dichlorobenzene-d4	*2.06*		mg/kg wet	*3.333*		*62*	*30-130*			
Surrogate: 2,4,6-Tribromophenol	*3.70*		mg/kg wet	*5.000*		*74*	*30-130*			
Surrogate: 2-Chlorophenol-d4	*3.23*		mg/kg wet	*5.000*		*65*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*2.17*		mg/kg wet	*3.333*		*65*	*30-130*			
Surrogate: 2-Fluorophenol	*3.33*		mg/kg wet	*5.000*		*67*	*30-130*			
Surrogate: Nitrobenzene-d5	*2.07*		mg/kg wet	*3.333*		*62*	*30-130*			
Surrogate: Phenol-d6	*3.48*		mg/kg wet	*5.000*		*70*	*30-130*			
Surrogate: p-Terphenyl-d14	*2.92*		mg/kg wet	*3.333*		*88*	*30-130*			
LCS										
1,2,4-Trichlorobenzene	1.74	0.333	mg/kg wet	3.333		52	40-140			
1,2-Dichlorobenzene	1.78	0.333	mg/kg wet	3.333		53	40-140			
1,3-Dichlorobenzene	1.76	0.333	mg/kg wet	3.333		53	40-140			
1,4-Dichlorobenzene	1.72	0.333	mg/kg wet	3.333		52	40-140			
2,4,5-Trichlorophenol	2.37	0.333	mg/kg wet	3.333		71	30-130			
2,4,6-Trichlorophenol	2.22	0.333	mg/kg wet	3.333		67	30-130			
2,4-Dichlorophenol	1.88	0.333	mg/kg wet	3.333		56	30-130			
2,4-Dimethylphenol	2.01	0.333	mg/kg wet	3.333		60	30-130			
2,4-Dinitrophenol	1.94	1.67	mg/kg wet	3.333		58	30-130			
2,4-Dinitrotoluene	2.47	0.333	mg/kg wet	3.333		74	40-140			
2,6-Dinitrotoluene	2.32	0.333	mg/kg wet	3.333		70	40-140			
2-Chloronaphthalene	1.55	0.333	mg/kg wet	3.333		47	40-140			
2-Chlorophenol	1.84	0.333	mg/kg wet	3.333		55	30-130			
2-Methylphenol	1.93	0.333	mg/kg wet	3.333		58	30-130			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503512

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D Semi-Volatile Organic Compounds										
Batch CD50642 - 3546										
2-Nitrophenol	1.81	0.333	mg/kg wet	3.333		54	30-130			
3,3´-Dichlorobenzidine	0.816	0.667	mg/kg wet	3.333		24	40-140			B-
3+4-Methylphenol	3.98	0.667	mg/kg wet	6.667		60	30-130			
4-Bromophenyl-phenylether	2.25	0.333	mg/kg wet	3.333		67	40-140			
4-Chloroaniline	1.25	0.667	mg/kg wet	3.333		38	40-140			B-
4-Nitrophenol	2.23	1.67	mg/kg wet	3.333		67	30-130			
Acetophenone	2.05	0.667	mg/kg wet	3.333		61	40-140			
Aniline	1.32	1.67	mg/kg wet	3.333		39	40-140			B-
Azobenzene	2.14	0.333	mg/kg wet	3.333		64	40-140			
bis(2-Chloroethoxy)methane	1.83	0.333	mg/kg wet	3.333		55	40-140			
bis(2-Chloroethyl)ether	1.83	0.333	mg/kg wet	3.333		55	40-140			
bis(2-chloroisopropyl)Ether	1.96	0.333	mg/kg wet	3.333		59	40-140			
bis(2-Ethylhexyl)phthalate	2.60	0.333	mg/kg wet	3.333		78	40-140			
Butylbenzylphthalate	2.65	0.333	mg/kg wet	3.333		79	40-140			
Dibenzofuran	2.09	0.333	mg/kg wet	3.333		63	40-140			
Diethylphthalate	2.39	0.333	mg/kg wet	3.333		72	40-140			
Dimethylphthalate	2.30	0.333	mg/kg wet	3.333		69	40-140			
Di-n-butylphthalate	2.39	0.333	mg/kg wet	3.333		72	40-140			
Di-n-octylphthalate	2.84	0.333	mg/kg wet	3.333		85	40-140			
Hexachlorobutadiene	1.70	0.333	mg/kg wet	3.333		51	40-140			
Hexachloroethane	1.68	0.333	mg/kg wet	3.333		50	40-140			
Isophorone	1.82	0.333	mg/kg wet	3.333		55	40-140			
Nitrobenzene	1.88	0.333	mg/kg wet	3.333		56	40-140			
N-Nitrosodimethylamine	1.91	0.333	mg/kg wet	3.333		57	40-140			
Pentachlorophenol	2.22	1.67	mg/kg wet	3.333		67	30-130			
Phenol	1.97	0.333	mg/kg wet	3.333		59	30-130			
Surrogate: 1,2-Dichlorobenzene-d4	*2.00*		mg/kg wet	*3.333*		*60*	*30-130*			
Surrogate: 2,4,6-Tribromophenol	*3.63*		mg/kg wet	*5.000*		*73*	*30-130*			
Surrogate: 2-Chlorophenol-d4	*3.06*		mg/kg wet	*5.000*		*61*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*2.10*		mg/kg wet	*3.333*		*63*	*30-130*			
Surrogate: 2-Fluorophenol	*3.24*		mg/kg wet	*5.000*		*65*	*30-130*			
Surrogate: Nitrobenzene-d5	*2.04*		mg/kg wet	*3.333*		*61*	*30-130*			
Surrogate: Phenol-d6	*3.32*		mg/kg wet	*5.000*		*66*	*30-130*			
Surrogate: p-Terphenyl-d14	*2.82*		mg/kg wet	*3.333*		*84*	*30-130*			
LCS Dup										
1,2,4-Trichlorobenzene	1.79	0.333	mg/kg wet	3.333		54	40-140	3	30	
1,2-Dichlorobenzene	1.71	0.333	mg/kg wet	3.333		51	40-140	4	30	
1,3-Dichlorobenzene	1.75	0.333	mg/kg wet	3.333		52	40-140	0.5	30	
1,4-Dichlorobenzene	1.70	0.333	mg/kg wet	3.333		51	40-140	1	30	
2,4,5-Trichlorophenol	2.55	0.333	mg/kg wet	3.333		76	30-130	7	30	
2,4,6-Trichlorophenol	2.44	0.333	mg/kg wet	3.333		73	30-130	9	30	
2,4-Dichlorophenol	1.94	0.333	mg/kg wet	3.333		58	30-130	3	30	
2,4-Dimethylphenol	2.04	0.333	mg/kg wet	3.333		61	30-130	1	30	
2,4-Dinitrophenol	2.35	1.67	mg/kg wet	3.333		71	30-130	19	30	
2,4-Dinitrotoluene	2.70	0.333	mg/kg wet	3.333		81	40-140	9	30	

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503512

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D Semi-Volatile Organic Compounds										
Batch CD50642 - 3546										
2,6-Dinitrotoluene	2.48	0.333	mg/kg wet	3.333		75	40-140	7	30	
2-Chloronaphthalene	1.66	0.333	mg/kg wet	3.333		50	40-140	7	30	
2-Chlorophenol	1.83	0.333	mg/kg wet	3.333		55	30-130	0.6	30	
2-Methylphenol	1.91	0.333	mg/kg wet	3.333		57	30-130	1	30	
2-Nitrophenol	1.90	0.333	mg/kg wet	3.333		57	30-130	5	30	
3,3´-Dichlorobenzidine	1.33	0.667	mg/kg wet	3.333		40	40-140	48	30	D+
3+4-Methylphenol	3.84	0.667	mg/kg wet	6.667		58	30-130	4	30	
4-Bromophenyl-phenylether	2.35	0.333	mg/kg wet	3.333		71	40-140	5	30	
4-Chloroaniline	1.27	0.667	mg/kg wet	3.333		38	40-140	1	30	B-
4-Nitrophenol	2.43	1.67	mg/kg wet	3.333		73	30-130	9	30	
Acetophenone	1.91	0.667	mg/kg wet	3.333		57	40-140	7	30	
Aniline	1.23	1.67	mg/kg wet	3.333		37	40-140	6	30	B-
Azobenzene	2.28	0.333	mg/kg wet	3.333		68	40-140	6	30	
bis(2-Chloroethoxy)methane	1.98	0.333	mg/kg wet	3.333		59	40-140	8	30	
bis(2-Chloroethyl)ether	1.91	0.333	mg/kg wet	3.333		57	40-140	5	30	
bis(2-chloroisopropyl)Ether	1.90	0.333	mg/kg wet	3.333		57	40-140	3	30	
bis(2-Ethylhexyl)phthalate	2.64	0.333	mg/kg wet	3.333		79	40-140	1	30	
Butylbenzylphthalate	2.63	0.333	mg/kg wet	3.333		79	40-140	0.7	30	
Dibenzofuran	2.20	0.333	mg/kg wet	3.333		66	40-140	5	30	
Diethylphthalate	2.49	0.333	mg/kg wet	3.333		75	40-140	4	30	
Dimethylphthalate	2.36	0.333	mg/kg wet	3.333		71	40-140	3	30	
Di-n-butylphthalate	2.56	0.333	mg/kg wet	3.333		77	40-140	7	30	
Di-n-octylphthalate	2.79	0.333	mg/kg wet	3.333		84	40-140	2	30	
Hexachlorobutadiene	1.77	0.333	mg/kg wet	3.333		53	40-140	4	30	
Hexachloroethane	1.62	0.333	mg/kg wet	3.333		49	40-140	4	30	
Isophorone	1.87	0.333	mg/kg wet	3.333		56	40-140	2	30	
Nitrobenzene	1.98	0.333	mg/kg wet	3.333		59	40-140	5	30	
N-Nitrosodimethylamine	1.85	0.333	mg/kg wet	3.333		55	40-140	3	30	
Pentachlorophenol	2.61	1.67	mg/kg wet	3.333		78	30-130	16	30	
Phenol	1.89	0.333	mg/kg wet	3.333		57	30-130	4	30	
Surrogate: 1,2-Dichlorobenzene-d4	*1.88*		mg/kg wet	*3.333*		*56*	*30-130*			
Surrogate: 2,4,6-Tribromophenol	*4.07*		mg/kg wet	*5.000*		*81*	*30-130*			
Surrogate: 2-Chlorophenol-d4	*2.84*		mg/kg wet	*5.000*		*57*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*2.12*		mg/kg wet	*3.333*		*64*	*30-130*			
Surrogate: 2-Fluorophenol	*2.96*		mg/kg wet	*5.000*		*59*	*30-130*			
Surrogate: Nitrobenzene-d5	*2.03*		mg/kg wet	*3.333*		*61*	*30-130*			
Surrogate: Phenol-d6	*3.09*		mg/kg wet	*5.000*		*62*	*30-130*			
Surrogate: p-Terphenyl-d14	*2.74*		mg/kg wet	*3.333*		*82*	*30-130*			
Batch CD50643 - 3546										
Blank										
1,2,4-Trichlorobenzene	ND	0.333	mg/kg wet							
1,2-Dichlorobenzene	ND	0.333	mg/kg wet							
1,3-Dichlorobenzene	ND	0.333	mg/kg wet							
1,4-Dichlorobenzene	ND	0.333	mg/kg wet							
2,4,5-Trichlorophenol	ND	0.333	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503512

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D Semi-Volatile Organic Compounds										
Batch CD50643 - 3546										
2,4,6-Trichlorophenol	ND	0.333	mg/kg wet							
2,4-Dichlorophenol	ND	0.333	mg/kg wet							
2,4-Dimethylphenol	ND	0.333	mg/kg wet							
2,4-Dinitrophenol	ND	1.67	mg/kg wet							
2,4-Dinitrotoluene	ND	0.333	mg/kg wet							
2,6-Dinitrotoluene	ND	0.333	mg/kg wet							
2-Chloronaphthalene	ND	0.333	mg/kg wet							
2-Chlorophenol	ND	0.333	mg/kg wet							
2-Methylphenol	ND	0.333	mg/kg wet							
2-Nitrophenol	ND	0.333	mg/kg wet							
3,3´-Dichlorobenzidine	ND	0.667	mg/kg wet							
3+4-Methylphenol	ND	0.667	mg/kg wet							
4-Bromophenyl-phenylether	ND	0.333	mg/kg wet							
4-Chloroaniline	ND	0.667	mg/kg wet							
4-Nitrophenol	ND	1.67	mg/kg wet							
Acetophenone	ND	0.667	mg/kg wet							
Aniline	ND	1.67	mg/kg wet							
Azobenzene	ND	0.333	mg/kg wet							
bis(2-Chloroethoxy)methane	ND	0.333	mg/kg wet							
bis(2-Chloroethyl)ether	ND	0.333	mg/kg wet							
bis(2-chloroisopropyl)Ether	ND	0.333	mg/kg wet							
bis(2-Ethylhexyl)phthalate	ND	0.333	mg/kg wet							
Butylbenzylphthalate	ND	0.333	mg/kg wet							
Dibenzofuran	ND	0.333	mg/kg wet							
Diethylphthalate	ND	0.333	mg/kg wet							
Dimethylphthalate	ND	0.333	mg/kg wet							
Di-n-butylphthalate	ND	0.333	mg/kg wet							
Di-n-octylphthalate	ND	0.333	mg/kg wet							
Hexachlorobutadiene	ND	0.333	mg/kg wet							
Hexachloroethane	ND	0.333	mg/kg wet							
Isophorone	ND	0.333	mg/kg wet							
Nitrobenzene	ND	0.333	mg/kg wet							
N-Nitrosodimethylamine	ND	0.333	mg/kg wet							
Pentachlorophenol	ND	1.67	mg/kg wet							
Phenol	ND	0.333	mg/kg wet							
Surrogate: 1,2-Dichlorobenzene-d4	*2.82*		mg/kg wet	*3.333*		*85*	*30-130*			
Surrogate: 2,4,6-Tribromophenol	*3.78*		mg/kg wet	*5.000*		*76*	*30-130*			
Surrogate: 2-Chlorophenol-d4	*4.34*		mg/kg wet	*5.000*		*87*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*2.86*		mg/kg wet	*3.333*		*86*	*30-130*			
Surrogate: 2-Fluorophenol	*4.23*		mg/kg wet	*5.000*		*85*	*30-130*			
Surrogate: Nitrobenzene-d5	*2.91*		mg/kg wet	*3.333*		*87*	*30-130*			
Surrogate: Phenol-d6	*4.58*		mg/kg wet	*5.000*		*92*	*30-130*			
Surrogate: p-Terphenyl-d14	*3.85*		mg/kg wet	*3.333*		*116*	*30-130*			
LCS										
1,2,4-Trichlorobenzene	2.64	0.333	mg/kg wet	3.333		79	40-140			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503512

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D Semi-Volatile Organic Compounds										
Batch CD50643 - 3546										
1,2-Dichlorobenzene	2.65	0.333	mg/kg wet	3.333		79	40-140			
1,3-Dichlorobenzene	2.61	0.333	mg/kg wet	3.333		78	40-140			
1,4-Dichlorobenzene	2.59	0.333	mg/kg wet	3.333		78	40-140			
2,4,5-Trichlorophenol	3.05	0.333	mg/kg wet	3.333		91	30-130			
2,4,6-Trichlorophenol	3.17	0.333	mg/kg wet	3.333		95	30-130			
2,4-Dichlorophenol	2.87	0.333	mg/kg wet	3.333		86	30-130			
2,4-Dimethylphenol	2.98	0.333	mg/kg wet	3.333		89	30-130			
2,4-Dinitrophenol	2.18	1.67	mg/kg wet	3.333		65	30-130			
2,4-Dinitrotoluene	2.25	0.333	mg/kg wet	3.333		68	40-140			
2,6-Dinitrotoluene	2.47	0.333	mg/kg wet	3.333		74	40-140			
2-Chloronaphthalene	2.67	0.333	mg/kg wet	3.333		80	40-140			
2-Chlorophenol	2.89	0.333	mg/kg wet	3.333		87	30-130			
2-Methylphenol	3.02	0.333	mg/kg wet	3.333		91	30-130			
2-Nitrophenol	3.01	0.333	mg/kg wet	3.333		90	30-130			
3,3´-Dichlorobenzidine	2.12	0.667	mg/kg wet	3.333		64	40-140			
3+4-Methylphenol	5.92	0.667	mg/kg wet	6.667		89	30-130			
4-Bromophenyl-phenylether	3.25	0.333	mg/kg wet	3.333		98	40-140			
4-Chloroaniline	1.57	0.667	mg/kg wet	3.333		47	40-140			
4-Nitrophenol	2.01	1.67	mg/kg wet	3.333		60	30-130			
Acetophenone	3.13	0.667	mg/kg wet	3.333		94	40-140			
Aniline	2.16	1.67	mg/kg wet	3.333		65	40-140			
Azobenzene	3.35	0.333	mg/kg wet	3.333		100	40-140			
bis(2-Chloroethoxy)methane	2.84	0.333	mg/kg wet	3.333		85	40-140			
bis(2-Chloroethyl)ether	2.98	0.333	mg/kg wet	3.333		90	40-140			
bis(2-chloroisopropyl)Ether	2.86	0.333	mg/kg wet	3.333		86	40-140			
bis(2-Ethylhexyl)phthalate	2.94	0.333	mg/kg wet	3.333		88	40-140			
Butylbenzylphthalate	2.82	0.333	mg/kg wet	3.333		85	40-140			
Dibenzofuran	2.59	0.333	mg/kg wet	3.333		78	40-140			
Diethylphthalate	2.31	0.333	mg/kg wet	3.333		69	40-140			
Dimethylphthalate	2.47	0.333	mg/kg wet	3.333		74	40-140			
Di-n-butylphthalate	2.73	0.333	mg/kg wet	3.333		82	40-140			
Di-n-octylphthalate	2.90	0.333	mg/kg wet	3.333		87	40-140			
Hexachlorobutadiene	2.70	0.333	mg/kg wet	3.333		81	40-140			
Hexachloroethane	2.50	0.333	mg/kg wet	3.333		75	40-140			
Isophorone	2.56	0.333	mg/kg wet	3.333		77	40-140			
Nitrobenzene	2.75	0.333	mg/kg wet	3.333		82	40-140			
N-Nitrosodimethylamine	2.53	0.333	mg/kg wet	3.333		76	40-140			
Pentachlorophenol	3.05	1.67	mg/kg wet	3.333		91	30-130			
Phenol	2.87	0.333	mg/kg wet	3.333		86	30-130			
Surrogate: 1,2-Dichlorobenzene-d4	*2.89*		mg/kg wet	*3.333*		*87*	*30-130*			
Surrogate: 2,4,6-Tribromophenol	*5.10*		mg/kg wet	*5.000*		*102*	*30-130*			
Surrogate: 2-Chlorophenol-d4	*4.70*		mg/kg wet	*5.000*		*94*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*3.32*		mg/kg wet	*3.333*		*100*	*30-130*			
Surrogate: 2-Fluorophenol	*4.55*		mg/kg wet	*5.000*		*91*	*30-130*			
Surrogate: Nitrobenzene-d5	*2.98*		mg/kg wet	*3.333*		*89*	*30-130*			
Surrogate: Phenol-d6	*4.90*		mg/kg wet	*5.000*		*98*	*30-130*			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503512

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D Semi-Volatile Organic Compounds										
Batch CD50643 - 3546										
Surrogate: p-Terphenyl-d14	*3.02*		mg/kg wet	*3.333*		*91*	*30-130*			
LCS Dup										
1,2,4-Trichlorobenzene	2.51	0.333	mg/kg wet	3.333		75	40-140	5	30	
1,2-Dichlorobenzene	2.54	0.333	mg/kg wet	3.333		76	40-140	4	30	
1,3-Dichlorobenzene	2.52	0.333	mg/kg wet	3.333		76	40-140	4	30	
1,4-Dichlorobenzene	2.48	0.333	mg/kg wet	3.333		74	40-140	4	30	
2,4,5-Trichlorophenol	2.98	0.333	mg/kg wet	3.333		90	30-130	2	30	
2,4,6-Trichlorophenol	2.98	0.333	mg/kg wet	3.333		89	30-130	6	30	
2,4-Dichlorophenol	2.84	0.333	mg/kg wet	3.333		85	30-130	1	30	
2,4-Dimethylphenol	2.90	0.333	mg/kg wet	3.333		87	30-130	3	30	
2,4-Dinitrophenol	2.35	1.67	mg/kg wet	3.333		70	30-130	8	30	
2,4-Dinitrotoluene	2.47	0.333	mg/kg wet	3.333		74	40-140	9	30	
2,6-Dinitrotoluene	2.62	0.333	mg/kg wet	3.333		79	40-140	6	30	
2-Chloronaphthalene	2.38	0.333	mg/kg wet	3.333		72	40-140	11	30	
2-Chlorophenol	2.69	0.333	mg/kg wet	3.333		81	30-130	7	30	
2-Methylphenol	2.86	0.333	mg/kg wet	3.333		86	30-130	5	30	
2-Nitrophenol	2.88	0.333	mg/kg wet	3.333		86	30-130	5	30	
3,3´-Dichlorobenzidine	2.15	0.667	mg/kg wet	3.333		65	40-140	1	30	
3+4-Methylphenol	5.79	0.667	mg/kg wet	6.667		87	30-130	2	30	
4-Bromophenyl-phenylether	3.05	0.333	mg/kg wet	3.333		91	40-140	6	30	
4-Chloroaniline	1.82	0.667	mg/kg wet	3.333		55	40-140	15	30	
4-Nitrophenol	2.16	1.67	mg/kg wet	3.333		65	30-130	7	30	
Acetophenone	2.97	0.667	mg/kg wet	3.333		89	40-140	5	30	
Aniline	1.96	1.67	mg/kg wet	3.333		59	40-140	10	30	
Azobenzene	3.04	0.333	mg/kg wet	3.333		91	40-140	10	30	
bis(2-Chloroethoxy)methane	2.72	0.333	mg/kg wet	3.333		81	40-140	5	30	
bis(2-Chloroethyl)ether	2.80	0.333	mg/kg wet	3.333		84	40-140	6	30	
bis(2-chloroisopropyl)Ether	2.66	0.333	mg/kg wet	3.333		80	40-140	7	30	
bis(2-Ethylhexyl)phthalate	2.84	0.333	mg/kg wet	3.333		85	40-140	3	30	
Butylbenzylphthalate	2.79	0.333	mg/kg wet	3.333		84	40-140	1	30	
Dibenzofuran	2.58	0.333	mg/kg wet	3.333		77	40-140	0.2	30	
Diethylphthalate	2.53	0.333	mg/kg wet	3.333		76	40-140	9	30	
Dimethylphthalate	2.58	0.333	mg/kg wet	3.333		77	40-140	4	30	
Di-n-butylphthalate	2.66	0.333	mg/kg wet	3.333		80	40-140	3	30	
Di-n-octylphthalate	2.73	0.333	mg/kg wet	3.333		82	40-140	6	30	
Hexachlorobutadiene	2.49	0.333	mg/kg wet	3.333		75	40-140	8	30	
Hexachloroethane	2.42	0.333	mg/kg wet	3.333		73	40-140	3	30	
Isophorone	2.58	0.333	mg/kg wet	3.333		77	40-140	0.7	30	
Nitrobenzene	2.60	0.333	mg/kg wet	3.333		78	40-140	5	30	
N-Nitrosodimethylamine	2.49	0.333	mg/kg wet	3.333		75	40-140	2	30	
Pentachlorophenol	2.91	1.67	mg/kg wet	3.333		87	30-130	5	30	
Phenol	2.72	0.333	mg/kg wet	3.333		82	30-130	5	30	
Surrogate: 1,2-Dichlorobenzene-d4	*2.69*		mg/kg wet	*3.333*		*81*	*30-130*			
Surrogate: 2,4,6-Tribromophenol	*4.74*		mg/kg wet	*5.000*		*95*	*30-130*			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503512

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D Semi-Volatile Organic Compounds										
Batch CD50643 - 3546										
Surrogate: 2-Chlorophenol-d4	*4.29*		mg/kg wet	*5.000*		*86*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*2.85*		mg/kg wet	*3.333*		*85*	*30-130*			
Surrogate: 2-Fluorophenol	*4.12*		mg/kg wet	*5.000*		*82*	*30-130*			
Surrogate: Nitrobenzene-d5	*2.77*		mg/kg wet	*3.333*		*83*	*30-130*			
Surrogate: Phenol-d6	*4.45*		mg/kg wet	*5.000*		*89*	*30-130*			
Surrogate: p-Terphenyl-d14	*3.00*		mg/kg wet	*3.333*		*90*	*30-130*			
8270D(SIM) Polynuclear Aromatic Hydrocarbons										
Batch CD50136 - 3546										
Blank										
2-Methylnaphthalene	ND	0.012	mg/kg wet							
Acenaphthene	ND	0.012	mg/kg wet							
Acenaphthylene	ND	0.012	mg/kg wet							
Anthracene	ND	0.012	mg/kg wet							
Benzo(a)anthracene	ND	0.012	mg/kg wet							
Benzo(a)pyrene	ND	0.012	mg/kg wet							
Benzo(b)fluoranthene	ND	0.012	mg/kg wet							
Benzo(g,h,i)perylene	ND	0.012	mg/kg wet							
Benzo(k)fluoranthene	ND	0.012	mg/kg wet							
Chrysene	ND	0.012	mg/kg wet							
Dibenzo(a,h)Anthracene	ND	0.012	mg/kg wet							
Fluoranthene	ND	0.012	mg/kg wet							
Fluorene	ND	0.012	mg/kg wet							
Hexachlorobenzene	ND	0.012	mg/kg wet							
Indeno(1,2,3-cd)Pyrene	ND	0.012	mg/kg wet							
Naphthalene	ND	0.012	mg/kg wet							
Phenanthrene	ND	0.012	mg/kg wet							
Pyrene	ND	0.012	mg/kg wet							
Surrogate: 1,2-Dichlorobenzene-d4	*0.165*		mg/kg wet	*0.2500*		*66*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*0.193*		mg/kg wet	*0.2500*		*77*	*30-130*			
Surrogate: Nitrobenzene-d5	*0.214*		mg/kg wet	*0.2500*		*85*	*30-130*			
Surrogate: p-Terphenyl-d14	*0.235*		mg/kg wet	*0.2500*		*94*	*30-130*			
LCS										
2-Methylnaphthalene	0.103	0.012	mg/kg wet	0.2000		52	40-140			
Acenaphthene	0.120	0.012	mg/kg wet	0.2000		60	40-140			
Acenaphthylene	0.118	0.012	mg/kg wet	0.2000		59	40-140			
Anthracene	0.134	0.012	mg/kg wet	0.2000		67	40-140			
Benzo(a)anthracene	0.143	0.012	mg/kg wet	0.2000		72	40-140			
Benzo(a)pyrene	0.148	0.012	mg/kg wet	0.2000		74	40-140			
Benzo(b)fluoranthene	0.152	0.012	mg/kg wet	0.2000		76	40-140			
Benzo(g,h,i)perylene	0.149	0.012	mg/kg wet	0.2000		74	40-140			
Benzo(k)fluoranthene	0.151	0.012	mg/kg wet	0.2000		75	40-140			
Chrysene	0.153	0.012	mg/kg wet	0.2000		77	40-140			
Dibenzo(a,h)Anthracene	0.158	0.012	mg/kg wet	0.2000		79	40-140			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503512

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D(SIM) Polynuclear Aromatic Hydrocarbons										
Batch CD50136 - 3546										
Fluoranthene	0.147	0.012	mg/kg wet	0.2000		73	40-140			
Fluorene	0.133	0.012	mg/kg wet	0.2000		66	40-140			
Hexachlorobenzene	0.138	0.012	mg/kg wet	0.2000		69	40-140			
Indeno(1,2,3-cd)Pyrene	0.147	0.012	mg/kg wet	0.2000		73	40-140			
Naphthalene	0.100	0.012	mg/kg wet	0.2000		50	40-140			
Phenanthrene	0.127	0.012	mg/kg wet	0.2000		63	40-140			
Pyrene	0.151	0.012	mg/kg wet	0.2000		75	40-140			
Surrogate: 1,2-Dichlorobenzene-d4	*0.148*		mg/kg wet	*0.2500*		*59*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*0.181*		mg/kg wet	*0.2500*		*72*	*30-130*			
Surrogate: Nitrobenzene-d5	*0.184*		mg/kg wet	*0.2500*		*74*	*30-130*			
Surrogate: p-Terphenyl-d14	*0.238*		mg/kg wet	*0.2500*		*95*	*30-130*			
LCS Dup										
2-Methylnaphthalene	0.110	0.012	mg/kg wet	0.2000		55	40-140	7	30	
Acenaphthene	0.129	0.012	mg/kg wet	0.2000		65	40-140	7	30	
Acenaphthylene	0.126	0.012	mg/kg wet	0.2000		63	40-140	6	30	
Anthracene	0.132	0.012	mg/kg wet	0.2000		66	40-140	2	30	
Benzo(a)anthracene	0.144	0.012	mg/kg wet	0.2000		72	40-140	0.3	30	
Benzo(a)pyrene	0.144	0.012	mg/kg wet	0.2000		72	40-140	3	30	
Benzo(b)fluoranthene	0.157	0.012	mg/kg wet	0.2000		78	40-140	3	30	
Benzo(g,h,i)perylene	0.156	0.012	mg/kg wet	0.2000		78	40-140	4	30	
Benzo(k)fluoranthene	0.160	0.012	mg/kg wet	0.2000		80	40-140	6	30	
Chrysene	0.160	0.012	mg/kg wet	0.2000		80	40-140	4	30	
Dibenzo(a,h)Anthracene	0.162	0.012	mg/kg wet	0.2000		81	40-140	3	30	
Fluoranthene	0.149	0.012	mg/kg wet	0.2000		74	40-140	2	30	
Fluorene	0.142	0.012	mg/kg wet	0.2000		71	40-140	7	30	
Hexachlorobenzene	0.153	0.012	mg/kg wet	0.2000		77	40-140	11	30	
Indeno(1,2,3-cd)Pyrene	0.158	0.012	mg/kg wet	0.2000		79	40-140	8	30	
Naphthalene	0.110	0.012	mg/kg wet	0.2000		55	40-140	9	30	
Phenanthrene	0.129	0.012	mg/kg wet	0.2000		64	40-140	2	30	
Pyrene	0.149	0.012	mg/kg wet	0.2000		75	40-140	1	30	
Surrogate: 1,2-Dichlorobenzene-d4	*0.146*		mg/kg wet	*0.2500*		*59*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*0.182*		mg/kg wet	*0.2500*		*73*	*30-130*			
Surrogate: Nitrobenzene-d5	*0.184*		mg/kg wet	*0.2500*		*74*	*30-130*			
Surrogate: p-Terphenyl-d14	*0.218*		mg/kg wet	*0.2500*		*87*	*30-130*			
Classical Chemistry										
Batch CC52807 - General Preparation										
Blank										
Hexavalent Chromium	ND	0.7	mg/kg wet							
LCS										
Hexavalent Chromium	32.4	0.7	mg/kg wet	33.32		97	80-120			
LCS Dup										
Hexavalent Chromium	32.6	0.7	mg/kg wet	33.32		98	80-120	0.5	20	
Reference										

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503512

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Classical Chemistry										
Batch CC52807 - General Preparation										
Hexavalent Chromium	99.8	2.0	mg/kg wet	125.0		80	61-139			
Batch CC53003 - General Preparation										
Blank										
Reactive Cyanide	ND	2.0	mg/kg							
Reactive Sulfide	ND	2.0	mg/kg							
LCS										
Reactive Cyanide	3.8	2.0	mg/kg	100.3		4	0.68-5.41			
Reactive Sulfide	0.2	2.0	mg/kg	10.00		2	0-44			
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CC53112 - 3546										
Blank										
C19-C36 Aliphatics1	ND	15.0	mg/kg wet							
C9-C18 Aliphatics1	ND	15.0	mg/kg wet							
Decane (C10)	ND	0.5	mg/kg wet							
Docosane (C22)	ND	0.5	mg/kg wet							
Dodecane (C12)	ND	0.5	mg/kg wet							
Eicosane (C20)	ND	0.5	mg/kg wet							
Hexacosane (C26)	ND	0.5	mg/kg wet							
Hexadecane (C16)	ND	0.5	mg/kg wet							
Hexatriacontane (C36)	ND	0.5	mg/kg wet							
Nonadecane (C19)	ND	0.5	mg/kg wet							
Nonane (C9)	ND	0.5	mg/kg wet							
Octacosane (C28)	ND	0.5	mg/kg wet							
Octadecane (C18)	ND	0.5	mg/kg wet							
Tetracosane (C24)	ND	0.5	mg/kg wet							
Tetradecane (C14)	ND	0.5	mg/kg wet							
Triacontane (C30)	ND	0.5	mg/kg wet							
Surrogate: 1-Chlorooctadecane	*1.38*		mg/kg wet	*2.000*		*69*	*40-140*			
Blank										
2-Methylnaphthalene	ND	0.20	mg/kg wet							
Acenaphthene	ND	0.40	mg/kg wet							
Acenaphthylene	ND	0.20	mg/kg wet							
Anthracene	ND	0.40	mg/kg wet							
Benzo(a)anthracene	ND	0.40	mg/kg wet							
Benzo(a)pyrene	ND	0.40	mg/kg wet							
Benzo(b)fluoranthene	ND	0.40	mg/kg wet							
Benzo(g,h,i)perylene	ND	0.40	mg/kg wet							
Benzo(k)fluoranthene	ND	0.40	mg/kg wet							
C11-C22 Unadjusted Aromatics1	ND	15.0	mg/kg wet							
Chrysene	ND	0.40	mg/kg wet							
Dibenzo(a,h)Anthracene	ND	0.20	mg/kg wet							
Fluoranthene	ND	0.40	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503512

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CC53112 - 3546										
Fluorene	ND	0.40	mg/kg wet							
Indeno(1,2,3-cd)Pyrene	ND	0.40	mg/kg wet							
Naphthalene	ND	0.40	mg/kg wet							
Phenanthrene	ND	0.40	mg/kg wet							
Pyrene	ND	0.40	mg/kg wet							
Surrogate: 2-Bromonaphthalene	*1.56*		mg/kg wet	*2.000*		*78*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*1.50*		mg/kg wet	*2.000*		*75*	*40-140*			
Surrogate: O-Terphenyl	*1.57*		mg/kg wet	*2.000*		*78*	*40-140*			
LCS										
C19-C36 Aliphatics1	16.5	15.0	mg/kg wet	16.00		103	40-140			
C9-C18 Aliphatics1	10.0	15.0	mg/kg wet	12.00		83	40-140			
Decane (C10)	1.1	0.5	mg/kg wet	2.000		56	40-140			
Docosane (C22)	1.8	0.5	mg/kg wet	2.000		91	40-140			
Dodecane (C12)	1.1	0.5	mg/kg wet	2.000		56	40-140			
Eicosane (C20)	1.8	0.5	mg/kg wet	2.000		89	40-140			
Hexacosane (C26)	1.9	0.5	mg/kg wet	2.000		94	40-140			
Hexadecane (C16)	1.5	0.5	mg/kg wet	2.000		75	40-140			
Hexatriacontane (C36)	1.8	0.5	mg/kg wet	2.000		91	40-140			
Nonadecane (C19)	1.8	0.5	mg/kg wet	2.000		89	40-140			
Nonane (C9)	0.9	0.5	mg/kg wet	2.000		45	30-140			
Octacosane (C28)	1.8	0.5	mg/kg wet	2.000		91	40-140			
Octadecane (C18)	1.7	0.5	mg/kg wet	2.000		84	40-140			
Tetracosane (C24)	1.8	0.5	mg/kg wet	2.000		88	40-140			
Tetradecane (C14)	1.3	0.5	mg/kg wet	2.000		65	40-140			
Triacontane (C30)	1.8	0.5	mg/kg wet	2.000		90	40-140			
Surrogate: 1-Chlorooctadecane	*1.44*		mg/kg wet	*2.000*		*72*	*40-140*			
LCS										
2-Methylnaphthalene	1.33	0.20	mg/kg wet	2.000		67	40-140			
Acenaphthene	1.48	0.40	mg/kg wet	2.000		74	40-140			
Acenaphthylene	1.49	0.20	mg/kg wet	2.000		75	40-140			
Anthracene	1.87	0.40	mg/kg wet	2.000		93	40-140			
Benzo(a)anthracene	1.92	0.40	mg/kg wet	2.000		96	40-140			
Benzo(a)pyrene	2.07	0.40	mg/kg wet	2.000		104	40-140			
Benzo(b)fluoranthene	1.88	0.40	mg/kg wet	2.000		94	40-140			
Benzo(g,h,i)perylene	1.82	0.40	mg/kg wet	2.000		91	40-140			
Benzo(k)fluoranthene	1.87	0.40	mg/kg wet	2.000		94	40-140			
C11-C22 Unadjusted Aromatics1	35.0	15.0	mg/kg wet	34.00		103	40-140			
Chrysene	1.95	0.40	mg/kg wet	2.000		97	40-140			
Dibenzo(a,h)Anthracene	1.78	0.20	mg/kg wet	2.000		89	40-140			
Fluoranthene	1.85	0.40	mg/kg wet	2.000		93	40-140			
Fluorene	1.63	0.40	mg/kg wet	2.000		81	40-140			
Indeno(1,2,3-cd)Pyrene	1.83	0.40	mg/kg wet	2.000		91	40-140			
Naphthalene	1.25	0.40	mg/kg wet	2.000		62	40-140			
Phenanthrene	1.81	0.40	mg/kg wet	2.000		90	40-140			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503512

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CC53112 - 3546										
Pyrene	1.87	0.40	mg/kg wet	2.000		93	40-140			
Surrogate: 2-Bromonaphthalene	*1.59*		mg/kg wet	*2.000*		*79*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*1.56*		mg/kg wet	*2.000*		*78*	*40-140*			
Surrogate: O-Terphenyl	*1.63*		mg/kg wet	*2.000*		*81*	*40-140*			
LCS										
2-Methylnaphthalene Breakthrough	0.0		%				0-5			
Naphthalene Breakthrough	0.0		%				0-5			
LCS Dup										
C19-C36 Aliphatics1	16.1	15.0	mg/kg wet	16.00		101	40-140	3	25	
C9-C18 Aliphatics1	9.6	15.0	mg/kg wet	12.00		80	40-140	4	25	
Decane (C10)	1.1	0.5	mg/kg wet	2.000		57	40-140	0.6	25	
Docosane (C22)	1.8	0.5	mg/kg wet	2.000		91	40-140	0.6	25	
Dodecane (C12)	1.1	0.5	mg/kg wet	2.000		56	40-140	0.8	25	
Eicosane (C20)	1.8	0.5	mg/kg wet	2.000		88	40-140	0.2	25	
Hexacosane (C26)	1.9	0.5	mg/kg wet	2.000		93	40-140	0.7	25	
Hexadecane (C16)	1.5	0.5	mg/kg wet	2.000		76	40-140	0.2	25	
Hexatriacontane (C36)	1.8	0.5	mg/kg wet	2.000		90	40-140	0.4	25	
Nonadecane (C19)	1.8	0.5	mg/kg wet	2.000		89	40-140	0.3	25	
Nonane (C9)	0.9	0.5	mg/kg wet	2.000		44	30-140	1	25	
Octacosane (C28)	1.8	0.5	mg/kg wet	2.000		91	40-140	0.5	25	
Octadecane (C18)	1.7	0.5	mg/kg wet	2.000		84	40-140	0.08	25	
Tetracosane (C24)	1.8	0.5	mg/kg wet	2.000		88	40-140	0.08	25	
Tetradecane (C14)	1.3	0.5	mg/kg wet	2.000		65	40-140	0.09	25	
Triacontane (C30)	1.8	0.5	mg/kg wet	2.000		90	40-140	0.3	25	
Surrogate: 1-Chlorooctadecane	*1.38*		mg/kg wet	*2.000*		*69*	*40-140*			
LCS Dup										
2-Methylnaphthalene	1.37	0.20	mg/kg wet	2.000		69	40-140	3	20	
Acenaphthene	1.50	0.40	mg/kg wet	2.000		75	40-140	2	20	
Acenaphthylene	1.50	0.20	mg/kg wet	2.000		75	40-140	0.3	20	
Anthracene	1.77	0.40	mg/kg wet	2.000		89	40-140	5	20	
Benzo(a)anthracene	1.80	0.40	mg/kg wet	2.000		90	40-140	6	20	
Benzo(a)pyrene	1.97	0.40	mg/kg wet	2.000		98	40-140	5	20	
Benzo(b)fluoranthene	1.81	0.40	mg/kg wet	2.000		90	40-140	4	20	
Benzo(g,h,i)perylene	1.72	0.40	mg/kg wet	2.000		86	40-140	5	20	
Benzo(k)fluoranthene	1.74	0.40	mg/kg wet	2.000		87	40-140	8	20	
C11-C22 Unadjusted Aromatics1	32.1	15.0	mg/kg wet	34.00		94	40-140	9	25	
Chrysene	1.86	0.40	mg/kg wet	2.000		93	40-140	5	20	
Dibenzo(a,h)Anthracene	1.69	0.20	mg/kg wet	2.000		84	40-140	5	20	
Fluoranthene	1.77	0.40	mg/kg wet	2.000		89	40-140	5	20	
Fluorene	1.60	0.40	mg/kg wet	2.000		80	40-140	1	20	
Indeno(1,2,3-cd)Pyrene	1.74	0.40	mg/kg wet	2.000		87	40-140	5	20	
Naphthalene	1.26	0.40	mg/kg wet	2.000		63	40-140	1	20	
Phenanthrene	1.74	0.40	mg/kg wet	2.000		87	40-140	4	20	

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503512

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CC53112 - 3546										
Pyrene	1.75	0.40	mg/kg wet	2.000		88	40-140	6	20	
Surrogate: 2-Bromonaphthalene	*1.60*		mg/kg wet	*2.000*		*80*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*1.59*		mg/kg wet	*2.000*		*79*	*40-140*			
Surrogate: O-Terphenyl	*1.51*		mg/kg wet	*2.000*		*75*	*40-140*			
LCS Dup										
2-Methylnaphthalene Breakthrough	0.0		%				0-5		200	
Naphthalene Breakthrough	0.0		%				0-5		200	

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase ESS Laboratory Work Order: 1503512

Notes and Definitions

Q	Calibration required quadratic regression (Q).
B+	Blank Spike recovery is above upper control limit (B+).
C-	Continuing Calibration recovery is below lower control limit (C-).
C+	Continuing Calibration recovery is above upper control limit (C+).
D	Diluted.
D+	Relative percent difference for duplicate is outside of criteria (D+).
H	Estimated value. Sample hold times were exceeded (H).
B-	Blank Spike recovery is below lower control limit (B-).
P	Percent difference between primary and confirmation results exceeds 40% (P).
Z-10a	Soil pH measured in water at 15.6 ºC.
SC	Surrogate recovery(ies) outside of criteria. Reextraction/Reanalysis confirms results (SC).
SD	Surrogate recovery(ies) diluted below the MRL (SD).
U	Analyte included in the analysis, but not detected
WL	Results obtained from a deionized water leach of the sample.
Z-08	See Attached
Z-10	Soil pH measured in water at 15.1 ºC.
I	Internal Standard(s) outside of criteria (I).
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	Detection Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report
[2C]	Result was taken from the second column. Dual column analysis.

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503512

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Department of Defense (DoD) Environmental Laboratory Accreditation Program (ELAP)
A2LA Accredited: Testing Cert# 2864.01
http://www.a2la.org/scopepdf/2864-01.pdf

Rhode Island Potable and Non Potable Water: LAI00179
http://www.health.ri.gov/find/labs/analytical/ESS.pdf

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750
http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI0002
http://www.maine.gov/dhhs/mecdc/environmental-health/water/dwp-services/labcert/documents/AllLabs.xls

Massachusetts Potable and Non Potable Water: M-RI002
http://public.dep.state.ma.us/Labcert/Labcert.aspx

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424
http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313
http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006
http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

United States Department of Agriculture Soil Permit: P330-12-00139

Pennsylvania: 68-01752
http://www.depweb.state.pa.us/portal/server.pt/community/labs/13780/laboratory_accreditation_program/590095

CHEMISTRY

A2LA Accredited: Testing Cert # 2864.01
Lead in Paint, Phthalates, Lead in Children's Metals Products (Including Jewelry)
http://www.A2LA.org/dirsearchnew/newsearch.cfm

CPSC ID# 1141
Lead Paint, Lead in Children's Metals Jewelry
http://www.cpsc.gov/cgi-bin/labapplist.aspx

LABORATORY TESTING DATA SHEET

Project Name Wynn Everett | Project Location Everett, MA | Reviewed By

Project No. 01.0171521.13 **ESS-1503512** | Assigned By D. Scanlon

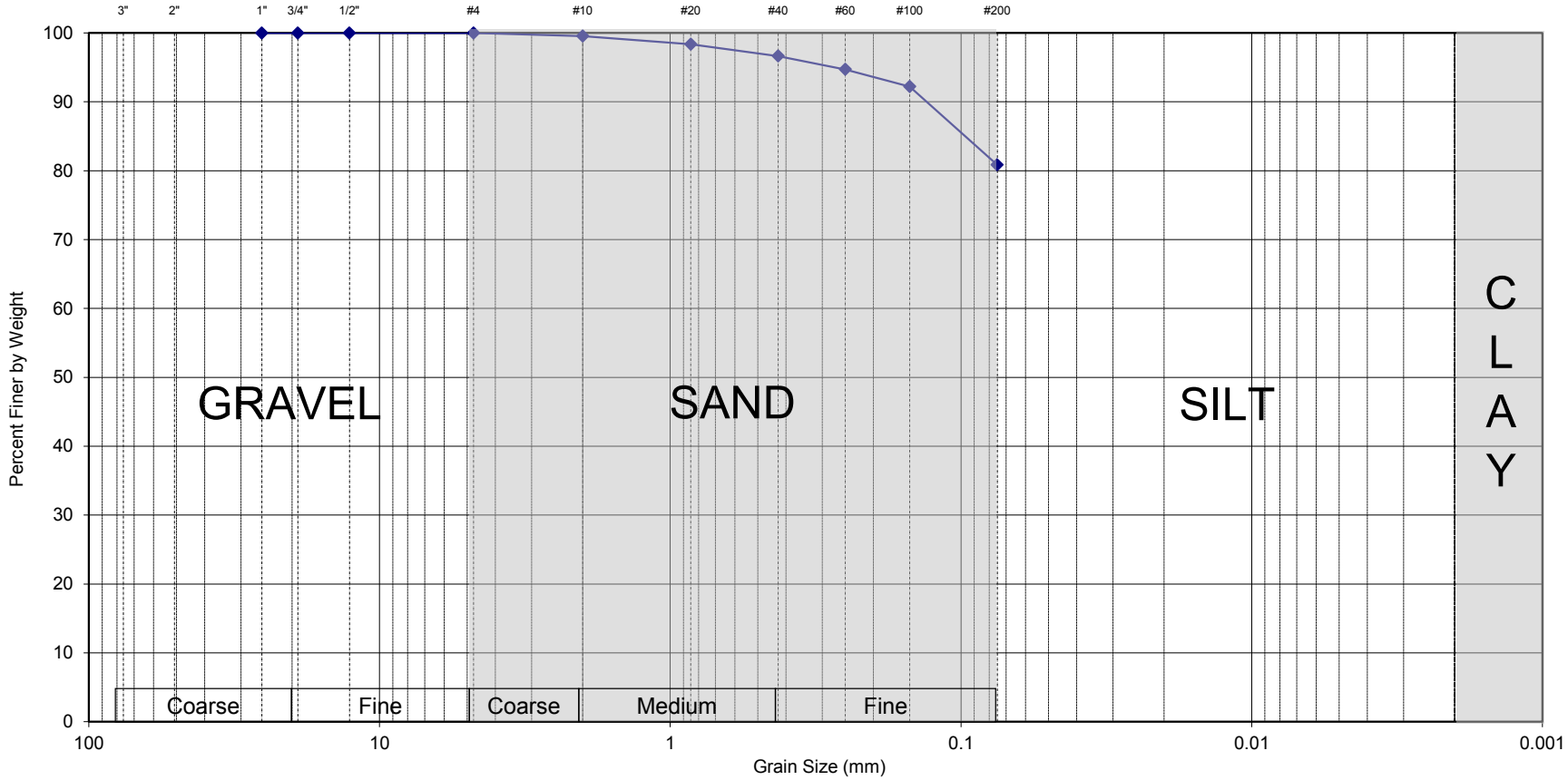
Project Manager D. Leone/C. Taylor | Report Date 4/1/15 | Date Reviewed *4/1/15*

Boring ID	Depth (ft)	ESS Sample ID	Lab No.	Identification Tests								Strength Tests				Laboratory Log and Soil Description
				Water Content %	LL %	PL %	Sieve -200 %	Hyd -2µ %	ORG %	G_s	Dry unit wt. pcf	Torvane or Type Test	Failure Criteria	$\sigma_1 - \sigma_3$ psf	Strain %	
GZ-225	0-3	1503512-04	15-S-254	62.7			80.9									Gray & Black Organic SILT, little fine Sand
GZ-201	0-3	1503512-07	15-S-255	157.6			74.8									Gray & Black Organic SILT, some f-m Sand

THIELSCH ENGINEERING

195 Frances Avenue
Cranston, RI 02910 401-467-6454

U.S. STANDARD SIEVE AND HYDROMETER



Gravel	Sand	Fines
0.0%	19.2%	80.8%

Lab #	Sample ID	ESS Sample ID	Sample Date	Description	WC	LL	PL	PI
15-S-254	GZ-225	1503512-04	3/27/15	Gray & Black Organic SILT, little fine Sand	63			

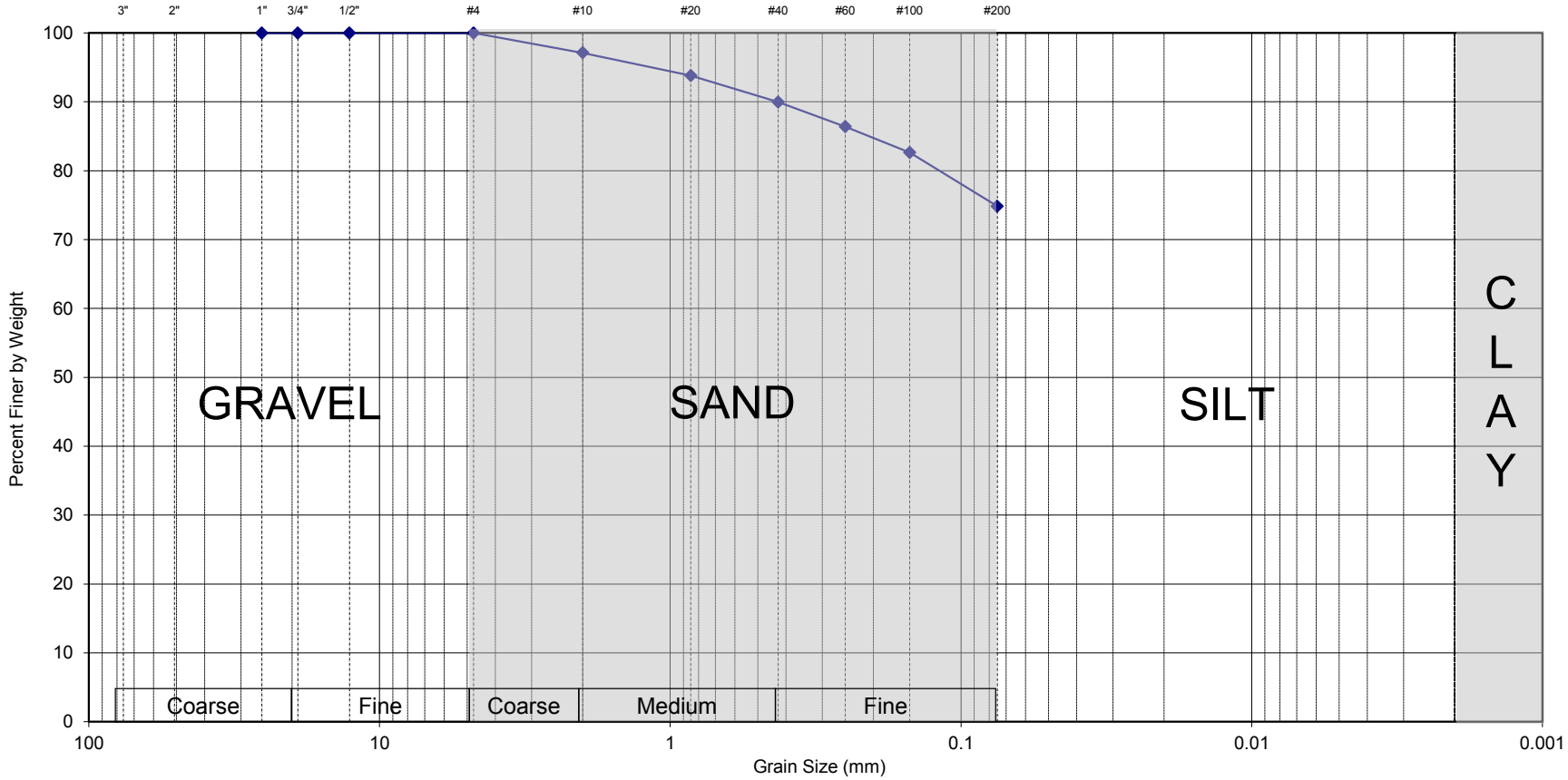
Sieve Size	% Passing
¾"	100.0
½"	100.0
#4	100.0
#10	99.6
#20	98.3
#40	96.7
#60	94.7
#100	92.2
#200	80.8

THIELSCH ENGINEERING
195 Frances Ave., Cranston, RI 02109
401-467-6454

Wynn Everett
ESS Project 1503512
GZA File # 01.0171521.13

Tested by: MP/MK Date: 3/31/15
Reviewed by: MBP Date: 4/1/15

U.S. STANDARD SIEVE AND HYDROMETER



Gravel	Sand	Fines
0.0%	25.2%	74.8%

Lab #	Sample ID	ESS Sample ID	Sample Date	Description	WC	LL	PL	PI
15-S-255	GZ-201	1503512-07	3/27/15	Gray & Black Organic SILT, some f-m Sand	158			

Sieve Size	% Passing
¾"	100.0
½"	100.0
#4	100.0
#10	97.1
#20	93.8
#40	90.0
#60	86.4
#100	82.6
#200	74.8

THIELSCH ENGINEERING
195 Frances Ave., Cranston, RI 02109
401-467-6454

Wynn Everett
ESS Project 1503512
GZA File # 01.0171521.13

Tested by:	MP/MK	Date:	3/31/15
Reviewed by:	MBP	Date:	4/1/15

Sample and Cooler Receipt Checklist

Client: GZA GeoEnvironmental, Inc.
Client Project ID: _____
Shipped/Delivered Via: ESS Courier

ESS Project ID: 15030512
Date Project Due: 4/3/15
Days For Project: 5 Day

Items to be checked upon receipt:

1. Air Bill Manifest Present?	* No	10. Are the samples properly preserved?	Yes
Air No.:		11. Proper sample containers used?	Yes
2. Were Custody Seals Present?	No	12. Any air bubbles in the VOA vials?	N/A
3. Were Custody Seals Intact?	N/A	13. Holding times exceeded?	No
4. Is Radiation count < 100 CPM?	Yes	14. Sufficient sample volumes?	Yes
5. Is a cooler present?	Yes	15. Any Subcontracting needed?	* Yes
Cooler Temp: **3.5**		16. Are ESS labels on correct containers?	**Yes|No**
Iced With: **Ice**		17. Were samples received intact?	**Yes|No**
6. Was COC included with samples?	Yes	ESS Sample IDs:	04, 07
7. Was COC signed and dated by client?	Yes	Sub Lab:	CTS
8. Does the COC match the sample	Yes	Analysis:	Grain Size / % water
9. Is COC complete and correct?	Yes	TAT:	5 DAY

18. Was there need to call project manager to discuss status? If yes, please explain.

LL vials frozen 1954 3/27/15 MS

Who was called?:_____ By whom? _____

Sample Number	Properly Preserved	Container Type	# of Containers	Preservative
1	Yes	8 oz Soil Jar	2	NP
2	Yes	2 oz Soil Jar	1	NP
2	Yes	8 oz Soil Jar	2	NP
3	Yes	2 oz Soil Jar	1	NP
3	Yes	8 oz Soil Jar	2	NP
4	Yes	4 oz Soil Jar	1	NP
4	Yes	40 ml - VOA	1	MeOH
4	Yes	40 ml - VOA	2	other
4	Yes	8 oz Soil Jar	2	NP
4	Yes	Other Glass	1	NP
5	Yes	8 oz Soil Jar	2	NP
6	Yes	2 oz Soil Jar	1	NP
6	Yes	8 oz Soil Jar	2	NP
7	Yes	4 oz Soil Jar	1	NP
7	Yes	40 ml - VOA	1	MeOH
7	Yes	40 ml - VOA	2	other
7	Yes	8 oz Soil Jar	2	NP
7	Yes	Other Glass	1	NP
8	Yes	8 oz Soil Jar	2	NP
9	Yes	8 oz Soil Jar	2	NP
10	Yes	4 oz Soil Jar	1	NP
10	Yes	8 oz Soil Jar	2	NP
11	Yes	8 oz Soil Jar	2	NP
12	Yes	2 oz Soil Jar	1	NP
12	Yes	8 oz Soil Jar	2	NP

Sample and Cooler Receipt Checklist

Client: GZA GeoEnvironmental, Inc. ESS Project ID: 15030512

13	Yes	8 oz Soil Jar	2	NP
14	Yes	2 oz Soil Jar	1	NP
14	Yes	8 oz Soil Jar	2	NP
15	Yes	2 oz Soil Jar	1	NP
15	Yes	8 oz Soil Jar	2	NP
16	Yes	8 oz Soil Jar	2	NP
17	Yes	8 oz Soil Jar	2	NP

Completed By: _____ Date/Time: 3/27/15 1929

Reviewed By: Dana a Rose Date/Time: 3/27/15 1954

SOILS LABORATORY TESTING ASSIGNMENT SHEET

THIELSCH ENGINEERING 401-467-6454 195 Frances Ave., Cranston, RI 02910

Project Name **Wynn Everett** Client _____ Assigned By _____

CTS Project No. **74-14-0002.01** Site Location _____ Collected By _____

ESS Project No. **1503512** Date Assigned _____ Received By _____

Project Manager **Christine Taylor** Date Received _____ Date Required **5 DAY - 4/3/15**

Sample Information					Lab No.	Identification Tests							Permeability		Compaction			Strength		Consol.	Notes
Boring/ Test Pit No.	Sample No.	Depth Ft.	Sample Date	ESS SAMPLE ID		Water Cont. %	LL & PL %	Org. %	Sieve -200 %	Hyd -2μ %	G_s	γ_t pcf	Sand	Clay	Mod.	Std.	CBR	Tor-vane	Type Test $\frac{\sigma_c}{\sigma_c}$ or σ^c	Cc/ 1+eo	#
						D2216	D4318	D2974	D422		D854		D2434	D5084	D1557	D698	D1883		D2166/ D4767/ D2850	D2435	
GZ-225	0'-3'		3/27/15	1503512-04		X			X												
GZ-201	0'-3'		3/27/15	1503512-07		X			X												

Notes: _____

ESS Laboratory

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

ESS LAB PROJECT ID: 150 3512

Turn Time ___X___ Standard Rush_____ Approved By: _____

Reporting Limits -

State where samples were collected: **MA** RI CT NH NJ NY ME Other_____

Is this project for any of the following: (please circle)
MA-MCP CT-RCP NJ-DKQP RGP DOD Other___

Electonic Deliverable Yes ✓ No___
Format: Excel ✓ Access___ PDF ✓ Other_____

GZA Project Manager: David E. Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Ave
Norwood, MA 02062
(781) 278-3700

Project No.: 01.0171521.13 Task 001

Project Name: Wynn - Everett

Contract Pricing _____
Special Pricing WO#: _____

ESS Lab Sample ID	Date	Collection Time	Grab -G Composite-C	Matrix	Sample Identification	# of Containers	Analysis: MCP-14 Metals	PAHs by SIM	TOC	SVOCs	PCBs (Aroclors)	EPH	Hexavalent Chromium	Reactivity (Sulfide and Cyanide)	VOCs	% water	Grain Size Analysis	Comment #
1	3/27/15	0849	G	S	GZ-225 (0'-0.5')		X	X	X	X	X	X						
					GZ-225 (0.5'-2')		HOLD	AND	FREEZE									
					GZ-225 (2'-4')		HOLD	AND	FREEZE									
2					GZ-225 (4'-6')		X	X										
3					GZ-225 (6'-7'2")		X	X										
4		↓			GZ-225 (0'-3')		X		X	X	X	X	X	X	X	X	X	(1)
5		09:24			GZ-201 (0'-0.5')		X	X	X	X	X	X						
					GZ-201 (0.5'-2')		HOLD	AND	FREEZE									
					GZ-201 (2'-4')		HOLD	AND	FREEZE									
6	↓	↓	↓	↓	GZ-201 (4'-5')		X	X										

Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-_____

Container Type: P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filter

Cooler Present ___Yes ___No

Seals Intact ___ Yes ___No NA: ✓

Cooler Temperature: 3.5 & 2.8 ice

Sampled by : Daniel Scanlon (Daniel.Scanlon@gza.com)

Comments: (1) TCLP 20X Rule Applies ONLY if noted in the comment column ✓

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	3/27/15 @ 1430	3/27/15 1447	3/27/15	1643	3/27/15 1816

ESS Laboratory
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185 Frances Avenue, Cranston, RI 02910-2211
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www.esslaboratory.com

CHAIN OF CUSTODY

ESS LAB PROJECT ID: 1503512

Turn Time ___X___ Standard Rush_____ Approved By: _____

Reporting Limits -

State where samples were collected: **MA** RI CT NH NJ NY ME Other_____

Is this project for any of the following: (please circle)
MA-MCP CT-RCP NJ-DKQP RGP DOD Other____

Electonic Deliverable Yes ✓ No____
Format: Excel ✓ Access___ PDF ✓ Other_____

GZA Project Manager: David E. Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Ave
Norwood, MA 02062
(781) 278-3700

Project No.: 01.0171521.13 Task 001
Project Name: Wynn - Everett
Contract Pricing ____
Special Pricing WO#: _____

ESS Lab Sample ID	Date	Collection Time	Grab -G Composite-C	Matrix	Sample Identification	# of Containers	Analysis: MCP-14 Metals	PAHs by SIM	TOC	SVOCs	PCBs (Aroclors)	EPH	Hexavalent Chromium	Reactivity (Sulfide and Cyanide)	VOCs	% water	Grain Size Analysis	Comment #
7	3-27-15	09:24	G	S	GZ-201 (0'-3')		X		X	X	X	X	X	X	X	X	X	(1)
8					LC-106 (0'-0.5')		X	X	X	X	X	X						
9					LC-106 (0.5'-2')		X	X	X	X	X	X						
					LC-106 (2'-4')		HOLD AND FREEZE											
10					LC-106 (4'-6')		X	X										
		↓			LC-106 (6'-7')		HOLD AND FREEZE											
11		10:27			LC-110 (0'-0.5')		X	X	X	X	X	X						
					LC-110 (0.5'-2')		HOLD AND FREEZE											
12					LC-110 (2'-4')		X	X										
	↓	↓	↓	↓	LC-110 (4'-6')		HOLD AND FREEZE											

Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-_____

Container Type: P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filter

Cooler Present ✓ Yes ____No
Seals Intact _____ Yes ____No NA: ✓
Cooler Temperature: 3.5 + 2.8 in

Sampled by : Daniel Scanlon (Daniel.Scanlon@gza.com)

Comments: (1) TCLP 20X Rule Applies ONLY if noted in comments column

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
[signature]	3/27/15 @ 1430	[signature] 3/27/15 1417	[signature] 3/27/15	1643	[signature] 3/27/15 1816

ESS Laboratory

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Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

ESS LAB PROJECT ID: 1503512

Turn Time ___X___Standard Rush_____ Approved By: _____

Reporting Limits -

State where samples were collected: **MA** RI CT NH NJ NY ME Other_____

Is this project for any of the following: (please circle)
MA-MCP CT-RCP NJ-DKQP RGP DOD Other____

Electonic Deliverable Yes ✓ No____
Format: Excel ✓ Access___ PDF ✓ Other_____

GZA Project Manager: David E. Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Ave
Norwood, MA 02062
(781) 278-3700

Project No.: 01.0171521.13 Task 001
Project Name: Wynn - Everett
Contract Pricing ____
Special Pricing WO#: _____

ESS Lab Sample ID	Date	Collection Time	Grab -G Composite-C	Matrix	Sample Identification	# of Containers	Analysis: MCP-14 Metals	PAHs by SIM	TOC	SVOCs	PCBs (Aroclors)	EPH	Hexavalent Chromium	Reactivity (Sulfide and Cyanide)	VOCs	% water	Grain Size Analysis	Comment #
	3-27-15	1027	G	S	LC-110 (6'-8')		HOLD	AND	FREEZE									
13		1046			LC-111 (0'-0.5')		X	X	X	X	X	X						
14					LC-111 (0.5'-2')		X	X										
					LC-111 (2'-4')		HOLD	AND	FREEZE									
15					LC-111 (4'-6')		X	X										
					LC-111 (6'-7½')		HOLD		AND	FREEZE								
16		1116			LC-112 (0'-0.5')		X	X	X	X	X	X						
					LC-112 (0.5'-2')		HOLD	AND	FREEZE									
					LC-112 (2'-4')		HOLD	AND	FREEZE									
17					LC-112 (4'-6')		X	X	X	X	X	X						

Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-_____

Container Type: P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filter

Cooler Present _____Yes _____No

Seals Intact _____ Yes _____No NA: _____

Cooler Temperature: 3.5 + 2.8

Sampled by : Daniel Scanlon (Daniel.Scanlon@gza.com)

Comments: (1) TCLP 20X Rule Applies ONLY as noted in comments column

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
[signature]	3/27/15 @ 1430	[signature] 3/27/15 1447	[signature] 3/27/15	1643	[signature] 3/27/15 1816

Page 134 of 134

CERTIFICATE OF ANALYSIS

David E Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Avenue
Norwood, MA 02062

RE: Wynn Everett Sediment Phase (01.0171521.13 Task 001)
ESS Laboratory Work Order Number: 1503556

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard
Laboratory Director

REVIEWED
By ESS Laboratory at 1:19 pm, Apr 09, 2015

Analytical Summary
The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with NELAC Standards, A2LA and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.

Subcontracted Analyses

TestAmerica Laboratories, Inc. - Burlington, VT	Total Organic Carbon

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503556

SAMPLE RECEIPT

The following samples were received on March 31, 2015 for the analyses specified on the enclosed Chain of Custody Record.

To achieve CAM compliance for MCP data, ESS Laboratory has performed and reviewed all QA/QC Requirements and Performance Standards listed in each method. Holding times and preservation have also been reviewed. All CAM requirements have been achieved unless noted in the project narrative.

Each method has been set-up in the laboratory to reach required MCP standards. The methods for aqueous VOA and Soil Methanol VOA have known limitations for certain analytes. The regulatory standards may not be achieved due to these limitations. In addition, for all methods, matrix interferences, dilutions, and %Solids may elevate method reporting limits above regulatory standards. ESS Laboratory can provide, upon request, a Data Checker (regulatory standard comparison spreadsheet) electronic deliverable which will highlight these exceedances.

For EPH soil samples, the aromatic range results have been corrected for identified cartridge contaminant in accordance with the CAM protocol.

Lab Number	Sample Name	Matrix	Analysis
1503556-01	GZ-226 0ft-0.5ft	Soil	TOC-LK
1503556-02	GZ-220 0ft-0.5ft	Soil	TOC-LK
1503556-03	GZ-220 0.5ft-2ft	Soil	TOC-LK
1503556-04	GZ-221 0ft-0.5ft	Soil	TOC-LK
1503556-05	GZ-221 0ft-3ft	Soil	TOC-LK
1503556-06	GZ-222 0ft-0.5ft	Soil	TOC-LK
1503556-07	GZ-223 0ft-0.5ft	Soil	TOC-LK
1503556-08	GZ-223 0ft-3ft	Soil	TOC-LK
1503556-09	GZ-224 0ft-0.5ft	Soil	TOC-LK
1503556-10	GZ-224 0.5ft-2ft	Soil	TOC-LK
1503556-11	GZ-214 0ft-0.5ft	Soil	TOC-LK
1503556-12	GZ-214 2ft-4ft	Soil	TOC-LK
1503556-13	GZ-214 4ft-6ft	Soil	TOC-LK
1503556-14	GZ-215 0ft-0.5ft	Soil	TOC-LK
1503556-15	GZ-215 0ft-3ft	Soil	TOC-LK

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503556

PROJECT NARRATIVE

No unusual observations noted.

End of Project Narrative.

DATA USABILITY LINKS

Definitions of Quality Control Parameters

Semivolatile Organics Internal Standard Information

Semivolatile Organics Surrogate Information

Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503556

CURRENT SW-846 METHODOLOGY VERSIONS

Analytical Methods

1010A - Flashpoint
6010C - ICP
6020A - ICP MS
7010 - Graphite Furnace
7196A - Hexavalent Chromium
7470A - Aqueous Mercury
7471B - Solid Mercury
8011 - EDB/DBCP/TCP
8015D - GRO/DRO
8081B - Pesticides
8082A - PCB
8100M - TPH
8151A - Herbicides
8260B - VOA
8270D - SVOA
8270D SIM - SVOA Low Level
9014 - Cyanide
9038 - Sulfate
9040C - Aqueous pH
9045D - Solid pH (Corrosivity)
9050A - Specific Conductance
9056A - Anions (IC)
9060A - TOC
9095B - Paint Filter
MADEP 04-1.1 - EPH / VPH

Prep Methods

3005A - Aqueous ICP and Graphite Furnace Digestion
3020A - Aqueous ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3546 - Microwave Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5030C - Aqueous Purge and Trap
5035 - Solid Purge and Trap

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-226 0ft-0.5ft
Date Sampled: 03/30/15 07:58
Percent Solids: N/A

ESS Laboratory Work Order: 1503556
ESS Laboratory Sample ID: 1503556-01
Sample Matrix: Soil

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**31100** (1000)		TOC-LK		1	SUB	04/02/15 22:51	mg/kg	CD50906

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-220 0ft-0.5ft
Date Sampled: 03/30/15 08:11
Percent Solids: N/A

ESS Laboratory Work Order: 1503556
ESS Laboratory Sample ID: 1503556-02
Sample Matrix: Soil

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**42800** (1000)		TOC-LK		1	SUB	04/02/15 22:57	mg/kg	CD50906

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-220 0.5ft-2ft
Date Sampled: 03/30/15 08:11
Percent Solids: N/A

ESS Laboratory Work Order: 1503556
ESS Laboratory Sample ID: 1503556-03
Sample Matrix: Soil

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**56200** (1000)		TOC-LK		1	SUB	04/02/15 23:04	mg/kg	CD50906

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-221 0ft-0.5ft
Date Sampled: 03/30/15 08:30
Percent Solids: N/A

ESS Laboratory Work Order: 1503556
ESS Laboratory Sample ID: 1503556-04
Sample Matrix: Soil

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**40800** (1000)		TOC-LK		1	SUB	04/02/15 23:10	mg/kg	CD50906

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-221 0ft-3ft
Date Sampled: 03/30/15 08:30
Percent Solids: N/A

ESS Laboratory Work Order: 1503556
ESS Laboratory Sample ID: 1503556-05
Sample Matrix: Soil

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**117000** (1000)		TOC-LK		1	SUB	04/02/15 21:23	mg/kg	CD50906

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-222 0ft-0.5ft
Date Sampled: 03/30/15 09:05
Percent Solids: N/A

ESS Laboratory Work Order: 1503556
ESS Laboratory Sample ID: 1503556-06
Sample Matrix: Soil

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**57100** (1000)		TOC-LK		1	SUB	04/02/15 23:23	mg/kg	CD50906

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-223 0ft-0.5ft
Date Sampled: 03/30/15 09:18
Percent Solids: N/A

ESS Laboratory Work Order: 1503556
ESS Laboratory Sample ID: 1503556-07
Sample Matrix: Soil

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**43200** (1000)		TOC-LK		1	SUB	04/02/15 23:29	mg/kg	CD50906

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-223 0ft-3ft
Date Sampled: 03/30/15 09:18
Percent Solids: N/A

ESS Laboratory Work Order: 1503556
ESS Laboratory Sample ID: 1503556-08
Sample Matrix: Soil

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**47200** (1000)		TOC-LK		1	SUB	04/02/15 23:35	mg/kg	CD50906

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-224 0ft-0.5ft
Date Sampled: 03/30/15 09:45
Percent Solids: N/A

ESS Laboratory Work Order: 1503556
ESS Laboratory Sample ID: 1503556-09
Sample Matrix: Soil

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**28600** (1000)		TOC-LK		1	SUB	04/02/15 23:42	mg/kg	CD50906

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-224 0.5ft-2ft
Date Sampled: 03/30/15 09:45
Percent Solids: N/A

ESS Laboratory Work Order: 1503556
ESS Laboratory Sample ID: 1503556-10
Sample Matrix: Soil

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**38400** (1000)		TOC-LK		1	SUB	04/02/15 23:48	mg/kg	CD50906

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-214 0ft-0.5ft
Date Sampled: 03/30/15 10:10
Percent Solids: N/A

ESS Laboratory Work Order: 1503556
ESS Laboratory Sample ID: 1503556-11
Sample Matrix: Soil

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**39900** (1000)		TOC-LK		1	SUB	04/02/15 23:55	mg/kg	CD50906

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-214 2ft-4ft
Date Sampled: 03/30/15 10:10
Percent Solids: N/A

ESS Laboratory Work Order: 1503556
ESS Laboratory Sample ID: 1503556-12
Sample Matrix: Soil

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**19000** (1000)		TOC-LK		1	SUB	04/03/15 0:01	mg/kg	CD50906

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-214 4ft-6ft
Date Sampled: 03/30/15 10:10
Percent Solids: N/A

ESS Laboratory Work Order: 1503556
ESS Laboratory Sample ID: 1503556-13
Sample Matrix: Soil

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**16300** (1000)		TOC-LK		1	SUB	04/03/15 0:07	mg/kg	CD50906

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-215 0ft-0.5ft
Date Sampled: 03/30/15 10:40
Percent Solids: N/A

ESS Laboratory Work Order: 1503556
ESS Laboratory Sample ID: 1503556-14
Sample Matrix: Soil

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**29800** (1000)		TOC-LK		1	SUB	04/03/15 0:27	mg/kg	CD50906

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-215 0ft-3ft
Date Sampled: 03/30/15 10:40
Percent Solids: N/A

ESS Laboratory Work Order: 1503556
ESS Laboratory Sample ID: 1503556-15
Sample Matrix: Soil

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**9910** (1000)		TOC-LK		1	SUB	04/03/15 0:33	mg/kg	CD50906

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase ESS Laboratory Work Order: 1503556

Notes and Definitions

ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	Detection Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report
[2C]	Result was taken from the second column. Dual column analysis.

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503556

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Department of Defense (DoD) Environmental Laboratory Accreditation Program (ELAP)
A2LA Accredited: Testing Cert# 2864.01
http://www.a2la.org/scopepdf/2864-01.pdf

Rhode Island Potable and Non Potable Water: LAI00179
http://www.health.ri.gov/find/labs/analytical/ESS.pdf

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750
http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI0002
http://www.maine.gov/dhhs/mecdc/environmental-health/water/dwp-services/labcert/documents/AllLabs.xls

Massachusetts Potable and Non Potable Water: M-RI002
http://public.dep.state.ma.us/Labcert/Labcert.aspx

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424
http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313
http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006
http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

United States Department of Agriculture Soil Permit: P330-12-00139

Pennsylvania: 68-01752
http://www.depweb.state.pa.us/portal/server.pt/community/labs/13780/laboratory_accreditation_program/590095

CHEMISTRY

A2LA Accredited: Testing Cert # 2864.01
Lead in Paint, Phthalates, Lead in Children's Metals Products (Including Jewelry)
http://www.A2LA.org/dirsearchnew/newsearch.cfm

CPSC ID# 1141
Lead Paint, Lead in Children's Metals Jewelry
http://www.cpsc.gov/cgi-bin/labapplist.aspx

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Burlington
30 Community Drive
Suite 11
South Burlington, VT 05403
Tel: (802)660-1990

TestAmerica Job ID: 200-27360-1
TestAmerica Sample Delivery Group: 1503556
Client Project/Site: 1503556
Revision: 1

For:
ESS Laboratory
185 Frances Ave.
Cranston, Rhode Island 02910

Attn: Ms. Elizabeth Ouk

Authorized for release by:
4/9/2015 10:38:42 AM

Kathryn Kelly, Project Manager I
(802)660-1990
kathryn.kelly@testamericainc.com

LINKS
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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Definitions/Glossary 3
Case Narrative 4
Detection Summary 5
Client Sample Results 7
QC Sample Results 10
QC Association Summary 11
Lab Chronicle 12
Certification Summary 15
Method Summary 16
Sample Summary 17
Chain of Custody 18
Receipt Checklists 20

Qualifiers

General Chemistry

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 200-27360-1

Laboratory: TestAmerica Burlington

Narrative

CASE NARRATIVE

Client: ESS Laboratory

Project: 1503556

Report Number: 200-27360-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 04/02/2015; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 5.2º C.

TOTAL ORGANIC CARBON

Samples 1503556-01, 1503556-02, 1503556-03, 1503556-04, 1503556-05, 1503556-06, 1503556-07, 1503556-08, 1503556-09, 1503556-10, 1503556-11, 1503556-12, 1503556-13, 1503556-14, and 1503556-15 were analyzed for total organic carbon in accordance with Lloyd Kahn Method. The samples were analyzed on 04/02/2015 and 04/03/2015.

Total Organic Carbon was detected in method blank MB 200-86491/5 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: ESS Laboratory
Project/Site: 1503556

TestAmerica Job ID: 200-27360-1
SDG: 1503556

Client Sample ID: 1503556-01 — Lab Sample ID: 200-27360-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	31100		1000	120	mg/Kg	1		Lloyd Kahn	Total/NA

Client Sample ID: 1503556-02 — Lab Sample ID: 200-27360-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	42800		1000	120	mg/Kg	1		Lloyd Kahn	Total/NA

Client Sample ID: 1503556-03 — Lab Sample ID: 200-27360-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	56200		1000	120	mg/Kg	1		Lloyd Kahn	Total/NA

Client Sample ID: 1503556-04 — Lab Sample ID: 200-27360-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	40800		1000	120	mg/Kg	1		Lloyd Kahn	Total/NA

Client Sample ID: 1503556-05 — Lab Sample ID: 200-27360-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	117000	B	1000	120	mg/Kg	1		Lloyd Kahn	Total/NA

Client Sample ID: 1503556-06 — Lab Sample ID: 200-27360-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	57100		1000	120	mg/Kg	1		Lloyd Kahn	Total/NA

Client Sample ID: 1503556-07 — Lab Sample ID: 200-27360-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	43200		1000	120	mg/Kg	1		Lloyd Kahn	Total/NA

Client Sample ID: 1503556-08 — Lab Sample ID: 200-27360-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	47200		1000	120	mg/Kg	1		Lloyd Kahn	Total/NA

Client Sample ID: 1503556-09 — Lab Sample ID: 200-27360-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	28600		1000	120	mg/Kg	1		Lloyd Kahn	Total/NA

Client Sample ID: 1503556-10 — Lab Sample ID: 200-27360-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	38400		1000	120	mg/Kg	1		Lloyd Kahn	Total/NA

Client Sample ID: 1503556-11 — Lab Sample ID: 200-27360-11

This Detection Summary does not include radiochemical test results.

Client Sample ID: 1503556-11 (Continued) — Lab Sample ID: 200-27360-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	39900		1000	120	mg/Kg	1		Lloyd Kahn	Total/NA

Client Sample ID: 1503556-12 — Lab Sample ID: 200-27360-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	19000		1000	120	mg/Kg	1		Lloyd Kahn	Total/NA

Client Sample ID: 1503556-13 — Lab Sample ID: 200-27360-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	16300		1000	120	mg/Kg	1		Lloyd Kahn	Total/NA

Client Sample ID: 1503556-14 — Lab Sample ID: 200-27360-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	29800		1000	120	mg/Kg	1		Lloyd Kahn	Total/NA

Client Sample ID: 1503556-15 — Lab Sample ID: 200-27360-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	9910		1000	120	mg/Kg	1		Lloyd Kahn	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 1503556-01 — **Lab Sample ID: 200-27360-1**
Date Collected: 03/30/15 07:58
Date Received: 04/02/15 11:00
Matrix: Sediment

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	31100		1000	120	mg/Kg			04/02/15 22:51	1

Client Sample ID: 1503556-02 — **Lab Sample ID: 200-27360-2**
Date Collected: 03/30/15 08:11
Date Received: 04/02/15 11:00
Matrix: Sediment

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	42800		1000	120	mg/Kg			04/02/15 22:57	1

Client Sample ID: 1503556-03 — **Lab Sample ID: 200-27360-3**
Date Collected: 03/30/15 08:11
Date Received: 04/02/15 11:00
Matrix: Sediment

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	56200		1000	120	mg/Kg			04/02/15 23:04	1

Client Sample ID: 1503556-04 — **Lab Sample ID: 200-27360-4**
Date Collected: 03/30/15 08:30
Date Received: 04/02/15 11:00
Matrix: Sediment

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	40800		1000	120	mg/Kg			04/02/15 23:10	1

Client Sample ID: 1503556-05 — **Lab Sample ID: 200-27360-5**
Date Collected: 03/30/15 08:30
Date Received: 04/02/15 11:00
Matrix: Sediment

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	117000	B	1000	120	mg/Kg			04/03/15 21:23	1

Client Sample ID: 1503556-06 — **Lab Sample ID: 200-27360-6**
Date Collected: 03/30/15 09:05
Date Received: 04/02/15 11:00
Matrix: Sediment

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	57100		1000	120	mg/Kg			04/02/15 23:23	1

Client Sample ID: 1503556-07 — **Lab Sample ID: 200-27360-7**
Date Collected: 03/30/15 09:18
Date Received: 04/02/15 11:00
Matrix: Sediment

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	43200		1000	120	mg/Kg			04/02/15 23:29	1

Client Sample ID: 1503556-08 — **Lab Sample ID: 200-27360-8**
Date Collected: 03/30/15 09:18 — **Matrix: Sediment**
Date Received: 04/02/15 11:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	47200		1000	120	mg/Kg			04/02/15 23:35	1

Client Sample ID: 1503556-09 — **Lab Sample ID: 200-27360-9**
Date Collected: 03/30/15 09:45 — **Matrix: Sediment**
Date Received: 04/02/15 11:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	28600		1000	120	mg/Kg			04/02/15 23:42	1

Client Sample ID: 1503556-10 — **Lab Sample ID: 200-27360-10**
Date Collected: 03/30/15 09:45 — **Matrix: Sediment**
Date Received: 04/02/15 11:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	38400		1000	120	mg/Kg			04/02/15 23:48	1

Client Sample ID: 1503556-11 — **Lab Sample ID: 200-27360-11**
Date Collected: 03/30/15 10:10 — **Matrix: Sediment**
Date Received: 04/02/15 11:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	39900		1000	120	mg/Kg			04/02/15 23:55	1

Client Sample ID: 1503556-12 — **Lab Sample ID: 200-27360-12**
Date Collected: 03/30/15 10:10 — **Matrix: Sediment**
Date Received: 04/02/15 11:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	19000		1000	120	mg/Kg			04/03/15 00:01	1

Client Sample ID: 1503556-13 — **Lab Sample ID: 200-27360-13**
Date Collected: 03/30/15 10:10 — **Matrix: Sediment**
Date Received: 04/02/15 11:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	16300		1000	120	mg/Kg			04/03/15 00:07	1

Client Sample ID: 1503556-14 — **Lab Sample ID: 200-27360-14**
Date Collected: 03/30/15 10:40 — **Matrix: Sediment**
Date Received: 04/02/15 11:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	29800		1000	120	mg/Kg			04/03/15 00:27	1

Client: ESS Laboratory
Project/Site: 1503556

TestAmerica Job ID: 200-27360-1
SDG: 1503556

Client Sample ID: 1503556-15
Date Collected: 03/30/15 10:40
Date Received: 04/02/15 11:00

Lab Sample ID: 200-27360-15
Matrix: Sediment

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	9910		1000	120	mg/Kg			04/03/15 00:33	1

Method: Lloyd Kahn - Organic Carbon, Total (TOC)

Lab Sample ID: MB 200-86423/5
Matrix: Sediment
Analysis Batch: 86423

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	1000	U	1000	120	mg/Kg			04/02/15 22:13	1

Lab Sample ID: LCS 200-86423/6
Matrix: Sediment
Analysis Batch: 86423

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	20100	20170		mg/Kg		100	75 - 125

Lab Sample ID: MB 200-86491/5
Matrix: Sediment
Analysis Batch: 86491

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	245.0	J	1000	120	mg/Kg			04/03/15 20:45	1

Lab Sample ID: LCS 200-86491/6
Matrix: Sediment
Analysis Batch: 86491

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	20100	20080		mg/Kg		100	75 - 125

QC Association Summary

Client: ESS Laboratory
Project/Site: 1503556

TestAmerica Job ID: 200-27360-1
SDG: 1503556

General Chemistry

Analysis Batch: 86423

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-27360-1	1503556-01	Total/NA	Sediment	Lloyd Kahn	
200-27360-2	1503556-02	Total/NA	Sediment	Lloyd Kahn	
200-27360-3	1503556-03	Total/NA	Sediment	Lloyd Kahn	
200-27360-4	1503556-04	Total/NA	Sediment	Lloyd Kahn	
200-27360-6	1503556-06	Total/NA	Sediment	Lloyd Kahn	
200-27360-7	1503556-07	Total/NA	Sediment	Lloyd Kahn	
200-27360-8	1503556-08	Total/NA	Sediment	Lloyd Kahn	
200-27360-9	1503556-09	Total/NA	Sediment	Lloyd Kahn	
200-27360-10	1503556-10	Total/NA	Sediment	Lloyd Kahn	
200-27360-11	1503556-11	Total/NA	Sediment	Lloyd Kahn	
200-27360-12	1503556-12	Total/NA	Sediment	Lloyd Kahn	
200-27360-13	1503556-13	Total/NA	Sediment	Lloyd Kahn	
200-27360-14	1503556-14	Total/NA	Sediment	Lloyd Kahn	
200-27360-15	1503556-15	Total/NA	Sediment	Lloyd Kahn	
LCS 200-86423/6	Lab Control Sample	Total/NA	Sediment	Lloyd Kahn	
MB 200-86423/5	Method Blank	Total/NA	Sediment	Lloyd Kahn	

Analysis Batch: 86491

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-27360-5	1503556-05	Total/NA	Sediment	Lloyd Kahn	
LCS 200-86491/6	Lab Control Sample	Total/NA	Sediment	Lloyd Kahn	
MB 200-86491/5	Method Blank	Total/NA	Sediment	Lloyd Kahn	

Lab Chronicle

Client: ESS Laboratory
Project/Site: 1503556

TestAmerica Job ID: 200-27360-1
SDG: 1503556

Client Sample ID: 1503556-01 — Lab Sample ID: 200-27360-1

Date Collected: 03/30/15 07:58 — **Matrix: Sediment**
Date Received: 04/02/15 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	86423	04/02/15 22:51	MDK	TAL BUR

Client Sample ID: 1503556-02 — Lab Sample ID: 200-27360-2

Date Collected: 03/30/15 08:11 — **Matrix: Sediment**
Date Received: 04/02/15 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	86423	04/02/15 22:57	MDK	TAL BUR

Client Sample ID: 1503556-03 — Lab Sample ID: 200-27360-3

Date Collected: 03/30/15 08:11 — **Matrix: Sediment**
Date Received: 04/02/15 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	86423	04/02/15 23:04	MDK	TAL BUR

Client Sample ID: 1503556-04 — Lab Sample ID: 200-27360-4

Date Collected: 03/30/15 08:30 — **Matrix: Sediment**
Date Received: 04/02/15 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	86423	04/02/15 23:10	MDK	TAL BUR

Client Sample ID: 1503556-05 — Lab Sample ID: 200-27360-5

Date Collected: 03/30/15 08:30 — **Matrix: Sediment**
Date Received: 04/02/15 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	86491	04/03/15 21:23	MDK	TAL BUR

Client Sample ID: 1503556-06 — Lab Sample ID: 200-27360-6

Date Collected: 03/30/15 09:05 — **Matrix: Sediment**
Date Received: 04/02/15 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	86423	04/02/15 23:23	MDK	TAL BUR

Lab Chronicle

Client: ESS Laboratory
Project/Site: 1503556

TestAmerica Job ID: 200-27360-1
SDG: 1503556

Client Sample ID: 1503556-07 — Lab Sample ID: 200-27360-7

Date Collected: 03/30/15 09:18 — **Matrix: Sediment**
Date Received: 04/02/15 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	86423	04/02/15 23:29	MDK	TAL BUR

Client Sample ID: 1503556-08 — Lab Sample ID: 200-27360-8

Date Collected: 03/30/15 09:18 — **Matrix: Sediment**
Date Received: 04/02/15 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	86423	04/02/15 23:35	MDK	TAL BUR

Client Sample ID: 1503556-09 — Lab Sample ID: 200-27360-9

Date Collected: 03/30/15 09:45 — **Matrix: Sediment**
Date Received: 04/02/15 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	86423	04/02/15 23:42	MDK	TAL BUR

Client Sample ID: 1503556-10 — Lab Sample ID: 200-27360-10

Date Collected: 03/30/15 09:45 — **Matrix: Sediment**
Date Received: 04/02/15 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	86423	04/02/15 23:48	MDK	TAL BUR

Client Sample ID: 1503556-11 — Lab Sample ID: 200-27360-11

Date Collected: 03/30/15 10:10 — **Matrix: Sediment**
Date Received: 04/02/15 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	86423	04/02/15 23:55	MDK	TAL BUR

Client Sample ID: 1503556-12 — Lab Sample ID: 200-27360-12

Date Collected: 03/30/15 10:10 — **Matrix: Sediment**
Date Received: 04/02/15 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	86423	04/03/15 00:01	MDK	TAL BUR

Lab Chronicle

Client: ESS Laboratory
Project/Site: 1503556

TestAmerica Job ID: 200-27360-1
SDG: 1503556

Client Sample ID: 1503556-13

Date Collected: 03/30/15 10:10
Date Received: 04/02/15 11:00

Lab Sample ID: 200-27360-13

Matrix: Sediment

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	86423	04/03/15 00:07	MDK	TAL BUR

Client Sample ID: 1503556-14

Date Collected: 03/30/15 10:40
Date Received: 04/02/15 11:00

Lab Sample ID: 200-27360-14

Matrix: Sediment

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	86423	04/03/15 00:27	MDK	TAL BUR

Client Sample ID: 1503556-15

Date Collected: 03/30/15 10:40
Date Received: 04/02/15 11:00

Lab Sample ID: 200-27360-15

Matrix: Sediment

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	86423	04/03/15 00:33	MDK	TAL BUR

Laboratory References:

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Certification Summary

Client: ESS Laboratory
Project/Site: 1503556

TestAmerica Job ID: 200-27360-1
SDG: 1503556

Laboratory: TestAmerica Burlington

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Connecticut	State Program	1	PH-0751	09-30-15
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	NA	02-13-16
Florida	NELAP	4	E87467	06-30-15
L-A-B	DoD ELAP		L2336	02-26-17
Maine	State Program	1	VT00008	04-17-15 *
Minnesota	NELAP	5	050-999-436	12-31-15
New Hampshire	NELAP	1	2006	12-18-15
New Jersey	NELAP	2	VT972	06-30-15
New York	NELAP	2	10391	03-31-16
Pennsylvania	NELAP	3	68-00489	04-30-15 *
Rhode Island	State Program	1	LAO00298	12-30-15
US Fish & Wildlife	Federal		LE-058448-0	02-28-16
USDA	Federal		P330-11-00093	10-28-16
Vermont	State Program	1	VT-4000	12-31-15
Virginia	NELAP	3	460209	12-14-15

* Certification renewal pending - certification considered valid.

Method Summary

Client: ESS Laboratory
Project/Site: 1503556

TestAmerica Job ID: 200-27360-1
SDG: 1503556

Method	Method Description	Protocol	Laboratory
Lloyd Kahn	Organic Carbon, Total (TOC)	EPA	TAL BUR

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Sample Summary

Client: ESS Laboratory
Project/Site: 1503556

TestAmerica Job ID: 200-27360-1
SDG: 1503556

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
200-27360-1	1503556-01	Sediment	03/30/15 07:58	04/02/15 11:00
200-27360-2	1503556-02	Sediment	03/30/15 08:11	04/02/15 11:00
200-27360-3	1503556-03	Sediment	03/30/15 08:11	04/02/15 11:00
200-27360-4	1503556-04	Sediment	03/30/15 08:30	04/02/15 11:00
200-27360-5	1503556-05	Sediment	03/30/15 08:30	04/02/15 11:00
200-27360-6	1503556-06	Sediment	03/30/15 09:05	04/02/15 11:00
200-27360-7	1503556-07	Sediment	03/30/15 09:18	04/02/15 11:00
200-27360-8	1503556-08	Sediment	03/30/15 09:18	04/02/15 11:00
200-27360-9	1503556-09	Sediment	03/30/15 09:45	04/02/15 11:00
200-27360-10	1503556-10	Sediment	03/30/15 09:45	04/02/15 11:00
200-27360-11	1503556-11	Sediment	03/30/15 10:10	04/02/15 11:00
200-27360-12	1503556-12	Sediment	03/30/15 10:10	04/02/15 11:00
200-27360-13	1503556-13	Sediment	03/30/15 10:10	04/02/15 11:00
200-27360-14	1503556-14	Sediment	03/30/15 10:40	04/02/15 11:00
200-27360-15	1503556-15	Sediment	03/30/15 10:40	04/02/15 11:00

ESS Laboratory — T. America — CHAIN OF CUSTODY

Division of Thielsch Engineering, Inc.
185 Frances Avenue,Cranston RI 02910-2211
Tel. (401)461-7181 Fax (401)461-4486
www.esslaboratory.com

ESS Lab # 1503556

Turn Time _____Standard Other_____**5 DAY**

Reporting Limits - _____

Regulatory State: **MA** RI CT NH NJ NY ME Other_____

Is this project for any of the following:(please circle)
MA-MCP Navy USACE CT DEP Other_____

Electonic Deliverables **Excel** Access **PDF** *

Co. Name	Project #	Project Name
ESS Laboratory		

Contact Person	Proj. Location
Christine Taylor	

Address	City , State	Zip	PO #
			B02192

Tel.	email:	email:
ext. 3039	ctaylor@thielsch.com	smorrell@thielsch.com

ESS Lab ID	Date	Collection Time	Grab -G Composite-C	Matrix	Sample ID	Pres Code	# of Containers	Type of Container	Vol of Container	Analysis: TOC Lloyd Kahn								
	3/30/15	0758	G	SED	1503556-01	1	1	G	2oz	X								
	3/30/15	0811	G	SED	1503556-02	1	1	G	2oz	X								
	3/30/15	0811	G	SED	1503556-03	1	1	G	2oz	X								
	3/30/15	0830	G	SED	1503556-04	1	1	G	2oz	X								
	3/30/15	0830	G	SED	1503556-05	1	1	G	2oz	X								
	3/30/15	0905	G	SED	1503556-06	1	1	G	2oz	X								
	3/30/15	0918	G	SED	1503556-07	1	1	G	2oz	X								
	3/30/15	0918	G	SED	1503556-08	1	1	G	2oz	X								
	3/30/15	0945	G	SED	1503556-09	1	1	G	2oz	X								
	3/30/15	0945	G	SED	1503556-10	1	1	G	2oz	X								
	3/30/15	1010	G	SED	1503556-11	1	1	G	2oz	X								
	3/30/15	1010	G	SED	1503556-12	1	1	G	2oz	X								
	3/30/15	1010	G	SED	1503556-13	1	1	G	2oz	X								
	3/30/15	1040	G	SED	1503556-14	1	1	G	2oz	X								
	3/30/15	1040	G	SED	1503556-15	1	1	G	2oz	X								

Container Type: P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filter

Cooler Present _____Yes _____No

Seals Intact ____ Yes _____No NA:____

Cooler Temperature: _____

Internal Use Only

[ ] Pickup

[ ] Technician____

Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-_____

Sampled by :

Comments:

Relinquished by: (Signature, Date & Time)	Received by: (Signature, Date & Time)	Relinquished by: (Signature, Date & Time)	Received by: (Signature, Date & Time)
4/1/15 1410	4/1/15 1610	16:00 4/1/15	*
Relinquished by: (Signature, Date & Time)	Received by: (Signature, Date & Time)	Relinquished by: (Signature, Date & Time)	Received by: (Signature, Date & Time)
	* 4/2/15 TABLV 1100		

* By circling MA-MCP, client acknowledges sampels were collected in accordance with MADEP CAM VIIA

Please fax to the laboratory all changes to Chain of Custody

Report Method Blank & Laboratory Control Sample Results

200-27360 Chain of Custody



ORIGIN ID:BXCA (781) 466-6900
PAUL HOBART
TESTAMERICA
240 BEAR HILL ROAD
SUITE 104
WALTHAM, MA 02451
UNITED STATES US

SHIP DATE: 01APR15
ACTWGT: 49.3 LB
CAD: 590687/CAFE2807

BILL RECIPIENT

TO SAMPLE RECEIVING
TESTAMERICA BURLINGTON
30 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403
(802) 660-1990 REF:
INV:
PO: DEPT:

FedEx
Express

THU - 02 APR AA
STANDARD OVERNIGHT

TRK# 0201 4258 8388 7934

EK BTVA

05403
VT-US BTV

Part # 156148-43-I RITZ 07/14

Login Sample Receipt Checklist

Client: ESS Laboratory

Job Number: 200-27360-1
SDG Number: 1503556

Login Number: 27360
List Number: 1
Creator: Atherton, Joel E

List Source: TestAmerica Burlington

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	TAMPER EVIDENT TAPE
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.2ºC
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	IDs on containers do not match the COC. Logged in per COC.
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Sample and Cooler Receipt Checklist

Client: GZA GeoEnvironmental, Inc.
Client Project ID: _____
Shipped/Delivered Via: ESS Courier

ESS Project ID: 15030556
Date Project Due: 4/7/15
Days For Project: 5 Day

Items to be checked upon receipt:

1. Air Bill Manifest Present?	* No	10. Are the samples properly preserved:	Yes
Air No.:		11. Proper sample containers used?	Yes
2. Were Custody Seals Present?	No	12. Any air bubbles in the VOA vials?	N/A
3. Were Custody Seals Intact?	N/A	13. Holding times exceeded?	No
4. Is Radiation count < 100 CPM?	Yes	14. Sufficient sample volumes?	Yes
5. Is a cooler present?	Yes	15. Any Subcontracting needed?	* Yes
Cooler Temp: **4.6**		16. Are ESS labels on correct containers?	**Yes|No**
Iced With: **Ice**		17. Were samples received intact?	**Yes|No**
6. Was COC included with samples?	Yes	ESS Sample IDs: 01-15	
7. Was COC signed and dated by client?	Yes	Sub Lab: Test America	
8. Does the COC match the sample	Yes	Analysis: TOC-LK	
9. Is COC complete and correct?	Yes	TAT: 5DAY	

18. Was there need to call project manager to discuss status? If yes, please explain.

No labels on jars, sample IDs on caps. TA 3/31/15

Who was called?:_____ By whom? _____

Sample Number	Properly Preserved	Container Type	# of Containers	Preservative
1	Yes	2 oz Soil Jar	1	NP
2	Yes	2 oz Soil Jar	1	NP
3	Yes	2 oz Soil Jar	1	NP
4	Yes	2 oz Soil Jar	1	NP
5	Yes	2 oz Soil Jar	1	NP
6	Yes	2 oz Soil Jar	1	NP
7	Yes	2 oz Soil Jar	1	NP
8	Yes	2 oz Soil Jar	1	NP
9	Yes	2 oz Soil Jar	1	NP
10	Yes	2 oz Soil Jar	1	NP
11	Yes	2 oz Soil Jar	1	NP
12	Yes	2 oz Soil Jar	1	NP
13	Yes	2 oz Soil Jar	1	NP
14	Yes	2 oz Soil Jar	1	NP
15	Yes	2 oz Soil Jar	1	NP

Completed By: _____ Date/Time: 3/31/15 1250
Reviewed By: _____ Date/Time: 3/31/15 1320

ESS Laboratory

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
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CHAIN OF CUSTODY

ESS LAB PROJECT ID: 503536

Turn Time ___X___ Standard Rush_____ Approved By: _____

Reporting Limits -

State where samples were collected: **MA** RI CT NH NJ NY ME Other_____

Is this project for any of the following: (please circle)
MA-MCP CT-RCP NJ-DKQP RGP DOD Other___

Electonic Deliverable Yes ✓ No___
Format: Excel ✓ Access___ PDF ✓ Other_____

GZA Project Manager: David E. Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Ave
Norwood, MA 02062
(781) 278-3700

Project No.: 01.0171521.13 Task 001

Project Name: Wynn - Everett

Contract Pricing _____
Special Pricing WO#: _____

ESS Lab Sample ID	Date	Collection Time	Grab -G Composite-C	Matrix	Sample Identification	# of Containers	MCP 14 Metals	PAHs by SIM	TOC	SVOCs	PCBs (Aroclors)	EPH	Hexavalent Chromium	Reactivity (Sulfide and Cyanide)	VOCs	% water	Grain Size Analysis	Comment #
1	3-30-15	0758	G	S	GZ-226 (0'-0.5')		X	X	X	X	X	X						
					GZ-226 (0.5'-2')		X	X										
		↓			GZ-226 (2'-4')		X	X										
2		08:11			GZ-220 (0'-0.5')		X	X	X	X	X	X						
3					GZ-220 (0.5'-2')		X	X	X	X	X	X						
					GZ-220 (2'-4')		X	X										
		↓			GZ-220 (4'-6')		HOLD AND FREEZE											
4		0830			GZ-221 (0'-0.5')		X	X	X	X	X							
					GZ-221 (0.5'-2')		HOLD AND FREEZE											
	↓	↓	↓	↓	GZ-221 (2'-4')		HOLD AND FREEZE											

Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-_____

Container Type: P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filter

Cooler Present ___X___Yes _____No

Seals Intact _____ Yes _____No NA: X

Cooler Temperature: 3.1°/4.6°ICE @ 3/31/15

Sampled by : Daniel Scanlon (Daniel.Scanlon@gza.com)

Comments: (1) TCLP 20X Rule Applies ONLY if noted in the comments column
TOC only to be reported with this WO - cmt 4/1/15

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	3/30/15 @ 1400	0700 3/31/15	0830 3/31/15		3/31/15 1227

Page 1 of 4

ESS Laboratory

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

ESS LAB PROJECT ID: 1503556

Turn Time ___X___Standard Rush_____ Approved By: _____

Reporting Limits -

State where samples were collected: **MA** RI CT NH NJ NY ME Other_____

Is this project for any of the following: (please circle)
MA-MCP CT-RCP NJ-DKQP RGP DOD Other____

Electonic Deliverable Yes ✓ No___
Format: Excel ✓ Access___ PDF ✓ Other____

GZA Project Manager: David E. Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Ave
Norwood, MA 02062
(781) 278-3700

Project No.: 01.0171521.13 Task 001

Project Name: Wynn - Everett

Contract Pricing ____
Special Pricing WO#: _____

ESS Lab Sample ID	Date	Collection Time	Grab -G Composite-C	Matrix	Sample Identification	# of Containers	Analysis: MCP 14 Metals	PAHs by SIM	TOC	SVOCs	PCBs (Aroclors)	EPH	Hexavalent Chromium	Reactivity (Sulfide and Cyanide)	VOCs	% water	Grain Size Analysis	Comment #
	3/30/15	0830	G	S	GZ-221 (4'-6')		X	X										
5		0830			GZ-221 (0'-3')		X		X	X	X	X	X	X	X	X	X	(1)
6		09:05			GZ-222 (0'-0.5')		X	X	X	X	X	X						
					GZ-222 (0.5'-2')		X	X										
					GZ-222 (2'-4')		X	X										
		↓			GZ-222 (4'-6')		HOLD AND FREEZE											
7		09:18			GZ-223 (0'-0.5')		X	X	X	X	X	X						
					GZ-223 (0.5'-2')		HOLD AND FREEZE											
					GZ-223 (2'-4')		X	X										
8	↓	↓	↓	↓	GZ-223 (0'-3')		X		X	X	X	X	X	X	X	X	X	(1)

Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-____

Container Type: P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filter

Cooler Present ___X___Yes _____No

Seals Intact _____Yes _____No NA: X

Cooler Temperature: 3.1°/4.6° ICE MC 3/31/15

Sampled by : Daniel Scanlon (Daniel.Scanlon@gza.com)

Comments: (1) TCLP 20X Rule Applies ONLY if noted in comments column.

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
[signature]	3/30/15 @ 1400	Bill Buccon 3/31/15 0730	Bill Buccon 3/31/15 0930		[signature] 3/31/15 1227

ESS Laboratory

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

ESS LAB PROJECT ID: 13D3556

Turn Time ___X___ Standard Rush_____ Approved By: _____

Reporting Limits -

State where samples were collected: **MA** RI CT NH NJ NY ME Other_____

Is this project for any of the following: (please circle)
MA-MCP CT-RCP NJ-DKQP RGP DOD Other___

Electonic Deliverable Yes ✓ No___
Format: Excel ✓ Access___ PDF ✓ Other___

GZA Project Manager: David E. Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Ave
Norwood, MA 02062
(781) 278-3700

Project No.: 01.0171521.13 Task 001

Project Name: Wynn - Everett

Contract Pricing ____
Special Pricing WO#: _____

ESS Lab Sample ID	Date	Collection Time	Grab -G Composite-C	Matrix	Sample Identification	# of Containers	MCP-14 Metals	PAHs by SIM	TOC	SVOCs	PCBs (Aroclors)	EPH	Hexavalent Chromium	Reactivity (Sulfide and Cyanide)	VOCs	% water	Grain Size Analysis	Comment #
9	3/30/15	0945	G	S	GZ-224 (0'-0.5')		X	X	X	X	X	X						
10					GZ-224 (0.5'-2')		X	X	X	X	X	X						
		↓			GZ-224 (2'-3')		HOLD AND PRESERVE											
11		1010			GZ-214 (0'-0.5')		X	X	X	X	X	X						
					GZ-214 (0.5'-2')		HOLD AND PRESERVE											
12					GZ-214 (2'-4')		X	X	X	X	X	X						
13					GZ-214 (4'-6')		X	X	X	X	X	X						
		↓			GZ-214 (6'-8')		HOLD											
14		1040			GZ-215 (0'-0.5')		X	X	X	X	X	X						
	↓	1040	↓	↓	GZ-215 (0.5'-2')		HOLD AND PRESERVE											

Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-____

Container Type: P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filter

Cooler Present ✓ Yes ____ No

Seals Intact ____ Yes ____ No NA: X

Cooler Temperature: 3.1°/4.6° ICE @ 3/31/15

Sampled by : Daniel Scanlon (Daniel.Scanlon@gza.com)

Comments: (1) TCLP 20X Rule Applies ONLY if noted in comments column.

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
[signature]	3/30/15 @1400	0700 B.O'Brien 3/31/15	0800 B.O'Brien 3/31/15		[signature] 3/31/15 1227

Page 3 of 4

ESS Laboratory

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

ESS LAB PROJECT ID: 1503556

Turn Time ___X___Standard Rush_____ Approved By: _____

Reporting Limits -

State where samples were collected: **MA** RI CT NH NJ NY ME Other_____

Is this project for any of the following: (please circle)
MA-MCP CT-RCP NJ-DKQP RGP DOD Other____

Electonic Deliverable Yes ✓ No___
Format: Excel ✓ Access___ PDF ✓ Other____

GZA Project Manager: David E. Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Ave
Norwood, MA 02062
(781) 278-3700

Project No.: 01.0171521.13 Task 001

Project Name: Wynn - Everett

Contract Pricing ____
Special Pricing WO#: _____

ESS Lab Sample ID	Date	Collection Time	Grab -G Composite-C	Matrix	Sample Identification	# of Containers	Analysis: MCP 14 Metals	PAHs by SIM	TOC	SVOCs	PCBs (Aroclors)	EPH	Hexavalent Chromium	Reactivity (Sulfide and Cyanide)	VOCs	% water	Grain Size Analysis	Comment #
	3/30/15	1040	G	S	GZ-215 (2'-4')		HOLD	AND				FREEZE						
	↓	↓	G	S	GZ-215 (4'-6')		X	X										
15	↓	↓	G	S	GZ-215 (0'-3')		X		X	X	X	X	X	X	X	X	X	(1)

Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-____

Container Type: P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filter

Cooler Present ___X___Yes _____No

Seals Intact _____Yes _____No NA: X

Cooler Temperature: 3.1°/4.6°C IR 3/31/15

Sampled by : Daniel Scanlon (Daniel.Scanlon@gza.com)

Comments: (1) TCLP 20X Rule Applies ONLY if indicated in comments column

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	3/30/15 1400	0700 3/31/15	0950		3/31/15 1227

Page 4 of 4

Page 46 of 51

ESS Laboratory — T. America — CHAIN OF CUSTODY

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston RI 02910-2211
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www.esslaboratory.com

ESS Lab # 1503556

Turn Time _____Standard Other **5 DAY**

Regulatory State: **MA** RI CT NH NJ NY ME Other_____

Is this project for any of the following:(please circle)
MA-MCP Navy USACE CT DEP Other_____

Reporting Limits - _____

Electonic Deliverables **Excel** Access **PDF** *

Co. Name	Project #	Project Name
ESS Laboratory		
Contact Person	Proj. Location	
Christine Taylor		
Address	City , State	Zip / PO #
		PO # B02192
Tel. ext. 3039	email: ctaylor@thielsch.com	email: smorrell@thielsch.com

ESS Lab ID	Date	Collection Time	Grab -G Composite-C	Matrix	Sample ID	Pres Code	# of Containers	Type of Container	Vol of Container	Analysis: TOC Lloyd Kahn								
	3/30/15	0758	G	SED	1503556-01	1	1	G	2oz	X								
	3/30/15	0811	G	SED	1503556-02	1	1	G	2oz	X								
	3/30/15	0811	G	SED	1503556-03	1	1	G	2oz	X								
	3/30/15	0830	G	SED	1503556-04	1	1	G	2oz	X								
	3/30/15	0830	G	SED	1503556-05	1	1	G	2oz	X								
	3/30/15	0905	G	SED	1503556-06	1	1	G	2oz	X								
	3/30/15	0918	G	SED	1503556-07	1	1	G	2oz	X								
	3/30/15	0918	G	SED	1503556-08	1	1	G	2oz	X								
	3/30/15	0945	G	SED	1503556-09	1	1	G	2oz	X								
	3/30/15	0945	G	SED	1503556-10	1	1	G	2oz	X								
	3/30/15	1010	G	SED	1503556-11	1	1	G	2oz	X								
	3/30/15	1010	G	SED	1503556-12	1	1	G	2oz	X								
	3/30/15	1010	G	SED	1503556-13	1	1	G	2oz	X								
	3/30/15	1040	G	SED	1503556-14	1	1	G	2oz	X								
	3/30/15	1040	G	SED	1503556-15	1	1	G	2oz	X								

Container Type: P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filter

Cooler Present _____Yes _____No

Seals Intact ____ Yes _____No NA:____

Cooler Temperature: _____

Internal Use Only

[ ] Pickup

[ ] Technician____

Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-_____

Sampled by :

Comments:

Relinquished by: (Signature, Date & Time)	Received by: (Signature, Date & Time)	Relinquished by: (Signature, Date & Time)	Received by: (Signature, Date & Time)
4/1/15 1410	4/1/15 14:10		
Relinquished by: (Signature, Date & Time)	Received by: (Signature, Date & Time)	Relinquished by: (Signature, Date & Time)	Received by: (Signature, Date & Time)

Page 4 of 51

* By circling MA-MCP, client acknowledges sampels were collected in accordance with MADEP CAM VIIA

Please fax to the laboratory all changes to Chain of Custody

Report Method Blank & Laboratory Control Sample Results

ESS Laboratory

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185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

ESS LAB PROJECT ID: 503536

Turn Time ___X___ Standard Rush_____ Approved By: _____

Reporting Limits -

State where samples were collected: **MA** RI CT NH NJ NY ME Other_____

Is this project for any of the following: (please circle)
MA-MCP CT-RCP NJ-DKQP RGP DOD Other___

Electonic Deliverable Yes ✓ No___
Format: Excel ✓ Access___ PDF ✓ Other_____

GZA Project Manager: David E. Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Ave
Norwood, MA 02062
(781) 278-3700

Project No.: 01.0171521.13 Task 001

Project Name: Wynn - Everett

Contract Pricing _____
Special Pricing WO#: _____

ESS Lab Sample ID	Date	Collection Time	Grab -G Composite-C	Matrix	Sample Identification	# of Containers	MCP-14 Metals	PAHs by SIM	TOC	SVOCs	PCBs (Aroclors)	EPH	Hexavalent Chromium	Reactivity (Sulfide and Cyanide)	VOCs	% water	Grain Size Analysis	Comment #
1	3-30-15	0758	G	S	GZ-22A (0'-0.5')		X	X	X	X	X	X						
					GZ-22A (0.5'-2')		X	X										
		↓			GZ-22A (2'-4')		X	X										
2		08:11			GZ-220 (0'-0.5')		X	X	X	X	X	X						
3					GZ-220 (0.5'-2')		X	X	X	X	X	X						
					GZ-220 (2'-4')		X	X										
		↓			GZ-220 (4'-6')		HOLD AND FREEZE											
4		0830			GZ-221 (0'-0.5')		X	X	X	X	X							
					GZ-221 (0.5'-2')		HOLD AND FREEZE											
	↓	↓	↓	↓	GZ-221 (2'-4')		HOLD AND FREEZE											

Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-_____

Container Type: P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filter

Cooler Present ___X___Yes _____No

Seals Intact _____Yes _____No NA: X

Cooler Temperature: 3.1°/4.6°ICE

Sampled by : Daniel Scanlon (Daniel.Scanlon@gza.com)

Comments: (1) TCLP 20X Rule Applies ONLY if note in the comments column

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	3/30/15 @ 1400	0700 3/31/15	0830 3/31/15		3/31/15 1227

Page 1 of 4

Page 48 of 54

ESS Laboratory

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185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

ESS LAB PROJECT ID: 1503556

Turn Time ___X___Standard Rush_____ Approved By: _____

Reporting Limits -

State where samples were collected: **MA** RI CT NH NJ NY ME Other_____

Is this project for any of the following: (please circle)
MA-MCP CT-RCP NJ-DKQP RGP DOD Other____

Electonic Deliverable Yes ✓ No___
Format: Excel ✓ Access___ PDF ✓ Other____

GZA Project Manager: David E. Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Ave
Norwood, MA 02062
(781) 278-3700

Project No.: 01.0171521.13 Task 001

Project Name: Wynn - Everett

Contract Pricing ____
Special Pricing WO#: _____

ESS Lab Sample ID	Date	Collection Time	Grab -G Composite-C	Matrix	Sample Identification	# of Containers	Analysis: MCP-14 Metals	PAHs by SIM	TOC	SVOCs	PCBs (Aroclors)	EPH	Hexavalent Chromium	Reactivity (Sulfide and Cyanide)	VOCs	% water	Grain Size Analysis	Comment #
	3/30/15	0830	G	S	GZ-221 (4'-6')		X	X										
5		0830			GZ-221 (0'-3')		X		X	X	X	X	X	X	X	X	X	(1)
6		09:05			GZ-222 (0'-0.5')		X	X	X	X	X	X						
					GZ-222 (0.5'-2')		X	X										
					GZ-222 (2'-4')		X	X										
					GZ-222 (4'-6')		HOLD AND FREEZE											
7		09:18			GZ-223 (0'-0.5')		X	X	X	X	X	X						
					GZ-223 (0.5'-2')		HOLD AND FREEZE											
					GZ-223 (2'-4')		X	X										
8					GZ-223 (0'-3')		X		X	X	X	X	X	X	X	X	X	(1)

Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-____

Container Type: P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filter

Cooler Present ___X___Yes _____No

Seals Intact _____Yes _____No NA: X

Cooler Temperature: 3.1°/4.6° ICE MC 3/31/15

Sampled by : Daniel Scanlon (Daniel.Scanlon@gza.com)

Comments: (1) TCLP 20X Rule Applies ONLY if noted in comments column.

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
[signature]	3/30/15 @ 1400	Bill Burcan 3/31/15 0730	Bill Burcan 3/31/15 0930		[signature] 3/31/15 1227

ESS Laboratory

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

ESS LAB PROJECT ID: 503556

Turn Time ___X___ Standard Rush_____ Approved By: _____

Reporting Limits -

State where samples were collected: **MA** RI CT NH NJ NY ME Other_____

Is this project for any of the following: (please circle)
MA-MCP CT-RCP NJ-DKQP RGP DOD Other___

Electonic Deliverable Yes ✓ No___
Format: Excel ✓ Access___ PDF ✓ Other___

GZA Project Manager: David E. Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Ave
Norwood, MA 02062
(781) 278-3700

Project No.: 01.0171521.13 Task 001

Project Name: Wynn - Everett

Contract Pricing ____
Special Pricing WO#: _____

ESS Lab Sample ID	Date	Collection Time	Grab -G Composite-C	Matrix	Sample Identification	# of Containers	MCP-14 Metals	PAHs by SIM	TOC	SVOCs	PCBs (Aroclors)	EPH	Hexavalent Chromium	Reactivity (Sulfide and Cyanide)	VOCs	% water	Grain Size Analysis	Comment #
9	3/30/15	0945	G	S	GZ-224 (0'-0.5')		X	X	X	X	X	X						
10					GZ-224 (0.5'-2')		X	X	X	X	X	X						
		↓			GZ-224 (2'-3')		HOLD	AND	FREEZE									
11		1010			GZ-214 (0'-0.5')		X	X	X	X	X	X						
					GZ-214 (0.5'-2')		HOLD	AND	FREEZE									
12					GZ-214 (2'-4')		X	X	X	X	X	X						
13					GZ-214 (4'-6')		X	X	X	X	X	X						
		↓			GZ-214 (6'-8')		X	X										
14		1040			GZ-215 (0'-0.5')		X	X	X	X	X	X						
		1040	↓	↓	GZ-215 (0.5'-2')		HOLD	AND	FREEZE									

Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-____

Container Type: P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filter

Cooler Present ✓ Yes ____ No

Seals Intact ____ Yes ____ No NA: X

Cooler Temperature: 3.1°/4.6° ICE @ 3/31/15

Sampled by : Daniel Scanlon (Daniel.Scanlon@gza.com)

Comments: (1) TCLP 20X Rule Applies ONLY if noted in comments column.

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
[signature]	3/30/15 @ 1400	[signature] 0700 3/31/15	[signature] 0800 3/31/15		[signature] 3/31/15 1227

Page 3 of 4

Page 3 of 31

ESS Laboratory

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185 Frances Avenue, Cranston, RI 02910-2211
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www.esslaboratory.com

CHAIN OF CUSTODY

ESS LAB PROJECT ID: 1503556

Turn Time ___X___Standard Rush_____ Approved By: _____

Reporting Limits -

State where samples were collected: **MA** RI CT NH NJ NY ME Other_____

Is this project for any of the following: (please circle)
MA-MCP CT-RCP NJ-DKQP RGP DOD Other____

Electonic Deliverable Yes ✓ No___
Format: Excel ✓ Access___ PDF ✓ Other____

GZA Project Manager: David E. Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Ave
Norwood, MA 02062
(781) 278-3700

Project No.: 01.0171521.13 Task 001

Project Name: Wynn - Everett

Contract Pricing ____
Special Pricing WO#: _____

ESS Lab Sample ID	Date	Collection Time	Grab -G Composite-C	Matrix	Sample Identification	# of Containers	Analysis: MCP-14 Metals	PAHs by SIM	TOC	SVOCs	PCBs (Aroclors)	EPH	Hexavalent Chromium	Reactivity (Sulfide and Cyanide)	VOCs	% water	Grain Size Analysis	Comment #
	3/30/15	1040	G	S	GZ-215 (2'-4')		HOLD			AND		FREEZE						
	↓	↓	G	S	GZ-215 (4'-6')		X	X										
15	↓	↓	G	S	GZ-215 (0'-3')		X		X	X	X	X	X	X	X	X	X	(1)

Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-_____
Container Type: P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA
Matrix: S-Soil SD-Solid D-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filter

Cooler Present ___X___Yes _____No
Seals Intact _____Yes _____No NA: X
Cooler Temperature: 3.1°/4.6°ICE 3/31/15

Sampled by : Daniel Scanlon (Daniel.Scanlon@gza.com)

Comments: (1) TCLP 20X Rule Applies ONLY if indicated in comments column

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	3/30/15 1400	0700 3/31/15	0850		3/31/15 1227

Page 51 of 51

CERTIFICATE OF ANALYSIS

David E Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Avenue
Norwood, MA 02062

RE: Wynn Everett Sediment Phase (01.0171521.13 Task 001)
ESS Laboratory Work Order Number: 1503558

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard
Laboratory Director

REVIEWED
By ESS Laboratory at 9:02 am, Apr 14, 2015

Analytical Summary
The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with NELAC Standards, A2LA and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.

Subcontracted Analyses
CTS - Cranston, RI — Grain Size Analysis, Percent Water

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503558

SAMPLE RECEIPT

The following samples were received on March 31, 2015 for the analyses specified on the enclosed Chain of Custody Record.

To achieve CAM compliance for MCP data, ESS Laboratory has performed and reviewed all QA/QC Requirements and Performance Standards listed in each method. Holding times and preservation have also been reviewed. All CAM requirements have been achieved unless noted in the project narrative.

Each method has been set-up in the laboratory to reach required MCP standards. The methods for aqueous VOA and Soil Methanol VOA have known limitations for certain analytes. The regulatory standards may not be achieved due to these limitations. In addition, for all methods, matrix interferences, dilutions, and %Solids may elevate method reporting limits above regulatory standards. ESS Laboratory can provide, upon request, a Data Checker (regulatory standard comparison spreadsheet) electronic deliverable which will highlight these exceedances.

For EPH soil samples, the aromatic range results have been corrected for identified cartridge contaminant in accordance with the CAM protocol.

Low Level VOA vials were frozen by <Client/ESS Laboratory> on <Date> at <time>.

Question I: Samples GZ-226 0.5ft-2ft, GZ-226 2ft-4ft, GZ-220 2ft-4ft, GZ-221 4ft-6ft, GZ-222 0.5ft-2ft, GZ-222 2ft-4ft and GZ-223 2ft-4ft (1503558-02, 1503558-03, 1503558-06, 1503558-08, 1503558-11, 1503558-12 and 1503558-14) for SVOA were analyzed for a subset of the required MCP list per the client's request.

Samples were decanted by ESS, per client request, upon receipt.

Lab Number	Sample Name	Matrix	Analysis
1503558-01	GZ-226 0ft-0.5ft	Soil	8270D, EPH8270, MADEP-EPH
1503558-02	GZ-226 0.5ft-2ft	Soil	8270D
1503558-03	GZ-226 2ft-4ft	Soil	8270D
1503558-04	GZ-220 0ft-0.5ft	Soil	8270D, EPH8270, MADEP-EPH
1503558-05	GZ-220 0.5ft-2ft	Soil	8270D, EPH8270, MADEP-EPH
1503558-06	GZ-220 2ft-4ft	Soil	8270D
1503558-07	GZ-221 0ft-0.5ft	Soil	8270D, EPH8270, MADEP-EPH
1503558-08	GZ-221 4ft-6ft	Soil	8270D
1503558-09	GZ-221 0ft-3ft	Soil	§, 2580, 7.3.3.2, 7.3.4.1, 7196A, 8260B Low, 8270D, 9045, EPH8270, MADEP-EPH
1503558-10	GZ-222 0ft-0.5ft	Soil	8270D, EPH8270, MADEP-EPH
1503558-11	GZ-222 0.5ft-2ft	Soil	8270D
1503558-12	GZ-222 2ft-4ft	Soil	8270D
1503558-13	GZ-223 0ft-0.5ft	Soil	8270D, EPH8270, MADEP-EPH

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
ESS Laboratory Work Order: 1503558

1503558-14	GZ-223 2ft-4ft	Soil	8270D
1503558-15	GZ-223 0ft-3ft	Soil	§, 2580, 7.3.3.2, 7.3.4.1, 7196A, 8260B Low, 8270D, 9045, EPH8270, MADEP-EPH
1503558-16	GZ-226 0ft-0.5ft	Soil	6010C, 6020A, 7010, 7471B
1503558-17	GZ-226 0.5ft-2ft	Soil	6010C, 6020A, 7010, 7471B
1503558-18	GZ-226 2ft-4ft	Soil	6010C, 6020A, 7010, 7471B
1503558-19	GZ-220 0ft-0.5ft	Soil	6010C, 6020A, 7010, 7471B
1503558-20	GZ-220 0.5ft-2ft	Soil	6010C, 6020A, 7010, 7471B
1503558-21	GZ-220 2ft-4ft	Soil	6010C, 6020A, 7010, 7471B
1503558-22	GZ-221 0ft-0.5ft	Soil	6010C, 6020A, 7010, 7471B
1503558-23	GZ-221 4ft-6ft	Soil	6010C, 6020A, 7010, 7471B
1503558-24	GZ-221 0ft-3ft	Soil	6010C, 6020A, 7010, 7471B
1503558-25	GZ-222 0ft-0.5ft	Soil	6010C, 6020A, 7010, 7471B
1503558-26	GZ-222 0.5ft-2ft	Soil	6010C, 6020A, 7010, 7471B
1503558-27	GZ-222 2ft-4ft	Soil	6010C, 6020A, 7010, 7471B
1503558-28	GZ-223 0ft-0.5ft	Soil	6010C, 6020A, 7010, 7471B
1503558-29	GZ-223 2ft-4ft	Soil	6010C, 6020A, 7010, 7471B
1503558-30	GZ-223 0ft-3ft	Soil	6010C, 6020A, 7010, 7471B
1503558-31	GZ-226 0ft-0.5ft	Soil	8082A
1503558-32	GZ-220 0ft-0.5ft	Soil	8082A
1503558-33	GZ-220 0.5ft-2ft	Soil	8082A
1503558-34	GZ-221 0ft-0.5ft	Soil	8082A
1503558-35	GZ-221 0ft-3ft	Soil	8082A
1503558-36	GZ-222 0ft-0.5ft	Soil	8082A
1503558-37	GZ-223 0ft-0.5ft	Soil	8082A
1503558-38	GZ-223 0ft-3ft	Soil	8082A

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase ESS Laboratory Work Order: 1503558

PROJECT NARRATIVE

5035/8260B Volatile Organic Compounds / Low Level

CD50146-BSD1 **Blank Spike recovery is above upper control limit (B+).**
Acetone (180% @ 70-130%), Bromomethane (134% @ 70-130%)

CD50146-BSD1 **Relative percent difference for duplicate is outside of criteria (D+).**
Acetone (61% @ 25%)

CD50239-BS1 **Blank Spike recovery is above upper control limit (B+).**
Bromomethane (175% @ 70-130%)

CD50239-BSD1 **Blank Spike recovery is above upper control limit (B+).**
Bromomethane (157% @ 70-130%)

CYD0007-CCV1 **Continuing Calibration recovery is above upper control limit (C+).**
1,2-Dibromo-3-Chloropropane (253% @ 70-130%), Bromomethane (152% @ 70-130%)

CYD0007-CCV1 **Continuing Calibration recovery is below lower control limit (C-).**
1,2-Dichloropropane (79% @ 80-120%)

CYD0025-CCV1 **Continuing Calibration recovery is above upper control limit (C+).**
Bromomethane (168% @ 70-130%)

8082A Polychlorinated Biphenyls (PCB)

1503558-32 **Percent difference between primary and confirmation results exceeds 40% (P).**
Aroclor 1248

1503558-35 **Lower value is used due to matrix interferences (LC).**
Aroclor 1248

1503558-35 **Percent difference between primary and confirmation results exceeds 40% (P).**
Aroclor 1248

1503558-36 **Lower value is used due to matrix interferences (LC).**
Aroclor 1248

1503558-36 **Percent difference between primary and confirmation results exceeds 40% (P).**
Aroclor 1248

1503558-38 **Surrogate recovery(ies) below lower control limit (S-).**
Tetrachloro-m-xylene [2C] (21% @ 30-150%)

8270D Semi-Volatile Organic Compounds

CD50739-BS1 **Blank Spike recovery is below lower control limit (B-).**
Aniline (39% @ 40-140%)

CD50739-BSD1 **Blank Spike recovery is below lower control limit (B-).**
Aniline (38% @ 40-140%)

CYD0041-CCV1 **Continuing Calibration recovery is above upper control limit (C+).**
Di-n-octylphthalate (123% @ 80-120%), p-Terphenyl-d14 (122% @ 80-120%), Pyrene (122% @ 80-120%)

8270D(SIM) Polynuclear Aromatic Hydrocarbons

CD50227-BS1 **Blank Spike recovery is below lower control limit (B-).**

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase ESS Laboratory Work Order: 1503558

Acenaphthylene (10% @ 40-140%)

CD50227-BSD1 **Relative percent difference for duplicate is outside of criteria (D+).**
Acenaphthylene (151% @ 30%), Anthracene (44% @ 30%), Benzo(a)pyrene (49% @ 30%)

CYD0151-CCV1 **Continuing Calibration recovery is above upper control limit (C+).**
Indeno(1,2,3-cd)Pyrene (132% @ 70-130%)

Classical Chemistry

1503558-09 **Estimated value. Sample hold times were exceeded (H).**
Corrosivity (pH) , Corrosivity (pH) Sample Temp , Eh (ORP)

1503558-15 **Estimated value. Sample hold times were exceeded (H).**
Corrosivity (pH) , Corrosivity (pH) Sample Temp , Eh (ORP)

MADEP-EPH Extractable Petroleum Hydrocarbons

CD50135-BSD2 **Relative percent difference for duplicate is outside of criteria (D+).**
2-Methylnaphthalene (39% @ 20%), Acenaphthene (35% @ 20%), Acenaphthylene (39% @ 20%), Anthracene (36% @ 20%), Benzo(a)anthracene (36% @ 20%), Benzo(a)pyrene (34% @ 20%), Benzo(b)fluoranthene (34% @ 20%), Benzo(g,h,i)perylene (34% @ 20%), Benzo(k)fluoranthene (36% @ 20%), C11-C22 Unadjusted Aromatics1 (49% @ 25%), Chrysene (34% @ 20%), Dibenzo(a,h)Anthracene (35% @ 20%), Fluoranthene (34% @ 20%), Fluorene (36% @ 20%), Indeno(1,2,3-cd)Pyrene (35% @ 20%), Naphthalene (37% @ 20%), Phenanthrene (35% @ 20%), Pyrene (34% @ 20%)

No other observations noted.

End of Project Narrative.

DATA USABILITY LINKS

Definitions of Quality Control Parameters
Semivolatile Organics Internal Standard Information
Semivolatile Organics Surrogate Information
Volatile Organics Internal Standard Information
Volatile Organics Surrogate Information
EPH and VPH Alkane Lists

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503558

CURRENT SW-846 METHODOLOGY VERSIONS

Analytical Methods

1010A - Flashpoint
6010C - ICP
6020A - ICP MS
7010 - Graphite Furnace
7196A - Hexavalent Chromium
7470A - Aqueous Mercury
7471B - Solid Mercury
8011 - EDB/DBCP/TCP
8015D - GRO/DRO
8081B - Pesticides
8082A - PCB
8100M - TPH
8151A - Herbicides
8260B - VOA
8270D - SVOA
8270D SIM - SVOA Low Level
9014 - Cyanide
9038 - Sulfate
9040C - Aqueous pH
9045D - Solid pH (Corrosivity)
9050A - Specific Conductance
9056A - Anions (IC)
9060A - TOC
9095B - Paint Filter
MADEP 04-1.1 - EPH / VPH

Prep Methods

3005A - Aqueous ICP and Graphite Furnace Digestion
3020A - Aqueous ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3546 - Microwave Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5030C - Aqueous Purge and Trap
5035 - Solid Purge and Trap

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase ESS Laboratory Work Order: 1503558

MassDEP Analytical Protocol Certification Form

MADEP RTN: _____

This form provides certification for the following data set: **1503558-01 through 1503558-38**

Matrices: ( ) Ground Water/Surface Water (X) Soil/Sediment ( ) Drinking Water ( ) Air ( ) Other:_____

CAM Protocol (check all that apply below):

(X) 8260 VOC CAM II A	(X) 7470/7471 Hg CAM III B	( ) MassDEP VPH CAM IV A	( ) 8081 Pesticides CAM V B	(X) 7196 Hex Cr CAM VI B	( ) MassDEP APH CAM IX A
(X) 8270 SVOC CAM II B	(X) 7010 Metals CAM III C	(X) MassDEP EPH CAM IV B	( ) 8151 Herbicides CAM V C	( ) 8330 Explosives CAM VIII A	( ) TO-15 VOC CAM IX B
(X) 6010 Metals CAM III A	(X) 6020 Metals CAM III D	(X) 8082 PCB CAM V A	( ) 6860 Perchlorate CAM VIII B	( ) 9014 Total Cyanide/PAC CAM VI A	

Affirmative responses to questions A through F are required for Presumptive Certainty status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	Yes ( ) No (X)
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	Yes (X) No ( )
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	Yes (X) No ( )
D	Does the laboratory report comply with all the reporting requirements specified in the CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	Yes (X) No ( )
E	a. VPH, EPH, APH and TO-15 only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	Yes (X) No ( )
	b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	Yes ( ) No ( )
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	Yes (X) No ( )

Responses to Questions G, H and I below are required for Presumptive Certainty status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocols(s)? ***Data User Note:*** ***Data that achieve Presumptive Certainty status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.***	Yes (X) No ( )*
H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	Yes ( ) No (X)*
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	Yes ( ) No (X)*

****All negative responses must be addressed in an attached laboratory narrative.***

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: _____ Date: April 14, 2015
Printed Name: Lauren Stoddard Position: Laboratory Director

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-226 0ft-0.5ft
Date Sampled: 03/30/15 07:58
Percent Solids: 55
Initial Volume: 30.1
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503558
ESS Laboratory Sample ID: 1503558-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 4/2/15 15:23

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.304)		8270D		1	04/06/15 20:57	CYD0082	CD50739
1,2-Dichlorobenzene	ND (0.304)		8270D		1	04/06/15 20:57	CYD0082	CD50739
1,3-Dichlorobenzene	ND (0.304)		8270D		1	04/06/15 20:57	CYD0082	CD50739
1,4-Dichlorobenzene	ND (0.304)		8270D		1	04/06/15 20:57	CYD0082	CD50739
2,4,5-Trichlorophenol	ND (0.304)		8270D		1	04/06/15 20:57	CYD0082	CD50739
2,4,6-Trichlorophenol	ND (0.304)		8270D		1	04/06/15 20:57	CYD0082	CD50739
2,4-Dichlorophenol	ND (0.304)		8270D		1	04/06/15 20:57	CYD0082	CD50739
2,4-Dimethylphenol	ND (0.304)		8270D		1	04/06/15 20:57	CYD0082	CD50739
2,4-Dinitrophenol	ND (1.52)		8270D		1	04/06/15 20:57	CYD0082	CD50739
2,4-Dinitrotoluene	ND (0.304)		8270D		1	04/06/15 20:57	CYD0082	CD50739
2,6-Dinitrotoluene	ND (0.304)		8270D		1	04/06/15 20:57	CYD0082	CD50739
2-Chloronaphthalene	ND (0.304)		8270D		1	04/06/15 20:57	CYD0082	CD50739
2-Chlorophenol	ND (0.304)		8270D		1	04/06/15 20:57	CYD0082	CD50739
2-Methylphenol	ND (0.304)		8270D		1	04/06/15 20:57	CYD0082	CD50739
2-Nitrophenol	ND (0.304)		8270D		1	04/06/15 20:57	CYD0082	CD50739
3,3´-Dichlorobenzidine	ND (0.608)		8270D		1	04/06/15 20:57	CYD0082	CD50739
3+4-Methylphenol	ND (0.608)		8270D		1	04/06/15 20:57	CYD0082	CD50739
4-Bromophenyl-phenylether	ND (0.304)		8270D		1	04/06/15 20:57	CYD0082	CD50739
4-Chloroaniline	ND (0.608)		8270D		1	04/06/15 20:57	CYD0082	CD50739
4-Nitrophenol	ND (1.52)		8270D		1	04/06/15 20:57	CYD0082	CD50739
Acetophenone	ND (0.608)		8270D		1	04/06/15 20:57	CYD0082	CD50739
Aniline	ND (1.52)		8270D		1	04/06/15 20:57	CYD0082	CD50739
Azobenzene	ND (0.304)		8270D		1	04/06/15 20:57	CYD0082	CD50739
bis(2-Chloroethoxy)methane	ND (0.304)		8270D		1	04/06/15 20:57	CYD0082	CD50739
bis(2-Chloroethyl)ether	ND (0.304)		8270D		1	04/06/15 20:57	CYD0082	CD50739
bis(2-chloroisopropyl)Ether	ND (0.304)		8270D		1	04/06/15 20:57	CYD0082	CD50739
bis(2-Ethylhexyl)phthalate	**1.54** (0.304)		8270D		1	04/06/15 20:57	CYD0082	CD50739
Butylbenzylphthalate	ND (0.304)		8270D		1	04/06/15 20:57	CYD0082	CD50739
Dibenzofuran	ND (0.304)		8270D		1	04/06/15 20:57	CYD0082	CD50739
Diethylphthalate	ND (0.304)		8270D		1	04/06/15 20:57	CYD0082	CD50739
Dimethylphthalate	ND (0.304)		8270D		1	04/06/15 20:57	CYD0082	CD50739

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-226 0ft-0.5ft
Date Sampled: 03/30/15 07:58
Percent Solids: 55
Initial Volume: 30.1
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503558
ESS Laboratory Sample ID: 1503558-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 4/2/15 15:23

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Di-n-butylphthalate	ND (0.304)		8270D		1	04/06/15 20:57	CYD0082	CD50739
Di-n-octylphthalate	ND (0.304)		8270D		1	04/06/15 20:57	CYD0082	CD50739
Hexachlorobutadiene	ND (0.304)		8270D		1	04/06/15 20:57	CYD0082	CD50739
Hexachloroethane	ND (0.304)		8270D		1	04/06/15 20:57	CYD0082	CD50739
Isophorone	ND (0.304)		8270D		1	04/06/15 20:57	CYD0082	CD50739
Nitrobenzene	ND (0.304)		8270D		1	04/06/15 20:57	CYD0082	CD50739
N-Nitrosodimethylamine	ND (0.304)		8270D		1	04/06/15 20:57	CYD0082	CD50739
Pentachlorophenol	ND (1.52)		8270D		1	04/06/15 20:57	CYD0082	CD50739
Phenol	ND (0.304)		8270D		1	04/06/15 20:57	CYD0082	CD50739

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*43 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*77 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*49 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*57 %*		*30-130*
Surrogate: 2-Fluorophenol	*46 %*		*30-130*
Surrogate: Nitrobenzene-d5	*46 %*		*30-130*
Surrogate: Phenol-d6	*54 %*		*30-130*
Surrogate: p-Terphenyl-d14	*74 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-226 0ft-0.5ft
Date Sampled: 03/30/15 07:58
Percent Solids: 55
Initial Volume: 20.1
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503558
ESS Laboratory Sample ID: 1503558-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 4/2/15 12:56

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	**0.030** (0.023)		8270D		1	04/09/15 9:39	CYD0127	CD50136
Acenaphthene	**0.037** (0.023)		8270D		1	04/09/15 9:39	CYD0127	CD50136
Acenaphthylene	**0.144** (0.023)		8270D		1	04/09/15 9:39	CYD0127	CD50136
Anthracene	**0.183** (0.023)		8270D		1	04/09/15 9:39	CYD0127	CD50136
Benzo(a)anthracene	**0.392** (0.023)		8270D		1	04/09/15 9:39	CYD0127	CD50136
Benzo(a)pyrene	**0.545** (0.023)		8270D		1	04/09/15 9:39	CYD0127	CD50136
Benzo(b)fluoranthene	**0.823** (0.023)		8270D		1	04/09/15 9:39	CYD0127	CD50136
Benzo(g,h,i)perylene	**0.237** (0.023)		8270D		1	04/09/15 9:39	CYD0127	CD50136
Benzo(k)fluoranthene	**0.268** (0.023)		8270D		1	04/09/15 9:39	CYD0127	CD50136
Chrysene	**0.486** (0.023)		8270D		1	04/09/15 9:39	CYD0127	CD50136
Dibenzo(a,h)Anthracene	**0.076** (0.023)		8270D		1	04/09/15 9:39	CYD0127	CD50136
Fluoranthene	**0.764** (0.023)		8270D		1	04/09/15 9:39	CYD0127	CD50136
Fluorene	**0.057** (0.023)		8270D		1	04/09/15 9:39	CYD0127	CD50136
Hexachlorobenzene	ND (0.023)		8270D		1	04/09/15 9:39	CYD0127	CD50136
Indeno(1,2,3-cd)Pyrene	**0.319** (0.023)		8270D		1	04/09/15 9:39	CYD0127	CD50136
Naphthalene	**0.136** (0.023)		8270D		1	04/09/15 9:39	CYD0127	CD50136
Phenanthrene	**0.314** (0.023)		8270D		1	04/09/15 9:39	CYD0127	CD50136
Pyrene	**0.853** (0.023)		8270D		1	04/09/15 9:39	CYD0127	CD50136

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*40 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*66 %*		*30-130*
Surrogate: Nitrobenzene-d5	*45 %*		*30-130*
Surrogate: p-Terphenyl-d14	*77 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-226 0ft-0.5ft
Date Sampled: 03/30/15 07:58
Percent Solids: 55
Initial Volume: 30
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1503558
ESS Laboratory Sample ID: 1503558-01
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 4/2/15 13:31

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (22.9)		MADEP-EPH		1	JXS	04/04/15 19:34	CYD0058	CD50135
C19-C36 Aliphatics1	ND (22.9)		MADEP-EPH		1	JXS	04/04/15 19:34	CYD0058	CD50135
C11-C22 Unadjusted Aromatics1	**25.9** (22.9)		EPH8270		1	JXS	04/04/15 2:39	CYD0054	CD50135
C11-C22 Aromatics1,2	**25.9** (22.9)		EPH8270			JXS	04/04/15 2:39		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*54 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*92 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*83 %*		*40-140*
Surrogate: O-Terphenyl	*74 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-226 0.5ft-2ft
Date Sampled: 03/30/15 07:58
Percent Solids: 62
Initial Volume: 20.2
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503558
ESS Laboratory Sample ID: 1503558-02
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 4/2/15 12:56

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	**0.024** (0.020)		8270D		1	04/09/15 7:12	CYD0127	CD50136
Acenaphthene	**0.022** (0.020)		8270D		1	04/09/15 7:12	CYD0127	CD50136
Acenaphthylene	**0.128** (0.020)		8270D		1	04/09/15 7:12	CYD0127	CD50136
Anthracene	**0.169** (0.020)		8270D		1	04/09/15 7:12	CYD0127	CD50136
Benzo(a)anthracene	**0.447** (0.020)		8270D		1	04/09/15 7:12	CYD0127	CD50136
Benzo(a)pyrene	**0.516** (0.020)		8270D		1	04/09/15 7:12	CYD0127	CD50136
Benzo(b)fluoranthene	**0.553** (0.020)		8270D		1	04/09/15 7:12	CYD0127	CD50136
Benzo(g,h,i)perylene	**0.212** (0.020)		8270D		1	04/09/15 7:12	CYD0127	CD50136
Benzo(k)fluoranthene	**0.161** (0.020)		8270D		1	04/09/15 7:12	CYD0127	CD50136
Chrysene	**0.449** (0.020)		8270D		1	04/09/15 7:12	CYD0127	CD50136
Dibenzo(a,h)Anthracene	**0.055** (0.020)		8270D		1	04/09/15 7:12	CYD0127	CD50136
Fluoranthene	**0.753** (0.020)		8270D		1	04/09/15 7:12	CYD0127	CD50136
Fluorene	**0.044** (0.020)		8270D		1	04/09/15 7:12	CYD0127	CD50136
Hexachlorobenzene	ND (0.020)		8270D		1	04/09/15 7:12	CYD0127	CD50136
Indeno(1,2,3-cd)Pyrene	**0.244** (0.020)		8270D		1	04/09/15 7:12	CYD0127	CD50136
Naphthalene	**0.071** (0.020)		8270D		1	04/09/15 7:12	CYD0127	CD50136
Phenanthrene	**0.248** (0.020)		8270D		1	04/09/15 7:12	CYD0127	CD50136
Pyrene	**0.720** (0.020)		8270D		1	04/09/15 7:12	CYD0127	CD50136

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1,2-Dichlorobenzene-d4	*57 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*69 %*		*30-130*
Surrogate: Nitrobenzene-d5	*58 %*		*30-130*
Surrogate: p-Terphenyl-d14	*85 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-226 2ft-4ft
Date Sampled: 03/30/15 07:58
Percent Solids: 73
Initial Volume: 20.1
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503558
ESS Laboratory Sample ID: 1503558-03
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 4/2/15 12:56

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	ND (0.017)		8270D		1	04/09/15 8:50	CYD0127	CD50136
Acenaphthene	ND (0.017)		8270D		1	04/09/15 8:50	CYD0127	CD50136
Acenaphthylene	ND (0.017)		8270D		1	04/09/15 8:50	CYD0127	CD50136
Anthracene	ND (0.017)		8270D		1	04/09/15 8:50	CYD0127	CD50136
Benzo(a)anthracene	ND (0.017)		8270D		1	04/09/15 8:50	CYD0127	CD50136
Benzo(a)pyrene	ND (0.017)		8270D		1	04/09/15 8:50	CYD0127	CD50136
Benzo(b)fluoranthene	ND (0.017)		8270D		1	04/09/15 8:50	CYD0127	CD50136
Benzo(g,h,i)perylene	ND (0.017)		8270D		1	04/09/15 8:50	CYD0127	CD50136
Benzo(k)fluoranthene	ND (0.017)		8270D		1	04/09/15 8:50	CYD0127	CD50136
Chrysene	**0.019** (0.017)		8270D		1	04/09/15 8:50	CYD0127	CD50136
Dibenzo(a,h)Anthracene	ND (0.017)		8270D		1	04/09/15 8:50	CYD0127	CD50136
Fluoranthene	**0.028** (0.017)		8270D		1	04/09/15 8:50	CYD0127	CD50136
Fluorene	ND (0.017)		8270D		1	04/09/15 8:50	CYD0127	CD50136
Hexachlorobenzene	ND (0.017)		8270D		1	04/09/15 8:50	CYD0127	CD50136
Indeno(1,2,3-cd)Pyrene	ND (0.017)		8270D		1	04/09/15 8:50	CYD0127	CD50136
Naphthalene	ND (0.017)		8270D		1	04/09/15 8:50	CYD0127	CD50136
Phenanthrene	ND (0.017)		8270D		1	04/09/15 8:50	CYD0127	CD50136
Pyrene	**0.033** (0.017)		8270D		1	04/09/15 8:50	CYD0127	CD50136

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*59 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*72 %*		*30-130*
Surrogate: Nitrobenzene-d5	*54 %*		*30-130*
Surrogate: p-Terphenyl-d14	*89 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-220 0ft-0.5ft
Date Sampled: 03/30/15 08:11
Percent Solids: 50
Initial Volume: 30.2
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503558
ESS Laboratory Sample ID: 1503558-04
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 4/2/15 15:23

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.331)		8270D		1	04/06/15 21:32	CYD0082	CD50739
1,2-Dichlorobenzene	ND (0.331)		8270D		1	04/06/15 21:32	CYD0082	CD50739
1,3-Dichlorobenzene	ND (0.331)		8270D		1	04/06/15 21:32	CYD0082	CD50739
1,4-Dichlorobenzene	ND (0.331)		8270D		1	04/06/15 21:32	CYD0082	CD50739
2,4,5-Trichlorophenol	ND (0.331)		8270D		1	04/06/15 21:32	CYD0082	CD50739
2,4,6-Trichlorophenol	ND (0.331)		8270D		1	04/06/15 21:32	CYD0082	CD50739
2,4-Dichlorophenol	ND (0.331)		8270D		1	04/06/15 21:32	CYD0082	CD50739
2,4-Dimethylphenol	ND (0.331)		8270D		1	04/06/15 21:32	CYD0082	CD50739
2,4-Dinitrophenol	ND (1.66)		8270D		1	04/06/15 21:32	CYD0082	CD50739
2,4-Dinitrotoluene	ND (0.331)		8270D		1	04/06/15 21:32	CYD0082	CD50739
2,6-Dinitrotoluene	ND (0.331)		8270D		1	04/06/15 21:32	CYD0082	CD50739
2-Chloronaphthalene	ND (0.331)		8270D		1	04/06/15 21:32	CYD0082	CD50739
2-Chlorophenol	ND (0.331)		8270D		1	04/06/15 21:32	CYD0082	CD50739
2-Methylphenol	ND (0.331)		8270D		1	04/06/15 21:32	CYD0082	CD50739
2-Nitrophenol	ND (0.331)		8270D		1	04/06/15 21:32	CYD0082	CD50739
3,3´-Dichlorobenzidine	ND (0.663)		8270D		1	04/06/15 21:32	CYD0082	CD50739
3+4-Methylphenol	ND (0.663)		8270D		1	04/06/15 21:32	CYD0082	CD50739
4-Bromophenyl-phenylether	ND (0.331)		8270D		1	04/06/15 21:32	CYD0082	CD50739
4-Chloroaniline	ND (0.663)		8270D		1	04/06/15 21:32	CYD0082	CD50739
4-Nitrophenol	ND (1.66)		8270D		1	04/06/15 21:32	CYD0082	CD50739
Acetophenone	ND (0.663)		8270D		1	04/06/15 21:32	CYD0082	CD50739
Aniline	ND (1.66)		8270D		1	04/06/15 21:32	CYD0082	CD50739
Azobenzene	ND (0.331)		8270D		1	04/06/15 21:32	CYD0082	CD50739
bis(2-Chloroethoxy)methane	ND (0.331)		8270D		1	04/06/15 21:32	CYD0082	CD50739
bis(2-Chloroethyl)ether	ND (0.331)		8270D		1	04/06/15 21:32	CYD0082	CD50739
bis(2-chloroisopropyl)Ether	ND (0.331)		8270D		1	04/06/15 21:32	CYD0082	CD50739
bis(2-Ethylhexyl)phthalate	**1.50** (0.331)		8270D		1	04/06/15 21:32	CYD0082	CD50739
Butylbenzylphthalate	ND (0.331)		8270D		1	04/06/15 21:32	CYD0082	CD50739
Dibenzofuran	ND (0.331)		8270D		1	04/06/15 21:32	CYD0082	CD50739
Diethylphthalate	ND (0.331)		8270D		1	04/06/15 21:32	CYD0082	CD50739
Dimethylphthalate	ND (0.331)		8270D		1	04/06/15 21:32	CYD0082	CD50739

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-220 0ft-0.5ft
Date Sampled: 03/30/15 08:11
Percent Solids: 50
Initial Volume: 30.2
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503558
ESS Laboratory Sample ID: 1503558-04
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 4/2/15 15:23

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Di-n-butylphthalate	ND (0.331)		8270D		1	04/06/15 21:32	CYD0082	CD50739
Di-n-octylphthalate	ND (0.331)		8270D		1	04/06/15 21:32	CYD0082	CD50739
Hexachlorobutadiene	ND (0.331)		8270D		1	04/06/15 21:32	CYD0082	CD50739
Hexachloroethane	ND (0.331)		8270D		1	04/06/15 21:32	CYD0082	CD50739
Isophorone	ND (0.331)		8270D		1	04/06/15 21:32	CYD0082	CD50739
Nitrobenzene	ND (0.331)		8270D		1	04/06/15 21:32	CYD0082	CD50739
N-Nitrosodimethylamine	ND (0.331)		8270D		1	04/06/15 21:32	CYD0082	CD50739
Pentachlorophenol	ND (1.66)		8270D		1	04/06/15 21:32	CYD0082	CD50739
Phenol	ND (0.331)		8270D		1	04/06/15 21:32	CYD0082	CD50739

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*43 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*84 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*49 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*59 %*		*30-130*
Surrogate: 2-Fluorophenol	*44 %*		*30-130*
Surrogate: Nitrobenzene-d5	*46 %*		*30-130*
Surrogate: Phenol-d6	*55 %*		*30-130*
Surrogate: p-Terphenyl-d14	*76 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-220 0ft-0.5ft
Date Sampled: 03/30/15 08:11
Percent Solids: 50
Initial Volume: 20.3
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503558
ESS Laboratory Sample ID: 1503558-04
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 4/2/15 12:56

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	ND (0.025)		8270D		1	04/09/15 8:02	CYD0127	CD50136
Acenaphthene	**0.039** (0.025)		8270D		1	04/09/15 8:02	CYD0127	CD50136
Acenaphthylene	**0.077** (0.025)		8270D		1	04/09/15 8:02	CYD0127	CD50136
Anthracene	**0.138** (0.025)		8270D		1	04/09/15 8:02	CYD0127	CD50136
Benzo(a)anthracene	**0.268** (0.025)		8270D		1	04/09/15 8:02	CYD0127	CD50136
Benzo(a)pyrene	**0.339** (0.025)		8270D		1	04/09/15 8:02	CYD0127	CD50136
Benzo(b)fluoranthene	**0.471** (0.025)		8270D		1	04/09/15 8:02	CYD0127	CD50136
Benzo(g,h,i)perylene	**0.162** (0.025)		8270D		1	04/09/15 8:02	CYD0127	CD50136
Benzo(k)fluoranthene	**0.121** (0.025)		8270D		1	04/09/15 8:02	CYD0127	CD50136
Chrysene	**0.340** (0.025)		8270D		1	04/09/15 8:02	CYD0127	CD50136
Dibenzo(a,h)Anthracene	**0.052** (0.025)		8270D		1	04/09/15 8:02	CYD0127	CD50136
Fluoranthene	**0.602** (0.025)		8270D		1	04/09/15 8:02	CYD0127	CD50136
Fluorene	**0.049** (0.025)		8270D		1	04/09/15 8:02	CYD0127	CD50136
Hexachlorobenzene	ND (0.025)		8270D		1	04/09/15 8:02	CYD0127	CD50136
Indeno(1,2,3-cd)Pyrene	**0.209** (0.025)		8270D		1	04/09/15 8:02	CYD0127	CD50136
Naphthalene	**0.105** (0.025)		8270D		1	04/09/15 8:02	CYD0127	CD50136
Phenanthrene	**0.362** (0.025)		8270D		1	04/09/15 8:02	CYD0127	CD50136
Pyrene	**0.580** (0.025)		8270D		1	04/09/15 8:02	CYD0127	CD50136

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*53 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*67 %*		*30-130*
Surrogate: Nitrobenzene-d5	*55 %*		*30-130*
Surrogate: p-Terphenyl-d14	*84 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-220 0ft-0.5ft
Date Sampled: 03/30/15 08:11
Percent Solids: 50
Initial Volume: 30
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1503558
ESS Laboratory Sample ID: 1503558-04
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 4/2/15 13:31

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	**25.9** (25.0)		MADEP-EPH		1	JXS	04/04/15 20:25	CYD0058	CD50135
C19-C36 Aliphatics1	**130** (25.0)		MADEP-EPH		1	JXS	04/04/15 20:25	CYD0058	CD50135
C11-C22 Unadjusted Aromatics1	**106** (25.0)		EPH8270		1	JXS	04/04/15 3:16	CYD0054	CD50135
C11-C22 Aromatics1,2	**100** (25.0)		EPH8270			JXS	04/04/15 3:16		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*66 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*86 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*77 %*		*40-140*
Surrogate: O-Terphenyl	*74 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-220 0.5ft-2ft
Date Sampled: 03/30/15 08:11
Percent Solids: 46
Initial Volume: 30.2
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1503558
ESS Laboratory Sample ID: 1503558-05
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 4/2/15 15:23

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.718)		8270D		1	04/06/15 22:08	CYD0082	CD50739
1,2-Dichlorobenzene	ND (0.718)		8270D		1	04/06/15 22:08	CYD0082	CD50739
1,3-Dichlorobenzene	ND (0.718)		8270D		1	04/06/15 22:08	CYD0082	CD50739
1,4-Dichlorobenzene	ND (0.718)		8270D		1	04/06/15 22:08	CYD0082	CD50739
2,4,5-Trichlorophenol	ND (0.718)		8270D		1	04/06/15 22:08	CYD0082	CD50739
2,4,6-Trichlorophenol	ND (0.718)		8270D		1	04/06/15 22:08	CYD0082	CD50739
2,4-Dichlorophenol	ND (0.718)		8270D		1	04/06/15 22:08	CYD0082	CD50739
2,4-Dimethylphenol	ND (0.718)		8270D		1	04/06/15 22:08	CYD0082	CD50739
2,4-Dinitrophenol	ND (3.60)		8270D		1	04/06/15 22:08	CYD0082	CD50739
2,4-Dinitrotoluene	ND (0.718)		8270D		1	04/06/15 22:08	CYD0082	CD50739
2,6-Dinitrotoluene	ND (0.718)		8270D		1	04/06/15 22:08	CYD0082	CD50739
2-Chloronaphthalene	ND (0.718)		8270D		1	04/06/15 22:08	CYD0082	CD50739
2-Chlorophenol	ND (0.718)		8270D		1	04/06/15 22:08	CYD0082	CD50739
2-Methylphenol	ND (0.718)		8270D		1	04/06/15 22:08	CYD0082	CD50739
2-Nitrophenol	ND (0.718)		8270D		1	04/06/15 22:08	CYD0082	CD50739
3,3´-Dichlorobenzidine	ND (1.44)		8270D		1	04/06/15 22:08	CYD0082	CD50739
3+4-Methylphenol	ND (1.44)		8270D		1	04/06/15 22:08	CYD0082	CD50739
4-Bromophenyl-phenylether	ND (0.718)		8270D		1	04/06/15 22:08	CYD0082	CD50739
4-Chloroaniline	ND (1.44)		8270D		1	04/06/15 22:08	CYD0082	CD50739
4-Nitrophenol	ND (3.60)		8270D		1	04/06/15 22:08	CYD0082	CD50739
Acetophenone	ND (1.44)		8270D		1	04/06/15 22:08	CYD0082	CD50739
Aniline	ND (3.60)		8270D		1	04/06/15 22:08	CYD0082	CD50739
Azobenzene	ND (0.718)		8270D		1	04/06/15 22:08	CYD0082	CD50739
bis(2-Chloroethoxy)methane	ND (0.718)		8270D		1	04/06/15 22:08	CYD0082	CD50739
bis(2-Chloroethyl)ether	ND (0.718)		8270D		1	04/06/15 22:08	CYD0082	CD50739
bis(2-chloroisopropyl)Ether	ND (0.718)		8270D		1	04/06/15 22:08	CYD0082	CD50739
bis(2-Ethylhexyl)phthalate	ND (0.718)		8270D		1	04/06/15 22:08	CYD0082	CD50739
Butylbenzylphthalate	ND (0.718)		8270D		1	04/06/15 22:08	CYD0082	CD50739
Dibenzofuran	ND (0.718)		8270D		1	04/06/15 22:08	CYD0082	CD50739
Diethylphthalate	ND (0.718)		8270D		1	04/06/15 22:08	CYD0082	CD50739
Dimethylphthalate	ND (0.718)		8270D		1	04/06/15 22:08	CYD0082	CD50739

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-220 0.5ft-2ft
Date Sampled: 03/30/15 08:11
Percent Solids: 46
Initial Volume: 30.2
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1503558
ESS Laboratory Sample ID: 1503558-05
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 4/2/15 15:23

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Di-n-butylphthalate	ND (0.718)		8270D		1	04/06/15 22:08	CYD0082	CD50739
Di-n-octylphthalate	ND (0.718)		8270D		1	04/06/15 22:08	CYD0082	CD50739
Hexachlorobutadiene	ND (0.718)		8270D		1	04/06/15 22:08	CYD0082	CD50739
Hexachloroethane	ND (0.718)		8270D		1	04/06/15 22:08	CYD0082	CD50739
Isophorone	ND (0.718)		8270D		1	04/06/15 22:08	CYD0082	CD50739
Nitrobenzene	ND (0.718)		8270D		1	04/06/15 22:08	CYD0082	CD50739
N-Nitrosodimethylamine	ND (0.718)		8270D		1	04/06/15 22:08	CYD0082	CD50739
Pentachlorophenol	ND (3.60)		8270D		1	04/06/15 22:08	CYD0082	CD50739
Phenol	ND (0.718)		8270D		1	04/06/15 22:08	CYD0082	CD50739

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*62 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*80 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*67 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*77 %*		*30-130*
Surrogate: 2-Fluorophenol	*63 %*		*30-130*
Surrogate: Nitrobenzene-d5	*67 %*		*30-130*
Surrogate: Phenol-d6	*72 %*		*30-130*
Surrogate: p-Terphenyl-d14	*83 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-220 0.5ft-2ft
Date Sampled: 03/30/15 08:11
Percent Solids: 46
Initial Volume: 20
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503558
ESS Laboratory Sample ID: 1503558-05
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 4/2/15 12:56

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	**0.423** (0.027)		8270D		1	04/10/15 11:22	CYD0151	CD50136
Acenaphthene	**0.271** (0.027)		8270D		1	04/10/15 11:22	CYD0151	CD50136
Acenaphthylene	**0.925** (0.027)		8270D		1	04/10/15 11:22	CYD0151	CD50136
Anthracene	**1.74** (0.027)		8270D		1	04/10/15 11:22	CYD0151	CD50136
Benzo(a)anthracene	**2.15** (0.027)		8270D		1	04/10/15 11:22	CYD0151	CD50136
Benzo(a)pyrene	**2.18** (0.027)		8270D		1	04/10/15 11:22	CYD0151	CD50136
Benzo(b)fluoranthene	**3.36** (0.271)		8270D		10	04/11/15 9:28	CYD0151	CD50136
Benzo(g,h,i)perylene	**0.902** (0.027)		8270D		1	04/10/15 11:22	CYD0151	CD50136
Benzo(k)fluoranthene	**0.693** (0.027)		8270D		1	04/10/15 11:22	CYD0151	CD50136
Chrysene	**2.33** (0.027)		8270D		1	04/10/15 11:22	CYD0151	CD50136
Dibenzo(a,h)Anthracene	**0.385** (0.027)		8270D		1	04/10/15 11:22	CYD0151	CD50136
Fluoranthene	**5.89** (0.271)		8270D		10	04/11/15 9:28	CYD0151	CD50136
Fluorene	**0.378** (0.027)		8270D		1	04/10/15 11:22	CYD0151	CD50136
Hexachlorobenzene	ND (0.027)		8270D		1	04/10/15 11:22	CYD0151	CD50136
Indeno(1,2,3-cd)Pyrene	**1.24** (0.027)		8270D		1	04/10/15 11:22	CYD0151	CD50136
Naphthalene	**1.41** (0.027)		8270D		1	04/10/15 11:22	CYD0151	CD50136
Phenanthrene	**1.19** (0.027)		8270D		1	04/10/15 11:22	CYD0151	CD50136
Pyrene	**5.17** (0.271)		8270D		10	04/11/15 9:28	CYD0151	CD50136

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1,2-Dichlorobenzene-d4	*54 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*81 %*		*30-130*
Surrogate: Nitrobenzene-d5	*73 %*		*30-130*
Surrogate: p-Terphenyl-d14	*78 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-220 0.5ft-2ft
Date Sampled: 03/30/15 08:11
Percent Solids: 46
Initial Volume: 30.6
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1503558
ESS Laboratory Sample ID: 1503558-05
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 4/2/15 13:31

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (26.6)		MADEP-EPH		1	JXS	04/04/15 21:15	CYD0058	CD50135
C19-C36 Aliphatics1	**58.4** (26.6)		MADEP-EPH		1	JXS	04/04/15 21:15	CYD0058	CD50135
C11-C22 Unadjusted Aromatics1	**179** (26.6)		EPH8270		1	JXS	04/04/15 3:52	CYD0054	CD50135
C11-C22 Aromatics1,2	**179** (26.6)		EPH8270			JXS	04/04/15 3:52		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*54 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*89 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*83 %*		*40-140*
Surrogate: O-Terphenyl	*76 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-220 2ft-4ft
Date Sampled: 03/30/15 08:11
Percent Solids: 64
Initial Volume: 20
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503558
ESS Laboratory Sample ID: 1503558-06
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 4/2/15 17:09

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	ND (0.019)		8270D		1	04/08/15 19:54	CYD0116	CD50227
Acenaphthene	ND (0.019)		8270D		1	04/08/15 19:54	CYD0116	CD50227
Acenaphthylene	ND (0.019)		8270D		1	04/08/15 19:54	CYD0116	CD50227
Anthracene	ND (0.019)		8270D		1	04/08/15 19:54	CYD0116	CD50227
Benzo(a)anthracene	**0.023** (0.019)		8270D		1	04/08/15 19:54	CYD0116	CD50227
Benzo(a)pyrene	**0.025** (0.019)		8270D		1	04/08/15 19:54	CYD0116	CD50227
Benzo(b)fluoranthene	**0.030** (0.019)		8270D		1	04/08/15 19:54	CYD0116	CD50227
Benzo(g,h,i)perylene	ND (0.019)		8270D		1	04/08/15 19:54	CYD0116	CD50227
Benzo(k)fluoranthene	ND (0.019)		8270D		1	04/08/15 19:54	CYD0116	CD50227
Chrysene	**0.028** (0.019)		8270D		1	04/08/15 19:54	CYD0116	CD50227
Dibenzo(a,h)Anthracene	ND (0.019)		8270D		1	04/08/15 19:54	CYD0116	CD50227
Fluoranthene	**0.045** (0.019)		8270D		1	04/08/15 19:54	CYD0116	CD50227
Fluorene	ND (0.019)		8270D		1	04/08/15 19:54	CYD0116	CD50227
Hexachlorobenzene	ND (0.019)		8270D		1	04/08/15 19:54	CYD0116	CD50227
Indeno(1,2,3-cd)Pyrene	ND (0.019)		8270D		1	04/08/15 19:54	CYD0116	CD50227
Naphthalene	ND (0.019)		8270D		1	04/08/15 19:54	CYD0116	CD50227
Phenanthrene	ND (0.019)		8270D		1	04/08/15 19:54	CYD0116	CD50227
Pyrene	**0.045** (0.019)		8270D		1	04/08/15 19:54	CYD0116	CD50227

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*55 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*73 %*		*30-130*
Surrogate: Nitrobenzene-d5	*60 %*		*30-130*
Surrogate: p-Terphenyl-d14	*97 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-221 0ft-0.5ft
Date Sampled: 03/30/15 08:30
Percent Solids: 48
Initial Volume: 30.3
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503558
ESS Laboratory Sample ID: 1503558-07
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 4/2/15 15:23

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.345)		8270D		1	04/06/15 22:44	CYD0082	CD50739
1,2-Dichlorobenzene	ND (0.345)		8270D		1	04/06/15 22:44	CYD0082	CD50739
1,3-Dichlorobenzene	ND (0.345)		8270D		1	04/06/15 22:44	CYD0082	CD50739
1,4-Dichlorobenzene	ND (0.345)		8270D		1	04/06/15 22:44	CYD0082	CD50739
2,4,5-Trichlorophenol	ND (0.345)		8270D		1	04/06/15 22:44	CYD0082	CD50739
2,4,6-Trichlorophenol	ND (0.345)		8270D		1	04/06/15 22:44	CYD0082	CD50739
2,4-Dichlorophenol	ND (0.345)		8270D		1	04/06/15 22:44	CYD0082	CD50739
2,4-Dimethylphenol	ND (0.345)		8270D		1	04/06/15 22:44	CYD0082	CD50739
2,4-Dinitrophenol	ND (1.73)		8270D		1	04/06/15 22:44	CYD0082	CD50739
2,4-Dinitrotoluene	ND (0.345)		8270D		1	04/06/15 22:44	CYD0082	CD50739
2,6-Dinitrotoluene	ND (0.345)		8270D		1	04/06/15 22:44	CYD0082	CD50739
2-Chloronaphthalene	ND (0.345)		8270D		1	04/06/15 22:44	CYD0082	CD50739
2-Chlorophenol	ND (0.345)		8270D		1	04/06/15 22:44	CYD0082	CD50739
2-Methylphenol	ND (0.345)		8270D		1	04/06/15 22:44	CYD0082	CD50739
2-Nitrophenol	ND (0.345)		8270D		1	04/06/15 22:44	CYD0082	CD50739
3,3´-Dichlorobenzidine	ND (0.692)		8270D		1	04/06/15 22:44	CYD0082	CD50739
3+4-Methylphenol	ND (0.692)		8270D		1	04/06/15 22:44	CYD0082	CD50739
4-Bromophenyl-phenylether	ND (0.345)		8270D		1	04/06/15 22:44	CYD0082	CD50739
4-Chloroaniline	ND (0.692)		8270D		1	04/06/15 22:44	CYD0082	CD50739
4-Nitrophenol	ND (1.73)		8270D		1	04/06/15 22:44	CYD0082	CD50739
Acetophenone	ND (0.692)		8270D		1	04/06/15 22:44	CYD0082	CD50739
Aniline	ND (1.73)		8270D		1	04/06/15 22:44	CYD0082	CD50739
Azobenzene	ND (0.345)		8270D		1	04/06/15 22:44	CYD0082	CD50739
bis(2-Chloroethoxy)methane	ND (0.345)		8270D		1	04/06/15 22:44	CYD0082	CD50739
bis(2-Chloroethyl)ether	ND (0.345)		8270D		1	04/06/15 22:44	CYD0082	CD50739
bis(2-chloroisopropyl)Ether	ND (0.345)		8270D		1	04/06/15 22:44	CYD0082	CD50739
bis(2-Ethylhexyl)phthalate	**2.11** (0.345)		8270D		1	04/06/15 22:44	CYD0082	CD50739
Butylbenzylphthalate	ND (0.345)		8270D		1	04/06/15 22:44	CYD0082	CD50739
Dibenzofuran	ND (0.345)		8270D		1	04/06/15 22:44	CYD0082	CD50739
Diethylphthalate	ND (0.345)		8270D		1	04/06/15 22:44	CYD0082	CD50739
Dimethylphthalate	ND (0.345)		8270D		1	04/06/15 22:44	CYD0082	CD50739

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-221 0ft-0.5ft
Date Sampled: 03/30/15 08:30
Percent Solids: 48
Initial Volume: 30.3
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503558
ESS Laboratory Sample ID: 1503558-07
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 4/2/15 15:23

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Di-n-butylphthalate	ND (0.345)		8270D		1	04/06/15 22:44	CYD0082	CD50739
Di-n-octylphthalate	ND (0.345)		8270D		1	04/06/15 22:44	CYD0082	CD50739
Hexachlorobutadiene	ND (0.345)		8270D		1	04/06/15 22:44	CYD0082	CD50739
Hexachloroethane	ND (0.345)		8270D		1	04/06/15 22:44	CYD0082	CD50739
Isophorone	ND (0.345)		8270D		1	04/06/15 22:44	CYD0082	CD50739
Nitrobenzene	ND (0.345)		8270D		1	04/06/15 22:44	CYD0082	CD50739
N-Nitrosodimethylamine	ND (0.345)		8270D		1	04/06/15 22:44	CYD0082	CD50739
Pentachlorophenol	ND (1.73)		8270D		1	04/06/15 22:44	CYD0082	CD50739
Phenol	ND (0.345)		8270D		1	04/06/15 22:44	CYD0082	CD50739

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*50 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*81 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*54 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*58 %*		*30-130*
Surrogate: 2-Fluorophenol	*50 %*		*30-130*
Surrogate: Nitrobenzene-d5	*51 %*		*30-130*
Surrogate: Phenol-d6	*56 %*		*30-130*
Surrogate: p-Terphenyl-d14	*74 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-221 0ft-0.5ft
Date Sampled: 03/30/15 08:30
Percent Solids: 48
Initial Volume: 20
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503558
ESS Laboratory Sample ID: 1503558-07
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 4/2/15 17:09

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	ND (0.026)		8270D		1	04/08/15 20:43	CYD0116	CD50227
Acenaphthene	**0.027** (0.026)		8270D		1	04/08/15 20:43	CYD0116	CD50227
Acenaphthylene	**0.083** (0.026)		8270D		1	04/08/15 20:43	CYD0116	CD50227
Anthracene	**0.107** (0.026)		8270D		1	04/08/15 20:43	CYD0116	CD50227
Benzo(a)anthracene	**0.269** (0.026)		8270D		1	04/08/15 20:43	CYD0116	CD50227
Benzo(a)pyrene	**0.359** (0.026)		8270D		1	04/08/15 20:43	CYD0116	CD50227
Benzo(b)fluoranthene	**0.507** (0.026)		8270D		1	04/08/15 20:43	CYD0116	CD50227
Benzo(g,h,i)perylene	**0.298** (0.026)		8270D		1	04/08/15 20:43	CYD0116	CD50227
Benzo(k)fluoranthene	**0.137** (0.026)		8270D		1	04/08/15 20:43	CYD0116	CD50227
Chrysene	**0.345** (0.026)		8270D		1	04/08/15 20:43	CYD0116	CD50227
Dibenzo(a,h)Anthracene	**0.071** (0.026)		8270D		1	04/08/15 20:43	CYD0116	CD50227
Fluoranthene	**0.578** (0.026)		8270D		1	04/08/15 20:43	CYD0116	CD50227
Fluorene	**0.037** (0.026)		8270D		1	04/08/15 20:43	CYD0116	CD50227
Hexachlorobenzene	ND (0.026)		8270D		1	04/08/15 20:43	CYD0116	CD50227
Indeno(1,2,3-cd)Pyrene	**0.320** (0.026)		8270D		1	04/08/15 20:43	CYD0116	CD50227
Naphthalene	**0.083** (0.026)		8270D		1	04/08/15 20:43	CYD0116	CD50227
Phenanthrene	**0.279** (0.026)		8270D		1	04/08/15 20:43	CYD0116	CD50227
Pyrene	**0.564** (0.026)		8270D		1	04/08/15 20:43	CYD0116	CD50227

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*46 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*70 %*		*30-130*
Surrogate: Nitrobenzene-d5	*52 %*		*30-130*
Surrogate: p-Terphenyl-d14	*86 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-221 0ft-0.5ft
Date Sampled: 03/30/15 08:30
Percent Solids: 48
Initial Volume: 30.3
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1503558
ESS Laboratory Sample ID: 1503558-07
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 4/2/15 13:31

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (25.9)		MADEP-EPH		1	JXS	04/04/15 22:06	CYD0058	CD50135
C19-C36 Aliphatics1	**110** (25.9)		MADEP-EPH		1	JXS	04/04/15 22:06	CYD0058	CD50135
C11-C22 Unadjusted Aromatics1	**192** (25.9)		EPH8270		1	JXS	04/04/15 4:29	CYD0054	CD50135
C11-C22 Aromatics1,2	**133** (25.9)		EPH8270			DPS	04/06/15 18:17		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*61 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*97 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*92 %*		*40-140*
Surrogate: O-Terphenyl	*82 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-221 4ft-6ft
Date Sampled: 03/30/15 08:30
Percent Solids: 68
Initial Volume: 20
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503558
ESS Laboratory Sample ID: 1503558-08
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 4/2/15 17:09

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	ND (0.018)		8270D		1	04/08/15 21:32	CYD0116	CD50227
Acenaphthene	ND (0.018)		8270D		1	04/08/15 21:32	CYD0116	CD50227
Acenaphthylene	ND (0.018)		8270D		1	04/08/15 21:32	CYD0116	CD50227
Anthracene	ND (0.018)		8270D		1	04/08/15 21:32	CYD0116	CD50227
Benzo(a)anthracene	ND (0.018)		8270D		1	04/08/15 21:32	CYD0116	CD50227
Benzo(a)pyrene	ND (0.018)		8270D		1	04/08/15 21:32	CYD0116	CD50227
Benzo(b)fluoranthene	ND (0.018)		8270D		1	04/08/15 21:32	CYD0116	CD50227
Benzo(g,h,i)perylene	ND (0.018)		8270D		1	04/08/15 21:32	CYD0116	CD50227
Benzo(k)fluoranthene	ND (0.018)		8270D		1	04/08/15 21:32	CYD0116	CD50227
Chrysene	ND (0.018)		8270D		1	04/08/15 21:32	CYD0116	CD50227
Dibenzo(a,h)Anthracene	ND (0.018)		8270D		1	04/08/15 21:32	CYD0116	CD50227
Fluoranthene	ND (0.018)		8270D		1	04/08/15 21:32	CYD0116	CD50227
Fluorene	ND (0.018)		8270D		1	04/08/15 21:32	CYD0116	CD50227
Hexachlorobenzene	ND (0.018)		8270D		1	04/08/15 21:32	CYD0116	CD50227
Indeno(1,2,3-cd)Pyrene	ND (0.018)		8270D		1	04/08/15 21:32	CYD0116	CD50227
Naphthalene	ND (0.018)		8270D		1	04/08/15 21:32	CYD0116	CD50227
Phenanthrene	ND (0.018)		8270D		1	04/08/15 21:32	CYD0116	CD50227
Pyrene	ND (0.018)		8270D		1	04/08/15 21:32	CYD0116	CD50227

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*68 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*86 %*		*30-130*
Surrogate: Nitrobenzene-d5	*73 %*		*30-130*
Surrogate: p-Terphenyl-d14	*95 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-221 0ft-3ft
Date Sampled: 03/30/15 08:30
Percent Solids: 62
Initial Volume: 8.6
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1503558
ESS Laboratory Sample ID: 1503558-09
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.0047)		8260B Low		1	04/02/15 13:35	CYD0025	CD50239
1,1,1-Trichloroethane	ND (0.0047)		8260B Low		1	04/02/15 13:35	CYD0025	CD50239
1,1,2,2-Tetrachloroethane	ND (0.0019)		8260B Low		1	04/02/15 13:35	CYD0025	CD50239
1,1,2-Trichloroethane	ND (0.0047)		8260B Low		1	04/02/15 13:35	CYD0025	CD50239
1,1-Dichloroethane	ND (0.0047)		8260B Low		1	04/02/15 13:35	CYD0025	CD50239
1,1-Dichloroethene	ND (0.0047)		8260B Low		1	04/02/15 13:35	CYD0025	CD50239
1,1-Dichloropropene	ND (0.0047)		8260B Low		1	04/02/15 13:35	CYD0025	CD50239
1,2,3-Trichlorobenzene	ND (0.0047)		8260B Low		1	04/02/15 13:35	CYD0025	CD50239
1,2,3-Trichloropropane	ND (0.0047)		8260B Low		1	04/02/15 13:35	CYD0025	CD50239
1,2,4-Trichlorobenzene	ND (0.0047)		8260B Low		1	04/02/15 13:35	CYD0025	CD50239
1,2,4-Trimethylbenzene	ND (0.0047)		8260B Low		1	04/02/15 13:35	CYD0025	CD50239
1,2-Dibromo-3-Chloropropane	ND (0.0047)		8260B Low		1	04/02/15 13:35	CYD0025	CD50239
1,2-Dibromoethane	ND (0.0047)		8260B Low		1	04/02/15 13:35	CYD0025	CD50239
1,2-Dichlorobenzene	ND (0.0047)		8260B Low		1	04/02/15 13:35	CYD0025	CD50239
1,2-Dichloroethane	ND (0.0047)		8260B Low		1	04/02/15 13:35	CYD0025	CD50239
1,2-Dichloropropane	ND (0.0047)		8260B Low		1	04/02/15 13:35	CYD0025	CD50239
1,3,5-Trimethylbenzene	ND (0.0047)		8260B Low		1	04/02/15 13:35	CYD0025	CD50239
1,3-Dichlorobenzene	ND (0.0047)		8260B Low		1	04/02/15 13:35	CYD0025	CD50239
1,3-Dichloropropane	ND (0.0047)		8260B Low		1	04/02/15 13:35	CYD0025	CD50239
1,4-Dichlorobenzene	ND (0.0047)		8260B Low		1	04/02/15 13:35	CYD0025	CD50239
1,4-Dioxane	ND (0.0939)		8260B Low		1	04/02/15 13:35	CYD0025	CD50239
2,2-Dichloropropane	ND (0.0047)		8260B Low		1	04/02/15 13:35	CYD0025	CD50239
2-Butanone	**0.0095** (0.0094)		8260B Low		1	04/02/15 13:35	CYD0025	CD50239
2-Chlorotoluene	ND (0.0047)		8260B Low		1	04/02/15 13:35	CYD0025	CD50239
2-Hexanone	ND (0.0094)		8260B Low		1	04/02/15 13:35	CYD0025	CD50239
4-Chlorotoluene	ND (0.0047)		8260B Low		1	04/02/15 13:35	CYD0025	CD50239
4-Isopropyltoluene	ND (0.0047)		8260B Low		1	04/02/15 13:35	CYD0025	CD50239
4-Methyl-2-Pentanone	ND (0.0094)		8260B Low		1	04/02/15 13:35	CYD0025	CD50239
Acetone	**0.0742** (0.0094)		8260B Low		1	04/02/15 13:35	CYD0025	CD50239
Benzene	ND (0.0047)		8260B Low		1	04/02/15 13:35	CYD0025	CD50239
Bromobenzene	ND (0.0047)		8260B Low		1	04/02/15 13:35	CYD0025	CD50239

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-221 0ft-3ft
Date Sampled: 03/30/15 08:30
Percent Solids: 62
Initial Volume: 8.6
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1503558
ESS Laboratory Sample ID: 1503558-09
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Bromochloromethane	ND (0.0047)		8260B Low		1	04/02/15 13:35	CYD0025	CD50239
Bromodichloromethane	ND (0.0047)		8260B Low		1	04/02/15 13:35	CYD0025	CD50239
Bromoform	ND (0.0047)		8260B Low		1	04/02/15 13:35	CYD0025	CD50239
Bromomethane	ND (0.0094)		8260B Low		1	04/02/15 13:35	CYD0025	CD50239
Carbon Disulfide	**0.0083** (0.0047)		8260B Low		1	04/02/15 13:35	CYD0025	CD50239
Carbon Tetrachloride	ND (0.0047)		8260B Low		1	04/02/15 13:35	CYD0025	CD50239
Chlorobenzene	ND (0.0047)		8260B Low		1	04/02/15 13:35	CYD0025	CD50239
Chloroethane	ND (0.0094)		8260B Low		1	04/02/15 13:35	CYD0025	CD50239
Chloroform	ND (0.0047)		8260B Low		1	04/02/15 13:35	CYD0025	CD50239
Chloromethane	ND (0.0094)		8260B Low		1	04/02/15 13:35	CYD0025	CD50239
cis-1,2-Dichloroethene	ND (0.0047)		8260B Low		1	04/02/15 13:35	CYD0025	CD50239
cis-1,3-Dichloropropene	ND (0.0047)		8260B Low		1	04/02/15 13:35	CYD0025	CD50239
Dibromochloromethane	ND (0.0019)		8260B Low		1	04/02/15 13:35	CYD0025	CD50239
Dibromomethane	ND (0.0047)		8260B Low		1	04/02/15 13:35	CYD0025	CD50239
Dichlorodifluoromethane	ND (0.0094)		8260B Low		1	04/02/15 13:35	CYD0025	CD50239
Diethyl Ether	ND (0.0047)		8260B Low		1	04/02/15 13:35	CYD0025	CD50239
Di-isopropyl ether	ND (0.0047)		8260B Low		1	04/02/15 13:35	CYD0025	CD50239
Ethyl tertiary-butyl ether	ND (0.0047)		8260B Low		1	04/02/15 13:35	CYD0025	CD50239
Ethylbenzene	ND (0.0047)		8260B Low		1	04/02/15 13:35	CYD0025	CD50239
Hexachlorobutadiene	ND (0.0047)		8260B Low		1	04/02/15 13:35	CYD0025	CD50239
Isopropylbenzene	ND (0.0047)		8260B Low		1	04/02/15 13:35	CYD0025	CD50239
Methyl tert-Butyl Ether	ND (0.0047)		8260B Low		1	04/02/15 13:35	CYD0025	CD50239
Methylene Chloride	ND (0.0094)		8260B Low		1	04/02/15 13:35	CYD0025	CD50239
Naphthalene	ND (0.0047)		8260B Low		1	04/02/15 13:35	CYD0025	CD50239
n-Butylbenzene	ND (0.0047)		8260B Low		1	04/02/15 13:35	CYD0025	CD50239
n-Propylbenzene	ND (0.0047)		8260B Low		1	04/02/15 13:35	CYD0025	CD50239
sec-Butylbenzene	ND (0.0047)		8260B Low		1	04/02/15 13:35	CYD0025	CD50239
Styrene	ND (0.0047)		8260B Low		1	04/02/15 13:35	CYD0025	CD50239
tert-Butylbenzene	ND (0.0047)		8260B Low		1	04/02/15 13:35	CYD0025	CD50239
Tertiary-amyl methyl ether	ND (0.0047)		8260B Low		1	04/02/15 13:35	CYD0025	CD50239
Tetrachloroethene	ND (0.0047)		8260B Low		1	04/02/15 13:35	CYD0025	CD50239

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-221 0ft-3ft
Date Sampled: 03/30/15 08:30
Percent Solids: 62
Initial Volume: 8.6
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1503558
ESS Laboratory Sample ID: 1503558-09
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Tetrahydrofuran	ND (0.0047)		8260B Low		1	04/02/15 13:35	CYD0025	CD50239
Toluene	ND (0.0047)		8260B Low		1	04/02/15 13:35	CYD0025	CD50239
trans-1,2-Dichloroethene	ND (0.0047)		8260B Low		1	04/02/15 13:35	CYD0025	CD50239
trans-1,3-Dichloropropene	ND (0.0047)		8260B Low		1	04/02/15 13:35	CYD0025	CD50239
Trichloroethene	ND (0.0047)		8260B Low		1	04/02/15 13:35	CYD0025	CD50239
Trichlorofluoromethane	ND (0.0047)		8260B Low		1	04/02/15 13:35	CYD0025	CD50239
Vinyl Chloride	ND (0.0094)		8260B Low		1	04/02/15 13:35	CYD0025	CD50239
Xylene O	ND (0.0047)		8260B Low		1	04/02/15 13:35	CYD0025	CD50239
Xylene P,M	ND (0.0094)		8260B Low		1	04/02/15 13:35	CYD0025	CD50239
Xylenes (Total)	ND (0.0094)		8260B Low		1	04/02/15 13:35		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*92 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*98 %*		*70-130*
Surrogate: Dibromofluoromethane	*90 %*		*70-130*
Surrogate: Toluene-d8	*92 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-221 0ft-3ft
Date Sampled: 03/30/15 08:30
Percent Solids: 62
Initial Volume: 30.2
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503558
ESS Laboratory Sample ID: 1503558-09
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 4/2/15 15:23

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.267)		8270D		1	04/06/15 23:19	CYD0082	CD50739
1,2-Dichlorobenzene	ND (0.267)		8270D		1	04/06/15 23:19	CYD0082	CD50739
1,3-Dichlorobenzene	ND (0.267)		8270D		1	04/06/15 23:19	CYD0082	CD50739
1,4-Dichlorobenzene	ND (0.267)		8270D		1	04/06/15 23:19	CYD0082	CD50739
2,4,5-Trichlorophenol	ND (0.267)		8270D		1	04/06/15 23:19	CYD0082	CD50739
2,4,6-Trichlorophenol	ND (0.267)		8270D		1	04/06/15 23:19	CYD0082	CD50739
2,4-Dichlorophenol	ND (0.267)		8270D		1	04/06/15 23:19	CYD0082	CD50739
2,4-Dimethylphenol	ND (0.267)		8270D		1	04/06/15 23:19	CYD0082	CD50739
2,4-Dinitrophenol	ND (1.34)		8270D		1	04/06/15 23:19	CYD0082	CD50739
2,4-Dinitrotoluene	ND (0.267)		8270D		1	04/06/15 23:19	CYD0082	CD50739
2,6-Dinitrotoluene	ND (0.267)		8270D		1	04/06/15 23:19	CYD0082	CD50739
2-Chloronaphthalene	ND (0.267)		8270D		1	04/06/15 23:19	CYD0082	CD50739
2-Chlorophenol	ND (0.267)		8270D		1	04/06/15 23:19	CYD0082	CD50739
2-Methylphenol	ND (0.267)		8270D		1	04/06/15 23:19	CYD0082	CD50739
2-Nitrophenol	ND (0.267)		8270D		1	04/06/15 23:19	CYD0082	CD50739
3,3´-Dichlorobenzidine	ND (0.535)		8270D		1	04/06/15 23:19	CYD0082	CD50739
3+4-Methylphenol	ND (0.535)		8270D		1	04/06/15 23:19	CYD0082	CD50739
4-Bromophenyl-phenylether	ND (0.267)		8270D		1	04/06/15 23:19	CYD0082	CD50739
4-Chloroaniline	ND (0.535)		8270D		1	04/06/15 23:19	CYD0082	CD50739
4-Nitrophenol	ND (1.34)		8270D		1	04/06/15 23:19	CYD0082	CD50739
Acetophenone	ND (0.535)		8270D		1	04/06/15 23:19	CYD0082	CD50739
Aniline	ND (1.34)		8270D		1	04/06/15 23:19	CYD0082	CD50739
Azobenzene	ND (0.267)		8270D		1	04/06/15 23:19	CYD0082	CD50739
bis(2-Chloroethoxy)methane	ND (0.267)		8270D		1	04/06/15 23:19	CYD0082	CD50739
bis(2-Chloroethyl)ether	ND (0.267)		8270D		1	04/06/15 23:19	CYD0082	CD50739
bis(2-chloroisopropyl)Ether	ND (0.267)		8270D		1	04/06/15 23:19	CYD0082	CD50739
bis(2-Ethylhexyl)phthalate	ND (0.267)		8270D		1	04/06/15 23:19	CYD0082	CD50739
Butylbenzylphthalate	ND (0.267)		8270D		1	04/06/15 23:19	CYD0082	CD50739
Dibenzofuran	ND (0.267)		8270D		1	04/06/15 23:19	CYD0082	CD50739
Diethylphthalate	ND (0.267)		8270D		1	04/06/15 23:19	CYD0082	CD50739
Dimethylphthalate	ND (0.267)		8270D		1	04/06/15 23:19	CYD0082	CD50739

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-221 0ft-3ft
Date Sampled: 03/30/15 08:30
Percent Solids: 62
Initial Volume: 30.2
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503558
ESS Laboratory Sample ID: 1503558-09
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 4/2/15 15:23

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Di-n-butylphthalate	ND (0.267)		8270D		1	04/06/15 23:19	CYD0082	CD50739
Di-n-octylphthalate	ND (0.267)		8270D		1	04/06/15 23:19	CYD0082	CD50739
Hexachlorobutadiene	ND (0.267)		8270D		1	04/06/15 23:19	CYD0082	CD50739
Hexachloroethane	ND (0.267)		8270D		1	04/06/15 23:19	CYD0082	CD50739
Isophorone	ND (0.267)		8270D		1	04/06/15 23:19	CYD0082	CD50739
Nitrobenzene	ND (0.267)		8270D		1	04/06/15 23:19	CYD0082	CD50739
N-Nitrosodimethylamine	ND (0.267)		8270D		1	04/06/15 23:19	CYD0082	CD50739
Pentachlorophenol	ND (1.34)		8270D		1	04/06/15 23:19	CYD0082	CD50739
Phenol	ND (0.267)		8270D		1	04/06/15 23:19	CYD0082	CD50739

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*49 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*76 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*55 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*67 %*		*30-130*
Surrogate: 2-Fluorophenol	*49 %*		*30-130*
Surrogate: Nitrobenzene-d5	*53 %*		*30-130*
Surrogate: Phenol-d6	*59 %*		*30-130*
Surrogate: p-Terphenyl-d14	*66 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-221 0ft-3ft
Date Sampled: 03/30/15 08:30
Percent Solids: 62

ESS Laboratory Work Order: 1503558
ESS Laboratory Sample ID: 1503558-09
Sample Matrix: Soil

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Corrosivity (pH)	**H 8.41** (N/A)		9045		1	JLK	04/01/15 11:12	S.U.	CD50119
Corrosivity (pH) Sample Temp	**Soil pH measured in water at 14.2 ºC.**								
Eh (ORP)	**H, WL 311** (N/A)		2580		1	JLK	04/01/15 11:12	mv	CD50120
Grain Size	**See Attached** (N/A)								
Hexavalent Chromium	ND (0.6)		7196A		1	EEM	04/06/15 14:20	mg/kg dry	CD50609
Percent Water	**See Attached** (N/A)								
Reactive Cyanide	ND (2.0)		7.3.3.2		1	JLK	04/01/15 11:34	mg/kg	CD50128
Reactive Sulfide	ND (2.0)		7.3.4.1		1	JLK	04/01/15 11:34	mg/kg	CD50128

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-221 0ft-3ft
Date Sampled: 03/30/15 08:30
Percent Solids: 62
Initial Volume: 30.2
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1503558
ESS Laboratory Sample ID: 1503558-09
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 4/2/15 13:31

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	**23.8** (20.1)		MADEP-EPH		1	JXS	04/04/15 22:56	CYD0058	CD50135
C19-C36 Aliphatics1	**84.3** (20.1)		MADEP-EPH		1	JXS	04/04/15 22:56	CYD0058	CD50135
C11-C22 Unadjusted Aromatics1	**142** (20.1)		EPH8270		1	JXS	04/04/15 5:05	CYD0054	CD50135
C11-C22 Aromatics1,2	**130** (20.1)		EPH8270			JXS	04/04/15 5:05		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*64 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*87 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*79 %*		*40-140*
Surrogate: O-Terphenyl	*77 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-222 0ft-0.5ft
Date Sampled: 03/30/15 09:05
Percent Solids: 55
Initial Volume: 30.1
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503558
ESS Laboratory Sample ID: 1503558-10
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 4/2/15 15:23

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.302)		8270D		1	04/06/15 23:54	CYD0082	CD50739
1,2-Dichlorobenzene	ND (0.302)		8270D		1	04/06/15 23:54	CYD0082	CD50739
1,3-Dichlorobenzene	ND (0.302)		8270D		1	04/06/15 23:54	CYD0082	CD50739
1,4-Dichlorobenzene	ND (0.302)		8270D		1	04/06/15 23:54	CYD0082	CD50739
2,4,5-Trichlorophenol	ND (0.302)		8270D		1	04/06/15 23:54	CYD0082	CD50739
2,4,6-Trichlorophenol	ND (0.302)		8270D		1	04/06/15 23:54	CYD0082	CD50739
2,4-Dichlorophenol	ND (0.302)		8270D		1	04/06/15 23:54	CYD0082	CD50739
2,4-Dimethylphenol	ND (0.302)		8270D		1	04/06/15 23:54	CYD0082	CD50739
2,4-Dinitrophenol	ND (1.52)		8270D		1	04/06/15 23:54	CYD0082	CD50739
2,4-Dinitrotoluene	ND (0.302)		8270D		1	04/06/15 23:54	CYD0082	CD50739
2,6-Dinitrotoluene	ND (0.302)		8270D		1	04/06/15 23:54	CYD0082	CD50739
2-Chloronaphthalene	ND (0.302)		8270D		1	04/06/15 23:54	CYD0082	CD50739
2-Chlorophenol	ND (0.302)		8270D		1	04/06/15 23:54	CYD0082	CD50739
2-Methylphenol	ND (0.302)		8270D		1	04/06/15 23:54	CYD0082	CD50739
2-Nitrophenol	ND (0.302)		8270D		1	04/06/15 23:54	CYD0082	CD50739
3,3´-Dichlorobenzidine	ND (0.606)		8270D		1	04/06/15 23:54	CYD0082	CD50739
3+4-Methylphenol	ND (0.606)		8270D		1	04/06/15 23:54	CYD0082	CD50739
4-Bromophenyl-phenylether	ND (0.302)		8270D		1	04/06/15 23:54	CYD0082	CD50739
4-Chloroaniline	ND (0.606)		8270D		1	04/06/15 23:54	CYD0082	CD50739
4-Nitrophenol	ND (1.52)		8270D		1	04/06/15 23:54	CYD0082	CD50739
Acetophenone	ND (0.606)		8270D		1	04/06/15 23:54	CYD0082	CD50739
Aniline	ND (1.52)		8270D		1	04/06/15 23:54	CYD0082	CD50739
Azobenzene	ND (0.302)		8270D		1	04/06/15 23:54	CYD0082	CD50739
bis(2-Chloroethoxy)methane	ND (0.302)		8270D		1	04/06/15 23:54	CYD0082	CD50739
bis(2-Chloroethyl)ether	ND (0.302)		8270D		1	04/06/15 23:54	CYD0082	CD50739
bis(2-chloroisopropyl)Ether	ND (0.302)		8270D		1	04/06/15 23:54	CYD0082	CD50739
bis(2-Ethylhexyl)phthalate	**1.33** (0.302)		8270D		1	04/06/15 23:54	CYD0082	CD50739
Butylbenzylphthalate	ND (0.302)		8270D		1	04/06/15 23:54	CYD0082	CD50739
Dibenzofuran	ND (0.302)		8270D		1	04/06/15 23:54	CYD0082	CD50739
Diethylphthalate	ND (0.302)		8270D		1	04/06/15 23:54	CYD0082	CD50739
Dimethylphthalate	ND (0.302)		8270D		1	04/06/15 23:54	CYD0082	CD50739

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-222 0ft-0.5ft
Date Sampled: 03/30/15 09:05
Percent Solids: 55
Initial Volume: 30.1
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503558
ESS Laboratory Sample ID: 1503558-10
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 4/2/15 15:23

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Di-n-butylphthalate	ND (0.302)		8270D		1	04/06/15 23:54	CYD0082	CD50739
Di-n-octylphthalate	ND (0.302)		8270D		1	04/06/15 23:54	CYD0082	CD50739
Hexachlorobutadiene	ND (0.302)		8270D		1	04/06/15 23:54	CYD0082	CD50739
Hexachloroethane	ND (0.302)		8270D		1	04/06/15 23:54	CYD0082	CD50739
Isophorone	ND (0.302)		8270D		1	04/06/15 23:54	CYD0082	CD50739
Nitrobenzene	ND (0.302)		8270D		1	04/06/15 23:54	CYD0082	CD50739
N-Nitrosodimethylamine	ND (0.302)		8270D		1	04/06/15 23:54	CYD0082	CD50739
Pentachlorophenol	ND (1.52)		8270D		1	04/06/15 23:54	CYD0082	CD50739
Phenol	ND (0.302)		8270D		1	04/06/15 23:54	CYD0082	CD50739

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*48 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*82 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*52 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*53 %*		*30-130*
Surrogate: 2-Fluorophenol	*49 %*		*30-130*
Surrogate: Nitrobenzene-d5	*49 %*		*30-130*
Surrogate: Phenol-d6	*55 %*		*30-130*
Surrogate: p-Terphenyl-d14	*73 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-222 0ft-0.5ft
Date Sampled: 03/30/15 09:05
Percent Solids: 55
Initial Volume: 20.3
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503558
ESS Laboratory Sample ID: 1503558-10
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 4/2/15 17:09

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	**0.025** (0.022)		8270D		1	04/10/15 13:00	CYD0151	CD50227
Acenaphthene	**0.026** (0.022)		8270D		1	04/10/15 13:00	CYD0151	CD50227
Acenaphthylene	**0.104** (0.022)		8270D		1	04/10/15 13:00	CYD0151	CD50227
Anthracene	**0.142** (0.022)		8270D		1	04/10/15 13:00	CYD0151	CD50227
Benzo(a)anthracene	**0.347** (0.022)		8270D		1	04/10/15 13:00	CYD0151	CD50227
Benzo(a)pyrene	**0.450** (0.022)		8270D		1	04/10/15 13:00	CYD0151	CD50227
Benzo(b)fluoranthene	**0.673** (0.022)		8270D		1	04/10/15 13:00	CYD0151	CD50227
Benzo(g,h,i)perylene	**0.216** (0.022)		8270D		1	04/10/15 13:00	CYD0151	CD50227
Benzo(k)fluoranthene	**0.174** (0.022)		8270D		1	04/10/15 13:00	CYD0151	CD50227
Chrysene	**0.439** (0.022)		8270D		1	04/10/15 13:00	CYD0151	CD50227
Dibenzo(a,h)Anthracene	**0.063** (0.022)		8270D		1	04/10/15 13:00	CYD0151	CD50227
Fluoranthene	**0.652** (0.022)		8270D		1	04/10/15 13:00	CYD0151	CD50227
Fluorene	**0.045** (0.022)		8270D		1	04/10/15 13:00	CYD0151	CD50227
Hexachlorobenzene	ND (0.022)		8270D		1	04/10/15 13:00	CYD0151	CD50227
Indeno(1,2,3-cd)Pyrene	**0.270** (0.022)		8270D		1	04/10/15 13:00	CYD0151	CD50227
Naphthalene	**0.082** (0.022)		8270D		1	04/10/15 13:00	CYD0151	CD50227
Phenanthrene	**0.299** (0.022)		8270D		1	04/10/15 13:00	CYD0151	CD50227
Pyrene	**0.609** (0.022)		8270D		1	04/10/15 13:00	CYD0151	CD50227

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1,2-Dichlorobenzene-d4	*34 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*59 %*		*30-130*
Surrogate: Nitrobenzene-d5	*33 %*		*30-130*
Surrogate: p-Terphenyl-d14	*76 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-222 0ft-0.5ft
Date Sampled: 03/30/15 09:05
Percent Solids: 55
Initial Volume: 30.8
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1503558
ESS Laboratory Sample ID: 1503558-10
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 4/2/15 13:31

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (22.2)		MADEP-EPH		1	JXS	04/04/15 23:46	CYD0058	CD50135
C19-C36 Aliphatics1	**77.9** (22.2)		MADEP-EPH		1	JXS	04/04/15 23:46	CYD0058	CD50135
C11-C22 Unadjusted Aromatics1	**67.8** (22.2)		EPH8270		1	JXS	04/04/15 5:42	CYD0054	CD50135
C11-C22 Aromatics1,2	**65.5** (22.2)		EPH8270			JXS	04/04/15 5:42		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*62 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*89 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*78 %*		*40-140*
Surrogate: O-Terphenyl	*83 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-222 0.5ft-2ft
Date Sampled: 03/30/15 09:05
Percent Solids: 65
Initial Volume: 20.4
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503558
ESS Laboratory Sample ID: 1503558-11
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 4/2/15 17:09

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	**0.029** (0.019)		8270D		1	04/10/15 12:11	CYD0151	CD50227
Acenaphthene	**0.021** (0.019)		8270D		1	04/10/15 12:11	CYD0151	CD50227
Acenaphthylene	**0.198** (0.019)		8270D		1	04/10/15 12:11	CYD0151	CD50227
Anthracene	**0.250** (0.019)		8270D		1	04/10/15 12:11	CYD0151	CD50227
Benzo(a)anthracene	**0.425** (0.019)		8270D		1	04/10/15 12:11	CYD0151	CD50227
Benzo(a)pyrene	**0.452** (0.019)		8270D		1	04/10/15 12:11	CYD0151	CD50227
Benzo(b)fluoranthene	**0.527** (0.019)		8270D		1	04/10/15 12:11	CYD0151	CD50227
Benzo(g,h,i)perylene	**0.164** (0.019)		8270D		1	04/10/15 12:11	CYD0151	CD50227
Benzo(k)fluoranthene	**0.171** (0.019)		8270D		1	04/10/15 12:11	CYD0151	CD50227
Chrysene	**0.518** (0.019)		8270D		1	04/10/15 12:11	CYD0151	CD50227
Dibenzo(a,h)Anthracene	**0.067** (0.019)		8270D		1	04/10/15 12:11	CYD0151	CD50227
Fluoranthene	**0.914** (0.019)		8270D		1	04/10/15 12:11	CYD0151	CD50227
Fluorene	**0.049** (0.019)		8270D		1	04/10/15 12:11	CYD0151	CD50227
Hexachlorobenzene	ND (0.019)		8270D		1	04/10/15 12:11	CYD0151	CD50227
Indeno(1,2,3-cd)Pyrene	**0.216** (0.019)		8270D		1	04/10/15 12:11	CYD0151	CD50227
Naphthalene	**0.086** (0.019)		8270D		1	04/10/15 12:11	CYD0151	CD50227
Phenanthrene	**0.161** (0.019)		8270D		1	04/10/15 12:11	CYD0151	CD50227
Pyrene	**0.810** (0.019)		8270D		1	04/10/15 12:11	CYD0151	CD50227

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*55 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*78 %*		*30-130*
Surrogate: Nitrobenzene-d5	*50 %*		*30-130*
Surrogate: p-Terphenyl-d14	*78 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-222 2ft-4ft
Date Sampled: 03/30/15 09:05
Percent Solids: 68
Initial Volume: 20.1
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503558
ESS Laboratory Sample ID: 1503558-12
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 4/2/15 17:09

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	ND (0.018)		8270D		1	04/09/15 0:41	CYD0127	CD50227
Acenaphthene	ND (0.018)		8270D		1	04/09/15 0:41	CYD0127	CD50227
Acenaphthylene	**0.319** (0.018)		8270D		1	04/09/15 0:41	CYD0127	CD50227
Anthracene	**0.351** (0.018)		8270D		1	04/09/15 0:41	CYD0127	CD50227
Benzo(a)anthracene	**0.725** (0.018)		8270D		1	04/09/15 0:41	CYD0127	CD50227
Benzo(a)pyrene	**0.596** (0.018)		8270D		1	04/09/15 0:41	CYD0127	CD50227
Benzo(b)fluoranthene	**0.519** (0.018)		8270D		1	04/09/15 0:41	CYD0127	CD50227
Benzo(g,h,i)perylene	**0.279** (0.018)		8270D		1	04/09/15 0:41	CYD0127	CD50227
Benzo(k)fluoranthene	**0.134** (0.018)		8270D		1	04/09/15 0:41	CYD0127	CD50227
Chrysene	**0.763** (0.018)		8270D		1	04/09/15 0:41	CYD0127	CD50227
Dibenzo(a,h)Anthracene	**0.086** (0.018)		8270D		1	04/09/15 0:41	CYD0127	CD50227
Fluoranthene	**0.949** (0.018)		8270D		1	04/09/15 0:41	CYD0127	CD50227
Fluorene	**0.043** (0.018)		8270D		1	04/09/15 0:41	CYD0127	CD50227
Hexachlorobenzene	ND (0.018)		8270D		1	04/09/15 0:41	CYD0127	CD50227
Indeno(1,2,3-cd)Pyrene	**0.271** (0.018)		8270D		1	04/09/15 0:41	CYD0127	CD50227
Naphthalene	**0.028** (0.018)		8270D		1	04/09/15 0:41	CYD0127	CD50227
Phenanthrene	**0.150** (0.018)		8270D		1	04/09/15 0:41	CYD0127	CD50227
Pyrene	**1.32** (0.018)		8270D		1	04/09/15 0:41	CYD0127	CD50227

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*65 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*82 %*		*30-130*
Surrogate: Nitrobenzene-d5	*70 %*		*30-130*
Surrogate: p-Terphenyl-d14	*95 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-223 0ft-0.5ft
Date Sampled: 03/30/15 09:18
Percent Solids: 52
Initial Volume: 30.1
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503558
ESS Laboratory Sample ID: 1503558-13
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 4/2/15 15:23

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.322)		8270D		1	04/07/15 0:30	CYD0082	CD50739
1,2-Dichlorobenzene	ND (0.322)		8270D		1	04/07/15 0:30	CYD0082	CD50739
1,3-Dichlorobenzene	ND (0.322)		8270D		1	04/07/15 0:30	CYD0082	CD50739
1,4-Dichlorobenzene	ND (0.322)		8270D		1	04/07/15 0:30	CYD0082	CD50739
2,4,5-Trichlorophenol	ND (0.322)		8270D		1	04/07/15 0:30	CYD0082	CD50739
2,4,6-Trichlorophenol	ND (0.322)		8270D		1	04/07/15 0:30	CYD0082	CD50739
2,4-Dichlorophenol	ND (0.322)		8270D		1	04/07/15 0:30	CYD0082	CD50739
2,4-Dimethylphenol	ND (0.322)		8270D		1	04/07/15 0:30	CYD0082	CD50739
2,4-Dinitrophenol	ND (1.61)		8270D		1	04/07/15 0:30	CYD0082	CD50739
2,4-Dinitrotoluene	ND (0.322)		8270D		1	04/07/15 0:30	CYD0082	CD50739
2,6-Dinitrotoluene	ND (0.322)		8270D		1	04/07/15 0:30	CYD0082	CD50739
2-Chloronaphthalene	ND (0.322)		8270D		1	04/07/15 0:30	CYD0082	CD50739
2-Chlorophenol	ND (0.322)		8270D		1	04/07/15 0:30	CYD0082	CD50739
2-Methylphenol	ND (0.322)		8270D		1	04/07/15 0:30	CYD0082	CD50739
2-Nitrophenol	ND (0.322)		8270D		1	04/07/15 0:30	CYD0082	CD50739
3,3´-Dichlorobenzidine	ND (0.645)		8270D		1	04/07/15 0:30	CYD0082	CD50739
3+4-Methylphenol	ND (0.645)		8270D		1	04/07/15 0:30	CYD0082	CD50739
4-Bromophenyl-phenylether	ND (0.322)		8270D		1	04/07/15 0:30	CYD0082	CD50739
4-Chloroaniline	ND (0.645)		8270D		1	04/07/15 0:30	CYD0082	CD50739
4-Nitrophenol	ND (1.61)		8270D		1	04/07/15 0:30	CYD0082	CD50739
Acetophenone	ND (0.645)		8270D		1	04/07/15 0:30	CYD0082	CD50739
Aniline	ND (1.61)		8270D		1	04/07/15 0:30	CYD0082	CD50739
Azobenzene	ND (0.322)		8270D		1	04/07/15 0:30	CYD0082	CD50739
bis(2-Chloroethoxy)methane	ND (0.322)		8270D		1	04/07/15 0:30	CYD0082	CD50739
bis(2-Chloroethyl)ether	ND (0.322)		8270D		1	04/07/15 0:30	CYD0082	CD50739
bis(2-chloroisopropyl)Ether	ND (0.322)		8270D		1	04/07/15 0:30	CYD0082	CD50739
bis(2-Ethylhexyl)phthalate	**1.34** (0.322)		8270D		1	04/07/15 0:30	CYD0082	CD50739
Butylbenzylphthalate	ND (0.322)		8270D		1	04/07/15 0:30	CYD0082	CD50739
Dibenzofuran	ND (0.322)		8270D		1	04/07/15 0:30	CYD0082	CD50739
Diethylphthalate	ND (0.322)		8270D		1	04/07/15 0:30	CYD0082	CD50739
Dimethylphthalate	ND (0.322)		8270D		1	04/07/15 0:30	CYD0082	CD50739

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-223 0ft-0.5ft
Date Sampled: 03/30/15 09:18
Percent Solids: 52
Initial Volume: 30.1
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503558
ESS Laboratory Sample ID: 1503558-13
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 4/2/15 15:23

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Di-n-butylphthalate	ND (0.322)		8270D		1	04/07/15 0:30	CYD0082	CD50739
Di-n-octylphthalate	ND (0.322)		8270D		1	04/07/15 0:30	CYD0082	CD50739
Hexachlorobutadiene	ND (0.322)		8270D		1	04/07/15 0:30	CYD0082	CD50739
Hexachloroethane	ND (0.322)		8270D		1	04/07/15 0:30	CYD0082	CD50739
Isophorone	ND (0.322)		8270D		1	04/07/15 0:30	CYD0082	CD50739
Nitrobenzene	ND (0.322)		8270D		1	04/07/15 0:30	CYD0082	CD50739
N-Nitrosodimethylamine	ND (0.322)		8270D		1	04/07/15 0:30	CYD0082	CD50739
Pentachlorophenol	ND (1.61)		8270D		1	04/07/15 0:30	CYD0082	CD50739
Phenol	ND (0.322)		8270D		1	04/07/15 0:30	CYD0082	CD50739

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*46 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*77 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*49 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*55 %*		*30-130*
Surrogate: 2-Fluorophenol	*47 %*		*30-130*
Surrogate: Nitrobenzene-d5	*49 %*		*30-130*
Surrogate: Phenol-d6	*51 %*		*30-130*
Surrogate: p-Terphenyl-d14	*64 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-223 0ft-0.5ft
Date Sampled: 03/30/15 09:18
Percent Solids: 52
Initial Volume: 20.2
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503558
ESS Laboratory Sample ID: 1503558-13
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 4/2/15 17:09

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	**0.090** (0.024)		8270D		1	04/09/15 1:31	CYD0127	CD50227
Acenaphthene	**0.241** (0.024)		8270D		1	04/09/15 1:31	CYD0127	CD50227
Acenaphthylene	**0.183** (0.024)		8270D		1	04/09/15 1:31	CYD0127	CD50227
Anthracene	**0.557** (0.024)		8270D		1	04/09/15 1:31	CYD0127	CD50227
Benzo(a)anthracene	**1.09** (0.024)		8270D		1	04/09/15 1:31	CYD0127	CD50227
Benzo(a)pyrene	**1.25** (0.024)		8270D		1	04/09/15 1:31	CYD0127	CD50227
Benzo(b)fluoranthene	**1.84** (0.024)		8270D		1	04/09/15 1:31	CYD0127	CD50227
Benzo(g,h,i)perylene	**0.853** (0.024)		8270D		1	04/09/15 1:31	CYD0127	CD50227
Benzo(k)fluoranthene	**0.520** (0.024)		8270D		1	04/09/15 1:31	CYD0127	CD50227
Chrysene	**1.17** (0.024)		8270D		1	04/09/15 1:31	CYD0127	CD50227
Dibenzo(a,h)Anthracene	**0.239** (0.024)		8270D		1	04/09/15 1:31	CYD0127	CD50227
Fluoranthene	**2.21** (0.024)		8270D		1	04/09/15 1:31	CYD0127	CD50227
Fluorene	**0.316** (0.024)		8270D		1	04/09/15 1:31	CYD0127	CD50227
Hexachlorobenzene	ND (0.024)		8270D		1	04/09/15 1:31	CYD0127	CD50227
Indeno(1,2,3-cd)Pyrene	**1.03** (0.024)		8270D		1	04/09/15 1:31	CYD0127	CD50227
Naphthalene	**0.260** (0.024)		8270D		1	04/09/15 1:31	CYD0127	CD50227
Phenanthrene	**1.94** (0.024)		8270D		1	04/09/15 1:31	CYD0127	CD50227
Pyrene	**2.26** (0.024)		8270D		1	04/09/15 1:31	CYD0127	CD50227

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*52 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*74 %*		*30-130*
Surrogate: Nitrobenzene-d5	*60 %*		*30-130*
Surrogate: p-Terphenyl-d14	*103 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-223 0ft-0.5ft
Date Sampled: 03/30/15 09:18
Percent Solids: 52
Initial Volume: 30.3
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1503558
ESS Laboratory Sample ID: 1503558-13
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 4/2/15 13:31

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (24.0)		MADEP-EPH		1	JXS	04/05/15 0:37	CYD0058	CD50135
C19-C36 Aliphatics1	**68.3** (24.0)		MADEP-EPH		1	JXS	04/05/15 0:37	CYD0058	CD50135
C11-C22 Unadjusted Aromatics1	**58.1** (24.0)		EPH8270		1	JXS	04/04/15 6:18	CYD0054	CD50135
C11-C22 Aromatics1,2	**56.7** (24.0)		EPH8270			JXS	04/04/15 6:18		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*62 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*95 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*88 %*		*40-140*
Surrogate: O-Terphenyl	*80 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-223 2ft-4ft
Date Sampled: 03/30/15 09:18
Percent Solids: 57
Initial Volume: 20.1
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503558
ESS Laboratory Sample ID: 1503558-14
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 4/2/15 17:09

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	**0.036** (0.022)		8270D		1	04/10/15 3:14	CYD0151	CD50227
Acenaphthene	**0.032** (0.022)		8270D		1	04/10/15 3:14	CYD0151	CD50227
Acenaphthylene	**0.677** (0.022)		8270D		1	04/10/15 3:14	CYD0151	CD50227
Anthracene	**0.516** (0.022)		8270D		1	04/10/15 3:14	CYD0151	CD50227
Benzo(a)anthracene	**1.58** (0.022)		8270D		1	04/10/15 3:14	CYD0151	CD50227
Benzo(a)pyrene	**1.32** (0.022)		8270D		1	04/10/15 3:14	CYD0151	CD50227
Benzo(b)fluoranthene	**1.52** (0.022)		8270D		1	04/10/15 3:14	CYD0151	CD50227
Benzo(g,h,i)perylene	**0.669** (0.022)		8270D		1	04/10/15 3:14	CYD0151	CD50227
Benzo(k)fluoranthene	**1.51** (0.022)		8270D		1	04/10/15 3:14	CYD0151	CD50227
Chrysene	**1.58** (0.022)		8270D		1	04/10/15 3:14	CYD0151	CD50227
Dibenzo(a,h)Anthracene	**0.247** (0.022)		8270D		1	04/10/15 3:14	CYD0151	CD50227
Fluoranthene	**2.12** (0.022)		8270D		1	04/10/15 3:14	CYD0151	CD50227
Fluorene	**0.098** (0.022)		8270D		1	04/10/15 3:14	CYD0151	CD50227
Hexachlorobenzene	ND (0.022)		8270D		1	04/10/15 3:14	CYD0151	CD50227
Indeno(1,2,3-cd)Pyrene	**0.677** (0.022)		8270D		1	04/10/15 3:14	CYD0151	CD50227
Naphthalene	**0.081** (0.022)		8270D		1	04/10/15 3:14	CYD0151	CD50227
Phenanthrene	**0.301** (0.022)		8270D		1	04/10/15 3:14	CYD0151	CD50227
Pyrene	**3.41** (0.108)		8270D		5	04/11/15 6:14	CYD0151	CD50227

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1,2-Dichlorobenzene-d4	*71 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*96 %*		*30-130*
Surrogate: Nitrobenzene-d5	*78 %*		*30-130*
Surrogate: p-Terphenyl-d14	*105 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-223 0ft-3ft
Date Sampled: 03/30/15 09:18
Percent Solids: 50
Initial Volume: 7.6
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1503558
ESS Laboratory Sample ID: 1503558-15
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.0066)		8260B Low		1	04/01/15 20:00	CYD0007	CD50146
1,1,1-Trichloroethane	ND (0.0066)		8260B Low		1	04/01/15 20:00	CYD0007	CD50146
1,1,2,2-Tetrachloroethane	ND (0.0026)		8260B Low		1	04/01/15 20:00	CYD0007	CD50146
1,1,2-Trichloroethane	ND (0.0066)		8260B Low		1	04/01/15 20:00	CYD0007	CD50146
1,1-Dichloroethane	ND (0.0066)		8260B Low		1	04/01/15 20:00	CYD0007	CD50146
1,1-Dichloroethene	ND (0.0066)		8260B Low		1	04/01/15 20:00	CYD0007	CD50146
1,1-Dichloropropene	ND (0.0066)		8260B Low		1	04/01/15 20:00	CYD0007	CD50146
1,2,3-Trichlorobenzene	ND (0.0066)		8260B Low		1	04/01/15 20:00	CYD0007	CD50146
1,2,3-Trichloropropane	ND (0.0066)		8260B Low		1	04/01/15 20:00	CYD0007	CD50146
1,2,4-Trichlorobenzene	ND (0.0066)		8260B Low		1	04/01/15 20:00	CYD0007	CD50146
1,2,4-Trimethylbenzene	ND (0.0066)		8260B Low		1	04/01/15 20:00	CYD0007	CD50146
1,2-Dibromo-3-Chloropropane	ND (0.0066)		8260B Low		1	04/01/15 20:00	CYD0007	CD50146
1,2-Dibromoethane	ND (0.0066)		8260B Low		1	04/01/15 20:00	CYD0007	CD50146
1,2-Dichlorobenzene	ND (0.0066)		8260B Low		1	04/01/15 20:00	CYD0007	CD50146
1,2-Dichloroethane	ND (0.0066)		8260B Low		1	04/01/15 20:00	CYD0007	CD50146
1,2-Dichloropropane	ND (0.0066)		8260B Low		1	04/01/15 20:00	CYD0007	CD50146
1,3,5-Trimethylbenzene	ND (0.0066)		8260B Low		1	04/01/15 20:00	CYD0007	CD50146
1,3-Dichlorobenzene	ND (0.0066)		8260B Low		1	04/01/15 20:00	CYD0007	CD50146
1,3-Dichloropropane	ND (0.0066)		8260B Low		1	04/01/15 20:00	CYD0007	CD50146
1,4-Dichlorobenzene	ND (0.0066)		8260B Low		1	04/01/15 20:00	CYD0007	CD50146
1,4-Dioxane	ND (0.132)		8260B Low		1	04/01/15 20:00	CYD0007	CD50146
2,2-Dichloropropane	ND (0.0066)		8260B Low		1	04/01/15 20:00	CYD0007	CD50146
2-Butanone	ND (0.0132)		8260B Low		1	04/01/15 20:00	CYD0007	CD50146
2-Chlorotoluene	ND (0.0066)		8260B Low		1	04/01/15 20:00	CYD0007	CD50146
2-Hexanone	ND (0.0132)		8260B Low		1	04/01/15 20:00	CYD0007	CD50146
4-Chlorotoluene	ND (0.0066)		8260B Low		1	04/01/15 20:00	CYD0007	CD50146
4-Isopropyltoluene	ND (0.0066)		8260B Low		1	04/01/15 20:00	CYD0007	CD50146
4-Methyl-2-Pentanone	ND (0.0132)		8260B Low		1	04/01/15 20:00	CYD0007	CD50146
Acetone	**0.0716** (0.0132)		8260B Low		1	04/01/15 20:00	CYD0007	CD50146
Benzene	ND (0.0066)		8260B Low		1	04/01/15 20:00	CYD0007	CD50146
Bromobenzene	ND (0.0066)		8260B Low		1	04/01/15 20:00	CYD0007	CD50146

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-223 0ft-3ft
Date Sampled: 03/30/15 09:18
Percent Solids: 50
Initial Volume: 7.6
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1503558
ESS Laboratory Sample ID: 1503558-15
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Bromochloromethane	ND (0.0066)		8260B Low		1	04/01/15 20:00	CYD0007	CD50146
Bromodichloromethane	ND (0.0066)		8260B Low		1	04/01/15 20:00	CYD0007	CD50146
Bromoform	ND (0.0066)		8260B Low		1	04/01/15 20:00	CYD0007	CD50146
Bromomethane	ND (0.0132)		8260B Low		1	04/01/15 20:00	CYD0007	CD50146
Carbon Disulfide	**0.0066** (0.0066)		8260B Low		1	04/01/15 20:00	CYD0007	CD50146
Carbon Tetrachloride	ND (0.0066)		8260B Low		1	04/01/15 20:00	CYD0007	CD50146
Chlorobenzene	ND (0.0066)		8260B Low		1	04/01/15 20:00	CYD0007	CD50146
Chloroethane	ND (0.0132)		8260B Low		1	04/01/15 20:00	CYD0007	CD50146
Chloroform	ND (0.0066)		8260B Low		1	04/01/15 20:00	CYD0007	CD50146
Chloromethane	ND (0.0132)		8260B Low		1	04/01/15 20:00	CYD0007	CD50146
cis-1,2-Dichloroethene	ND (0.0066)		8260B Low		1	04/01/15 20:00	CYD0007	CD50146
cis-1,3-Dichloropropene	ND (0.0066)		8260B Low		1	04/01/15 20:00	CYD0007	CD50146
Dibromochloromethane	ND (0.0026)		8260B Low		1	04/01/15 20:00	CYD0007	CD50146
Dibromomethane	ND (0.0066)		8260B Low		1	04/01/15 20:00	CYD0007	CD50146
Dichlorodifluoromethane	ND (0.0132)		8260B Low		1	04/01/15 20:00	CYD0007	CD50146
Diethyl Ether	ND (0.0066)		8260B Low		1	04/01/15 20:00	CYD0007	CD50146
Di-isopropyl ether	ND (0.0066)		8260B Low		1	04/01/15 20:00	CYD0007	CD50146
Ethyl tertiary-butyl ether	ND (0.0066)		8260B Low		1	04/01/15 20:00	CYD0007	CD50146
Ethylbenzene	ND (0.0066)		8260B Low		1	04/01/15 20:00	CYD0007	CD50146
Hexachlorobutadiene	ND (0.0066)		8260B Low		1	04/01/15 20:00	CYD0007	CD50146
Isopropylbenzene	ND (0.0066)		8260B Low		1	04/01/15 20:00	CYD0007	CD50146
Methyl tert-Butyl Ether	ND (0.0066)		8260B Low		1	04/01/15 20:00	CYD0007	CD50146
Methylene Chloride	ND (0.0132)		8260B Low		1	04/01/15 20:00	CYD0007	CD50146
Naphthalene	ND (0.0066)		8260B Low		1	04/01/15 20:00	CYD0007	CD50146
n-Butylbenzene	ND (0.0066)		8260B Low		1	04/01/15 20:00	CYD0007	CD50146
n-Propylbenzene	ND (0.0066)		8260B Low		1	04/01/15 20:00	CYD0007	CD50146
sec-Butylbenzene	ND (0.0066)		8260B Low		1	04/01/15 20:00	CYD0007	CD50146
Styrene	ND (0.0066)		8260B Low		1	04/01/15 20:00	CYD0007	CD50146
tert-Butylbenzene	ND (0.0066)		8260B Low		1	04/01/15 20:00	CYD0007	CD50146
Tertiary-amyl methyl ether	ND (0.0066)		8260B Low		1	04/01/15 20:00	CYD0007	CD50146
Tetrachloroethene	ND (0.0066)		8260B Low		1	04/01/15 20:00	CYD0007	CD50146

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-223 0ft-3ft
Date Sampled: 03/30/15 09:18
Percent Solids: 50
Initial Volume: 7.6
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1503558
ESS Laboratory Sample ID: 1503558-15
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Tetrahydrofuran	ND (0.0066)		8260B Low		1	04/01/15 20:00	CYD0007	CD50146
Toluene	ND (0.0066)		8260B Low		1	04/01/15 20:00	CYD0007	CD50146
trans-1,2-Dichloroethene	ND (0.0066)		8260B Low		1	04/01/15 20:00	CYD0007	CD50146
trans-1,3-Dichloropropene	ND (0.0066)		8260B Low		1	04/01/15 20:00	CYD0007	CD50146
Trichloroethene	ND (0.0066)		8260B Low		1	04/01/15 20:00	CYD0007	CD50146
Trichlorofluoromethane	ND (0.0066)		8260B Low		1	04/01/15 20:00	CYD0007	CD50146
Vinyl Chloride	ND (0.0132)		8260B Low		1	04/01/15 20:00	CYD0007	CD50146
Xylene O	ND (0.0066)		8260B Low		1	04/01/15 20:00	CYD0007	CD50146
Xylene P,M	ND (0.0132)		8260B Low		1	04/01/15 20:00	CYD0007	CD50146
Xylenes (Total)	ND (0.0132)		8260B Low		1	04/01/15 20:00		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*96 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*91 %*		*70-130*
Surrogate: Dibromofluoromethane	*87 %*		*70-130*
Surrogate: Toluene-d8	*91 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-223 0ft-3ft
Date Sampled: 03/30/15 09:18
Percent Solids: 50
Initial Volume: 30.4
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503558
ESS Laboratory Sample ID: 1503558-15
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 4/2/15 15:23

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.330)		8270D		1	04/07/15 1:06	CYD0082	CD50739
1,2-Dichlorobenzene	ND (0.330)		8270D		1	04/07/15 1:06	CYD0082	CD50739
1,3-Dichlorobenzene	ND (0.330)		8270D		1	04/07/15 1:06	CYD0082	CD50739
1,4-Dichlorobenzene	ND (0.330)		8270D		1	04/07/15 1:06	CYD0082	CD50739
2,4,5-Trichlorophenol	ND (0.330)		8270D		1	04/07/15 1:06	CYD0082	CD50739
2,4,6-Trichlorophenol	ND (0.330)		8270D		1	04/07/15 1:06	CYD0082	CD50739
2,4-Dichlorophenol	ND (0.330)		8270D		1	04/07/15 1:06	CYD0082	CD50739
2,4-Dimethylphenol	ND (0.330)		8270D		1	04/07/15 1:06	CYD0082	CD50739
2,4-Dinitrophenol	ND (1.66)		8270D		1	04/07/15 1:06	CYD0082	CD50739
2,4-Dinitrotoluene	ND (0.330)		8270D		1	04/07/15 1:06	CYD0082	CD50739
2,6-Dinitrotoluene	ND (0.330)		8270D		1	04/07/15 1:06	CYD0082	CD50739
2-Chloronaphthalene	ND (0.330)		8270D		1	04/07/15 1:06	CYD0082	CD50739
2-Chlorophenol	ND (0.330)		8270D		1	04/07/15 1:06	CYD0082	CD50739
2-Methylphenol	ND (0.330)		8270D		1	04/07/15 1:06	CYD0082	CD50739
2-Nitrophenol	ND (0.330)		8270D		1	04/07/15 1:06	CYD0082	CD50739
3,3´-Dichlorobenzidine	ND (0.661)		8270D		1	04/07/15 1:06	CYD0082	CD50739
3+4-Methylphenol	ND (0.661)		8270D		1	04/07/15 1:06	CYD0082	CD50739
4-Bromophenyl-phenylether	ND (0.330)		8270D		1	04/07/15 1:06	CYD0082	CD50739
4-Chloroaniline	ND (0.661)		8270D		1	04/07/15 1:06	CYD0082	CD50739
4-Nitrophenol	ND (1.66)		8270D		1	04/07/15 1:06	CYD0082	CD50739
Acetophenone	ND (0.661)		8270D		1	04/07/15 1:06	CYD0082	CD50739
Aniline	ND (1.66)		8270D		1	04/07/15 1:06	CYD0082	CD50739
Azobenzene	ND (0.330)		8270D		1	04/07/15 1:06	CYD0082	CD50739
bis(2-Chloroethoxy)methane	ND (0.330)		8270D		1	04/07/15 1:06	CYD0082	CD50739
bis(2-Chloroethyl)ether	ND (0.330)		8270D		1	04/07/15 1:06	CYD0082	CD50739
bis(2-chloroisopropyl)Ether	ND (0.330)		8270D		1	04/07/15 1:06	CYD0082	CD50739
bis(2-Ethylhexyl)phthalate	ND (0.330)		8270D		1	04/07/15 1:06	CYD0082	CD50739
Butylbenzylphthalate	ND (0.330)		8270D		1	04/07/15 1:06	CYD0082	CD50739
Dibenzofuran	ND (0.330)		8270D		1	04/07/15 1:06	CYD0082	CD50739
Diethylphthalate	ND (0.330)		8270D		1	04/07/15 1:06	CYD0082	CD50739
Dimethylphthalate	ND (0.330)		8270D		1	04/07/15 1:06	CYD0082	CD50739

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-223 0ft-3ft
Date Sampled: 03/30/15 09:18
Percent Solids: 50
Initial Volume: 30.4
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503558
ESS Laboratory Sample ID: 1503558-15
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 4/2/15 15:23

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Di-n-butylphthalate	ND (0.330)		8270D		1	04/07/15 1:06	CYD0082	CD50739
Di-n-octylphthalate	ND (0.330)		8270D		1	04/07/15 1:06	CYD0082	CD50739
Hexachlorobutadiene	ND (0.330)		8270D		1	04/07/15 1:06	CYD0082	CD50739
Hexachloroethane	ND (0.330)		8270D		1	04/07/15 1:06	CYD0082	CD50739
Isophorone	ND (0.330)		8270D		1	04/07/15 1:06	CYD0082	CD50739
Nitrobenzene	ND (0.330)		8270D		1	04/07/15 1:06	CYD0082	CD50739
N-Nitrosodimethylamine	ND (0.330)		8270D		1	04/07/15 1:06	CYD0082	CD50739
Pentachlorophenol	ND (1.66)		8270D		1	04/07/15 1:06	CYD0082	CD50739
Phenol	ND (0.330)		8270D		1	04/07/15 1:06	CYD0082	CD50739

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*49 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*63 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*52 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*56 %*		*30-130*
Surrogate: 2-Fluorophenol	*50 %*		*30-130*
Surrogate: Nitrobenzene-d5	*52 %*		*30-130*
Surrogate: Phenol-d6	*54 %*		*30-130*
Surrogate: p-Terphenyl-d14	*57 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-223 0ft-3ft
Date Sampled: 03/30/15 09:18
Percent Solids: 50

ESS Laboratory Work Order: 1503558
ESS Laboratory Sample ID: 1503558-15
Sample Matrix: Soil

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Corrosivity (pH)	**H 8.34** (N/A)		9045		1	JLK	04/01/15 11:12	S.U.	CD50119
Corrosivity (pH) Sample Temp	**Soil pH measured in water at 13.8 ºC.**								
Eh (ORP)	**H, WL 293** (N/A)		2580		1	JLK	04/01/15 11:12	mv	CD50120
Grain Size	**See Attached** (N/A)								
Hexavalent Chromium	ND (0.8)		7196A		1	EEM	04/06/15 14:20	mg/kg dry	CD50609
Percent Water	**See Attached** (N/A)								
Reactive Cyanide	ND (2.0)		7.3.3.2		1	JLK	04/01/15 11:34	mg/kg	CD50128
Reactive Sulfide	ND (2.0)		7.3.4.1		1	JLK	04/01/15 11:34	mg/kg	CD50128

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-223 0ft-3ft
Date Sampled: 03/30/15 09:18
Percent Solids: 50
Initial Volume: 30.2
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1503558
ESS Laboratory Sample ID: 1503558-15
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 4/2/15 13:31

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (24.9)		MADEP-EPH		1	JXS	04/05/15 1:27	CYD0058	CD50135
C19-C36 Aliphatics1	**38.4** (24.9)		MADEP-EPH		1	JXS	04/05/15 1:27	CYD0058	CD50135
C11-C22 Unadjusted Aromatics1	**84.6** (24.9)		EPH8270		1	JXS	04/04/15 6:55	CYD0054	CD50135
C11-C22 Aromatics1,2	**77.6** (24.9)		EPH8270			JXS	04/04/15 6:55		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*50 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*92 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*81 %*		*40-140*
Surrogate: O-Terphenyl	*72 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-226 0ft-0.5ft
Date Sampled: 03/30/15 07:58
Percent Solids: 100

ESS Laboratory Work Order: 1503558
ESS Laboratory Sample ID: 1503558-16
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (4.08)		6020A		50	NAR	04/09/15 16:59	2.45	100	CD50820
Arsenic	**32.2** (2.04)		6010C		1	KJK	04/09/15 20:17	2.45	100	CD50820
Barium	**41.2** (2.04)		6010C		1	KJK	04/09/15 2:33	2.45	100	CD50820
Beryllium	**0.33** (0.09)		6010C		1	KJK	04/09/15 2:33	2.45	100	CD50820
Cadmium	ND (0.41)		6010C		1	KJK	04/09/15 2:33	2.45	100	CD50820
Chromium	**39.2** (0.82)		6010C		1	KJK	04/09/15 2:33	2.45	100	CD50820
Lead	**176** (4.08)		6010C		1	KJK	04/09/15 2:33	2.45	100	CD50820
Mercury	**0.544** (0.029)		7471B		1	BJV	04/09/15 12:25	0.68	40	CD50819
Nickel	**14.1** (2.04)		6010C		1	KJK	04/09/15 2:33	2.45	100	CD50820
Selenium	ND (8.16)		6020A		50	NAR	04/09/15 16:59	2.45	100	CD50820
Silver	**0.59** (0.41)		6010C		1	KJK	04/09/15 2:33	2.45	100	CD50820
Thallium	ND (0.33)		7010		4	KJK	04/10/15 5:45	2.45	100	CD50820
Vanadium	**58.2** (0.82)		6010C		1	KJK	04/09/15 2:33	2.45	100	CD50820
Zinc	**187** (2.04)		6010C		1	KJK	04/09/15 2:33	2.45	100	CD50820

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-226 0.5ft-2ft
Date Sampled: 03/30/15 07:58
Percent Solids: 100

ESS Laboratory Work Order: 1503558
ESS Laboratory Sample ID: 1503558-17
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (3.83)		6020A		50	NAR	04/09/15 17:28	2.61	100	CD50820
Arsenic	**91.8** (1.92)		6010C		1	KJK	04/09/15 20:47	2.61	100	CD50820
Barium	**53.5** (1.92)		6010C		1	KJK	04/09/15 2:59	2.61	100	CD50820
Beryllium	**0.47** (0.08)		6010C		1	KJK	04/09/15 2:59	2.61	100	CD50820
Cadmium	**3.40** (0.38)		6010C		1	KJK	04/09/15 2:59	2.61	100	CD50820
Chromium	**57.8** (0.77)		6010C		1	KJK	04/09/15 2:59	2.61	100	CD50820
Lead	**1210** (19.2)		6010C		5	KJK	04/09/15 20:43	2.61	100	CD50820
Mercury	**5.43** (1.52)		7471B		50	BJV	04/09/15 15:20	0.65	40	CD50819
Nickel	**12.7** (1.92)		6010C		1	KJK	04/09/15 2:59	2.61	100	CD50820
Selenium	**45.8** (7.66)		7010		20	NAR	04/13/15 15:59	2.61	100	CD50820
Silver	**0.70** (0.38)		6010C		1	KJK	04/09/15 2:59	2.61	100	CD50820
Thallium	ND (0.31)		7010		4	KJK	04/10/15 6:31	2.61	100	CD50820
Vanadium	**32.7** (0.77)		6010C		1	KJK	04/09/15 2:59	2.61	100	CD50820
Zinc	**1150** (9.58)		6010C		5	KJK	04/09/15 20:43	2.61	100	CD50820

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-226 2ft-4ft
Date Sampled: 03/30/15 07:58
Percent Solids: 100

ESS Laboratory Work Order: 1503558
ESS Laboratory Sample ID: 1503558-18
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (3.72)		6020A		50	NAR	04/09/15 17:45	2.69	100	CD50820
Arsenic	ND (1.86)		6010C		1	KJK	04/09/15 20:53	2.69	100	CD50820
Barium	**22.6** (1.86)		6010C		1	KJK	04/09/15 3:05	2.69	100	CD50820
Beryllium	**0.38** (0.08)		6010C		1	KJK	04/09/15 3:05	2.69	100	CD50820
Cadmium	ND (0.37)		6010C		1	KJK	04/09/15 3:05	2.69	100	CD50820
Chromium	**19.3** (0.74)		6010C		1	KJK	04/09/15 3:05	2.69	100	CD50820
Lead	**13.1** (3.72)		6010C		1	KJK	04/09/15 3:05	2.69	100	CD50820
Mercury	**0.049** (0.028)		7471B		1	BJV	04/09/15 12:35	0.72	40	CD50819
Nickel	**11.6** (1.86)		6010C		1	KJK	04/09/15 3:05	2.69	100	CD50820
Selenium	ND (7.43)		6020A		50	NAR	04/09/15 17:45	2.69	100	CD50820
Silver	ND (0.37)		6010C		1	KJK	04/09/15 3:05	2.69	100	CD50820
Thallium	ND (0.30)		7010		4	KJK	04/10/15 6:37	2.69	100	CD50820
Vanadium	**24.7** (0.74)		6010C		1	KJK	04/09/15 3:05	2.69	100	CD50820
Zinc	**46.3** (1.86)		6010C		1	KJK	04/09/15 3:05	2.69	100	CD50820

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-220 0ft-0.5ft
Date Sampled: 03/30/15 08:11
Percent Solids: 100

ESS Laboratory Work Order: 1503558
ESS Laboratory Sample ID: 1503558-19
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (4.20)		6020A		50	NAR	04/09/15 17:51	2.38	100	CD50820
Arsenic	**45.8** (2.10)		6010C		1	KJK	04/09/15 20:57	2.38	100	CD50820
Barium	**48.4** (2.10)		6010C		1	KJK	04/09/15 3:09	2.38	100	CD50820
Beryllium	**0.40** (0.09)		6010C		1	KJK	04/09/15 3:09	2.38	100	CD50820
Cadmium	**0.52** (0.42)		6010C		1	KJK	04/09/15 3:09	2.38	100	CD50820
Chromium	**49.5** (0.84)		6010C		1	KJK	04/09/15 3:09	2.38	100	CD50820
Lead	**317** (4.20)		6010C		1	KJK	04/09/15 3:09	2.38	100	CD50820
Mercury	**1.05** (0.146)		7471B		5	BJV	04/09/15 15:21	0.68	40	CD50819
Nickel	**15.7** (2.10)		6010C		1	KJK	04/09/15 3:09	2.38	100	CD50820
Selenium	ND (8.40)		6020A		50	NAR	04/09/15 17:51	2.38	100	CD50820
Silver	**0.83** (0.42)		6010C		1	KJK	04/09/15 3:09	2.38	100	CD50820
Thallium	ND (0.34)		7010		4	KJK	04/10/15 6:42	2.38	100	CD50820
Vanadium	**59.3** (0.84)		6010C		1	KJK	04/09/15 3:09	2.38	100	CD50820
Zinc	**266** (2.10)		6010C		1	KJK	04/09/15 3:09	2.38	100	CD50820

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-220 0.5ft-2ft
Date Sampled: 03/30/15 08:11
Percent Solids: 100

ESS Laboratory Work Order: 1503558
ESS Laboratory Sample ID: 1503558-20
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (3.94)		6020A		50	NAR	04/09/15 17:57	2.54	100	CD50820
Arsenic	**210** (1.97)		6010C		1	KJK	04/09/15 21:02	2.54	100	CD50820
Barium	**59.3** (1.97)		6010C		1	KJK	04/09/15 3:14	2.54	100	CD50820
Beryllium	**0.52** (0.09)		6010C		1	KJK	04/09/15 3:14	2.54	100	CD50820
Cadmium	**2.76** (0.39)		6010C		1	KJK	04/09/15 3:14	2.54	100	CD50820
Chromium	**44.4** (0.79)		6010C		1	KJK	04/09/15 3:14	2.54	100	CD50820
Lead	**582** (3.94)		6010C		1	KJK	04/09/15 3:14	2.54	100	CD50820
Mercury	**3.46** (1.34)		7471B		50	BJV	04/09/15 15:23	0.74	40	CD50819
Nickel	**11.8** (1.97)		6010C		1	KJK	04/09/15 3:14	2.54	100	CD50820
Selenium	**65.4** (7.87)		7010		20	NAR	04/13/15 16:27	2.54	100	CD50820
Silver	**1.17** (0.39)		6010C		1	KJK	04/09/15 3:14	2.54	100	CD50820
Thallium	ND (0.31)		7010		4	KJK	04/10/15 6:48	2.54	100	CD50820
Vanadium	**45.2** (0.79)		6010C		1	KJK	04/09/15 3:14	2.54	100	CD50820
Zinc	**547** (1.97)		6010C		1	KJK	04/09/15 3:14	2.54	100	CD50820

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-220 2ft-4ft
Date Sampled: 03/30/15 08:11
Percent Solids: 100

ESS Laboratory Work Order: 1503558
ESS Laboratory Sample ID: 1503558-21
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (3.45)		6020A		50	NAR	04/09/15 18:03	2.9	100	CD50820
Arsenic	**3.43** (1.72)		6010C		1	KJK	04/09/15 21:21	2.9	100	CD50820
Barium	**21.0** (1.72)		6010C		1	KJK	04/09/15 3:47	2.9	100	CD50820
Beryllium	**0.38** (0.08)		6010C		1	KJK	04/09/15 3:47	2.9	100	CD50820
Cadmium	ND (0.34)		6010C		1	KJK	04/09/15 3:47	2.9	100	CD50820
Chromium	**19.3** (0.69)		6010C		1	KJK	04/09/15 3:47	2.9	100	CD50820
Lead	**14.2** (3.45)		6010C		1	KJK	04/09/15 3:47	2.9	100	CD50820
Mercury	**0.074** (0.031)		7471B		1	BJV	04/09/15 12:43	0.64	40	CD50819
Nickel	**10.9** (1.72)		6010C		1	KJK	04/09/15 3:47	2.9	100	CD50820
Selenium	ND (6.90)		6020A		50	NAR	04/09/15 18:03	2.9	100	CD50820
Silver	ND (0.34)		6010C		1	KJK	04/09/15 3:47	2.9	100	CD50820
Thallium	ND (0.28)		7010		4	KJK	04/10/15 6:54	2.9	100	CD50820
Vanadium	**25.3** (0.69)		6010C		1	KJK	04/09/15 3:47	2.9	100	CD50820
Zinc	**38.0** (1.72)		6010C		1	KJK	04/09/15 3:47	2.9	100	CD50820

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-221 0ft-0.5ft
Date Sampled: 03/30/15 08:30
Percent Solids: 100

ESS Laboratory Work Order: 1503558
ESS Laboratory Sample ID: 1503558-22
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (4.08)		6020A		50	NAR	04/09/15 18:09	2.45	100	CD50820
Arsenic	**37.9** (2.04)		6010C		1	KJK	04/09/15 21:26	2.45	100	CD50820
Barium	**36.0** (2.04)		6010C		1	KJK	04/09/15 3:51	2.45	100	CD50820
Beryllium	**0.37** (0.09)		6010C		1	KJK	04/09/15 3:51	2.45	100	CD50820
Cadmium	**0.43** (0.41)		6010C		1	KJK	04/09/15 3:51	2.45	100	CD50820
Chromium	**46.6** (0.82)		6010C		1	KJK	04/09/15 3:51	2.45	100	CD50820
Lead	**197** (4.08)		6010C		1	KJK	04/09/15 3:51	2.45	100	CD50820
Mercury	**0.892** (0.146)		7471B		5	BJV	04/09/15 15:25	0.68	40	CD50819
Nickel	**14.9** (2.04)		6010C		1	KJK	04/09/15 3:51	2.45	100	CD50820
Selenium	ND (8.16)		6020A		50	NAR	04/09/15 18:09	2.45	100	CD50820
Silver	**0.63** (0.41)		6010C		1	KJK	04/09/15 3:51	2.45	100	CD50820
Thallium	ND (0.33)		7010		4	KJK	04/10/15 7:17	2.45	100	CD50820
Vanadium	**63.4** (0.82)		6010C		1	KJK	04/09/15 3:51	2.45	100	CD50820
Zinc	**214** (2.04)		6010C		1	KJK	04/09/15 3:51	2.45	100	CD50820

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-221 4ft-6ft
Date Sampled: 03/30/15 08:30
Percent Solids: 100

ESS Laboratory Work Order: 1503558
ESS Laboratory Sample ID: 1503558-23
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (4.00)		6020A		50	NAR	04/09/15 18:15	2.5	100	CD50820
Arsenic	ND (2.00)		6010C		1	KJK	04/09/15 21:32	2.5	100	CD50820
Barium	**19.6** (2.00)		6010C		1	KJK	04/09/15 3:56	2.5	100	CD50820
Beryllium	**0.36** (0.09)		6010C		1	KJK	04/09/15 3:56	2.5	100	CD50820
Cadmium	ND (0.40)		6010C		1	KJK	04/09/15 3:56	2.5	100	CD50820
Chromium	**18.3** (0.80)		6010C		1	KJK	04/09/15 3:56	2.5	100	CD50820
Lead	**5.66** (4.00)		6010C		1	KJK	04/09/15 3:56	2.5	100	CD50820
Mercury	ND (0.030)		7471B		1	BJV	04/09/15 12:46	0.66	40	CD50819
Nickel	**10.5** (2.00)		6010C		1	KJK	04/09/15 3:56	2.5	100	CD50820
Selenium	ND (8.00)		6020A		50	NAR	04/09/15 18:15	2.5	100	CD50820
Silver	ND (0.40)		6010C		1	KJK	04/09/15 3:56	2.5	100	CD50820
Thallium	ND (0.32)		7010		4	KJK	04/10/15 7:23	2.5	100	CD50820
Vanadium	**24.3** (0.80)		6010C		1	KJK	04/09/15 3:56	2.5	100	CD50820
Zinc	**29.8** (2.00)		6010C		1	KJK	04/09/15 3:56	2.5	100	CD50820

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-221 0ft-3ft
Date Sampled: 03/30/15 08:30
Percent Solids: 100

ESS Laboratory Work Order: 1503558
ESS Laboratory Sample ID: 1503558-24
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (4.18)		6020A		50	NAR	04/09/15 18:21	2.39	100	CD50820
Arsenic	**135** (2.09)		6010C		1	KJK	04/09/15 21:36	2.39	100	CD50820
Barium	**77.6** (2.09)		6010C		1	KJK	04/09/15 4:00	2.39	100	CD50820
Beryllium	**0.54** (0.09)		6010C		1	KJK	04/09/15 4:00	2.39	100	CD50820
Cadmium	**1.96** (0.42)		6010C		1	KJK	04/09/15 4:00	2.39	100	CD50820
Chromium	**91.4** (0.84)		6010C		1	KJK	04/09/15 4:00	2.39	100	CD50820
Lead	**703** (4.18)		6010C		1	KJK	04/09/15 4:00	2.39	100	CD50820
Mercury	**4.41** (1.52)		7471B		50	BJV	04/09/15 15:26	0.65	40	CD50819
Nickel	**13.4** (2.09)		6010C		1	KJK	04/09/15 4:00	2.39	100	CD50820
Selenium	**30.7** (8.37)		7010		20	NAR	04/13/15 16:44	2.39	100	CD50820
Silver	**0.66** (0.42)		6010C		1	KJK	04/09/15 4:00	2.39	100	CD50820
Thallium	ND (0.33)		7010		4	KJK	04/10/15 7:29	2.39	100	CD50820
Vanadium	**38.7** (0.84)		6010C		1	KJK	04/09/15 4:00	2.39	100	CD50820
Zinc	**624** (2.09)		6010C		1	KJK	04/09/15 4:00	2.39	100	CD50820

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-222 0ft-0.5ft
Date Sampled: 03/30/15 09:05
Percent Solids: 100

ESS Laboratory Work Order: 1503558
ESS Laboratory Sample ID: 1503558-25
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (3.70)		6020A		50	NAR	04/09/15 18:27	2.7	100	CD50820
Arsenic	**28.0** (1.85)		6010C		1	KJK	04/09/15 21:41	2.7	100	CD50820
Barium	**32.7** (1.85)		6010C		1	KJK	04/09/15 4:06	2.7	100	CD50820
Beryllium	**0.29** (0.08)		6010C		1	KJK	04/09/15 4:06	2.7	100	CD50820
Cadmium	ND (0.37)		6010C		1	KJK	04/09/15 4:06	2.7	100	CD50820
Chromium	**38.6** (0.74)		6010C		1	KJK	04/09/15 4:06	2.7	100	CD50820
Lead	**192** (3.70)		6010C		1	KJK	04/09/15 4:06	2.7	100	CD50820
Mercury	**0.779** (0.141)		7471B		5	BJV	04/09/15 15:28	0.7	40	CD50819
Nickel	**12.1** (1.85)		6010C		1	KJK	04/09/15 4:06	2.7	100	CD50820
Selenium	ND (7.41)		6020A		50	NAR	04/09/15 18:27	2.7	100	CD50820
Silver	**0.47** (0.37)		6010C		1	KJK	04/09/15 4:06	2.7	100	CD50820
Thallium	ND (0.30)		7010		4	KJK	04/10/15 7:34	2.7	100	CD50820
Vanadium	**48.8** (0.74)		6010C		1	KJK	04/09/15 4:06	2.7	100	CD50820
Zinc	**180** (1.85)		6010C		1	KJK	04/09/15 4:06	2.7	100	CD50820

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-222 0.5ft-2ft
Date Sampled: 03/30/15 09:05
Percent Solids: 100

ESS Laboratory Work Order: 1503558
ESS Laboratory Sample ID: 1503558-26
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (3.65)		6020A		50	NAR	04/09/15 18:32	2.74	100	CD50820
Arsenic	**48.4** (1.82)		6010C		1	KJK	04/09/15 21:47	2.74	100	CD50820
Barium	**37.5** (1.82)		6010C		1	KJK	04/09/15 4:11	2.74	100	CD50820
Beryllium	**0.54** (0.08)		6010C		1	KJK	04/09/15 4:11	2.74	100	CD50820
Cadmium	**0.41** (0.36)		6010C		1	KJK	04/09/15 4:11	2.74	100	CD50820
Chromium	**31.5** (0.73)		6010C		1	KJK	04/09/15 4:11	2.74	100	CD50820
Lead	**175** (3.65)		6010C		1	KJK	04/09/15 4:11	2.74	100	CD50820
Mercury	**1.31** (0.139)		7471B		5	BJV	04/09/15 15:30	0.71	40	CD50819
Nickel	**14.9** (1.82)		6010C		1	KJK	04/09/15 4:11	2.74	100	CD50820
Selenium	**27.7** (7.30)		7010		20	NAR	04/13/15 17:01	2.74	100	CD50820
Silver	ND (0.36)		6010C		1	KJK	04/09/15 4:11	2.74	100	CD50820
Thallium	ND (0.29)		7010		4	KJK	04/10/15 7:40	2.74	100	CD50820
Vanadium	**34.9** (0.73)		6010C		1	KJK	04/09/15 4:11	2.74	100	CD50820
Zinc	**169** (1.82)		6010C		1	KJK	04/09/15 4:11	2.74	100	CD50820

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-222 2ft-4ft
Date Sampled: 03/30/15 09:05
Percent Solids: 100

ESS Laboratory Work Order: 1503558
ESS Laboratory Sample ID: 1503558-27
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (3.66)		6020A		50	NAR	04/09/15 18:38	2.73	100	CD50820
Arsenic	**32.1** (1.83)		6010C		1	KJK	04/09/15 21:52	2.73	100	CD50820
Barium	**38.8** (1.83)		6010C		1	KJK	04/09/15 4:17	2.73	100	CD50820
Beryllium	**0.40** (0.08)		6010C		1	KJK	04/09/15 4:17	2.73	100	CD50820
Cadmium	**0.73** (0.37)		6010C		1	KJK	04/09/15 4:17	2.73	100	CD50820
Chromium	**36.9** (0.73)		6010C		1	KJK	04/09/15 4:17	2.73	100	CD50820
Lead	**270** (3.66)		6010C		1	KJK	04/09/15 4:17	2.73	100	CD50820
Mercury	**1.95** (0.309)		7471B		10	BJV	04/09/15 15:35	0.64	40	CD50819
Nickel	**11.5** (1.83)		6010C		1	KJK	04/09/15 4:17	2.73	100	CD50820
Selenium	**10.0** (1.47)		7010		4	NAR	04/13/15 17:07	2.73	100	CD50820
Silver	ND (0.37)		6010C		1	KJK	04/09/15 4:17	2.73	100	CD50820
Thallium	ND (0.29)		7010		4	KJK	04/10/15 7:46	2.73	100	CD50820
Vanadium	**27.2** (0.73)		6010C		1	KJK	04/09/15 4:17	2.73	100	CD50820
Zinc	**284** (1.83)		6010C		1	KJK	04/09/15 4:17	2.73	100	CD50820

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-223 0ft-0.5ft
Date Sampled: 03/30/15 09:18
Percent Solids: 100

ESS Laboratory Work Order: 1503558
ESS Laboratory Sample ID: 1503558-28
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (4.03)		6020A		50	NAR	04/09/15 18:56	2.48	100	CD50820
Arsenic	**35.6** (2.02)		6010C		1	KJK	04/09/15 21:58	2.48	100	CD50820
Barium	**38.5** (2.02)		6010C		1	KJK	04/09/15 4:22	2.48	100	CD50820
Beryllium	**0.32** (0.09)		6010C		1	KJK	04/09/15 4:22	2.48	100	CD50820
Cadmium	ND (0.40)		6010C		1	KJK	04/09/15 4:22	2.48	100	CD50820
Chromium	**43.2** (0.81)		6010C		1	KJK	04/09/15 4:22	2.48	100	CD50820
Lead	**250** (4.03)		6010C		1	KJK	04/09/15 4:22	2.48	100	CD50820
Mercury	**0.974** (0.157)		7471B		5	BJV	04/09/15 15:36	0.63	40	CD50819
Nickel	**12.9** (2.02)		6010C		1	KJK	04/09/15 4:22	2.48	100	CD50820
Selenium	ND (8.06)		6020A		50	NAR	04/09/15 18:56	2.48	100	CD50820
Silver	**0.49** (0.40)		6010C		1	KJK	04/09/15 4:22	2.48	100	CD50820
Thallium	ND (0.32)		7010		4	KJK	04/10/15 7:51	2.48	100	CD50820
Vanadium	**49.7** (0.81)		6010C		1	KJK	04/09/15 4:22	2.48	100	CD50820
Zinc	**227** (2.02)		6010C		1	KJK	04/09/15 4:22	2.48	100	CD50820

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-223 2ft-4ft
Date Sampled: 03/30/15 09:18
Percent Solids: 100

ESS Laboratory Work Order: 1503558
ESS Laboratory Sample ID: 1503558-29
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (3.86)		6020A		50	NAR	04/09/15 19:02	2.59	100	CD50820
Arsenic	**107** (1.93)		6010C		1	KJK	04/09/15 22:07	2.59	100	CD50820
Barium	**135** (1.93)		6010C		1	KJK	04/09/15 4:28	2.59	100	CD50820
Beryllium	**0.45** (0.08)		6010C		1	KJK	04/09/15 4:28	2.59	100	CD50820
Cadmium	**1.62** (0.39)		6010C		1	KJK	04/09/15 4:28	2.59	100	CD50820
Chromium	**88.0** (0.77)		6010C		1	KJK	04/09/15 4:28	2.59	100	CD50820
Lead	**1800** (19.3)		6010C		5	KJK	04/09/15 22:04	2.59	100	CD50820
Mercury	**10.3** (3.09)		7471B		100	BJV	04/09/15 15:38	0.64	40	CD50819
Nickel	**12.5** (1.93)		6010C		1	KJK	04/09/15 4:28	2.59	100	CD50820
Selenium	**14.9** (1.54)		7010		4	NAR	04/13/15 17:12	2.59	100	CD50820
Silver	**0.59** (0.39)		6010C		1	KJK	04/09/15 4:28	2.59	100	CD50820
Thallium	ND (0.31)		7010		4	KJK	04/10/15 7:57	2.59	100	CD50820
Vanadium	**34.4** (0.77)		6010C		1	KJK	04/09/15 4:28	2.59	100	CD50820
Zinc	**480** (1.93)		6010C		1	KJK	04/09/15 4:28	2.59	100	CD50820

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-223 0ft-3ft
Date Sampled: 03/30/15 09:18
Percent Solids: 100

ESS Laboratory Work Order: 1503558
ESS Laboratory Sample ID: 1503558-30
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (3.70)		6020A		50	NAR	04/09/15 19:08	2.7	100	CD50820
Arsenic	**137** (1.85)		6010C		1	KJK	04/09/15 22:30	2.7	100	CD50820
Barium	**91.5** (1.85)		6010C		1	KJK	04/09/15 4:33	2.7	100	CD50820
Beryllium	**0.67** (0.08)		6010C		1	KJK	04/09/15 4:33	2.7	100	CD50820
Cadmium	**1.58** (0.37)		6010C		1	KJK	04/09/15 4:33	2.7	100	CD50820
Chromium	**62.7** (0.74)		6010C		1	KJK	04/09/15 4:33	2.7	100	CD50820
Lead	**1120** (18.5)		6010C		5	KJK	04/09/15 22:26	2.7	100	CD50820
Mercury	**11.9** (3.14)		7471B		100	BJV	04/09/15 15:40	0.63	40	CD50819
Nickel	**16.5** (1.85)		6010C		1	KJK	04/09/15 4:33	2.7	100	CD50820
Selenium	**63.6** (7.41)		7010		20	NAR	04/13/15 17:30	2.7	100	CD50820
Silver	**0.53** (0.37)		6010C		1	KJK	04/09/15 4:33	2.7	100	CD50820
Thallium	ND (0.30)		7010		4	KJK	04/10/15 8:02	2.7	100	CD50820
Vanadium	**45.5** (0.74)		6010C		1	KJK	04/09/15 4:33	2.7	100	CD50820
Zinc	**462** (1.85)		6010C		1	KJK	04/09/15 4:33	2.7	100	CD50820

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-226 0ft-0.5ft
Date Sampled: 03/30/15 07:58
Percent Solids: 98
Initial Volume: 25.9
Final Volume: 2
Extraction Method: 3540C

ESS Laboratory Work Order: 1503558
ESS Laboratory Sample ID: 1503558-31
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 4/6/15 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0078)		8082A		1	04/07/15 16:21		CD50616
Aroclor 1221	ND (0.0078)		8082A		1	04/07/15 16:21		CD50616
Aroclor 1232	ND (0.0078)		8082A		1	04/07/15 16:21		CD50616
Aroclor 1242	ND (0.0078)		8082A		1	04/07/15 16:21		CD50616
Aroclor 1248	**0.454** (0.0392)		8082A		5	04/08/15 1:50		CD50616
Aroclor 1254	**0.593** (0.0392)		8082A		5	04/08/15 1:50		CD50616
Aroclor 1260	**0.312** (0.0392)		8082A		5	04/08/15 1:50		CD50616
Aroclor 1262	ND (0.0078)		8082A		1	04/07/15 16:21		CD50616
Aroclor 1268	ND (0.0078)		8082A		1	04/07/15 16:21		CD50616

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*127 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*64 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*70 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*67 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-220 0ft-0.5ft
Date Sampled: 03/30/15 08:11
Percent Solids: 98
Initial Volume: 24.9
Final Volume: 2
Extraction Method: 3540C

ESS Laboratory Work Order: 1503558
ESS Laboratory Sample ID: 1503558-32
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 4/6/15 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0082)		8082A		1	04/07/15 16:32		CD50616
Aroclor 1221	ND (0.0082)		8082A		1	04/07/15 16:32		CD50616
Aroclor 1232	ND (0.0082)		8082A		1	04/07/15 16:32		CD50616
Aroclor 1242	ND (0.0082)		8082A		1	04/07/15 16:32		CD50616
Aroclor 1248	**P 0.115** (0.0082)		8082A		1	04/07/15 16:32		CD50616
Aroclor 1254	**0.348** (0.0409)		8082A		5	04/08/15 1:32		CD50616
Aroclor 1260	**0.145** (0.0082)		8082A		1	04/07/15 16:32		CD50616
Aroclor 1262	ND (0.0082)		8082A		1	04/07/15 16:32		CD50616
Aroclor 1268	ND (0.0082)		8082A		1	04/07/15 16:32		CD50616

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*95 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*102 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*46 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*33 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-220 0.5ft-2ft
Date Sampled: 03/30/15 08:11
Percent Solids: 98
Initial Volume: 26.9
Final Volume: 2
Extraction Method: 3540C

ESS Laboratory Work Order: 1503558
ESS Laboratory Sample ID: 1503558-33
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 4/6/15 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0076)		8082A		1	04/07/15 16:40		CD50616
Aroclor 1221	ND (0.0076)		8082A		1	04/07/15 16:40		CD50616
Aroclor 1232	ND (0.0076)		8082A		1	04/07/15 16:40		CD50616
Aroclor 1242	ND (0.0076)		8082A		1	04/07/15 16:40		CD50616
Aroclor 1248	ND (0.0076)		8082A		1	04/07/15 16:40		CD50616
Aroclor 1254	ND (0.0076)		8082A		1	04/07/15 16:40		CD50616
Aroclor 1260	ND (0.0076)		8082A		1	04/07/15 16:40		CD50616
Aroclor 1262	**0.0092** (0.0076)		8082A		1	04/07/15 16:40		CD50616
Aroclor 1268	ND (0.0076)		8082A		1	04/07/15 16:40		CD50616

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*63 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*55 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*71 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*60 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-221 0ft-0.5ft
Date Sampled: 03/30/15 08:30
Percent Solids: 98
Initial Volume: 26.7
Final Volume: 2
Extraction Method: 3540C

ESS Laboratory Work Order: 1503558
ESS Laboratory Sample ID: 1503558-34
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 4/6/15 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0076)		8082A		1	04/07/15 17:18		CD50616
Aroclor 1221	ND (0.0076)		8082A		1	04/07/15 17:18		CD50616
Aroclor 1232	ND (0.0076)		8082A		1	04/07/15 17:18		CD50616
Aroclor 1242	ND (0.0076)		8082A		1	04/07/15 17:18		CD50616
Aroclor 1248	**0.608** (0.0763)		8082A		10	04/08/15 2:09		CD50616
Aroclor 1254	**0.823** (0.0763)		8082A		10	04/08/15 2:09		CD50616
Aroclor 1260	**0.271** (0.0763)		8082A		10	04/08/15 2:09		CD50616
Aroclor 1262	ND (0.0076)		8082A		1	04/07/15 17:18		CD50616
Aroclor 1268	ND (0.0076)		8082A		1	04/07/15 17:18		CD50616

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*135 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*63 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*72 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*71 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-221 0ft-3ft
Date Sampled: 03/30/15 08:30
Percent Solids: 98
Initial Volume: 25.1
Final Volume: 2
Extraction Method: 3540C

ESS Laboratory Work Order: 1503558
ESS Laboratory Sample ID: 1503558-35
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 4/6/15 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0081)		8082A		1	04/07/15 17:17		CD50616
Aroclor 1221	ND (0.0081)		8082A		1	04/07/15 17:17		CD50616
Aroclor 1232	ND (0.0081)		8082A		1	04/07/15 17:17		CD50616
Aroclor 1242	ND (0.0081)		8082A		1	04/07/15 17:17		CD50616
Aroclor 1248	**LC, P 0.0245** (0.0081)		8082A		1	04/07/15 17:17		CD50616
Aroclor 1254	**0.0488** (0.0081)		8082A		1	04/07/15 17:17		CD50616
Aroclor 1260	**0.0196** (0.0081)		8082A		1	04/07/15 17:17		CD50616
Aroclor 1262	ND (0.0081)		8082A		1	04/07/15 17:17		CD50616
Aroclor 1268	ND (0.0081)		8082A		1	04/07/15 17:17		CD50616

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*43 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*39 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*48 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*40 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-222 0ft-0.5ft
Date Sampled: 03/30/15 09:05
Percent Solids: 99
Initial Volume: 27.7
Final Volume: 2
Extraction Method: 3540C

ESS Laboratory Work Order: 1503558
ESS Laboratory Sample ID: 1503558-36
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 4/6/15 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0073)		8082A		1	04/07/15 17:35		CD50616
Aroclor 1221	ND (0.0073)		8082A		1	04/07/15 17:35		CD50616
Aroclor 1232	ND (0.0073)		8082A		1	04/07/15 17:35		CD50616
Aroclor 1242	ND (0.0073)		8082A		1	04/07/15 17:35		CD50616
Aroclor 1248	**LC, P 0.147** (0.0366)		8082A		5	04/08/15 1:51		CD50616
Aroclor 1254	**0.485** (0.0366)		8082A		5	04/08/15 1:51		CD50616
Aroclor 1260	**0.144** (0.0073)		8082A		1	04/07/15 17:35		CD50616
Aroclor 1262	ND (0.0073)		8082A		1	04/07/15 17:35		CD50616
Aroclor 1268	ND (0.0073)		8082A		1	04/07/15 17:35		CD50616

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*73 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*99 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*67 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*47 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-223 0ft-0.5ft
Date Sampled: 03/30/15 09:18
Percent Solids: 99
Initial Volume: 25.8
Final Volume: 2
Extraction Method: 3540C

ESS Laboratory Work Order: 1503558
ESS Laboratory Sample ID: 1503558-37
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 4/6/15 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0079)		8082A		1	04/07/15 17:54		CD50616
Aroclor 1221	ND (0.0079)		8082A		1	04/07/15 17:54		CD50616
Aroclor 1232	ND (0.0079)		8082A		1	04/07/15 17:54		CD50616
Aroclor 1242	ND (0.0079)		8082A		1	04/07/15 17:54		CD50616
Aroclor 1248	**0.120** (0.0079)		8082A		1	04/07/15 17:54		CD50616
Aroclor 1254	**0.314** (0.0393)		8082A		5	04/08/15 16:12		CD50616
Aroclor 1260	**0.100** (0.0079)		8082A		1	04/07/15 17:54		CD50616
Aroclor 1262	ND (0.0079)		8082A		1	04/07/15 17:54		CD50616
Aroclor 1268	ND (0.0079)		8082A		1	04/07/15 17:54		CD50616

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*62 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*71 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*59 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*37 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-223 0ft-3ft
Date Sampled: 03/30/15 09:18
Percent Solids: 98
Initial Volume: 25.5
Final Volume: 2
Extraction Method: 3540C

ESS Laboratory Work Order: 1503558
ESS Laboratory Sample ID: 1503558-38
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 4/6/15 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0080)		8082A		1	04/07/15 18:13		CD50616
Aroclor 1221	ND (0.0080)		8082A		1	04/07/15 18:13		CD50616
Aroclor 1232	ND (0.0080)		8082A		1	04/07/15 18:13		CD50616
Aroclor 1242	ND (0.0080)		8082A		1	04/07/15 18:13		CD50616
Aroclor 1248	ND (0.0080)		8082A		1	04/07/15 18:13		CD50616
Aroclor 1254	ND (0.0080)		8082A		1	04/07/15 18:13		CD50616
Aroclor 1260	ND (0.0080)		8082A		1	04/07/15 18:13		CD50616
Aroclor 1262	ND (0.0080)		8082A		1	04/07/15 18:13		CD50616
Aroclor 1268	ND (0.0080)		8082A		1	04/07/15 18:13		CD50616

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*31 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*32 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*30 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*21 %*	*S-*	*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase ESS Laboratory Work Order: 1503558

Quality Control Data

Total Metals

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch CD50819 - 7471A										
Blank										
Mercury	ND	0.033	mg/kg wet							
Mercury	ND	0.033	mg/kg wet							
LCS										
Mercury	26.5	3.41	mg/kg wet	24.90		106	80-120			
Mercury	26.5	3.41	mg/kg wet	24.90		106	80-120			
LCS Dup										
Mercury	26.3	3.47	mg/kg wet	24.90		105	80-120	1	20	
Mercury	26.3	3.47	mg/kg wet	24.90		105	80-120	1	20	
Batch CD50820 - 3050B										
Blank										
Antimony	ND	5.00	mg/kg wet							
Arsenic	ND	2.50	mg/kg wet							
Arsenic	ND	2.50	mg/kg wet							
Barium	ND	2.50	mg/kg wet							
Barium	ND	2.50	mg/kg wet							
Beryllium	ND	0.11	mg/kg wet							
Cadmium	ND	0.50	mg/kg wet							
Cadmium	ND	0.50	mg/kg wet							
Chromium	ND	1.00	mg/kg wet							
Chromium	ND	1.00	mg/kg wet							
Lead	ND	5.00	mg/kg wet							
Lead	ND	5.00	mg/kg wet							
Nickel	ND	2.50	mg/kg wet							
Selenium	ND	10.0	mg/kg wet							
Selenium	ND	0.50	mg/kg wet							
Silver	ND	0.50	mg/kg wet							
Silver	ND	0.50	mg/kg wet							
Thallium	ND	0.25	mg/kg wet							
Vanadium	ND	1.00	mg/kg wet							
Zinc	ND	2.50	mg/kg wet							
LCS										
Antimony	54.1	17.5	mg/kg wet	49.70		109	80-120			
Arsenic	109	8.77	mg/kg wet	133.0		82	80-120			
Arsenic	109	8.77	mg/kg wet	133.0		82	80-120			
Barium	187	8.77	mg/kg wet	229.0		82	80-120			
Barium	187	8.77	mg/kg wet	229.0		82	80-120			
Beryllium	81.6	0.39	mg/kg wet	95.80		85	80-120			
Cadmium	95.1	1.75	mg/kg wet	123.0		77	73-127			
Cadmium	95.1	1.75	mg/kg wet	123.0		77	73-127			
Chromium	49.2	3.51	mg/kg wet	63.20		78	68-132			
Chromium	49.2	3.51	mg/kg wet	63.20		78	68-132			
Lead	85.6	17.5	mg/kg wet	108.0		79	72-129			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase ESS Laboratory Work Order: 1503558

Quality Control Data

Total Metals

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch CD50820 - 3050B										
Lead	85.6	17.5	mg/kg wet	108.0		79	72-129			
Nickel	227	8.77	mg/kg wet	285.0		80	74-126			
Selenium	72.2	35.1	mg/kg wet	81.40		89	80-120			
Selenium	104	17.5	mg/kg wet	81.40		128	64-136			
Silver	63.5	1.75	mg/kg wet	74.80		85	80-120			
Silver	63.5	1.75	mg/kg wet	74.80		85	80-120			
Thallium	42.3	8.77	mg/kg wet	50.10		84	80-120			
Vanadium	124	3.51	mg/kg wet	148.0		84	80-120			
Zinc	161	8.77	mg/kg wet	203.0		79	70-130			
LCS Dup										
Antimony	54.9	19.2	mg/kg wet	49.70		110	80-120	1	30	
Arsenic	107	9.62	mg/kg wet	133.0		81	80-120	2	20	
Arsenic	107	9.62	mg/kg wet	133.0		81	80-120	2	20	
Barium	185	9.62	mg/kg wet	229.0		81	80-120	1	20	
Barium	185	9.62	mg/kg wet	229.0		81	80-120	1	20	
Beryllium	80.1	0.42	mg/kg wet	95.80		84	80-120	2	20	
Cadmium	94.3	1.92	mg/kg wet	123.0		77	73-127	0.8	20	
Cadmium	94.3	1.92	mg/kg wet	123.0		77	73-127	0.8	20	
Chromium	48.5	3.85	mg/kg wet	63.20		77	68-132	1	20	
Chromium	48.5	3.85	mg/kg wet	63.20		77	68-132	1	20	
Lead	89.4	19.2	mg/kg wet	108.0		83	80-120	4	20	
Lead	89.4	19.2	mg/kg wet	108.0		83	80-120	4	20	
Nickel	222	9.62	mg/kg wet	285.0		78	74-126	2	20	
Selenium	101	19.2	mg/kg wet	81.40		125	64-136	2	20	
Selenium	69.2	38.5	mg/kg wet	81.40		85	80-120	4	30	
Silver	62.3	1.92	mg/kg wet	74.80		83	80-120	2	20	
Silver	62.3	1.92	mg/kg wet	74.80		83	80-120	2	20	
Thallium	42.6	9.62	mg/kg wet	50.10		85	80-120	0.7	20	
Vanadium	129	3.85	mg/kg wet	148.0		87	80-120	4	20	
Zinc	156	9.62	mg/kg wet	203.0		77	70-130	3	20	
Reference										
Antimony	ND	18.2	mg/kg wet	49.70			24-282			
Arsenic	95.3	9.09	mg/kg wet	133.0		72	70-130			
Arsenic	95.3	9.09	mg/kg wet	133.0		72	70-130			
Barium	177	9.09	mg/kg wet	229.0		77	73-126			
Cadmium	91.2	1.82	mg/kg wet	123.0		74	73-127			
Chromium	49.4	3.64	mg/kg wet	63.20		78	68-132			
Lead	85.2	18.2	mg/kg wet	108.0		79	72-129			
Selenium	ND	36.4	mg/kg wet	81.40			64-136			
Silver	60.9	1.82	mg/kg wet	74.80		81	67-133			
Reference										
Antimony	ND	17.9	mg/kg wet	49.70			24-282			
Arsenic	98.6	8.93	mg/kg wet	133.0		74	70-130			
Arsenic	98.6	8.93	mg/kg wet	133.0		74	70-130			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase ESS Laboratory Work Order: 1503558

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Total Metals										
Batch CD50820 - 3050B										
Barium	172	8.93	mg/kg wet	229.0		75	73-126			
Cadmium	92.7	1.79	mg/kg wet	123.0		75	73-127			
Chromium	50.7	3.57	mg/kg wet	63.20		80	68-132			
Lead	87.9	17.9	mg/kg wet	108.0		81	72-129			
Selenium	ND	35.7	mg/kg wet	81.40			64-136			
Silver	61.6	1.79	mg/kg wet	74.80		82	67-133			
Reference										
Antimony	ND	18.2	mg/kg wet	49.70			24-282			
Arsenic	106	9.09	mg/kg wet	133.0		80	70-130			
Arsenic	106	9.09	mg/kg wet	133.0		80	70-130			
Barium	215	9.09	mg/kg wet	229.0		94	73-126			
Cadmium	100	1.82	mg/kg wet	123.0		81	73-127			
Chromium	55.2	3.64	mg/kg wet	63.20		87	68-132			
Lead	91.9	18.2	mg/kg wet	108.0		85	72-129			
Selenium	ND	36.4	mg/kg wet	81.40			64-136			
Silver	67.1	1.82	mg/kg wet	74.80		90	67-133			
Reference										
Antimony	ND	17.9	mg/kg wet	49.70			24-282			
Arsenic	97.6	8.93	mg/kg wet	133.0		73	70-130			
Arsenic	97.6	8.93	mg/kg wet	133.0		73	70-130			
Barium	176	8.93	mg/kg wet	229.0		77	73-126			
Cadmium	92.6	1.79	mg/kg wet	123.0		75	73-127			
Chromium	49.9	3.57	mg/kg wet	63.20		79	68-132			
Lead	88.1	17.9	mg/kg wet	108.0		82	72-129			
Selenium	ND	35.7	mg/kg wet	81.40			64-136			
Silver	62.3	1.79	mg/kg wet	74.80		83	67-133			
5035/8260B Volatile Organic Compounds / Low Level										
Batch CD50146 - 5035										
Blank										
1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet							
1,1,1-Trichloroethane	ND	0.0050	mg/kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0020	mg/kg wet							
1,1,2-Trichloroethane	ND	0.0050	mg/kg wet							
1,1-Dichloroethane	ND	0.0050	mg/kg wet							
1,1-Dichloroethene	ND	0.0050	mg/kg wet							
1,1-Dichloropropene	ND	0.0050	mg/kg wet							
1,2,3-Trichlorobenzene	ND	0.0050	mg/kg wet							
1,2,3-Trichloropropane	ND	0.0050	mg/kg wet							
1,2,4-Trichlorobenzene	ND	0.0050	mg/kg wet							
1,2,4-Trimethylbenzene	ND	0.0050	mg/kg wet							
1,2-Dibromo-3-Chloropropane	ND	0.0050	mg/kg wet							
1,2-Dibromoethane	ND	0.0050	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase ESS Laboratory Work Order: 1503558

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch CD50146 - 5035										
1,2-Dichlorobenzene	ND	0.0050	mg/kg wet							
1,2-Dichloroethane	ND	0.0050	mg/kg wet							
1,2-Dichloropropane	ND	0.0050	mg/kg wet							
1,3,5-Trimethylbenzene	ND	0.0050	mg/kg wet							
1,3-Dichlorobenzene	ND	0.0050	mg/kg wet							
1,3-Dichloropropane	ND	0.0050	mg/kg wet							
1,4-Dichlorobenzene	ND	0.0050	mg/kg wet							
1,4-Dioxane	ND	0.100	mg/kg wet							
2,2-Dichloropropane	ND	0.0050	mg/kg wet							
2-Butanone	ND	0.0100	mg/kg wet							
2-Chlorotoluene	ND	0.0050	mg/kg wet							
2-Hexanone	ND	0.0100	mg/kg wet							
4-Chlorotoluene	ND	0.0050	mg/kg wet							
4-Isopropyltoluene	ND	0.0050	mg/kg wet							
4-Methyl-2-Pentanone	ND	0.0100	mg/kg wet							
Acetone	ND	0.0100	mg/kg wet							
Benzene	ND	0.0050	mg/kg wet							
Bromobenzene	ND	0.0050	mg/kg wet							
Bromochloromethane	ND	0.0050	mg/kg wet							
Bromodichloromethane	ND	0.0050	mg/kg wet							
Bromoform	ND	0.0050	mg/kg wet							
Bromomethane	ND	0.0100	mg/kg wet							
Carbon Disulfide	ND	0.0050	mg/kg wet							
Carbon Tetrachloride	ND	0.0050	mg/kg wet							
Chlorobenzene	ND	0.0050	mg/kg wet							
Chloroethane	ND	0.0100	mg/kg wet							
Chloroform	ND	0.0050	mg/kg wet							
Chloromethane	ND	0.0100	mg/kg wet							
cis-1,2-Dichloroethene	ND	0.0050	mg/kg wet							
cis-1,3-Dichloropropene	ND	0.0050	mg/kg wet							
Dibromochloromethane	ND	0.0020	mg/kg wet							
Dibromomethane	ND	0.0050	mg/kg wet							
Dichlorodifluoromethane	ND	0.0100	mg/kg wet							
Diethyl Ether	ND	0.0050	mg/kg wet							
Di-isopropyl ether	ND	0.0050	mg/kg wet							
Ethyl tertiary-butyl ether	ND	0.0050	mg/kg wet							
Ethylbenzene	ND	0.0050	mg/kg wet							
Hexachlorobutadiene	ND	0.0050	mg/kg wet							
Isopropylbenzene	ND	0.0050	mg/kg wet							
Methyl tert-Butyl Ether	ND	0.0050	mg/kg wet							
Methylene Chloride	ND	0.0100	mg/kg wet							
Naphthalene	ND	0.0050	mg/kg wet							
n-Butylbenzene	ND	0.0050	mg/kg wet							
n-Propylbenzene	ND	0.0050	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase ESS Laboratory Work Order: 1503558

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch CD50146 - 5035										
sec-Butylbenzene	ND	0.0050	mg/kg wet							
Styrene	ND	0.0050	mg/kg wet							
tert-Butylbenzene	ND	0.0050	mg/kg wet							
Tertiary-amyl methyl ether	ND	0.0050	mg/kg wet							
Tetrachloroethene	ND	0.0050	mg/kg wet							
Tetrahydrofuran	ND	0.0050	mg/kg wet							
Toluene	ND	0.0050	mg/kg wet							
trans-1,2-Dichloroethene	ND	0.0050	mg/kg wet							
trans-1,3-Dichloropropene	ND	0.0050	mg/kg wet							
Trichloroethene	ND	0.0050	mg/kg wet							
Trichlorofluoromethane	ND	0.0050	mg/kg wet							
Vinyl Chloride	ND	0.0100	mg/kg wet							
Xylene O	ND	0.0050	mg/kg wet							
Xylene P,M	ND	0.0100	mg/kg wet							
Xylenes (Total)	ND	0.0100	mg/kg wet							
Surrogate: 1,2-Dichloroethane-d4	*0.0465*		mg/kg wet	*0.05000*		*93*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.0461*		mg/kg wet	*0.05000*		*92*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0441*		mg/kg wet	*0.05000*		*88*	*70-130*			
Surrogate: Toluene-d8	*0.0450*		mg/kg wet	*0.05000*		*90*	*70-130*			
LCS										
1,1,1,2-Tetrachloroethane	0.0551	0.0050	mg/kg wet	0.05000		110	70-130			
1,1,1-Trichloroethane	0.0502	0.0050	mg/kg wet	0.05000		100	70-130			
1,1,2,2-Tetrachloroethane	0.0476	0.0020	mg/kg wet	0.05000		95	70-130			
1,1,2-Trichloroethane	0.0455	0.0050	mg/kg wet	0.05000		91	70-130			
1,1-Dichloroethane	0.0436	0.0050	mg/kg wet	0.05000		87	70-130			
1,1-Dichloroethene	0.0421	0.0050	mg/kg wet	0.05000		84	70-130			
1,1-Dichloropropene	0.0427	0.0050	mg/kg wet	0.05000		85	70-130			
1,2,3-Trichlorobenzene	0.0519	0.0050	mg/kg wet	0.05000		104	70-130			
1,2,3-Trichloropropane	0.0506	0.0050	mg/kg wet	0.05000		101	70-130			
1,2,4-Trichlorobenzene	0.0502	0.0050	mg/kg wet	0.05000		100	70-130			
1,2,4-Trimethylbenzene	0.0476	0.0050	mg/kg wet	0.05000		95	70-130			
1,2-Dibromo-3-Chloropropane	0.0530	0.0050	mg/kg wet	0.05000		106	70-130			
1,2-Dibromoethane	0.0511	0.0050	mg/kg wet	0.05000		102	70-130			
1,2-Dichlorobenzene	0.0484	0.0050	mg/kg wet	0.05000		97	70-130			
1,2-Dichloroethane	0.0471	0.0050	mg/kg wet	0.05000		94	70-130			
1,2-Dichloropropane	0.0433	0.0050	mg/kg wet	0.05000		87	70-130			
1,3,5-Trimethylbenzene	0.0495	0.0050	mg/kg wet	0.05000		99	70-130			
1,3-Dichlorobenzene	0.0486	0.0050	mg/kg wet	0.05000		97	70-130			
1,3-Dichloropropane	0.0517	0.0050	mg/kg wet	0.05000		103	70-130			
1,4-Dichlorobenzene	0.0497	0.0050	mg/kg wet	0.05000		99	70-130			
1,4-Dioxane	0.892	0.100	mg/kg wet	1.000		89	70-130			
2,2-Dichloropropane	0.0508	0.0050	mg/kg wet	0.05000		102	70-130			
2-Butanone	0.221	0.0100	mg/kg wet	0.2500		88	70-130			
2-Chlorotoluene	0.0477	0.0050	mg/kg wet	0.05000		95	70-130			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase ESS Laboratory Work Order: 1503558

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch CD50146 - 5035										
2-Hexanone	0.252	0.0100	mg/kg wet	0.2500		101	70-130			
4-Chlorotoluene	0.0485	0.0050	mg/kg wet	0.05000		97	70-130			
4-Isopropyltoluene	0.0479	0.0050	mg/kg wet	0.05000		96	70-130			
4-Methyl-2-Pentanone	0.227	0.0100	mg/kg wet	0.2500		91	70-130			
Acetone	0.239	0.0100	mg/kg wet	0.2500		96	70-130			
Benzene	0.0444	0.0050	mg/kg wet	0.05000		89	70-130			
Bromobenzene	0.0506	0.0050	mg/kg wet	0.05000		101	70-130			
Bromochloromethane	0.0476	0.0050	mg/kg wet	0.05000		95	70-130			
Bromodichloromethane	0.0502	0.0050	mg/kg wet	0.05000		100	70-130			
Bromoform	0.0531	0.0050	mg/kg wet	0.05000		106	70-130			
Bromomethane	0.0559	0.0100	mg/kg wet	0.05000		112	70-130			
Carbon Disulfide	0.0469	0.0050	mg/kg wet	0.05000		94	70-130			
Carbon Tetrachloride	0.0520	0.0050	mg/kg wet	0.05000		104	70-130			
Chlorobenzene	0.0491	0.0050	mg/kg wet	0.05000		98	70-130			
Chloroethane	0.0402	0.0100	mg/kg wet	0.05000		80	70-130			
Chloroform	0.0472	0.0050	mg/kg wet	0.05000		94	70-130			
Chloromethane	0.0512	0.0100	mg/kg wet	0.05000		102	70-130			
cis-1,2-Dichloroethene	0.0462	0.0050	mg/kg wet	0.05000		92	70-130			
cis-1,3-Dichloropropene	0.0523	0.0050	mg/kg wet	0.05000		105	70-130			
Dibromochloromethane	0.0509	0.0020	mg/kg wet	0.05000		102	70-130			
Dibromomethane	0.0472	0.0050	mg/kg wet	0.05000		94	70-130			
Dichlorodifluoromethane	0.0474	0.0100	mg/kg wet	0.05000		95	70-130			
Diethyl Ether	0.0456	0.0050	mg/kg wet	0.05000		91	70-130			
Di-isopropyl ether	0.0440	0.0050	mg/kg wet	0.05000		88	70-130			
Ethyl tertiary-butyl ether	0.0437	0.0050	mg/kg wet	0.05000		87	70-130			
Ethylbenzene	0.0483	0.0050	mg/kg wet	0.05000		97	70-130			
Hexachlorobutadiene	0.0556	0.0050	mg/kg wet	0.05000		111	70-130			
Isopropylbenzene	0.0480	0.0050	mg/kg wet	0.05000		96	70-130			
Methyl tert-Butyl Ether	0.0475	0.0050	mg/kg wet	0.05000		95	70-130			
Methylene Chloride	0.0449	0.0100	mg/kg wet	0.05000		90	70-130			
Naphthalene	0.0453	0.0050	mg/kg wet	0.05000		91	70-130			
n-Butylbenzene	0.0474	0.0050	mg/kg wet	0.05000		95	70-130			
n-Propylbenzene	0.0466	0.0050	mg/kg wet	0.05000		93	70-130			
sec-Butylbenzene	0.0479	0.0050	mg/kg wet	0.05000		96	70-130			
Styrene	0.0499	0.0050	mg/kg wet	0.05000		100	70-130			
tert-Butylbenzene	0.0483	0.0050	mg/kg wet	0.05000		97	70-130			
Tertiary-amyl methyl ether	0.0465	0.0050	mg/kg wet	0.05000		93	70-130			
Tetrachloroethene	0.0501	0.0050	mg/kg wet	0.05000		100	70-130			
Tetrahydrofuran	0.0444	0.0050	mg/kg wet	0.05000		89	70-130			
Toluene	0.0446	0.0050	mg/kg wet	0.05000		89	70-130			
trans-1,2-Dichloroethene	0.0413	0.0050	mg/kg wet	0.05000		83	70-130			
trans-1,3-Dichloropropene	0.0519	0.0050	mg/kg wet	0.05000		104	70-130			
Trichloroethene	0.0448	0.0050	mg/kg wet	0.05000		90	70-130			
Trichlorofluoromethane	0.0431	0.0050	mg/kg wet	0.05000		86	70-130			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase ESS Laboratory Work Order: 1503558

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch CD50146 - 5035										
Vinyl Chloride	0.0437	0.0100	mg/kg wet	0.05000		87	70-130			
Xylene O	0.0484	0.0050	mg/kg wet	0.05000		97	70-130			
Xylene P,M	0.0976	0.0100	mg/kg wet	0.1000		98	70-130			
Xylenes (Total)	0.146	0.0100	mg/kg wet							
Surrogate: 1,2-Dichloroethane-d4	*0.0443*		mg/kg wet	*0.05000*		*89*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.0465*		mg/kg wet	*0.05000*		*93*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0447*		mg/kg wet	*0.05000*		*89*	*70-130*			
Surrogate: Toluene-d8	*0.0487*		mg/kg wet	*0.05000*		*97*	*70-130*			
LCS Dup										
1,1,1,2-Tetrachloroethane	0.0559	0.0050	mg/kg wet	0.05000		112	70-130	2	25	
1,1,1-Trichloroethane	0.0516	0.0050	mg/kg wet	0.05000		103	70-130	3	25	
1,1,2,2-Tetrachloroethane	0.0499	0.0020	mg/kg wet	0.05000		100	70-130	5	25	
1,1,2-Trichloroethane	0.0475	0.0050	mg/kg wet	0.05000		95	70-130	4	25	
1,1-Dichloroethane	0.0453	0.0050	mg/kg wet	0.05000		91	70-130	4	25	
1,1-Dichloroethene	0.0435	0.0050	mg/kg wet	0.05000		87	70-130	3	25	
1,1-Dichloropropene	0.0442	0.0050	mg/kg wet	0.05000		88	70-130	3	25	
1,2,3-Trichlorobenzene	0.0518	0.0050	mg/kg wet	0.05000		104	70-130	0.2	25	
1,2,3-Trichloropropane	0.0535	0.0050	mg/kg wet	0.05000		107	70-130	6	25	
1,2,4-Trichlorobenzene	0.0506	0.0050	mg/kg wet	0.05000		101	70-130	0.8	25	
1,2,4-Trimethylbenzene	0.0485	0.0050	mg/kg wet	0.05000		97	70-130	2	25	
1,2-Dibromo-3-Chloropropane	0.0481	0.0050	mg/kg wet	0.05000		96	70-130	10	25	
1,2-Dibromoethane	0.0524	0.0050	mg/kg wet	0.05000		105	70-130	2	25	
1,2-Dichlorobenzene	0.0489	0.0050	mg/kg wet	0.05000		98	70-130	0.9	25	
1,2-Dichloroethane	0.0487	0.0050	mg/kg wet	0.05000		97	70-130	3	25	
1,2-Dichloropropane	0.0446	0.0050	mg/kg wet	0.05000		89	70-130	3	25	
1,3,5-Trimethylbenzene	0.0510	0.0050	mg/kg wet	0.05000		102	70-130	3	25	
1,3-Dichlorobenzene	0.0489	0.0050	mg/kg wet	0.05000		98	70-130	0.7	25	
1,3-Dichloropropane	0.0534	0.0050	mg/kg wet	0.05000		107	70-130	3	25	
1,4-Dichlorobenzene	0.0507	0.0050	mg/kg wet	0.05000		101	70-130	2	25	
1,4-Dioxane	1.03	0.100	mg/kg wet	1.000		103	70-130	14	20	
2,2-Dichloropropane	0.0514	0.0050	mg/kg wet	0.05000		103	70-130	1	25	
2-Butanone	0.278	0.0100	mg/kg wet	0.2500		111	70-130	23	25	
2-Chlorotoluene	0.0495	0.0050	mg/kg wet	0.05000		99	70-130	4	25	
2-Hexanone	0.323	0.0100	mg/kg wet	0.2500		129	70-130	25	25	
4-Chlorotoluene	0.0496	0.0050	mg/kg wet	0.05000		99	70-130	2	25	
4-Isopropyltoluene	0.0490	0.0050	mg/kg wet	0.05000		98	70-130	2	25	
4-Methyl-2-Pentanone	0.239	0.0100	mg/kg wet	0.2500		96	70-130	5	25	
Acetone	0.451	0.0100	mg/kg wet	0.2500		180	70-130	61	25	B+, D+
Benzene	0.0458	0.0050	mg/kg wet	0.05000		92	70-130	3	25	
Bromobenzene	0.0512	0.0050	mg/kg wet	0.05000		102	70-130	1	25	
Bromochloromethane	0.0488	0.0050	mg/kg wet	0.05000		98	70-130	3	25	
Bromodichloromethane	0.0511	0.0050	mg/kg wet	0.05000		102	70-130	2	25	
Bromoform	0.0539	0.0050	mg/kg wet	0.05000		108	70-130	2	25	
Bromomethane	0.0669	0.0100	mg/kg wet	0.05000		134	70-130	18	25	B+

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase ESS Laboratory Work Order: 1503558

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch CD50146 - 5035										
Carbon Disulfide	0.0484	0.0050	mg/kg wet	0.05000		97	70-130	3	25	
Carbon Tetrachloride	0.0535	0.0050	mg/kg wet	0.05000		107	70-130	3	25	
Chlorobenzene	0.0500	0.0050	mg/kg wet	0.05000		100	70-130	2	25	
Chloroethane	0.0412	0.0100	mg/kg wet	0.05000		82	70-130	3	25	
Chloroform	0.0482	0.0050	mg/kg wet	0.05000		96	70-130	2	25	
Chloromethane	0.0537	0.0100	mg/kg wet	0.05000		107	70-130	5	25	
cis-1,2-Dichloroethene	0.0472	0.0050	mg/kg wet	0.05000		94	70-130	2	25	
cis-1,3-Dichloropropene	0.0539	0.0050	mg/kg wet	0.05000		108	70-130	3	25	
Dibromochloromethane	0.0521	0.0020	mg/kg wet	0.05000		104	70-130	2	25	
Dibromomethane	0.0487	0.0050	mg/kg wet	0.05000		97	70-130	3	25	
Dichlorodifluoromethane	0.0481	0.0100	mg/kg wet	0.05000		96	70-130	1	25	
Diethyl Ether	0.0478	0.0050	mg/kg wet	0.05000		96	70-130	5	25	
Di-isopropyl ether	0.0455	0.0050	mg/kg wet	0.05000		91	70-130	3	25	
Ethyl tertiary-butyl ether	0.0450	0.0050	mg/kg wet	0.05000		90	70-130	3	25	
Ethylbenzene	0.0491	0.0050	mg/kg wet	0.05000		98	70-130	2	25	
Hexachlorobutadiene	0.0571	0.0050	mg/kg wet	0.05000		114	70-130	3	25	
Isopropylbenzene	0.0491	0.0050	mg/kg wet	0.05000		98	70-130	2	25	
Methyl tert-Butyl Ether	0.0491	0.0050	mg/kg wet	0.05000		98	70-130	3	25	
Methylene Chloride	0.0463	0.0100	mg/kg wet	0.05000		93	70-130	3	25	
Naphthalene	0.0471	0.0050	mg/kg wet	0.05000		94	70-130	4	25	
n-Butylbenzene	0.0485	0.0050	mg/kg wet	0.05000		97	70-130	2	25	
n-Propylbenzene	0.0485	0.0050	mg/kg wet	0.05000		97	70-130	4	25	
sec-Butylbenzene	0.0493	0.0050	mg/kg wet	0.05000		99	70-130	3	25	
Styrene	0.0500	0.0050	mg/kg wet	0.05000		100	70-130	0.2	25	
tert-Butylbenzene	0.0496	0.0050	mg/kg wet	0.05000		99	70-130	3	25	
Tertiary-amyl methyl ether	0.0486	0.0050	mg/kg wet	0.05000		97	70-130	4	25	
Tetrachloroethene	0.0554	0.0050	mg/kg wet	0.05000		111	70-130	10	25	
Tetrahydrofuran	0.0474	0.0050	mg/kg wet	0.05000		95	70-130	7	25	
Toluene	0.0455	0.0050	mg/kg wet	0.05000		91	70-130	2	25	
trans-1,2-Dichloroethene	0.0421	0.0050	mg/kg wet	0.05000		84	70-130	2	25	
trans-1,3-Dichloropropene	0.0539	0.0050	mg/kg wet	0.05000		108	70-130	4	25	
Trichloroethene	0.0468	0.0050	mg/kg wet	0.05000		94	70-130	4	25	
Trichlorofluoromethane	0.0440	0.0050	mg/kg wet	0.05000		88	70-130	2	25	
Vinyl Chloride	0.0451	0.0100	mg/kg wet	0.05000		90	70-130	3	25	
Xylene O	0.0489	0.0050	mg/kg wet	0.05000		98	70-130	1	25	
Xylene P,M	0.0994	0.0100	mg/kg wet	0.1000		99	70-130	2	25	
Xylenes (Total)	0.148	0.0100	mg/kg wet							
Surrogate: 1,2-Dichloroethane-d4	*0.0457*		mg/kg wet	*0.05000*		*91*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.0466*		mg/kg wet	*0.05000*		*93*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0448*		mg/kg wet	*0.05000*		*90*	*70-130*			
Surrogate: Toluene-d8	*0.0487*		mg/kg wet	*0.05000*		*97*	*70-130*			
Batch CD50239 - 5035										
Blank										
1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase ESS Laboratory Work Order: 1503558

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch CD50239 - 5035										
1,1,1-Trichloroethane	ND	0.0050	mg/kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0020	mg/kg wet							
1,1,2-Trichloroethane	ND	0.0050	mg/kg wet							
1,1-Dichloroethane	ND	0.0050	mg/kg wet							
1,1-Dichloroethene	ND	0.0050	mg/kg wet							
1,1-Dichloropropene	ND	0.0050	mg/kg wet							
1,2,3-Trichlorobenzene	ND	0.0050	mg/kg wet							
1,2,3-Trichloropropane	ND	0.0050	mg/kg wet							
1,2,4-Trichlorobenzene	ND	0.0050	mg/kg wet							
1,2,4-Trimethylbenzene	ND	0.0050	mg/kg wet							
1,2-Dibromo-3-Chloropropane	ND	0.0050	mg/kg wet							
1,2-Dibromoethane	ND	0.0050	mg/kg wet							
1,2-Dichlorobenzene	ND	0.0050	mg/kg wet							
1,2-Dichloroethane	ND	0.0050	mg/kg wet							
1,2-Dichloropropane	ND	0.0050	mg/kg wet							
1,3,5-Trimethylbenzene	ND	0.0050	mg/kg wet							
1,3-Dichlorobenzene	ND	0.0050	mg/kg wet							
1,3-Dichloropropane	ND	0.0050	mg/kg wet							
1,4-Dichlorobenzene	ND	0.0050	mg/kg wet							
1,4-Dioxane	ND	0.100	mg/kg wet							
2,2-Dichloropropane	ND	0.0050	mg/kg wet							
2-Butanone	ND	0.0100	mg/kg wet							
2-Chlorotoluene	ND	0.0050	mg/kg wet							
2-Hexanone	ND	0.0100	mg/kg wet							
4-Chlorotoluene	ND	0.0050	mg/kg wet							
4-Isopropyltoluene	ND	0.0050	mg/kg wet							
4-Methyl-2-Pentanone	ND	0.0100	mg/kg wet							
Acetone	ND	0.0100	mg/kg wet							
Benzene	ND	0.0050	mg/kg wet							
Bromobenzene	ND	0.0050	mg/kg wet							
Bromochloromethane	ND	0.0050	mg/kg wet							
Bromodichloromethane	ND	0.0050	mg/kg wet							
Bromoform	ND	0.0050	mg/kg wet							
Bromomethane	ND	0.0100	mg/kg wet							
Carbon Disulfide	ND	0.0050	mg/kg wet							
Carbon Tetrachloride	ND	0.0050	mg/kg wet							
Chlorobenzene	ND	0.0050	mg/kg wet							
Chloroethane	ND	0.0100	mg/kg wet							
Chloroform	ND	0.0050	mg/kg wet							
Chloromethane	ND	0.0100	mg/kg wet							
cis-1,2-Dichloroethene	ND	0.0050	mg/kg wet							
cis-1,3-Dichloropropene	ND	0.0050	mg/kg wet							
Dibromochloromethane	ND	0.0020	mg/kg wet							
Dibromomethane	ND	0.0050	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase ESS Laboratory Work Order: 1503558

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch CD50239 - 5035										
Dichlorodifluoromethane	ND	0.0100	mg/kg wet							
Diethyl Ether	ND	0.0050	mg/kg wet							
Di-isopropyl ether	ND	0.0050	mg/kg wet							
Ethyl tertiary-butyl ether	ND	0.0050	mg/kg wet							
Ethylbenzene	ND	0.0050	mg/kg wet							
Hexachlorobutadiene	ND	0.0050	mg/kg wet							
Isopropylbenzene	ND	0.0050	mg/kg wet							
Methyl tert-Butyl Ether	ND	0.0050	mg/kg wet							
Methylene Chloride	ND	0.0100	mg/kg wet							
Naphthalene	ND	0.0050	mg/kg wet							
n-Butylbenzene	ND	0.0050	mg/kg wet							
n-Propylbenzene	ND	0.0050	mg/kg wet							
sec-Butylbenzene	ND	0.0050	mg/kg wet							
Styrene	ND	0.0050	mg/kg wet							
tert-Butylbenzene	ND	0.0050	mg/kg wet							
Tertiary-amyl methyl ether	ND	0.0050	mg/kg wet							
Tetrachloroethene	ND	0.0050	mg/kg wet							
Tetrahydrofuran	ND	0.0050	mg/kg wet							
Toluene	ND	0.0050	mg/kg wet							
trans-1,2-Dichloroethene	ND	0.0050	mg/kg wet							
trans-1,3-Dichloropropene	ND	0.0050	mg/kg wet							
Trichloroethene	ND	0.0050	mg/kg wet							
Trichlorofluoromethane	ND	0.0050	mg/kg wet							
Vinyl Chloride	ND	0.0100	mg/kg wet							
Xylene O	ND	0.0050	mg/kg wet							
Xylene P,M	ND	0.0100	mg/kg wet							
Xylenes (Total)	ND	0.0100	mg/kg wet							
Surrogate: 1,2-Dichloroethane-d4	*0.0453*		mg/kg wet	*0.05000*		*91*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.0460*		mg/kg wet	*0.05000*		*92*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0436*		mg/kg wet	*0.05000*		*87*	*70-130*			
Surrogate: Toluene-d8	*0.0446*		mg/kg wet	*0.05000*		*89*	*70-130*			
LCS										
1,1,1,2-Tetrachloroethane	0.0541	0.0050	mg/kg wet	0.05000		108	70-130			
1,1,1-Trichloroethane	0.0498	0.0050	mg/kg wet	0.05000		100	70-130			
1,1,2,2-Tetrachloroethane	0.0491	0.0020	mg/kg wet	0.05000		98	70-130			
1,1,2-Trichloroethane	0.0454	0.0050	mg/kg wet	0.05000		91	70-130			
1,1-Dichloroethane	0.0446	0.0050	mg/kg wet	0.05000		89	70-130			
1,1-Dichloroethene	0.0423	0.0050	mg/kg wet	0.05000		85	70-130			
1,1-Dichloropropene	0.0434	0.0050	mg/kg wet	0.05000		87	70-130			
1,2,3-Trichlorobenzene	0.0512	0.0050	mg/kg wet	0.05000		102	70-130			
1,2,3-Trichloropropane	0.0520	0.0050	mg/kg wet	0.05000		104	70-130			
1,2,4-Trichlorobenzene	0.0508	0.0050	mg/kg wet	0.05000		102	70-130			
1,2,4-Trimethylbenzene	0.0471	0.0050	mg/kg wet	0.05000		94	70-130			
1,2-Dibromo-3-Chloropropane	0.0575	0.0050	mg/kg wet	0.05000		115	70-130			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase ESS Laboratory Work Order: 1503558

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch CD50239 - 5035										
1,2-Dibromoethane	0.0517	0.0050	mg/kg wet	0.05000		103	70-130			
1,2-Dichlorobenzene	0.0477	0.0050	mg/kg wet	0.05000		95	70-130			
1,2-Dichloroethane	0.0480	0.0050	mg/kg wet	0.05000		96	70-130			
1,2-Dichloropropane	0.0430	0.0050	mg/kg wet	0.05000		86	70-130			
1,3,5-Trimethylbenzene	0.0494	0.0050	mg/kg wet	0.05000		99	70-130			
1,3-Dichlorobenzene	0.0478	0.0050	mg/kg wet	0.05000		96	70-130			
1,3-Dichloropropane	0.0525	0.0050	mg/kg wet	0.05000		105	70-130			
1,4-Dichlorobenzene	0.0492	0.0050	mg/kg wet	0.05000		98	70-130			
1,4-Dioxane	0.959	0.100	mg/kg wet	1.000		96	70-130			
2,2-Dichloropropane	0.0514	0.0050	mg/kg wet	0.05000		103	70-130			
2-Butanone	0.232	0.0100	mg/kg wet	0.2500		93	70-130			
2-Chlorotoluene	0.0475	0.0050	mg/kg wet	0.05000		95	70-130			
2-Hexanone	0.270	0.0100	mg/kg wet	0.2500		108	70-130			
4-Chlorotoluene	0.0481	0.0050	mg/kg wet	0.05000		96	70-130			
4-Isopropyltoluene	0.0478	0.0050	mg/kg wet	0.05000		96	70-130			
4-Methyl-2-Pentanone	0.236	0.0100	mg/kg wet	0.2500		94	70-130			
Acetone	0.273	0.0100	mg/kg wet	0.2500		109	70-130			
Benzene	0.0443	0.0050	mg/kg wet	0.05000		89	70-130			
Bromobenzene	0.0489	0.0050	mg/kg wet	0.05000		98	70-130			
Bromochloromethane	0.0469	0.0050	mg/kg wet	0.05000		94	70-130			
Bromodichloromethane	0.0501	0.0050	mg/kg wet	0.05000		100	70-130			
Bromoform	0.0525	0.0050	mg/kg wet	0.05000		105	70-130			
Bromomethane	0.0877	0.0100	mg/kg wet	0.05000		175	70-130			B+
Carbon Disulfide	0.0472	0.0050	mg/kg wet	0.05000		94	70-130			
Carbon Tetrachloride	0.0525	0.0050	mg/kg wet	0.05000		105	70-130			
Chlorobenzene	0.0482	0.0050	mg/kg wet	0.05000		96	70-130			
Chloroethane	0.0412	0.0100	mg/kg wet	0.05000		82	70-130			
Chloroform	0.0477	0.0050	mg/kg wet	0.05000		95	70-130			
Chloromethane	0.0508	0.0100	mg/kg wet	0.05000		102	70-130			
cis-1,2-Dichloroethene	0.0462	0.0050	mg/kg wet	0.05000		92	70-130			
cis-1,3-Dichloropropene	0.0527	0.0050	mg/kg wet	0.05000		105	70-130			
Dibromochloromethane	0.0515	0.0020	mg/kg wet	0.05000		103	70-130			
Dibromomethane	0.0471	0.0050	mg/kg wet	0.05000		94	70-130			
Dichlorodifluoromethane	0.0460	0.0100	mg/kg wet	0.05000		92	70-130			
Diethyl Ether	0.0459	0.0050	mg/kg wet	0.05000		92	70-130			
Di-isopropyl ether	0.0445	0.0050	mg/kg wet	0.05000		89	70-130			
Ethyl tertiary-butyl ether	0.0445	0.0050	mg/kg wet	0.05000		89	70-130			
Ethylbenzene	0.0484	0.0050	mg/kg wet	0.05000		97	70-130			
Hexachlorobutadiene	0.0559	0.0050	mg/kg wet	0.05000		112	70-130			
Isopropylbenzene	0.0477	0.0050	mg/kg wet	0.05000		95	70-130			
Methyl tert-Butyl Ether	0.0477	0.0050	mg/kg wet	0.05000		95	70-130			
Methylene Chloride	0.0443	0.0100	mg/kg wet	0.05000		89	70-130			
Naphthalene	0.0460	0.0050	mg/kg wet	0.05000		92	70-130			
n-Butylbenzene	0.0482	0.0050	mg/kg wet	0.05000		96	70-130			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase ESS Laboratory Work Order: 1503558

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch CD50239 - 5035										
n-Propylbenzene	0.0469	0.0050	mg/kg wet	0.05000		94	70-130			
sec-Butylbenzene	0.0476	0.0050	mg/kg wet	0.05000		95	70-130			
Styrene	0.0492	0.0050	mg/kg wet	0.05000		98	70-130			
tert-Butylbenzene	0.0478	0.0050	mg/kg wet	0.05000		96	70-130			
Tertiary-amyl methyl ether	0.0469	0.0050	mg/kg wet	0.05000		94	70-130			
Tetrachloroethene	0.0494	0.0050	mg/kg wet	0.05000		99	70-130			
Tetrahydrofuran	0.0447	0.0050	mg/kg wet	0.05000		89	70-130			
Toluene	0.0443	0.0050	mg/kg wet	0.05000		89	70-130			
trans-1,2-Dichloroethene	0.0409	0.0050	mg/kg wet	0.05000		82	70-130			
trans-1,3-Dichloropropene	0.0528	0.0050	mg/kg wet	0.05000		106	70-130			
Trichloroethene	0.0454	0.0050	mg/kg wet	0.05000		91	70-130			
Trichlorofluoromethane	0.0433	0.0050	mg/kg wet	0.05000		87	70-130			
Vinyl Chloride	0.0442	0.0100	mg/kg wet	0.05000		88	70-130			
Xylene O	0.0479	0.0050	mg/kg wet	0.05000		96	70-130			
Xylene P,M	0.0967	0.0100	mg/kg wet	0.1000		97	70-130			
Xylenes (Total)	0.145	0.0100	mg/kg wet							
Surrogate: 1,2-Dichloroethane-d4	*0.0464*		mg/kg wet	*0.05000*		*93*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.0469*		mg/kg wet	*0.05000*		*94*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0447*		mg/kg wet	*0.05000*		*89*	*70-130*			
Surrogate: Toluene-d8	*0.0493*		mg/kg wet	*0.05000*		*99*	*70-130*			
LCS Dup										
1,1,1,2-Tetrachloroethane	0.0545	0.0050	mg/kg wet	0.05000		109	70-130	0.8	25	
1,1,1-Trichloroethane	0.0512	0.0050	mg/kg wet	0.05000		102	70-130	3	25	
1,1,2,2-Tetrachloroethane	0.0483	0.0020	mg/kg wet	0.05000		97	70-130	2	25	
1,1,2-Trichloroethane	0.0460	0.0050	mg/kg wet	0.05000		92	70-130	1	25	
1,1-Dichloroethane	0.0452	0.0050	mg/kg wet	0.05000		90	70-130	1	25	
1,1-Dichloroethene	0.0435	0.0050	mg/kg wet	0.05000		87	70-130	3	25	
1,1-Dichloropropene	0.0437	0.0050	mg/kg wet	0.05000		87	70-130	0.9	25	
1,2,3-Trichlorobenzene	0.0506	0.0050	mg/kg wet	0.05000		101	70-130	1	25	
1,2,3-Trichloropropane	0.0510	0.0050	mg/kg wet	0.05000		102	70-130	2	25	
1,2,4-Trichlorobenzene	0.0507	0.0050	mg/kg wet	0.05000		101	70-130	0.08	25	
1,2,4-Trimethylbenzene	0.0477	0.0050	mg/kg wet	0.05000		95	70-130	1	25	
1,2-Dibromo-3-Chloropropane	0.0445	0.0050	mg/kg wet	0.05000		89	70-130	25	25	
1,2-Dibromoethane	0.0509	0.0050	mg/kg wet	0.05000		102	70-130	1	25	
1,2-Dichlorobenzene	0.0477	0.0050	mg/kg wet	0.05000		95	70-130	0.04	25	
1,2-Dichloroethane	0.0490	0.0050	mg/kg wet	0.05000		98	70-130	2	25	
1,2-Dichloropropane	0.0443	0.0050	mg/kg wet	0.05000		89	70-130	3	25	
1,3,5-Trimethylbenzene	0.0498	0.0050	mg/kg wet	0.05000		100	70-130	0.8	25	
1,3-Dichlorobenzene	0.0481	0.0050	mg/kg wet	0.05000		96	70-130	0.7	25	
1,3-Dichloropropane	0.0520	0.0050	mg/kg wet	0.05000		104	70-130	0.9	25	
1,4-Dichlorobenzene	0.0493	0.0050	mg/kg wet	0.05000		99	70-130	0.3	25	
1,4-Dioxane	0.954	0.100	mg/kg wet	1.000		95	70-130	0.5	20	
2,2-Dichloropropane	0.0527	0.0050	mg/kg wet	0.05000		105	70-130	2	25	
2-Butanone	0.233	0.0100	mg/kg wet	0.2500		93	70-130	0.2	25	

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase ESS Laboratory Work Order: 1503558

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch CD50239 - 5035										
2-Chlorotoluene	0.0481	0.0050	mg/kg wet	0.05000		96	70-130	1	25	
2-Hexanone	0.262	0.0100	mg/kg wet	0.2500		105	70-130	3	25	
4-Chlorotoluene	0.0484	0.0050	mg/kg wet	0.05000		97	70-130	0.6	25	
4-Isopropyltoluene	0.0481	0.0050	mg/kg wet	0.05000		96	70-130	0.7	25	
4-Methyl-2-Pentanone	0.232	0.0100	mg/kg wet	0.2500		93	70-130	2	25	
Acetone	0.265	0.0100	mg/kg wet	0.2500		106	70-130	3	25	
Benzene	0.0450	0.0050	mg/kg wet	0.05000		90	70-130	2	25	
Bromobenzene	0.0487	0.0050	mg/kg wet	0.05000		97	70-130	0.3	25	
Bromochloromethane	0.0472	0.0050	mg/kg wet	0.05000		94	70-130	0.6	25	
Bromodichloromethane	0.0509	0.0050	mg/kg wet	0.05000		102	70-130	2	25	
Bromoform	0.0517	0.0050	mg/kg wet	0.05000		103	70-130	2	25	
Bromomethane	0.0784	0.0100	mg/kg wet	0.05000		157	70-130	11	25	B+
Carbon Disulfide	0.0485	0.0050	mg/kg wet	0.05000		97	70-130	3	25	
Carbon Tetrachloride	0.0534	0.0050	mg/kg wet	0.05000		107	70-130	2	25	
Chlorobenzene	0.0487	0.0050	mg/kg wet	0.05000		97	70-130	1	25	
Chloroethane	0.0417	0.0100	mg/kg wet	0.05000		83	70-130	1	25	
Chloroform	0.0479	0.0050	mg/kg wet	0.05000		96	70-130	0.5	25	
Chloromethane	0.0520	0.0100	mg/kg wet	0.05000		104	70-130	2	25	
cis-1,2-Dichloroethene	0.0466	0.0050	mg/kg wet	0.05000		93	70-130	1	25	
cis-1,3-Dichloropropene	0.0535	0.0050	mg/kg wet	0.05000		107	70-130	2	25	
Dibromochloromethane	0.0516	0.0020	mg/kg wet	0.05000		103	70-130	0.3	25	
Dibromomethane	0.0475	0.0050	mg/kg wet	0.05000		95	70-130	0.8	25	
Dichlorodifluoromethane	0.0472	0.0100	mg/kg wet	0.05000		94	70-130	2	25	
Diethyl Ether	0.0466	0.0050	mg/kg wet	0.05000		93	70-130	2	25	
Di-isopropyl ether	0.0454	0.0050	mg/kg wet	0.05000		91	70-130	2	25	
Ethyl tertiary-butyl ether	0.0453	0.0050	mg/kg wet	0.05000		91	70-130	2	25	
Ethylbenzene	0.0485	0.0050	mg/kg wet	0.05000		97	70-130	0.3	25	
Hexachlorobutadiene	0.0557	0.0050	mg/kg wet	0.05000		111	70-130	0.3	25	
Isopropylbenzene	0.0480	0.0050	mg/kg wet	0.05000		96	70-130	0.7	25	
Methyl tert-Butyl Ether	0.0483	0.0050	mg/kg wet	0.05000		97	70-130	1	25	
Methylene Chloride	0.0449	0.0100	mg/kg wet	0.05000		90	70-130	1	25	
Naphthalene	0.0454	0.0050	mg/kg wet	0.05000		91	70-130	1	25	
n-Butylbenzene	0.0485	0.0050	mg/kg wet	0.05000		97	70-130	0.7	25	
n-Propylbenzene	0.0474	0.0050	mg/kg wet	0.05000		95	70-130	1	25	
sec-Butylbenzene	0.0477	0.0050	mg/kg wet	0.05000		95	70-130	0.1	25	
Styrene	0.0497	0.0050	mg/kg wet	0.05000		99	70-130	1	25	
tert-Butylbenzene	0.0481	0.0050	mg/kg wet	0.05000		96	70-130	0.7	25	
Tertiary-amyl methyl ether	0.0477	0.0050	mg/kg wet	0.05000		95	70-130	2	25	
Tetrachloroethene	0.0499	0.0050	mg/kg wet	0.05000		100	70-130	1	25	
Tetrahydrofuran	0.0439	0.0050	mg/kg wet	0.05000		88	70-130	2	25	
Toluene	0.0451	0.0050	mg/kg wet	0.05000		90	70-130	2	25	
trans-1,2-Dichloroethene	0.0418	0.0050	mg/kg wet	0.05000		84	70-130	2	25	
trans-1,3-Dichloropropene	0.0536	0.0050	mg/kg wet	0.05000		107	70-130	2	25	
Trichloroethene	0.0463	0.0050	mg/kg wet	0.05000		93	70-130	2	25	

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase ESS Laboratory Work Order: 1503558

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch CD50239 - 5035										
Trichlorofluoromethane	0.0439	0.0050	mg/kg wet	0.05000		88	70-130	1	25	
Vinyl Chloride	0.0458	0.0100	mg/kg wet	0.05000		92	70-130	4	25	
Xylene O	0.0479	0.0050	mg/kg wet	0.05000		96	70-130	0	25	
Xylene P,M	0.0974	0.0100	mg/kg wet	0.1000		97	70-130	0.7	25	
Xylenes (Total)	0.145	0.0100	mg/kg wet							
Surrogate: 1,2-Dichloroethane-d4	*0.0474*		mg/kg wet	*0.05000*		*95*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.0468*		mg/kg wet	*0.05000*		*94*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0456*		mg/kg wet	*0.05000*		*91*	*70-130*			
Surrogate: Toluene-d8	*0.0491*		mg/kg wet	*0.05000*		*98*	*70-130*			
8082A Polychlorinated Biphenyls (PCB)										
Batch CD50616 - 3540C										
Blank										
Aroclor 1016	ND	0.0100	mg/kg wet							
Aroclor 1221	ND	0.0100	mg/kg wet							
Aroclor 1232	ND	0.0100	mg/kg wet							
Aroclor 1242	ND	0.0100	mg/kg wet							
Aroclor 1248	ND	0.0100	mg/kg wet							
Aroclor 1254	ND	0.0100	mg/kg wet							
Aroclor 1260	ND	0.0100	mg/kg wet							
Aroclor 1262	ND	0.0100	mg/kg wet							
Aroclor 1268	ND	0.0100	mg/kg wet							
Surrogate: Decachlorobiphenyl	*0.00429*		mg/kg wet	*0.005000*		*86*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.00467*		mg/kg wet	*0.005000*		*93*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.00393*		mg/kg wet	*0.005000*		*79*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.00365*		mg/kg wet	*0.005000*		*73*	*30-150*			
LCS										
Aroclor 1016	0.126	0.0100	mg/kg wet	0.1000		126	40-140			
Aroclor 1260	0.118	0.0100	mg/kg wet	0.1000		118	40-140			
Surrogate: Decachlorobiphenyl	*0.00426*		mg/kg wet	*0.005000*		*85*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.00497*		mg/kg wet	*0.005000*		*99*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.00393*		mg/kg wet	*0.005000*		*79*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.00396*		mg/kg wet	*0.005000*		*79*	*30-150*			
LCS Dup										
Aroclor 1016	0.139	0.0100	mg/kg wet	0.1000		139	40-140	9	30	
Aroclor 1260	0.130	0.0100	mg/kg wet	0.1000		130	40-140	10	30	
Surrogate: Decachlorobiphenyl	*0.00441*		mg/kg wet	*0.005000*		*88*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.00506*		mg/kg wet	*0.005000*		*101*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.00411*		mg/kg wet	*0.005000*		*82*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.00414*		mg/kg wet	*0.005000*		*83*	*30-150*			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase ESS Laboratory Work Order: 1503558

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D Semi-Volatile Organic Compounds										
Batch CD50739 - 3546										
Blank										
1,2,4-Trichlorobenzene	ND	0.333	mg/kg wet							
1,2-Dichlorobenzene	ND	0.333	mg/kg wet							
1,3-Dichlorobenzene	ND	0.333	mg/kg wet							
1,4-Dichlorobenzene	ND	0.333	mg/kg wet							
2,4,5-Trichlorophenol	ND	0.333	mg/kg wet							
2,4,6-Trichlorophenol	ND	0.333	mg/kg wet							
2,4-Dichlorophenol	ND	0.333	mg/kg wet							
2,4-Dimethylphenol	ND	0.333	mg/kg wet							
2,4-Dinitrophenol	ND	1.67	mg/kg wet							
2,4-Dinitrotoluene	ND	0.333	mg/kg wet							
2,6-Dinitrotoluene	ND	0.333	mg/kg wet							
2-Chloronaphthalene	ND	0.333	mg/kg wet							
2-Chlorophenol	ND	0.333	mg/kg wet							
2-Methylphenol	ND	0.333	mg/kg wet							
2-Nitrophenol	ND	0.333	mg/kg wet							
3,3´-Dichlorobenzidine	ND	0.667	mg/kg wet							
3+4-Methylphenol	ND	0.667	mg/kg wet							
4-Bromophenyl-phenylether	ND	0.333	mg/kg wet							
4-Chloroaniline	ND	0.667	mg/kg wet							
4-Nitrophenol	ND	1.67	mg/kg wet							
Acetophenone	ND	0.667	mg/kg wet							
Aniline	ND	1.67	mg/kg wet							
Azobenzene	ND	0.333	mg/kg wet							
bis(2-Chloroethoxy)methane	ND	0.333	mg/kg wet							
bis(2-Chloroethyl)ether	ND	0.333	mg/kg wet							
bis(2-chloroisopropyl)Ether	ND	0.333	mg/kg wet							
bis(2-Ethylhexyl)phthalate	ND	0.333	mg/kg wet							
Butylbenzylphthalate	ND	0.333	mg/kg wet							
Dibenzofuran	ND	0.333	mg/kg wet							
Diethylphthalate	ND	0.333	mg/kg wet							
Dimethylphthalate	ND	0.333	mg/kg wet							
Di-n-butylphthalate	ND	0.333	mg/kg wet							
Di-n-octylphthalate	ND	0.333	mg/kg wet							
Hexachlorobutadiene	ND	0.333	mg/kg wet							
Hexachloroethane	ND	0.333	mg/kg wet							
Isophorone	ND	0.333	mg/kg wet							
Nitrobenzene	ND	0.333	mg/kg wet							
N-Nitrosodimethylamine	ND	0.333	mg/kg wet							
Pentachlorophenol	ND	1.67	mg/kg wet							
Phenol	ND	0.333	mg/kg wet							
Surrogate: 1,2-Dichlorobenzene-d4	*2.24*		mg/kg wet	*3.333*		*67*	*30-130*			
Surrogate: 2,4,6-Tribromophenol	*3.04*		mg/kg wet	*5.000*		*61*	*30-130*			
Surrogate: 2-Chlorophenol-d4	*3.42*		mg/kg wet	*5.000*		*68*	*30-130*			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase ESS Laboratory Work Order: 1503558

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D Semi-Volatile Organic Compounds										
Batch CD50739 - 3546										
Surrogate: 2-Fluorobiphenyl	*2.33*		mg/kg wet	*3.333*		*70*	*30-130*			
Surrogate: 2-Fluorophenol	*3.31*		mg/kg wet	*5.000*		*66*	*30-130*			
Surrogate: Nitrobenzene-d5	*2.20*		mg/kg wet	*3.333*		*66*	*30-130*			
Surrogate: Phenol-d6	*3.45*		mg/kg wet	*5.000*		*69*	*30-130*			
Surrogate: p-Terphenyl-d14	*3.81*		mg/kg wet	*3.333*		*114*	*30-130*			
LCS										
1,2,4-Trichlorobenzene	1.93	0.333	mg/kg wet	3.333		58	40-140			
1,2-Dichlorobenzene	1.76	0.333	mg/kg wet	3.333		53	40-140			
1,3-Dichlorobenzene	1.74	0.333	mg/kg wet	3.333		52	40-140			
1,4-Dichlorobenzene	1.73	0.333	mg/kg wet	3.333		52	40-140			
2,4,5-Trichlorophenol	2.96	0.333	mg/kg wet	3.333		89	30-130			
2,4,6-Trichlorophenol	2.74	0.333	mg/kg wet	3.333		82	30-130			
2,4-Dichlorophenol	2.42	0.333	mg/kg wet	3.333		73	30-130			
2,4-Dimethylphenol	2.42	0.333	mg/kg wet	3.333		73	30-130			
2,4-Dinitrophenol	2.31	1.67	mg/kg wet	3.333		69	30-130			
2,4-Dinitrotoluene	2.89	0.333	mg/kg wet	3.333		87	40-140			
2,6-Dinitrotoluene	2.75	0.333	mg/kg wet	3.333		82	40-140			
2-Chloronaphthalene	2.12	0.333	mg/kg wet	3.333		64	40-140			
2-Chlorophenol	1.92	0.333	mg/kg wet	3.333		58	30-130			
2-Methylphenol	2.10	0.333	mg/kg wet	3.333		63	30-130			
2-Nitrophenol	2.15	0.333	mg/kg wet	3.333		65	30-130			
3,3´-Dichlorobenzidine	2.34	0.667	mg/kg wet	3.333		70	40-140			
3+4-Methylphenol	4.56	0.667	mg/kg wet	6.667		68	30-130			
4-Bromophenyl-phenylether	3.08	0.333	mg/kg wet	3.333		92	40-140			
4-Chloroaniline	1.64	0.667	mg/kg wet	3.333		49	40-140			
4-Nitrophenol	2.54	1.67	mg/kg wet	3.333		76	30-130			
Acetophenone	2.18	0.667	mg/kg wet	3.333		66	40-140			
Aniline	1.31	1.67	mg/kg wet	3.333		39	40-140			B-
Azobenzene	2.89	0.333	mg/kg wet	3.333		87	40-140			
bis(2-Chloroethoxy)methane	2.13	0.333	mg/kg wet	3.333		64	40-140			
bis(2-Chloroethyl)ether	1.90	0.333	mg/kg wet	3.333		57	40-140			
bis(2-chloroisopropyl)Ether	1.88	0.333	mg/kg wet	3.333		56	40-140			
bis(2-Ethylhexyl)phthalate	3.18	0.333	mg/kg wet	3.333		95	40-140			
Butylbenzylphthalate	3.02	0.333	mg/kg wet	3.333		91	40-140			
Dibenzofuran	2.54	0.333	mg/kg wet	3.333		76	40-140			
Diethylphthalate	2.79	0.333	mg/kg wet	3.333		84	40-140			
Dimethylphthalate	2.68	0.333	mg/kg wet	3.333		80	40-140			
Di-n-butylphthalate	3.19	0.333	mg/kg wet	3.333		96	40-140			
Di-n-octylphthalate	3.32	0.333	mg/kg wet	3.333		100	40-140			
Hexachlorobutadiene	1.89	0.333	mg/kg wet	3.333		57	40-140			
Hexachloroethane	1.69	0.333	mg/kg wet	3.333		51	40-140			
Isophorone	2.06	0.333	mg/kg wet	3.333		62	40-140			
Nitrobenzene	1.93	0.333	mg/kg wet	3.333		58	40-140			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase ESS Laboratory Work Order: 1503558

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D Semi-Volatile Organic Compounds										
Batch CD50739 - 3546										
N-Nitrosodimethylamine	1.70	0.333	mg/kg wet	3.333		51	40-140			
Pentachlorophenol	3.12	1.67	mg/kg wet	3.333		93	30-130			
Phenol	2.00	0.333	mg/kg wet	3.333		60	30-130			
Surrogate: 1,2-Dichlorobenzene-d4	*1.98*		mg/kg wet	*3.333*		*60*	*30-130*			
Surrogate: 2,4,6-Tribromophenol	*5.35*		mg/kg wet	*5.000*		*107*	*30-130*			
Surrogate: 2-Chlorophenol-d4	*3.28*		mg/kg wet	*5.000*		*66*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*2.68*		mg/kg wet	*3.333*		*80*	*30-130*			
Surrogate: 2-Fluorophenol	*3.10*		mg/kg wet	*5.000*		*62*	*30-130*			
Surrogate: Nitrobenzene-d5	*2.18*		mg/kg wet	*3.333*		*65*	*30-130*			
Surrogate: Phenol-d6	*3.47*		mg/kg wet	*5.000*		*69*	*30-130*			
Surrogate: p-Terphenyl-d14	*3.44*		mg/kg wet	*3.333*		*103*	*30-130*			
LCS Dup										
1,2,4-Trichlorobenzene	1.83	0.333	mg/kg wet	3.333		55	40-140	5	30	
1,2-Dichlorobenzene	1.67	0.333	mg/kg wet	3.333		50	40-140	5	30	
1,3-Dichlorobenzene	1.67	0.333	mg/kg wet	3.333		50	40-140	4	30	
1,4-Dichlorobenzene	1.65	0.333	mg/kg wet	3.333		49	40-140	5	30	
2,4,5-Trichlorophenol	2.90	0.333	mg/kg wet	3.333		87	30-130	2	30	
2,4,6-Trichlorophenol	2.65	0.333	mg/kg wet	3.333		79	30-130	3	30	
2,4-Dichlorophenol	2.24	0.333	mg/kg wet	3.333		67	30-130	8	30	
2,4-Dimethylphenol	2.26	0.333	mg/kg wet	3.333		68	30-130	7	30	
2,4-Dinitrophenol	2.49	1.67	mg/kg wet	3.333		75	30-130	7	30	
2,4-Dinitrotoluene	2.98	0.333	mg/kg wet	3.333		89	40-140	3	30	
2,6-Dinitrotoluene	2.75	0.333	mg/kg wet	3.333		82	40-140	0.04	30	
2-Chloronaphthalene	2.02	0.333	mg/kg wet	3.333		61	40-140	5	30	
2-Chlorophenol	1.77	0.333	mg/kg wet	3.333		53	30-130	8	30	
2-Methylphenol	1.94	0.333	mg/kg wet	3.333		58	30-130	8	30	
2-Nitrophenol	2.06	0.333	mg/kg wet	3.333		62	30-130	4	30	
3,3´-Dichlorobenzidine	2.32	0.667	mg/kg wet	3.333		69	40-140	0.8	30	
3+4-Methylphenol	4.17	0.667	mg/kg wet	6.667		63	30-130	9	30	
4-Bromophenyl-phenylether	2.83	0.333	mg/kg wet	3.333		85	40-140	9	30	
4-Chloroaniline	1.57	0.667	mg/kg wet	3.333		47	40-140	4	30	
4-Nitrophenol	2.74	1.67	mg/kg wet	3.333		82	30-130	8	30	
Acetophenone	1.99	0.667	mg/kg wet	3.333		60	40-140	10	30	
Aniline	1.27	1.67	mg/kg wet	3.333		38	40-140	4	30	B-
Azobenzene	2.64	0.333	mg/kg wet	3.333		79	40-140	9	30	
bis(2-Chloroethoxy)methane	1.98	0.333	mg/kg wet	3.333		60	40-140	7	30	
bis(2-Chloroethyl)ether	1.78	0.333	mg/kg wet	3.333		53	40-140	7	30	
bis(2-chloroisopropyl)Ether	1.71	0.333	mg/kg wet	3.333		51	40-140	9	30	
bis(2-Ethylhexyl)phthalate	3.19	0.333	mg/kg wet	3.333		96	40-140	0.4	30	
Butylbenzylphthalate	2.95	0.333	mg/kg wet	3.333		89	40-140	2	30	
Dibenzofuran	2.48	0.333	mg/kg wet	3.333		75	40-140	2	30	
Diethylphthalate	2.84	0.333	mg/kg wet	3.333		85	40-140	2	30	
Dimethylphthalate	2.64	0.333	mg/kg wet	3.333		79	40-140	1	30	
Di-n-butylphthalate	3.24	0.333	mg/kg wet	3.333		97	40-140	2	30	

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase ESS Laboratory Work Order: 1503558

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D Semi-Volatile Organic Compounds										
Batch CD50739 - 3546										
Di-n-octylphthalate	3.41	0.333	mg/kg wet	3.333		102	40-140	3	30	
Hexachlorobutadiene	1.82	0.333	mg/kg wet	3.333		55	40-140	3	30	
Hexachloroethane	1.62	0.333	mg/kg wet	3.333		49	40-140	4	30	
Isophorone	1.92	0.333	mg/kg wet	3.333		58	40-140	7	30	
Nitrobenzene	1.84	0.333	mg/kg wet	3.333		55	40-140	5	30	
N-Nitrosodimethylamine	1.62	0.333	mg/kg wet	3.333		49	40-140	5	30	
Pentachlorophenol	3.09	1.67	mg/kg wet	3.333		93	30-130	0.7	30	
Phenol	1.84	0.333	mg/kg wet	3.333		55	30-130	8	30	
Surrogate: 1,2-Dichlorobenzene-d4	*1.82*		mg/kg wet	*3.333*		*55*	*30-130*			
Surrogate: 2,4,6-Tribromophenol	*4.82*		mg/kg wet	*5.000*		*96*	*30-130*			
Surrogate: 2-Chlorophenol-d4	*2.92*		mg/kg wet	*5.000*		*58*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*2.42*		mg/kg wet	*3.333*		*73*	*30-130*			
Surrogate: 2-Fluorophenol	*2.77*		mg/kg wet	*5.000*		*55*	*30-130*			
Surrogate: Nitrobenzene-d5	*2.02*		mg/kg wet	*3.333*		*61*	*30-130*			
Surrogate: Phenol-d6	*3.07*		mg/kg wet	*5.000*		*61*	*30-130*			
Surrogate: p-Terphenyl-d14	*3.12*		mg/kg wet	*3.333*		*94*	*30-130*			
8270D(SIM) Polynuclear Aromatic Hydrocarbons										
Batch CD50136 - 3546										
Blank										
2-Methylnaphthalene	ND	0.012	mg/kg wet							
Acenaphthene	ND	0.012	mg/kg wet							
Acenaphthylene	ND	0.012	mg/kg wet							
Anthracene	ND	0.012	mg/kg wet							
Benzo(a)anthracene	ND	0.012	mg/kg wet							
Benzo(a)pyrene	ND	0.012	mg/kg wet							
Benzo(b)fluoranthene	ND	0.012	mg/kg wet							
Benzo(g,h,i)perylene	ND	0.012	mg/kg wet							
Benzo(k)fluoranthene	ND	0.012	mg/kg wet							
Chrysene	ND	0.012	mg/kg wet							
Dibenzo(a,h)Anthracene	ND	0.012	mg/kg wet							
Fluoranthene	ND	0.012	mg/kg wet							
Fluorene	ND	0.012	mg/kg wet							
Hexachlorobenzene	ND	0.012	mg/kg wet							
Indeno(1,2,3-cd)Pyrene	ND	0.012	mg/kg wet							
Naphthalene	ND	0.012	mg/kg wet							
Phenanthrene	ND	0.012	mg/kg wet							
Pyrene	ND	0.012	mg/kg wet							
Surrogate: 1,2-Dichlorobenzene-d4	*0.165*		mg/kg wet	*0.2500*		*66*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*0.193*		mg/kg wet	*0.2500*		*77*	*30-130*			
Surrogate: Nitrobenzene-d5	*0.214*		mg/kg wet	*0.2500*		*85*	*30-130*			
Surrogate: p-Terphenyl-d14	*0.235*		mg/kg wet	*0.2500*		*94*	*30-130*			
LCS										
2-Methylnaphthalene	0.103	0.012	mg/kg wet	0.2000		52	40-140			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase ESS Laboratory Work Order: 1503558

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D(SIM) Polynuclear Aromatic Hydrocarbons										
Batch CD50136 - 3546										
Acenaphthene	0.120	0.012	mg/kg wet	0.2000		60	40-140			
Acenaphthylene	0.118	0.012	mg/kg wet	0.2000		59	40-140			
Anthracene	0.134	0.012	mg/kg wet	0.2000		67	40-140			
Benzo(a)anthracene	0.143	0.012	mg/kg wet	0.2000		72	40-140			
Benzo(a)pyrene	0.148	0.012	mg/kg wet	0.2000		74	40-140			
Benzo(b)fluoranthene	0.152	0.012	mg/kg wet	0.2000		76	40-140			
Benzo(g,h,i)perylene	0.149	0.012	mg/kg wet	0.2000		74	40-140			
Benzo(k)fluoranthene	0.151	0.012	mg/kg wet	0.2000		75	40-140			
Chrysene	0.153	0.012	mg/kg wet	0.2000		77	40-140			
Dibenzo(a,h)Anthracene	0.158	0.012	mg/kg wet	0.2000		79	40-140			
Fluoranthene	0.147	0.012	mg/kg wet	0.2000		73	40-140			
Fluorene	0.133	0.012	mg/kg wet	0.2000		66	40-140			
Hexachlorobenzene	0.138	0.012	mg/kg wet	0.2000		69	40-140			
Indeno(1,2,3-cd)Pyrene	0.147	0.012	mg/kg wet	0.2000		73	40-140			
Naphthalene	0.100	0.012	mg/kg wet	0.2000		50	40-140			
Phenanthrene	0.127	0.012	mg/kg wet	0.2000		63	40-140			
Pyrene	0.151	0.012	mg/kg wet	0.2000		75	40-140			
Surrogate: 1,2-Dichlorobenzene-d4	*0.148*		mg/kg wet	*0.2500*		*59*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*0.181*		mg/kg wet	*0.2500*		*72*	*30-130*			
Surrogate: Nitrobenzene-d5	*0.184*		mg/kg wet	*0.2500*		*74*	*30-130*			
Surrogate: p-Terphenyl-d14	*0.238*		mg/kg wet	*0.2500*		*95*	*30-130*			
LCS Dup										
2-Methylnaphthalene	0.110	0.012	mg/kg wet	0.2000		55	40-140	7	30	
Acenaphthene	0.129	0.012	mg/kg wet	0.2000		65	40-140	7	30	
Acenaphthylene	0.126	0.012	mg/kg wet	0.2000		63	40-140	6	30	
Anthracene	0.132	0.012	mg/kg wet	0.2000		66	40-140	2	30	
Benzo(a)anthracene	0.144	0.012	mg/kg wet	0.2000		72	40-140	0.3	30	
Benzo(a)pyrene	0.144	0.012	mg/kg wet	0.2000		72	40-140	3	30	
Benzo(b)fluoranthene	0.157	0.012	mg/kg wet	0.2000		78	40-140	3	30	
Benzo(g,h,i)perylene	0.156	0.012	mg/kg wet	0.2000		78	40-140	4	30	
Benzo(k)fluoranthene	0.160	0.012	mg/kg wet	0.2000		80	40-140	6	30	
Chrysene	0.160	0.012	mg/kg wet	0.2000		80	40-140	4	30	
Dibenzo(a,h)Anthracene	0.162	0.012	mg/kg wet	0.2000		81	40-140	3	30	
Fluoranthene	0.149	0.012	mg/kg wet	0.2000		74	40-140	2	30	
Fluorene	0.142	0.012	mg/kg wet	0.2000		71	40-140	7	30	
Hexachlorobenzene	0.153	0.012	mg/kg wet	0.2000		77	40-140	11	30	
Indeno(1,2,3-cd)Pyrene	0.158	0.012	mg/kg wet	0.2000		79	40-140	8	30	
Naphthalene	0.110	0.012	mg/kg wet	0.2000		55	40-140	9	30	
Phenanthrene	0.129	0.012	mg/kg wet	0.2000		64	40-140	2	30	
Pyrene	0.149	0.012	mg/kg wet	0.2000		75	40-140	1	30	
Surrogate: 1,2-Dichlorobenzene-d4	*0.146*		mg/kg wet	*0.2500*		*59*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*0.182*		mg/kg wet	*0.2500*		*73*	*30-130*			
Surrogate: Nitrobenzene-d5	*0.184*		mg/kg wet	*0.2500*		*74*	*30-130*			
Surrogate: p-Terphenyl-d14	*0.218*		mg/kg wet	*0.2500*		*87*	*30-130*			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase ESS Laboratory Work Order: 1503558

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D(SIM) Polynuclear Aromatic Hydrocarbons										
Batch CD50227 - 3546										
Blank										
2-Methylnaphthalene	ND	0.017	mg/kg wet							
Acenaphthene	ND	0.017	mg/kg wet							
Acenaphthylene	ND	0.017	mg/kg wet							
Anthracene	ND	0.017	mg/kg wet							
Benzo(a)anthracene	ND	0.017	mg/kg wet							
Benzo(a)pyrene	ND	0.017	mg/kg wet							
Benzo(b)fluoranthene	ND	0.017	mg/kg wet							
Benzo(g,h,i)perylene	ND	0.017	mg/kg wet							
Benzo(k)fluoranthene	ND	0.017	mg/kg wet							
Chrysene	ND	0.017	mg/kg wet							
Dibenzo(a,h)Anthracene	ND	0.017	mg/kg wet							
Fluoranthene	ND	0.017	mg/kg wet							
Fluorene	ND	0.017	mg/kg wet							
Hexachlorobenzene	ND	0.017	mg/kg wet							
Indeno(1,2,3-cd)Pyrene	ND	0.017	mg/kg wet							
Naphthalene	ND	0.017	mg/kg wet							
Phenanthrene	ND	0.017	mg/kg wet							
Pyrene	ND	0.017	mg/kg wet							
Surrogate: 1,2-Dichlorobenzene-d4	*0.295*		mg/kg wet	*0.3333*		*89*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*0.325*		mg/kg wet	*0.3333*		*97*	*30-130*			
Surrogate: Nitrobenzene-d5	*0.307*		mg/kg wet	*0.3333*		*92*	*30-130*			
Surrogate: p-Terphenyl-d14	*0.321*		mg/kg wet	*0.3333*		*96*	*30-130*			
LCS										
2-Methylnaphthalene	0.129	0.017	mg/kg wet	0.2667		48	40-140			
Acenaphthene	0.219	0.017	mg/kg wet	0.2667		82	40-140			
Acenaphthylene	0.027	0.017	mg/kg wet	0.2667		10	40-140			B-
Anthracene	0.125	0.017	mg/kg wet	0.2667		47	40-140			
Benzo(a)anthracene	0.180	0.017	mg/kg wet	0.2667		68	40-140			
Benzo(a)pyrene	0.127	0.017	mg/kg wet	0.2667		48	40-140			
Benzo(b)fluoranthene	0.279	0.017	mg/kg wet	0.2667		105	40-140			
Benzo(g,h,i)perylene	0.273	0.017	mg/kg wet	0.2667		102	40-140			
Benzo(k)fluoranthene	0.268	0.017	mg/kg wet	0.2667		101	40-140			
Chrysene	0.221	0.017	mg/kg wet	0.2667		83	40-140			
Dibenzo(a,h)Anthracene	0.282	0.017	mg/kg wet	0.2667		106	40-140			
Fluoranthene	0.218	0.017	mg/kg wet	0.2667		82	40-140			
Fluorene	0.235	0.017	mg/kg wet	0.2667		88	40-140			
Hexachlorobenzene	0.213	0.017	mg/kg wet	0.2667		80	40-140			
Indeno(1,2,3-cd)Pyrene	0.282	0.017	mg/kg wet	0.2667		106	40-140			
Naphthalene	0.179	0.017	mg/kg wet	0.2667		67	40-140			
Phenanthrene	0.212	0.017	mg/kg wet	0.2667		79	40-140			
Pyrene	0.214	0.017	mg/kg wet	0.2667		80	40-140			
Surrogate: 1,2-Dichlorobenzene-d4	*0.269*		mg/kg wet	*0.3333*		*81*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*0.315*		mg/kg wet	*0.3333*		*94*	*30-130*			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase ESS Laboratory Work Order: 1503558

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D(SIM) Polynuclear Aromatic Hydrocarbons										
Batch CD50227 - 3546										
Surrogate: Nitrobenzene-d5	*0.282*		mg/kg wet	*0.3333*		*85*	*30-130*			
Surrogate: p-Terphenyl-d14	*0.329*		mg/kg wet	*0.3333*		*99*	*30-130*			
LCS Dup										
2-Methylnaphthalene	0.164	0.017	mg/kg wet	0.2667		62	40-140	24	30	
Acenaphthene	0.197	0.017	mg/kg wet	0.2667		74	40-140	11	30	
Acenaphthylene	0.192	0.017	mg/kg wet	0.2667		72	40-140	151	30	D+
Anthracene	0.195	0.017	mg/kg wet	0.2667		73	40-140	44	30	D+
Benzo(a)anthracene	0.189	0.017	mg/kg wet	0.2667		71	40-140	5	30	
Benzo(a)pyrene	0.210	0.017	mg/kg wet	0.2667		79	40-140	49	30	D+
Benzo(b)fluoranthene	0.218	0.017	mg/kg wet	0.2667		82	40-140	25	30	
Benzo(g,h,i)perylene	0.210	0.017	mg/kg wet	0.2667		79	40-140	26	30	
Benzo(k)fluoranthene	0.203	0.017	mg/kg wet	0.2667		76	40-140	27	30	
Chrysene	0.207	0.017	mg/kg wet	0.2667		78	40-140	6	30	
Dibenzo(a,h)Anthracene	0.210	0.017	mg/kg wet	0.2667		79	40-140	29	30	
Fluoranthene	0.201	0.017	mg/kg wet	0.2667		75	40-140	8	30	
Fluorene	0.210	0.017	mg/kg wet	0.2667		79	40-140	11	30	
Hexachlorobenzene	0.184	0.017	mg/kg wet	0.2667		69	40-140	14	30	
Indeno(1,2,3-cd)Pyrene	0.214	0.017	mg/kg wet	0.2667		80	40-140	28	30	
Naphthalene	0.161	0.017	mg/kg wet	0.2667		60	40-140	10	30	
Phenanthrene	0.193	0.017	mg/kg wet	0.2667		72	40-140	10	30	
Pyrene	0.208	0.017	mg/kg wet	0.2667		78	40-140	3	30	
Surrogate: 1,2-Dichlorobenzene-d4	*0.253*		mg/kg wet	*0.3333*		*76*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*0.286*		mg/kg wet	*0.3333*		*86*	*30-130*			
Surrogate: Nitrobenzene-d5	*0.259*		mg/kg wet	*0.3333*		*78*	*30-130*			
Surrogate: p-Terphenyl-d14	*0.342*		mg/kg wet	*0.3333*		*103*	*30-130*			
Classical Chemistry										
Batch CD50128 - General Preparation										
Blank										
Reactive Cyanide	ND	2.0	mg/kg							
Reactive Sulfide	ND	2.0	mg/kg							
LCS										
Reactive Cyanide	3.8	2.0	mg/kg	100.3		4	0.68-5.41			
Reactive Sulfide	0.2	2.0	mg/kg	10.00		2	0-44			
Batch CD50609 - General Preparation										
Blank										
Hexavalent Chromium	ND	0.7	mg/kg wet							
LCS										
Hexavalent Chromium	32.4	0.7	mg/kg wet	33.32		97	80-120			
LCS Dup										
Hexavalent Chromium	32.6	0.7	mg/kg wet	33.32		98	80-120	0.5	20	

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase ESS Laboratory Work Order: 1503558

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Classical Chemistry										
Batch CD50609 - General Preparation										
Reference										
Hexavalent Chromium	109	2.0	mg/kg wet	125.0		87	61-139			
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CD50135 - 3546										
Blank										
C19-C36 Aliphatics1	ND	15.0	mg/kg wet							
C9-C18 Aliphatics1	ND	15.0	mg/kg wet							
Decane (C10)	ND	0.5	mg/kg wet							
Docosane (C22)	ND	0.5	mg/kg wet							
Dodecane (C12)	ND	0.5	mg/kg wet							
Eicosane (C20)	ND	0.5	mg/kg wet							
Hexacosane (C26)	ND	0.5	mg/kg wet							
Hexadecane (C16)	ND	0.5	mg/kg wet							
Hexatriacontane (C36)	ND	0.5	mg/kg wet							
Nonadecane (C19)	ND	0.5	mg/kg wet							
Nonane (C9)	ND	0.5	mg/kg wet							
Octacosane (C28)	ND	0.5	mg/kg wet							
Octadecane (C18)	ND	0.5	mg/kg wet							
Tetracosane (C24)	ND	0.5	mg/kg wet							
Tetradecane (C14)	ND	0.5	mg/kg wet							
Triacontane (C30)	ND	0.5	mg/kg wet							
Surrogate: 1-Chlorooctadecane	*1.31*		mg/kg wet	*2.000*		*66*	*40-140*			
Blank										
2-Methylnaphthalene	ND	0.20	mg/kg wet							
Acenaphthene	ND	0.40	mg/kg wet							
Acenaphthylene	ND	0.20	mg/kg wet							
Anthracene	ND	0.40	mg/kg wet							
Benzo(a)anthracene	ND	0.40	mg/kg wet							
Benzo(a)pyrene	ND	0.40	mg/kg wet							
Benzo(b)fluoranthene	ND	0.40	mg/kg wet							
Benzo(g,h,i)perylene	ND	0.40	mg/kg wet							
Benzo(k)fluoranthene	ND	0.40	mg/kg wet							
C11-C22 Aromatics1,2	ND	15.0	mg/kg wet							
C11-C22 Unadjusted Aromatics1	ND	15.0	mg/kg wet							
Chrysene	ND	0.40	mg/kg wet							
Dibenzo(a,h)Anthracene	ND	0.20	mg/kg wet							
Fluoranthene	ND	0.40	mg/kg wet							
Fluorene	ND	0.40	mg/kg wet							
Indeno(1,2,3-cd)Pyrene	ND	0.40	mg/kg wet							
Naphthalene	ND	0.40	mg/kg wet							
Phenanthrene	ND	0.40	mg/kg wet							
Pyrene	ND	0.40	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase ESS Laboratory Work Order: 1503558

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CD50135 - 3546										
Surrogate: 2-Bromonaphthalene	*1.80*		mg/kg wet	*2.000*		*90*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*1.73*		mg/kg wet	*2.000*		*87*	*40-140*			
Surrogate: O-Terphenyl	*1.48*		mg/kg wet	*2.000*		*74*	*40-140*			
LCS										
C19-C36 Aliphatics1	14.3	15.0	mg/kg wet	16.00		89	40-140			
C9-C18 Aliphatics1	8.1	15.0	mg/kg wet	12.00		68	40-140			
Decane (C10)	0.9	0.5	mg/kg wet	2.000		47	40-140			
Docosane (C22)	1.7	0.5	mg/kg wet	2.000		84	40-140			
Dodecane (C12)	0.9	0.5	mg/kg wet	2.000		47	40-140			
Eicosane (C20)	1.6	0.5	mg/kg wet	2.000		81	40-140			
Hexacosane (C26)	1.7	0.5	mg/kg wet	2.000		85	40-140			
Hexadecane (C16)	1.4	0.5	mg/kg wet	2.000		69	40-140			
Hexatriacontane (C36)	1.7	0.5	mg/kg wet	2.000		83	40-140			
Nonadecane (C19)	1.6	0.5	mg/kg wet	2.000		82	40-140			
Nonane (C9)	0.8	0.5	mg/kg wet	2.000		38	30-140			
Octacosane (C28)	1.7	0.5	mg/kg wet	2.000		85	40-140			
Octadecane (C18)	1.6	0.5	mg/kg wet	2.000		78	40-140			
Tetracosane (C24)	1.6	0.5	mg/kg wet	2.000		81	40-140			
Tetradecane (C14)	1.2	0.5	mg/kg wet	2.000		58	40-140			
Triacontane (C30)	1.7	0.5	mg/kg wet	2.000		83	40-140			
Surrogate: 1-Chlorooctadecane	*1.33*		mg/kg wet	*2.000*		*67*	*40-140*			
LCS										
2-Methylnaphthalene	0.98	0.20	mg/kg wet	2.000		49	40-140			
Acenaphthene	1.06	0.40	mg/kg wet	2.000		53	40-140			
Acenaphthylene	1.06	0.20	mg/kg wet	2.000		53	40-140			
Anthracene	1.29	0.40	mg/kg wet	2.000		64	40-140			
Benzo(a)anthracene	1.29	0.40	mg/kg wet	2.000		65	40-140			
Benzo(a)pyrene	1.42	0.40	mg/kg wet	2.000		71	40-140			
Benzo(b)fluoranthene	1.27	0.40	mg/kg wet	2.000		64	40-140			
Benzo(g,h,i)perylene	1.29	0.40	mg/kg wet	2.000		64	40-140			
Benzo(k)fluoranthene	1.26	0.40	mg/kg wet	2.000		63	40-140			
C11-C22 Aromatics1,2	ND	15.0	mg/kg wet							
C11-C22 Unadjusted Aromatics1	19.2	15.0	mg/kg wet	34.00		57	40-140			
Chrysene	1.32	0.40	mg/kg wet	2.000		66	40-140			
Dibenzo(a,h)Anthracene	1.27	0.20	mg/kg wet	2.000		64	40-140			
Fluoranthene	1.27	0.40	mg/kg wet	2.000		64	40-140			
Fluorene	1.14	0.40	mg/kg wet	2.000		57	40-140			
Indeno(1,2,3-cd)Pyrene	1.27	0.40	mg/kg wet	2.000		64	40-140			
Naphthalene	0.94	0.40	mg/kg wet	2.000		47	40-140			
Phenanthrene	1.24	0.40	mg/kg wet	2.000		62	40-140			
Pyrene	1.28	0.40	mg/kg wet	2.000		64	40-140			
Surrogate: 2-Bromonaphthalene	*1.27*		mg/kg wet	*2.000*		*63*	*40-140*			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase ESS Laboratory Work Order: 1503558

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CD50135 - 3546										
Surrogate: 2-Fluorobiphenyl	*1.25*		mg/kg wet	*2.000*		*63*	*40-140*			
Surrogate: O-Terphenyl	*1.07*		mg/kg wet	*2.000*		*54*	*40-140*			
LCS										
2-Methylnaphthalene Breakthrough	0.0		%				0-5			
Naphthalene Breakthrough	0.0		%				0-5			
LCS Dup										
C19-C36 Aliphatics1	16.4	15.0	mg/kg wet	16.00		102	40-140	14	25	
C9-C18 Aliphatics1	9.3	15.0	mg/kg wet	12.00		78	40-140	14	25	
Decane (C10)	1.0	0.5	mg/kg wet	2.000		51	40-140	8	25	
Docosane (C22)	1.9	0.5	mg/kg wet	2.000		93	40-140	10	25	
Dodecane (C12)	1.0	0.5	mg/kg wet	2.000		52	40-140	10	25	
Eicosane (C20)	1.8	0.5	mg/kg wet	2.000		90	40-140	10	25	
Hexacosane (C26)	1.9	0.5	mg/kg wet	2.000		94	40-140	10	25	
Hexadecane (C16)	1.5	0.5	mg/kg wet	2.000		77	40-140	11	25	
Hexatriacontane (C36)	1.8	0.5	mg/kg wet	2.000		92	40-140	10	25	
Nonadecane (C19)	1.8	0.5	mg/kg wet	2.000		90	40-140	9	25	
Nonane (C9)	0.8	0.5	mg/kg wet	2.000		41	30-140	7	25	
Octacosane (C28)	1.9	0.5	mg/kg wet	2.000		94	40-140	10	25	
Octadecane (C18)	1.7	0.5	mg/kg wet	2.000		85	40-140	9	25	
Tetracosane (C24)	1.8	0.5	mg/kg wet	2.000		89	40-140	10	25	
Tetradecane (C14)	1.3	0.5	mg/kg wet	2.000		63	40-140	8	25	
Triacontane (C30)	1.8	0.5	mg/kg wet	2.000		92	40-140	10	25	
Surrogate: 1-Chlorooctadecane	*1.41*		mg/kg wet	*2.000*		*71*	*40-140*			
LCS Dup										
2-Methylnaphthalene	1.45	0.20	mg/kg wet	2.000		73	40-140	39	20	D+
Acenaphthene	1.51	0.40	mg/kg wet	2.000		76	40-140	35	20	D+
Acenaphthylene	1.57	0.20	mg/kg wet	2.000		79	40-140	39	20	D+
Anthracene	1.85	0.40	mg/kg wet	2.000		92	40-140	36	20	D+
Benzo(a)anthracene	1.86	0.40	mg/kg wet	2.000		93	40-140	36	20	D+
Benzo(a)pyrene	2.00	0.40	mg/kg wet	2.000		100	40-140	34	20	D+
Benzo(b)fluoranthene	1.79	0.40	mg/kg wet	2.000		90	40-140	34	20	D+
Benzo(g,h,i)perylene	1.81	0.40	mg/kg wet	2.000		90	40-140	34	20	D+
Benzo(k)fluoranthene	1.80	0.40	mg/kg wet	2.000		90	40-140	36	20	D+
C11-C22 Aromatics1,2	ND	15.0	mg/kg wet							
C11-C22 Unadjusted Aromatics1	31.7	15.0	mg/kg wet	34.00		93	40-140	49	25	D+
Chrysene	1.86	0.40	mg/kg wet	2.000		93	40-140	34	20	D+
Dibenzo(a,h)Anthracene	1.80	0.20	mg/kg wet	2.000		90	40-140	35	20	D+
Fluoranthene	1.80	0.40	mg/kg wet	2.000		90	40-140	34	20	D+
Fluorene	1.63	0.40	mg/kg wet	2.000		81	40-140	36	20	D+
Indeno(1,2,3-cd)Pyrene	1.81	0.40	mg/kg wet	2.000		90	40-140	35	20	D+
Naphthalene	1.36	0.40	mg/kg wet	2.000		68	40-140	37	20	D+
Phenanthrene	1.77	0.40	mg/kg wet	2.000		89	40-140	35	20	D+

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase ESS Laboratory Work Order: 1503558

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CD50135 - 3546										
Pyrene	1.81	0.40	mg/kg wet	2.000		91	40-140	34	20	D+
Surrogate: 2-Bromonaphthalene	*1.85*		mg/kg wet	*2.000*		*92*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*1.80*		mg/kg wet	*2.000*		*90*	*40-140*			
Surrogate: O-Terphenyl	*1.49*		mg/kg wet	*2.000*		*75*	*40-140*			
LCS Dup										
2-Methylnaphthalene Breakthrough	0.0		%				0-5		200	
Naphthalene Breakthrough	0.0		%				0-5		200	

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase ESS Laboratory Work Order: 1503558

Notes and Definitions

Z-10a	Soil pH measured in water at 14.2 ºC.
Z-10	Soil pH measured in water at 13.8 ºC.
Z-08	See Attached
WL	Results obtained from a deionized water leach of the sample.
U	Analyte included in the analysis, but not detected
S-	Surrogate recovery(ies) below lower control limit (S-).
P	Percent difference between primary and confirmation results exceeds 40% (P).
LC	Lower value is used due to matrix interferences (LC).
H	Estimated value. Sample hold times were exceeded (H).
D+	Relative percent difference for duplicate is outside of criteria (D+).
D	Diluted.
C+	Continuing Calibration recovery is above upper control limit (C+).
C-	Continuing Calibration recovery is below lower control limit (C-).
B+	Blank Spike recovery is above upper control limit (B+).
B-	Blank Spike recovery is below lower control limit (B-).
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	Detection Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report
[2C]	Result was taken from the second column. Dual column analysis.

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503558

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Department of Defense (DoD) Environmental Laboratory Accreditation Program (ELAP)
A2LA Accredited: Testing Cert# 2864.01
http://www.a2la.org/scopepdf/2864-01.pdf

Rhode Island Potable and Non Potable Water: LAI00179
http://www.health.ri.gov/find/labs/analytical/ESS.pdf

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750
http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI0002
http://www.maine.gov/dhhs/mecdc/environmental-health/water/dwp-services/labcert/documents/AllLabs.xls

Massachusetts Potable and Non Potable Water: M-RI002
http://public.dep.state.ma.us/Labcert/Labcert.aspx

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424
http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313
http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006
http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

United States Department of Agriculture Soil Permit: P330-12-00139

Pennsylvania: 68-01752
http://www.depweb.state.pa.us/portal/server.pt/community/labs/13780/laboratory_accreditation_program/590095

CHEMISTRY

A2LA Accredited: Testing Cert # 2864.01
Lead in Paint, Phthalates, Lead in Children's Metals Products (Including Jewelry)
http://www.A2LA.org/dirsearchnew/newsearch.cfm

CPSC ID# 1141
Lead Paint, Lead in Children's Metals Jewelry
http://www.cpsc.gov/cgi-bin/labapplist.aspx

Sample and Cooler Receipt Checklist

Client: GZA GeoEnvironmental, Inc.
Client Project ID: _____
Shipped/Delivered Via: ESS Courier

ESS Project ID: 15030558
Date Project Due: 4/7/15
Days For Project: 5 Day

Items to be checked upon receipt:

1. Air Bill Manifest Present?	* No	10. Are the samples properly preserved?	Yes
Air No.:		11. Proper sample containers used?	Yes
2. Were Custody Seals Present?	No	12. Any air bubbles in the VOA vials?	N/A
3. Were Custody Seals Intact?	N/A	13. Holding times exceeded?	No
4. Is Radiation count < 100 CPM?	Yes	14. Sufficient sample volumes?	Yes
5. Is a cooler present?	Yes	15. Any Subcontracting needed?	* Yes
Cooler Temp: **4.6**		16. Are ESS labels on correct containers?	**Yes|No**
Iced With: **Ice**		17. Were samples received intact?	**Yes|No**
6. Was COC included with samples?	Yes	ESS Sample IDs: 09, 15	
7. Was COC signed and dated by client?	Yes	Sub Lab: CTS	
8. Does the COC match the sample	* No	Analysis: Grain Size / % Wate	
9. Is COC complete and correct?	Yes	TAT: 5 DAY	

18. Was there need to call project manager to discuss status? If yes, please explain.
COC = GZ-226 2-4 Label = GZ-226 2-3.8 MR 3/31/15
Low Level Vials Jaye 3/31/15 MR 4/2/15
EB

Who was called?:_____ By whom? _____

Sample Number	Properly Preserved	Container Type	# of Containers	Preservative
1	Yes	8 oz Soil Jar	2	NP
2	Yes	2 oz Soil Jar	1	NP
2	Yes	8 oz Soil Jar	2	NP
3	Yes	2 oz Soil Jar	1	NP
3	Yes	8 oz Soil Jar	2	NP
4	Yes	8 oz Soil Jar	2	NP
5	Yes	8 oz Soil Jar	2	NP
6	Yes	2 oz Soil Jar	1	NP
6	Yes	8 oz Soil Jar	2	NP
7	Yes	8 oz Soil Jar	2	NP
8	Yes	2 oz Soil Jar	1	NP
8	Yes	8 oz Soil Jar	2	NP
9	Yes	4 oz Soil Jar	1	NP
9	Yes	40 ml - VOA	1	MeOH
9	Yes	40 ml - VOA	2	other
9	Yes	8 oz Soil Jar	2	NP
9	Yes	Other Glass	1	NP
10	Yes	8 oz Soil Jar	2	NP
11	Yes	2 oz Soil Jar	1	NP
11	Yes	8 oz Soil Jar	2	NP
12	Yes	2 oz Soil Jar	1	NP
12	Yes	8 oz Soil Jar	2	NP
13	Yes	8 oz Soil Jar	2	NP
14	Yes	2 oz Soil Jar	1	NP
14	Yes	8 oz Soil Jar	2	NP

Sample and Cooler Receipt Checklist

Client: GZA GeoEnvironmental, Inc. ESS Project ID: 15030558

15	Yes	4 oz Soil Jar	1	NP
15	Yes	40 ml - VOA	1	MeOH
15	Yes	40 ml - VOA	2	other
15	Yes	8 oz Soil Jar	2	NP
15	Yes	Other Glass	1	NP
16	Yes	8 oz Soil Jar	1	NP
17	Yes	8 oz Soil Jar	1	NP
18	Yes	8 oz Soil Jar	1	NP
19	Yes	8 oz Soil Jar	1	NP
20	Yes	8 oz Soil Jar	1	NP
21	Yes	8 oz Soil Jar	1	NP
22	Yes	8 oz Soil Jar	1	NP
23	Yes	8 oz Soil Jar	1	NP
24	Yes	8 oz Soil Jar	1	NP
25	Yes	8 oz Soil Jar	1	NP
26	Yes	8 oz Soil Jar	1	NP
27	Yes	8 oz Soil Jar	1	NP
28	Yes	8 oz Soil Jar	1	NP
29	Yes	8 oz Soil Jar	1	NP
30	Yes	8 oz Soil Jar	1	NP
31	Yes	8 oz Soil Jar	1	NP
32	Yes	8 oz Soil Jar	1	NP
33	Yes	8 oz Soil Jar	1	NP
34	Yes	8 oz Soil Jar	1	NP
35	Yes	8 oz Soil Jar	1	NP
36	Yes	8 oz Soil Jar	1	NP
37	Yes	8 oz Soil Jar	1	NP
38	Yes	8 oz Soil Jar	1	NP

Completed By: _____ Date/Time: 3/31/15 1423

Reviewed By: _____ Date/Time: 3/31/15 1600

ESS Laboratory

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

ESS LAB PROJECT ID: 1503558

Turn Time ___X___ Standard Rush_____ Approved By: _____

Reporting Limits -

State where samples were collected: **MA** RI CT NH NJ NY ME Other_____

Is this project for any of the following: (please circle)
MA-MCP CT-RCP NJ-DKQP RGP DOD Other___

Electonic Deliverable Yes ✓ No___
Format: Excel ✓ Access___ PDF ✓ Other___

GZA Project Manager: David E. Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Ave
Norwood, MA 02062
(781) 278-3700

Project No.: 01.0171521.13 Task 001

Project Name: Wynn - Everett

Contract Pricing ____
Special Pricing WO#: _____

	ESS Lab Sample ID	Date	Collection Time	Grab -G Composite-C	Matrix	Sample Identification	# of Containers	Analysis: MCP-14 Metals	PAHs by SIM	TOC	SVOCs	PCBs (Aroclors)	EPH	Hexavalent Chromium	Reactivity (Sulfide and Cyanide)	VOCs	% water	Grain Size Analysis	Comment #
23	8	3/30/15	0830	G	S	GZ-221 (4'-6')		X	X										
24	9 35		0830			GZ-221 (0'-3')		X		X	X	X	X	X	X	X	X	X	(1)
25	10 36		09:05			GZ-222 (0'-0.5')		X	X	X	X	X	X						
26	11					GZ-222 (0.5'-2')		X	X										
27	12					GZ-222 (2'-4')		X	X										
			↓			GZ-222 (4'-6')		HOLD AND FREEZE											
28	13 37		09:18			GZ-223 (0'-0.5')		X	X	X	X	X	X						
						GZ-223 (0.5'-2')		HOLD AND FREEZE											
29	14					GZ-223 (2'-4')		X	X										
30	15 38	↓	↓	↓	↓	GZ-223 (0'-3')		X		X	X	X	X	X	X	X	X	X	(1)

Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-_____

Container Type: P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filter

Cooler Present ___X___Yes _____No

Seals Intact _____Yes _____No NA: X

Cooler Temperature: 3.1°/4.6° ICE mr 3/31/15

Sampled by : Daniel Scanlon (Daniel.Scanlon@gza.com)

Comments: (1) TCLP 20X Rule Applies ONLY if noted in comments column.

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
[signature] @ 1400	3/30/15	Bill Buccon 3/31/15 0700	Bill Buccon 3/31/15 0830		[signature] 3/31/15 1227

ESS Laboratory

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

ESS LAB PROJECT ID: 1503558

Turn Time ___X___ Standard Rush_____ Approved By: _____

Reporting Limits -

State where samples were collected: **MA** RI CT NH NJ NY ME Other_____

Is this project for any of the following: (please circle)
MA-MCP CT-RCP NJ-DKQP RGP DOD Other___

Electonic Deliverable Yes ✓ No___
Format: Excel ✓ Access___ PDF ✓ Other___

GZA Project Manager: David E. Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Ave
Norwood, MA 02062
(781) 278-3700

Project No.: 01.0171521.13 Task 001

Project Name: Wynn - Everett

Contract Pricing ____
Special Pricing WO#: _____

	ESS Lab Sample ID	Date	Collection Time	Grab -G Composite-C	Matrix	Sample Identification	# of Containers	MCP-14 Metals	PAHs by SIM	TOC	SVOCs	PCBs (Aroclors)	EPH	Hexavalent Chromium	Reactivity (Sulfide and Cyanide)	VOCs	% water	Grain Size Analysis	Comment #
							Analysis												
16	1 31	3-30-15	0758	G	S	GZ-226 (0'-0.5')		X	X	X	X	X	X						
17	2					GZ-226 (0.5'-2')		X	X										
18	3					GZ-226 (2'-4')		X	X										
19	4 32		08:11			GZ-220 (0'-0.5')		X	X	X	X	X	X						
20	5 33					GZ-220 (0.5'-2')		X	X	X	X	X	X						
21	6					GZ-220 (2'-4')		X	X										
						GZ-220 (4'-6')		HOLD AND FREEZE											
22	7 34		0830			GZ-221 (0'-0.5')		X	X	X	X	X	X						
						GZ-221 (0.5'-2')		HOLD AND FREEZE											
						GZ-221 (2'-4')		HOLD AND FREEZE											

Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-____

Container Type: P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filter

Cooler Present ___X___Yes _____No

Seals Intact _____Yes _____No NA: X

Cooler Temperature: 3.1°/4.6°ICE

Sampled by : Daniel Scanlon (Daniel.Scanlon@gza.com)

Comments: (1) TCLP 20X Rule Applies ONLY if noted in the comments column
*confirm to run per client request 4/1/15 cmt

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	3/30/15 @ 1400	0700 Bill Beacon 3/31/15	0830 Bill Beacon 3/31/15		3/31/15 1227

801-0906 Rev. 10/08

ESS Laboratory

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

ESS LAB PROJECT ID: 1503558

Turn Time ___X___ Standard Rush_____ Approved By: _____

Reporting Limits -

State where samples were collected: **MA** RI CT NH NJ NY ME Other_____

Is this project for any of the following: (please circle)
MA-MCP CT-RCP NJ-DKQP RGP DOD Other___

Electonic Deliverable Yes ✓ No___
Format: Excel ✓ Access___ PDF ✓ Other___

GZA Project Manager: David E. Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Ave
Norwood, MA 02062
(781) 278-3700

Project No.: 01.0171521.13 Task 001

Project Name: Wynn - Everett

Contract Pricing ____
Special Pricing WO#: _____

	ESS Lab Sample ID	Date	Collection Time	Grab -G Composite-C	Matrix	Sample Identification	# of Containers	Analysis: MCP-14 Metals	PAHs by SIM	TOC	SVOCs	PCBs (Aroclors)	EPH	Hexavalent Chromium	Reactivity (Sulfide and Cyanide)	VOCs	% water	Grain Size Analysis	Comment #
23	8	3/30/15	0830	G	S	GZ-221 (4'-6')		X	X										
24	9 35		0830			GZ-221 (0'-3')		X		X	X	X	X	X	X	X	X	X	(1)
25	10 36		09:05			GZ-222 (0'-0.5')		X	X	X	X	X	X						
26	11					GZ-222 (0.5'-2')		X	X										
27	12					GZ-222 (2'-4')		X	X										
			↓			GZ-222 (4'-6')		HOLD AND FREEZE											
28	13 37		09:18			GZ-223 (0'-0.5')		X	X	X	X	X	X						
						GZ-223 (0.5'-2')		HOLD AND FREEZE											
29	14					GZ-223 (2'-4')		X	X										
30	15 38	↓	↓	↓	↓	GZ-223 (0'-3')		X		X	X	X	X	X	X	X	X	X	(1)

Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-_____

Container Type: P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filter

Cooler Present ___X___Yes _____No

Seals Intact _____Yes _____No NA: X

Cooler Temperature: 3.1°/4.6° ICE nr 3/31/15

Sampled by : Daniel Scanlon (Daniel.Scanlon@gza.com)

Comments: (1) TCLP 20X Rule Applies ONLY if noted in comments column.

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
[signature] @ 1400	3/30/15	Bill Buccon 3/31/15 0700	Bill Buccon 3/31/15 0830		[signature] 3/31/15 1227

ESS Laboratory

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185 Frances Avenue, Cranston, RI 02910-2211
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www.esslaboratory.com

CHAIN OF CUSTODY

ESS LAB PROJECT ID: 1503558

Turn Time ___X___ Standard Rush_____ Approved By: _____

Reporting Limits -

State where samples were collected: **MA** RI CT NH NJ NY ME Other_____

Is this project for any of the following: (please circle)
MA-MCP CT-RCP NJ-DKQP RGP DOD Other___

Electonic Deliverable Yes ✓ No___
Format: Excel ✓ Access___ PDF ✓ Other___

GZA Project Manager: David E. Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Ave
Norwood, MA 02062
(781) 278-3700

Project No.: 01.0171521.13 Task 001

Project Name: Wynn - Everett

Contract Pricing ____
Special Pricing WO#: _____

	ESS Lab Sample ID	Date	Collection Time	Grab -G Composite-C	Matrix	Sample Identification	# of Containers	MCP-14 Metals	PAHs by SIM	TOC	SVOCs	PCBs (Aroclors)	EPH	Hexavalent Chromium	Reactivity (Sulfide and Cyanide)	VOCs	% water	Grain Size Analysis	Comment #
							Analysis												
16	1 31	3-30-15	0758	G	S	GZ-226 (0'-0.5')		X	X	X	X	X	X						
17	2					GZ-226 (0.5'-2')		X	X										
18	3					GZ-226 (2'-4')		X	X										
19	4 32		08:11			GZ-220 (0'-0.5')		X	X	X	X	X	X						
20	5 33					GZ-220 (0.5'-2')		X	X	X	X	X	X						
21	6					GZ-220 (2'-4')		X	X										
						GZ-220 (4'-6')		HOLD AND FREEZE											
22	7 34		0830			GZ-221 (0'-0.5')		X	X	X	X	X							
						GZ-221 (0.5'-2')		HOLD AND FREEZE											
						GZ-221 (2'-4')		HOLD AND FREEZE											

Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-____

Container Type: P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filter

Cooler Present ___X___Yes _____No

Seals Intact _____Yes _____No NA: X

Cooler Temperature: 3.1°/4.6° ICE

Sampled by : Daniel Scanlon (Daniel.Scanlon@gza.com)

Comments: (1) TCLP 20X Rule Applies ONLY if noted in the comments column

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	3/30/15 @ 1400	Bill Beacon 0700 3/31/15	Bill Beacon 0830 3/31/15		3/31/15 1227

Page 1 of 4

CERTIFICATE OF ANALYSIS

David E Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Avenue
Norwood, MA 02062

RE: Wynn Everett Sediment Phase (01.0171521.13 Task 001)
ESS Laboratory Work Order Number: 1503559

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard
Laboratory Director

REVIEWED
By ESS Laboratory at 4:22 pm, Apr 13, 2015

Analytical Summary
The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with NELAC Standards, A2LA and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.

Subcontracted Analyses

CTS - Cranston, RI	Grain Size Analysis, Percent Water

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503559

SAMPLE RECEIPT

The following samples were received on March 31, 2015 for the analyses specified on the enclosed Chain of Custody Record.

To achieve CAM compliance for MCP data, ESS Laboratory has performed and reviewed all QA/QC Requirements and Performance Standards listed in each method. Holding times and preservation have also been reviewed. All CAM requirements have been achieved unless noted in the project narrative.

Each method has been set-up in the laboratory to reach required MCP standards. The methods for aqueous VOA and Soil Methanol VOA have known limitations for certain analytes. The regulatory standards may not be achieved due to these limitations. In addition, for all methods, matrix interferences, dilutions, and %Solids may elevate method reporting limits above regulatory standards. ESS Laboratory can provide, upon request, a Data Checker (regulatory standard comparison spreadsheet) electronic deliverable which will highlight these exceedances.

For EPH soil samples, the aromatic range results have been corrected for identified cartridge contaminant in accordance with the CAM protocol.

Low Level VOA vials were frozen by ESS Laboratory on March 31, 2015.

Question I: Samples GZ-214 6ft-8ft and GZ-215 4ft6-ft (1503559-06 and 1503559-17) for SVOA were analyzed for a subset of the required MCP list per the client's request.

Samples were decanted by ESS, upon receipt, per client request.

Lab Number	Sample Name	Matrix	Analysis
1503559-01	GZ-224 0ft-0.5ft	Soil	8270D, EPH8270, MADEP-EPH
1503559-02	GZ-224 0.5ft-2ft	Soil	8270D, EPH8270, MADEP-EPH
1503559-03	GZ-214 0ft-0.5ft	Soil	8270D, EPH8270, MADEP-EPH
1503559-04	GZ-214 2ft-4ft	Soil	8270D, EPH8270, MADEP-EPH
1503559-05	GZ-214 4ft-6ft	Soil	8270D, EPH8270, MADEP-EPH
1503559-06	GZ-214 6ft-8ft	Soil	8270D
1503559-07	GZ-215 0ft-0.5ft	Soil	8270D, EPH8270, MADEP-EPH
1503559-08	GZ-215 4ft-6ft	Soil	8270D
1503559-09	GZ-215 0ft-3ft	Soil	§, 2580, 7.3.3.2, 7.3.4.1, 7196A, 8260B Low, 8270D, 9045, EPH8270, MADEP-EPH
1503559-10	GZ-224 0ft-0.5ft	Soil	6010C, 6020A, 7010, 7471B
1503559-11	GZ-224 0.5ft-2ft	Soil	6010C, 7010, 7471B
1503559-12	GZ-214 0ft-0.5ft	Soil	6010C, 6020A, 7010, 7471B
1503559-13	GZ-214 2ft-4ft	Soil	6010C, 6020A, 7010, 7471B
1503559-14	GZ-214 4ft-6ft	Soil	6010C, 6020A, 7010, 7471B

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase ESS Laboratory Work Order: 1503559

1503559-15	GZ-214 6ft-8ft	Soil	6010C, 6020A, 7010, 7471B
1503559-16	GZ-215 0ft-0.5ft	Soil	6010C, 6020A, 7010, 7471B
1503559-17	GZ-215 4ft-6ft	Soil	6010C, 6020A, 7010, 7471B
1503559-18	GZ-215 0ft-3ft	Soil	6010C, 6020A, 7010, 7471B
1503559-19	GZ-224 0ft-0.5ft	Soil	8082A
1503559-20	GZ-224 0.5ft-2ft	Soil	8082A
1503559-21	GZ-214 0ft-0.5ft	Soil	8082A
1503559-22	GZ-214 2ft-4ft	Soil	8082A
1503559-23	GZ-214 4ft-6ft	Soil	8082A
1503559-24	GZ-215 0ft-0.5ft	Soil	8082A
1503559-25	GZ-215 0ft-3ft	Soil	8082A

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503559

PROJECT NARRATIVE

5035/8260B Volatile Organic Compounds / Low Level

CD50239-BS1	**Blank Spike recovery is above upper control limit (B+).**
	Bromomethane (175% @ 70-130%)
CD50239-BSD1	**Blank Spike recovery is above upper control limit (B+).**
	Bromomethane (157% @ 70-130%)
CYD0025-CCV1	**Continuing Calibration recovery is above upper control limit (C+).**
	Bromomethane (168% @ 70-130%)

8082A Polychlorinated Biphenyls (PCB)

1503559-19	**Percent difference between primary and confirmation results exceeds 40% (P).**
	Aroclor 1254
1503559-20	**Percent difference between primary and confirmation results exceeds 40% (P).**
	Aroclor 1254
1503559-20	**Surrogate recovery(ies) below lower control limit (S-).**
	Tetrachloro-m-xylene [2C] (26% @ 30-150%)
1503559-21	**Percent difference between primary and confirmation results exceeds 40% (P).**
	Aroclor 1248
1503559-24	**Lower value is used due to matrix interferences (LC).**
	Aroclor 1248
1503559-24	**Percent difference between primary and confirmation results exceeds 40% (P).**
	Aroclor 1248

8270D Semi-Volatile Organic Compounds

CD50735-BS1	**Blank Spike recovery is below lower control limit (B-).**
	Aniline (36% @ 40-140%)
CD50739-BS1	**Blank Spike recovery is below lower control limit (B-).**
	Aniline (39% @ 40-140%)
CD50739-BSD1	**Blank Spike recovery is below lower control limit (B-).**
	Aniline (38% @ 40-140%)
CYD0041-CCV1	**Continuing Calibration recovery is above upper control limit (C+).**
	Di-n-octylphthalate (123% @ 80-120%), p-Terphenyl-d14 (122% @ 80-120%), Pyrene (122% @ 80-120%)

8270D(SIM) Polynuclear Aromatic Hydrocarbons

1503559-02	**Surrogate recovery(ies) below lower control limit (S-).**
	1,2-Dichlorobenzene-d4 (29% @ 30-130%)
1503559-03	**Surrogate recovery(ies) below lower control limit (S-).**
	1,2-Dichlorobenzene-d4 (29% @ 30-130%)
CD50227-BS1	**Blank Spike recovery is below lower control limit (B-).**
	Acenaphthylene (10% @ 40-140%)
CD50227-BSD1	**Relative percent difference for duplicate is outside of criteria (D+).**
	Acenaphthylene (151% @ 30%), Anthracene (44% @ 30%), Benzo(a)pyrene (49% @ 30%)

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase ESS Laboratory Work Order: 1503559

CYD0151-CCV1 **Continuing Calibration recovery is above upper control limit (C+).**
Indeno(1,2,3-cd)Pyrene (132% @ 70-130%)

Classical Chemistry
1503559-09 **Estimated value. Sample hold times were exceeded (H).**
Corrosivity (pH) , Corrosivity (pH) Sample Temp , Eh (ORP)

No other observations noted.

End of Project Narrative.

DATA USABILITY LINKS

Definitions of Quality Control Parameters

Semivolatile Organics Internal Standard Information

Semivolatile Organics Surrogate Information

Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503559

CURRENT SW-846 METHODOLOGY VERSIONS

Analytical Methods

1010A - Flashpoint
6010C - ICP
6020A - ICP MS
7010 - Graphite Furnace
7196A - Hexavalent Chromium
7470A - Aqueous Mercury
7471B - Solid Mercury
8011 - EDB/DBCP/TCP
8015D - GRO/DRO
8081B - Pesticides
8082A - PCB
8100M - TPH
8151A - Herbicides
8260B - VOA
8270D - SVOA
8270D SIM - SVOA Low Level
9014 - Cyanide
9038 - Sulfate
9040C - Aqueous pH
9045D - Solid pH (Corrosivity)
9050A - Specific Conductance
9056A - Anions (IC)
9060A - TOC
9095B - Paint Filter
MADEP 04-1.1 - EPH / VPH

Prep Methods

3005A - Aqueous ICP and Graphite Furnace Digestion
3020A - Aqueous ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3546 - Microwave Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5030C - Aqueous Purge and Trap
5035 - Solid Purge and Trap

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503559

MassDEP Analytical Protocol Certification Form

MADEP RTN: _____

This form provides certification for the following data set: **1503559-01 through 1503559-25**

Matrices: ( ) Ground Water/Surface Water (X) Soil/Sediment ( ) Drinking Water ( ) Air ( ) Other:_____

CAM Protocol (check all that apply below):

(X) 8260 VOC CAM II A	(X) 7470/7471 Hg CAM III B	( ) MassDEP VPH CAM IV A	( ) 8081 Pesticides CAM V B	(X) 7196 Hex Cr CAM VI B	( ) MassDEP APH CAM IX A
(X) 8270 SVOC CAM II B	(X) 7010 Metals CAM III C	(X) MassDEP EPH CAM IV B	( ) 8151 Herbicides CAM V C	( ) 8330 Explosives CAM VIII A	( ) TO-15 VOC CAM IX B
(X) 6010 Metals CAM III A	(X) 6020 Metals CAM III D	(X) 8082 PCB CAM V A	( ) 6860 Perchlorate CAM VIII B	( ) 9014 Total Cyanide/PAC CAM VI A	

Affirmative responses to questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	Yes ( ) No (X)
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	Yes (X) No ( )
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	Yes (X) No ( )
D	Does the laboratory report comply with all the reporting requirements specified in the CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	Yes (X) No ( )
E	a. VPH, EPH, APH and TO-15 only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	Yes (X) No ( )
	b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	Yes ( ) No ( )
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	Yes (X) No ( )

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocols(s)?	Yes (X) No ( )*
	***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**	
H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	Yes ( ) No (X)*
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	Yes ( ) No (X)*

All negative responses must be addressed in an attached laboratory narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: _____ Date: April 13, 2015

Printed Name: Laurel Stoddard Position: Laboratory Director

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-224 0ft-0.5ft
Date Sampled: 03/30/15 09:45
Percent Solids: 68
Initial Volume: 30
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503559
ESS Laboratory Sample ID: 1503559-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 4/3/15 12:02

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.244)		8270D		1	04/04/15 8:20	CYD0044	CD50739
1,2-Dichlorobenzene	ND (0.244)		8270D		1	04/04/15 8:20	CYD0044	CD50739
1,3-Dichlorobenzene	ND (0.244)		8270D		1	04/04/15 8:20	CYD0044	CD50739
1,4-Dichlorobenzene	ND (0.244)		8270D		1	04/04/15 8:20	CYD0044	CD50739
2,4,5-Trichlorophenol	ND (0.244)		8270D		1	04/04/15 8:20	CYD0044	CD50739
2,4,6-Trichlorophenol	ND (0.244)		8270D		1	04/04/15 8:20	CYD0044	CD50739
2,4-Dichlorophenol	ND (0.244)		8270D		1	04/04/15 8:20	CYD0044	CD50739
2,4-Dimethylphenol	ND (0.244)		8270D		1	04/04/15 8:20	CYD0044	CD50739
2,4-Dinitrophenol	ND (1.23)		8270D		1	04/04/15 8:20	CYD0044	CD50739
2,4-Dinitrotoluene	ND (0.244)		8270D		1	04/04/15 8:20	CYD0044	CD50739
2,6-Dinitrotoluene	ND (0.244)		8270D		1	04/04/15 8:20	CYD0044	CD50739
2-Chloronaphthalene	ND (0.244)		8270D		1	04/04/15 8:20	CYD0044	CD50739
2-Chlorophenol	ND (0.244)		8270D		1	04/04/15 8:20	CYD0044	CD50739
2-Methylphenol	ND (0.244)		8270D		1	04/04/15 8:20	CYD0044	CD50739
2-Nitrophenol	ND (0.244)		8270D		1	04/04/15 8:20	CYD0044	CD50739
3,3´-Dichlorobenzidine	ND (0.489)		8270D		1	04/04/15 8:20	CYD0044	CD50739
3+4-Methylphenol	ND (0.489)		8270D		1	04/04/15 8:20	CYD0044	CD50739
4-Bromophenyl-phenylether	ND (0.244)		8270D		1	04/04/15 8:20	CYD0044	CD50739
4-Chloroaniline	ND (0.489)		8270D		1	04/04/15 8:20	CYD0044	CD50739
4-Nitrophenol	ND (1.23)		8270D		1	04/04/15 8:20	CYD0044	CD50739
Acetophenone	ND (0.489)		8270D		1	04/04/15 8:20	CYD0044	CD50739
Aniline	ND (1.23)		8270D		1	04/04/15 8:20	CYD0044	CD50739
Azobenzene	ND (0.244)		8270D		1	04/04/15 8:20	CYD0044	CD50739
bis(2-Chloroethoxy)methane	ND (0.244)		8270D		1	04/04/15 8:20	CYD0044	CD50739
bis(2-Chloroethyl)ether	ND (0.244)		8270D		1	04/04/15 8:20	CYD0044	CD50739
bis(2-chloroisopropyl)Ether	ND (0.244)		8270D		1	04/04/15 8:20	CYD0044	CD50739
bis(2-Ethylhexyl)phthalate	**0.502** (0.244)		8270D		1	04/04/15 8:20	CYD0044	CD50739
Butylbenzylphthalate	ND (0.244)		8270D		1	04/04/15 8:20	CYD0044	CD50739
Dibenzofuran	ND (0.244)		8270D		1	04/04/15 8:20	CYD0044	CD50739
Diethylphthalate	ND (0.244)		8270D		1	04/04/15 8:20	CYD0044	CD50739
Dimethylphthalate	ND (0.244)		8270D		1	04/04/15 8:20	CYD0044	CD50739
Di-n-butylphthalate	ND (0.244)		8270D		1	04/04/15 8:20	CYD0044	CD50739

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-224 0ft-0.5ft
Date Sampled: 03/30/15 09:45
Percent Solids: 68
Initial Volume: 30
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503559
ESS Laboratory Sample ID: 1503559-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 4/3/15 12:02

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Di-n-octylphthalate	ND (0.244)		8270D		1	04/04/15 8:20	CYD0044	CD50739
Hexachlorobutadiene	ND (0.244)		8270D		1	04/04/15 8:20	CYD0044	CD50739
Hexachloroethane	ND (0.244)		8270D		1	04/04/15 8:20	CYD0044	CD50739
Isophorone	ND (0.244)		8270D		1	04/04/15 8:20	CYD0044	CD50739
Nitrobenzene	ND (0.244)		8270D		1	04/04/15 8:20	CYD0044	CD50739
N-Nitrosodimethylamine	ND (0.244)		8270D		1	04/04/15 8:20	CYD0044	CD50739
Pentachlorophenol	ND (1.23)		8270D		1	04/04/15 8:20	CYD0044	CD50739
Phenol	ND (0.244)		8270D		1	04/04/15 8:20	CYD0044	CD50739

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*66 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*104 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*72 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*77 %*		*30-130*
Surrogate: 2-Fluorophenol	*68 %*		*30-130*
Surrogate: Nitrobenzene-d5	*69 %*		*30-130*
Surrogate: Phenol-d6	*75 %*		*30-130*
Surrogate: p-Terphenyl-d14	*87 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-224 0ft-0.5ft
Date Sampled: 03/30/15 09:45
Percent Solids: 68
Initial Volume: 20.1
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503559
ESS Laboratory Sample ID: 1503559-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 4/3/15 12:25

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	**0.033** (0.018)		8270D		1	04/10/15 5:41	CYD0151	CD50227
Acenaphthene	**0.046** (0.018)		8270D		1	04/10/15 5:41	CYD0151	CD50227
Acenaphthylene	**0.111** (0.018)		8270D		1	04/10/15 5:41	CYD0151	CD50227
Anthracene	**0.168** (0.018)		8270D		1	04/10/15 5:41	CYD0151	CD50227
Benzo(a)anthracene	**0.578** (0.018)		8270D		1	04/10/15 5:41	CYD0151	CD50227
Benzo(a)pyrene	**0.755** (0.018)		8270D		1	04/10/15 5:41	CYD0151	CD50227
Benzo(b)fluoranthene	**1.13** (0.018)		8270D		1	04/10/15 5:41	CYD0151	CD50227
Benzo(g,h,i)perylene	**0.501** (0.018)		8270D		1	04/10/15 5:41	CYD0151	CD50227
Benzo(k)fluoranthene	**0.311** (0.018)		8270D		1	04/10/15 5:41	CYD0151	CD50227
Chrysene	**0.688** (0.018)		8270D		1	04/10/15 5:41	CYD0151	CD50227
Dibenzo(a,h)Anthracene	**0.167** (0.018)		8270D		1	04/10/15 5:41	CYD0151	CD50227
Fluoranthene	**0.876** (0.018)		8270D		1	04/10/15 5:41	CYD0151	CD50227
Fluorene	**0.059** (0.018)		8270D		1	04/10/15 5:41	CYD0151	CD50227
Hexachlorobenzene	ND (0.018)		8270D		1	04/10/15 5:41	CYD0151	CD50227
Indeno(1,2,3-cd)Pyrene	**0.603** (0.018)		8270D		1	04/10/15 5:41	CYD0151	CD50227
Naphthalene	**0.100** (0.018)		8270D		1	04/10/15 5:41	CYD0151	CD50227
Phenanthrene	**0.353** (0.018)		8270D		1	04/10/15 5:41	CYD0151	CD50227
Pyrene	**0.795** (0.018)		8270D		1	04/10/15 5:41	CYD0151	CD50227

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*39 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*65 %*		*30-130*
Surrogate: Nitrobenzene-d5	*46 %*		*30-130*
Surrogate: p-Terphenyl-d14	*66 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-224 0ft-0.5ft
Date Sampled: 03/30/15 09:45
Percent Solids: 68
Initial Volume: 30.5
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1503559
ESS Laboratory Sample ID: 1503559-01
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 4/2/15 18:04

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (18.0)		MADEP-EPH		1	DPS	04/04/15 10:18	CYD0058	CD50222
C19-C36 Aliphatics1	**38.6** (18.0)		MADEP-EPH		1	DPS	04/04/15 10:18	CYD0058	CD50222
C11-C22 Unadjusted Aromatics1	**24.8** (18.0)		EPH8270		1	JXS	04/03/15 18:02	CYD0054	CD50222
C11-C22 Aromatics1,2	**23.7** (18.0)		EPH8270			JXS	04/03/15 18:02		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*54 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*87 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*82 %*		*40-140*
Surrogate: O-Terphenyl	*65 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-224 0.5ft-2ft
Date Sampled: 03/30/15 09:45
Percent Solids: 53
Initial Volume: 30.3
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503559
ESS Laboratory Sample ID: 1503559-02
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 4/3/15 12:02

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.309)		8270D		1	04/04/15 8:55	CYD0044	CD50739
1,2-Dichlorobenzene	ND (0.309)		8270D		1	04/04/15 8:55	CYD0044	CD50739
1,3-Dichlorobenzene	ND (0.309)		8270D		1	04/04/15 8:55	CYD0044	CD50739
1,4-Dichlorobenzene	ND (0.309)		8270D		1	04/04/15 8:55	CYD0044	CD50739
2,4,5-Trichlorophenol	ND (0.309)		8270D		1	04/04/15 8:55	CYD0044	CD50739
2,4,6-Trichlorophenol	ND (0.309)		8270D		1	04/04/15 8:55	CYD0044	CD50739
2,4-Dichlorophenol	ND (0.309)		8270D		1	04/04/15 8:55	CYD0044	CD50739
2,4-Dimethylphenol	ND (0.309)		8270D		1	04/04/15 8:55	CYD0044	CD50739
2,4-Dinitrophenol	ND (1.55)		8270D		1	04/04/15 8:55	CYD0044	CD50739
2,4-Dinitrotoluene	ND (0.309)		8270D		1	04/04/15 8:55	CYD0044	CD50739
2,6-Dinitrotoluene	ND (0.309)		8270D		1	04/04/15 8:55	CYD0044	CD50739
2-Chloronaphthalene	ND (0.309)		8270D		1	04/04/15 8:55	CYD0044	CD50739
2-Chlorophenol	ND (0.309)		8270D		1	04/04/15 8:55	CYD0044	CD50739
2-Methylphenol	ND (0.309)		8270D		1	04/04/15 8:55	CYD0044	CD50739
2-Nitrophenol	ND (0.309)		8270D		1	04/04/15 8:55	CYD0044	CD50739
3,3´-Dichlorobenzidine	ND (0.618)		8270D		1	04/04/15 8:55	CYD0044	CD50739
3+4-Methylphenol	ND (0.618)		8270D		1	04/04/15 8:55	CYD0044	CD50739
4-Bromophenyl-phenylether	ND (0.309)		8270D		1	04/04/15 8:55	CYD0044	CD50739
4-Chloroaniline	ND (0.618)		8270D		1	04/04/15 8:55	CYD0044	CD50739
4-Nitrophenol	ND (1.55)		8270D		1	04/04/15 8:55	CYD0044	CD50739
Acetophenone	ND (0.618)		8270D		1	04/04/15 8:55	CYD0044	CD50739
Aniline	ND (1.55)		8270D		1	04/04/15 8:55	CYD0044	CD50739
Azobenzene	ND (0.309)		8270D		1	04/04/15 8:55	CYD0044	CD50739
bis(2-Chloroethoxy)methane	ND (0.309)		8270D		1	04/04/15 8:55	CYD0044	CD50739
bis(2-Chloroethyl)ether	ND (0.309)		8270D		1	04/04/15 8:55	CYD0044	CD50739
bis(2-chloroisopropyl)Ether	ND (0.309)		8270D		1	04/04/15 8:55	CYD0044	CD50739
bis(2-Ethylhexyl)phthalate	ND (0.309)		8270D		1	04/04/15 8:55	CYD0044	CD50739
Butylbenzylphthalate	ND (0.309)		8270D		1	04/04/15 8:55	CYD0044	CD50739
Dibenzofuran	ND (0.309)		8270D		1	04/04/15 8:55	CYD0044	CD50739
Diethylphthalate	ND (0.309)		8270D		1	04/04/15 8:55	CYD0044	CD50739
Dimethylphthalate	ND (0.309)		8270D		1	04/04/15 8:55	CYD0044	CD50739
Di-n-butylphthalate	ND (0.309)		8270D		1	04/04/15 8:55	CYD0044	CD50739

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-224 0.5ft-2ft
Date Sampled: 03/30/15 09:45
Percent Solids: 53
Initial Volume: 30.3
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503559
ESS Laboratory Sample ID: 1503559-02
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 4/3/15 12:02

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Di-n-octylphthalate	ND (0.309)		8270D		1	04/04/15 8:55	CYD0044	CD50739
Hexachlorobutadiene	ND (0.309)		8270D		1	04/04/15 8:55	CYD0044	CD50739
Hexachloroethane	ND (0.309)		8270D		1	04/04/15 8:55	CYD0044	CD50739
Isophorone	ND (0.309)		8270D		1	04/04/15 8:55	CYD0044	CD50739
Nitrobenzene	ND (0.309)		8270D		1	04/04/15 8:55	CYD0044	CD50739
N-Nitrosodimethylamine	ND (0.309)		8270D		1	04/04/15 8:55	CYD0044	CD50739
Pentachlorophenol	ND (1.55)		8270D		1	04/04/15 8:55	CYD0044	CD50739
Phenol	ND (0.309)		8270D		1	04/04/15 8:55	CYD0044	CD50739

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*98 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*114 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*102 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*102 %*		*30-130*
Surrogate: 2-Fluorophenol	*97 %*		*30-130*
Surrogate: Nitrobenzene-d5	*98 %*		*30-130*
Surrogate: Phenol-d6	*102 %*		*30-130*
Surrogate: p-Terphenyl-d14	*95 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-224 0.5ft-2ft
Date Sampled: 03/30/15 09:45
Percent Solids: 53
Initial Volume: 20
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503559
ESS Laboratory Sample ID: 1503559-02
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 4/3/15 12:25

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	**0.088** (0.023)		8270D		1	04/10/15 6:29	CYD0151	CD50227
Acenaphthene	**0.070** (0.023)		8270D		1	04/10/15 6:29	CYD0151	CD50227
Acenaphthylene	**1.29** (0.023)		8270D		1	04/10/15 6:29	CYD0151	CD50227
Anthracene	**1.18** (0.023)		8270D		1	04/10/15 6:29	CYD0151	CD50227
Benzo(a)anthracene	**2.85** (0.234)		8270D		10	04/11/15 8:40	CYD0151	CD50227
Benzo(a)pyrene	**2.33** (0.023)		8270D		1	04/10/15 6:29	CYD0151	CD50227
Benzo(b)fluoranthene	**2.87** (0.234)		8270D		10	04/11/15 8:40	CYD0151	CD50227
Benzo(g,h,i)perylene	**1.02** (0.023)		8270D		1	04/10/15 6:29	CYD0151	CD50227
Benzo(k)fluoranthene	**0.593** (0.023)		8270D		1	04/10/15 6:29	CYD0151	CD50227
Chrysene	**3.51** (0.234)		8270D		10	04/11/15 8:40	CYD0151	CD50227
Dibenzo(a,h)Anthracene	**0.395** (0.023)		8270D		1	04/10/15 6:29	CYD0151	CD50227
Fluoranthene	**4.69** (0.234)		8270D		10	04/11/15 8:40	CYD0151	CD50227
Fluorene	**0.257** (0.023)		8270D		1	04/10/15 6:29	CYD0151	CD50227
Hexachlorobenzene	ND (0.023)		8270D		1	04/10/15 6:29	CYD0151	CD50227
Indeno(1,2,3-cd)Pyrene	**1.17** (0.023)		8270D		1	04/10/15 6:29	CYD0151	CD50227
Naphthalene	**0.224** (0.023)		8270D		1	04/10/15 6:29	CYD0151	CD50227
Phenanthrene	**0.933** (0.023)		8270D		1	04/10/15 6:29	CYD0151	CD50227
Pyrene	**5.37** (0.234)		8270D		10	04/11/15 8:40	CYD0151	CD50227

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*29 %*	*S-*	*30-130*
Surrogate: 2-Fluorobiphenyl	*47 %*		*30-130*
Surrogate: Nitrobenzene-d5	*32 %*		*30-130*
Surrogate: p-Terphenyl-d14	*59 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-224 0.5ft-2ft
Date Sampled: 03/30/15 09:45
Percent Solids: 53
Initial Volume: 30.2
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1503559
ESS Laboratory Sample ID: 1503559-02
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 4/2/15 18:04

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (23.2)		MADEP-EPH		1	DPS	04/04/15 11:08	CYD0058	CD50222
C19-C36 Aliphatics1	**166** (23.2)		MADEP-EPH		1	DPS	04/04/15 11:08	CYD0058	CD50222
C11-C22 Unadjusted Aromatics1	**193** (23.2)		EPH8270		1	JXS	04/03/15 18:38	CYD0054	CD50222
C11-C22 Aromatics1,2	**172** (23.2)		EPH8270			JXS	04/03/15 18:38		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*58 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*97 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*95 %*		*40-140*
Surrogate: O-Terphenyl	*67 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-214 0ft-0.5ft
Date Sampled: 03/30/15 10:10
Percent Solids: 50
Initial Volume: 30.1
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503559
ESS Laboratory Sample ID: 1503559-03
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 4/3/15 12:02

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.329)		8270D		1	04/04/15 9:31	CYD0044	CD50739
1,2-Dichlorobenzene	ND (0.329)		8270D		1	04/04/15 9:31	CYD0044	CD50739
1,3-Dichlorobenzene	ND (0.329)		8270D		1	04/04/15 9:31	CYD0044	CD50739
1,4-Dichlorobenzene	ND (0.329)		8270D		1	04/04/15 9:31	CYD0044	CD50739
2,4,5-Trichlorophenol	ND (0.329)		8270D		1	04/04/15 9:31	CYD0044	CD50739
2,4,6-Trichlorophenol	ND (0.329)		8270D		1	04/04/15 9:31	CYD0044	CD50739
2,4-Dichlorophenol	ND (0.329)		8270D		1	04/04/15 9:31	CYD0044	CD50739
2,4-Dimethylphenol	ND (0.329)		8270D		1	04/04/15 9:31	CYD0044	CD50739
2,4-Dinitrophenol	ND (1.65)		8270D		1	04/04/15 9:31	CYD0044	CD50739
2,4-Dinitrotoluene	ND (0.329)		8270D		1	04/04/15 9:31	CYD0044	CD50739
2,6-Dinitrotoluene	ND (0.329)		8270D		1	04/04/15 9:31	CYD0044	CD50739
2-Chloronaphthalene	ND (0.329)		8270D		1	04/04/15 9:31	CYD0044	CD50739
2-Chlorophenol	ND (0.329)		8270D		1	04/04/15 9:31	CYD0044	CD50739
2-Methylphenol	ND (0.329)		8270D		1	04/04/15 9:31	CYD0044	CD50739
2-Nitrophenol	ND (0.329)		8270D		1	04/04/15 9:31	CYD0044	CD50739
3,3´-Dichlorobenzidine	ND (0.659)		8270D		1	04/04/15 9:31	CYD0044	CD50739
3+4-Methylphenol	ND (0.659)		8270D		1	04/04/15 9:31	CYD0044	CD50739
4-Bromophenyl-phenylether	ND (0.329)		8270D		1	04/04/15 9:31	CYD0044	CD50739
4-Chloroaniline	ND (0.659)		8270D		1	04/04/15 9:31	CYD0044	CD50739
4-Nitrophenol	ND (1.65)		8270D		1	04/04/15 9:31	CYD0044	CD50739
Acetophenone	ND (0.659)		8270D		1	04/04/15 9:31	CYD0044	CD50739
Aniline	ND (1.65)		8270D		1	04/04/15 9:31	CYD0044	CD50739
Azobenzene	ND (0.329)		8270D		1	04/04/15 9:31	CYD0044	CD50739
bis(2-Chloroethoxy)methane	ND (0.329)		8270D		1	04/04/15 9:31	CYD0044	CD50739
bis(2-Chloroethyl)ether	ND (0.329)		8270D		1	04/04/15 9:31	CYD0044	CD50739
bis(2-chloroisopropyl)Ether	ND (0.329)		8270D		1	04/04/15 9:31	CYD0044	CD50739
bis(2-Ethylhexyl)phthalate	**0.874** (0.329)		8270D		1	04/04/15 9:31	CYD0044	CD50739
Butylbenzylphthalate	ND (0.329)		8270D		1	04/04/15 9:31	CYD0044	CD50739
Dibenzofuran	ND (0.329)		8270D		1	04/04/15 9:31	CYD0044	CD50739
Diethylphthalate	ND (0.329)		8270D		1	04/04/15 9:31	CYD0044	CD50739
Dimethylphthalate	ND (0.329)		8270D		1	04/04/15 9:31	CYD0044	CD50739
Di-n-butylphthalate	ND (0.329)		8270D		1	04/04/15 9:31	CYD0044	CD50739

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-214 0ft-0.5ft
Date Sampled: 03/30/15 10:10
Percent Solids: 50
Initial Volume: 30.1
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503559
ESS Laboratory Sample ID: 1503559-03
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 4/3/15 12:02

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Di-n-octylphthalate	ND (0.329)		8270D		1	04/04/15 9:31	CYD0044	CD50739
Hexachlorobutadiene	ND (0.329)		8270D		1	04/04/15 9:31	CYD0044	CD50739
Hexachloroethane	ND (0.329)		8270D		1	04/04/15 9:31	CYD0044	CD50739
Isophorone	ND (0.329)		8270D		1	04/04/15 9:31	CYD0044	CD50739
Nitrobenzene	ND (0.329)		8270D		1	04/04/15 9:31	CYD0044	CD50739
N-Nitrosodimethylamine	ND (0.329)		8270D		1	04/04/15 9:31	CYD0044	CD50739
Pentachlorophenol	ND (1.65)		8270D		1	04/04/15 9:31	CYD0044	CD50739
Phenol	ND (0.329)		8270D		1	04/04/15 9:31	CYD0044	CD50739

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*84 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*114 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*88 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*91 %*		*30-130*
Surrogate: 2-Fluorophenol	*83 %*		*30-130*
Surrogate: Nitrobenzene-d5	*87 %*		*30-130*
Surrogate: Phenol-d6	*90 %*		*30-130*
Surrogate: p-Terphenyl-d14	*93 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-214 0ft-0.5ft
Date Sampled: 03/30/15 10:10
Percent Solids: 50
Initial Volume: 20.5
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503559
ESS Laboratory Sample ID: 1503559-03
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 4/3/15 12:25

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	**0.049** (0.024)		8270D		1	04/10/15 7:17	CYD0151	CD50227
Acenaphthene	**0.194** (0.024)		8270D		1	04/10/15 7:17	CYD0151	CD50227
Acenaphthylene	**0.140** (0.024)		8270D		1	04/10/15 7:17	CYD0151	CD50227
Anthracene	**0.346** (0.024)		8270D		1	04/10/15 7:17	CYD0151	CD50227
Benzo(a)anthracene	**0.677** (0.024)		8270D		1	04/10/15 7:17	CYD0151	CD50227
Benzo(a)pyrene	**0.804** (0.024)		8270D		1	04/10/15 7:17	CYD0151	CD50227
Benzo(b)fluoranthene	**1.02** (0.024)		8270D		1	04/10/15 7:17	CYD0151	CD50227
Benzo(g,h,i)perylene	**0.402** (0.024)		8270D		1	04/10/15 7:17	CYD0151	CD50227
Benzo(k)fluoranthene	**0.322** (0.024)		8270D		1	04/10/15 7:17	CYD0151	CD50227
Chrysene	**0.722** (0.024)		8270D		1	04/10/15 7:17	CYD0151	CD50227
Dibenzo(a,h)Anthracene	**0.131** (0.024)		8270D		1	04/10/15 7:17	CYD0151	CD50227
Fluoranthene	**1.33** (0.024)		8270D		1	04/10/15 7:17	CYD0151	CD50227
Fluorene	**0.143** (0.024)		8270D		1	04/10/15 7:17	CYD0151	CD50227
Hexachlorobenzene	ND (0.024)		8270D		1	04/10/15 7:17	CYD0151	CD50227
Indeno(1,2,3-cd)Pyrene	**0.517** (0.024)		8270D		1	04/10/15 7:17	CYD0151	CD50227
Naphthalene	**0.200** (0.024)		8270D		1	04/10/15 7:17	CYD0151	CD50227
Phenanthrene	**0.812** (0.024)		8270D		1	04/10/15 7:17	CYD0151	CD50227
Pyrene	**1.21** (0.024)		8270D		1	04/10/15 7:17	CYD0151	CD50227

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*29 %*	*S-*	*30-130*
Surrogate: 2-Fluorobiphenyl	*49 %*		*30-130*
Surrogate: Nitrobenzene-d5	*33 %*		*30-130*
Surrogate: p-Terphenyl-d14	*56 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-214 0ft-0.5ft
Date Sampled: 03/30/15 10:10
Percent Solids: 50
Initial Volume: 30.1
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1503559
ESS Laboratory Sample ID: 1503559-03
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 4/2/15 18:04

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	**26.1** (24.7)		MADEP-EPH		1	DPS	04/04/15 11:59	CYD0058	CD50222
C19-C36 Aliphatics1	**117** (24.7)		MADEP-EPH		1	DPS	04/04/15 11:59	CYD0058	CD50222
C11-C22 Unadjusted Aromatics1	**103** (24.7)		EPH8270		1	JXS	04/03/15 19:15	CYD0054	CD50222
C11-C22 Aromatics1,2	**101** (24.7)		EPH8270			JXS	04/03/15 19:15		[CALC]

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1-Chlorooctadecane	*58 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*99 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*90 %*		*40-140*
Surrogate: O-Terphenyl	*69 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-214 2ft-4ft
Date Sampled: 03/30/15 10:10
Percent Solids: 66
Initial Volume: 30.3
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503559
ESS Laboratory Sample ID: 1503559-04
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 4/3/15 12:02

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.250)		8270D		1	04/04/15 10:07	CYD0044	CD50739
1,2-Dichlorobenzene	ND (0.250)		8270D		1	04/04/15 10:07	CYD0044	CD50739
1,3-Dichlorobenzene	ND (0.250)		8270D		1	04/04/15 10:07	CYD0044	CD50739
1,4-Dichlorobenzene	ND (0.250)		8270D		1	04/04/15 10:07	CYD0044	CD50739
2,4,5-Trichlorophenol	ND (0.250)		8270D		1	04/04/15 10:07	CYD0044	CD50739
2,4,6-Trichlorophenol	ND (0.250)		8270D		1	04/04/15 10:07	CYD0044	CD50739
2,4-Dichlorophenol	ND (0.250)		8270D		1	04/04/15 10:07	CYD0044	CD50739
2,4-Dimethylphenol	ND (0.250)		8270D		1	04/04/15 10:07	CYD0044	CD50739
2,4-Dinitrophenol	ND (1.26)		8270D		1	04/04/15 10:07	CYD0044	CD50739
2,4-Dinitrotoluene	ND (0.250)		8270D		1	04/04/15 10:07	CYD0044	CD50739
2,6-Dinitrotoluene	ND (0.250)		8270D		1	04/04/15 10:07	CYD0044	CD50739
2-Chloronaphthalene	ND (0.250)		8270D		1	04/04/15 10:07	CYD0044	CD50739
2-Chlorophenol	ND (0.250)		8270D		1	04/04/15 10:07	CYD0044	CD50739
2-Methylphenol	ND (0.250)		8270D		1	04/04/15 10:07	CYD0044	CD50739
2-Nitrophenol	ND (0.250)		8270D		1	04/04/15 10:07	CYD0044	CD50739
3,3´-Dichlorobenzidine	ND (0.501)		8270D		1	04/04/15 10:07	CYD0044	CD50739
3+4-Methylphenol	ND (0.501)		8270D		1	04/04/15 10:07	CYD0044	CD50739
4-Bromophenyl-phenylether	ND (0.250)		8270D		1	04/04/15 10:07	CYD0044	CD50739
4-Chloroaniline	ND (0.501)		8270D		1	04/04/15 10:07	CYD0044	CD50739
4-Nitrophenol	ND (1.26)		8270D		1	04/04/15 10:07	CYD0044	CD50739
Acetophenone	ND (0.501)		8270D		1	04/04/15 10:07	CYD0044	CD50739
Aniline	ND (1.26)		8270D		1	04/04/15 10:07	CYD0044	CD50739
Azobenzene	ND (0.250)		8270D		1	04/04/15 10:07	CYD0044	CD50739
bis(2-Chloroethoxy)methane	ND (0.250)		8270D		1	04/04/15 10:07	CYD0044	CD50739
bis(2-Chloroethyl)ether	ND (0.250)		8270D		1	04/04/15 10:07	CYD0044	CD50739
bis(2-chloroisopropyl)Ether	ND (0.250)		8270D		1	04/04/15 10:07	CYD0044	CD50739
bis(2-Ethylhexyl)phthalate	ND (0.250)		8270D		1	04/04/15 10:07	CYD0044	CD50739
Butylbenzylphthalate	ND (0.250)		8270D		1	04/04/15 10:07	CYD0044	CD50739
Dibenzofuran	ND (0.250)		8270D		1	04/04/15 10:07	CYD0044	CD50739
Diethylphthalate	ND (0.250)		8270D		1	04/04/15 10:07	CYD0044	CD50739
Dimethylphthalate	ND (0.250)		8270D		1	04/04/15 10:07	CYD0044	CD50739
Di-n-butylphthalate	ND (0.250)		8270D		1	04/04/15 10:07	CYD0044	CD50739

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-214 2ft-4ft
Date Sampled: 03/30/15 10:10
Percent Solids: 66
Initial Volume: 30.3
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503559
ESS Laboratory Sample ID: 1503559-04
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 4/3/15 12:02

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Di-n-octylphthalate	ND (0.250)		8270D		1	04/04/15 10:07	CYD0044	CD50739
Hexachlorobutadiene	ND (0.250)		8270D		1	04/04/15 10:07	CYD0044	CD50739
Hexachloroethane	ND (0.250)		8270D		1	04/04/15 10:07	CYD0044	CD50739
Isophorone	ND (0.250)		8270D		1	04/04/15 10:07	CYD0044	CD50739
Nitrobenzene	ND (0.250)		8270D		1	04/04/15 10:07	CYD0044	CD50739
N-Nitrosodimethylamine	ND (0.250)		8270D		1	04/04/15 10:07	CYD0044	CD50739
Pentachlorophenol	ND (1.26)		8270D		1	04/04/15 10:07	CYD0044	CD50739
Phenol	ND (0.250)		8270D		1	04/04/15 10:07	CYD0044	CD50739

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*92 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*110 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*96 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*98 %*		*30-130*
Surrogate: 2-Fluorophenol	*91 %*		*30-130*
Surrogate: Nitrobenzene-d5	*94 %*		*30-130*
Surrogate: Phenol-d6	*97 %*		*30-130*
Surrogate: p-Terphenyl-d14	*93 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-214 2ft-4ft
Date Sampled: 03/30/15 10:10
Percent Solids: 66
Initial Volume: 20.1
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503559
ESS Laboratory Sample ID: 1503559-04
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 4/3/15 12:25

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	ND (0.019)		8270D		1	04/10/15 8:06	CYD0151	CD50227
Acenaphthene	ND (0.019)		8270D		1	04/10/15 8:06	CYD0151	CD50227
Acenaphthylene	ND (0.019)		8270D		1	04/10/15 8:06	CYD0151	CD50227
Anthracene	ND (0.019)		8270D		1	04/10/15 8:06	CYD0151	CD50227
Benzo(a)anthracene	ND (0.019)		8270D		1	04/10/15 8:06	CYD0151	CD50227
Benzo(a)pyrene	ND (0.019)		8270D		1	04/10/15 8:06	CYD0151	CD50227
Benzo(b)fluoranthene	ND (0.019)		8270D		1	04/10/15 8:06	CYD0151	CD50227
Benzo(g,h,i)perylene	ND (0.019)		8270D		1	04/10/15 8:06	CYD0151	CD50227
Benzo(k)fluoranthene	ND (0.019)		8270D		1	04/10/15 8:06	CYD0151	CD50227
Chrysene	ND (0.019)		8270D		1	04/10/15 8:06	CYD0151	CD50227
Dibenzo(a,h)Anthracene	ND (0.019)		8270D		1	04/10/15 8:06	CYD0151	CD50227
Fluoranthene	ND (0.019)		8270D		1	04/10/15 8:06	CYD0151	CD50227
Fluorene	ND (0.019)		8270D		1	04/10/15 8:06	CYD0151	CD50227
Hexachlorobenzene	ND (0.019)		8270D		1	04/10/15 8:06	CYD0151	CD50227
Indeno(1,2,3-cd)Pyrene	ND (0.019)		8270D		1	04/10/15 8:06	CYD0151	CD50227
Naphthalene	ND (0.019)		8270D		1	04/10/15 8:06	CYD0151	CD50227
Phenanthrene	ND (0.019)		8270D		1	04/10/15 8:06	CYD0151	CD50227
Pyrene	ND (0.019)		8270D		1	04/10/15 8:06	CYD0151	CD50227

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*41 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*57 %*		*30-130*
Surrogate: Nitrobenzene-d5	*45 %*		*30-130*
Surrogate: p-Terphenyl-d14	*73 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-214 2ft-4ft
Date Sampled: 03/30/15 10:10
Percent Solids: 66
Initial Volume: 30.2
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1503559
ESS Laboratory Sample ID: 1503559-04
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 4/2/15 18:04

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (18.9)		MADEP-EPH		1	DPS	04/04/15 12:50	CYD0058	CD50222
C19-C36 Aliphatics1	ND (18.9)		MADEP-EPH		1	DPS	04/04/15 12:50	CYD0058	CD50222
C11-C22 Unadjusted Aromatics1	ND (18.9)		EPH8270		1	JXS	04/03/15 19:51	CYD0054	CD50222
C11-C22 Aromatics1,2	ND (18.9)		EPH8270			JXS	04/03/15 19:51		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*65 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*84 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*77 %*		*40-140*
Surrogate: O-Terphenyl	*74 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-214 4ft-6ft
Date Sampled: 03/30/15 10:10
Percent Solids: 69
Initial Volume: 30.2
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503559
ESS Laboratory Sample ID: 1503559-05
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 4/3/15 12:02

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.239)		8270D		1	04/04/15 10:43	CYD0044	CD50735
1,2-Dichlorobenzene	ND (0.239)		8270D		1	04/04/15 10:43	CYD0044	CD50735
1,3-Dichlorobenzene	ND (0.239)		8270D		1	04/04/15 10:43	CYD0044	CD50735
1,4-Dichlorobenzene	ND (0.239)		8270D		1	04/04/15 10:43	CYD0044	CD50735
2,4,5-Trichlorophenol	ND (0.239)		8270D		1	04/04/15 10:43	CYD0044	CD50735
2,4,6-Trichlorophenol	ND (0.239)		8270D		1	04/04/15 10:43	CYD0044	CD50735
2,4-Dichlorophenol	ND (0.239)		8270D		1	04/04/15 10:43	CYD0044	CD50735
2,4-Dimethylphenol	ND (0.239)		8270D		1	04/04/15 10:43	CYD0044	CD50735
2,4-Dinitrophenol	ND (1.20)		8270D		1	04/04/15 10:43	CYD0044	CD50735
2,4-Dinitrotoluene	ND (0.239)		8270D		1	04/04/15 10:43	CYD0044	CD50735
2,6-Dinitrotoluene	ND (0.239)		8270D		1	04/04/15 10:43	CYD0044	CD50735
2-Chloronaphthalene	ND (0.239)		8270D		1	04/04/15 10:43	CYD0044	CD50735
2-Chlorophenol	ND (0.239)		8270D		1	04/04/15 10:43	CYD0044	CD50735
2-Methylphenol	ND (0.239)		8270D		1	04/04/15 10:43	CYD0044	CD50735
2-Nitrophenol	ND (0.239)		8270D		1	04/04/15 10:43	CYD0044	CD50735
3,3´-Dichlorobenzidine	ND (0.479)		8270D		1	04/04/15 10:43	CYD0044	CD50735
3+4-Methylphenol	ND (0.479)		8270D		1	04/04/15 10:43	CYD0044	CD50735
4-Bromophenyl-phenylether	ND (0.239)		8270D		1	04/04/15 10:43	CYD0044	CD50735
4-Chloroaniline	ND (0.479)		8270D		1	04/04/15 10:43	CYD0044	CD50735
4-Nitrophenol	ND (1.20)		8270D		1	04/04/15 10:43	CYD0044	CD50735
Acetophenone	ND (0.479)		8270D		1	04/04/15 10:43	CYD0044	CD50735
Aniline	ND (1.20)		8270D		1	04/04/15 10:43	CYD0044	CD50735
Azobenzene	ND (0.239)		8270D		1	04/04/15 10:43	CYD0044	CD50735
bis(2-Chloroethoxy)methane	ND (0.239)		8270D		1	04/04/15 10:43	CYD0044	CD50735
bis(2-Chloroethyl)ether	ND (0.239)		8270D		1	04/04/15 10:43	CYD0044	CD50735
bis(2-chloroisopropyl)Ether	ND (0.239)		8270D		1	04/04/15 10:43	CYD0044	CD50735
bis(2-Ethylhexyl)phthalate	ND (0.239)		8270D		1	04/04/15 10:43	CYD0044	CD50735
Butylbenzylphthalate	ND (0.239)		8270D		1	04/04/15 10:43	CYD0044	CD50735
Dibenzofuran	ND (0.239)		8270D		1	04/04/15 10:43	CYD0044	CD50735
Diethylphthalate	ND (0.239)		8270D		1	04/04/15 10:43	CYD0044	CD50735
Dimethylphthalate	ND (0.239)		8270D		1	04/04/15 10:43	CYD0044	CD50735
Di-n-butylphthalate	ND (0.239)		8270D		1	04/04/15 10:43	CYD0044	CD50735

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-214 4ft-6ft
Date Sampled: 03/30/15 10:10
Percent Solids: 69
Initial Volume: 30.2
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503559
ESS Laboratory Sample ID: 1503559-05
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 4/3/15 12:02

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Di-n-octylphthalate	ND (0.239)		8270D		1	04/04/15 10:43	CYD0044	CD50735
Hexachlorobutadiene	ND (0.239)		8270D		1	04/04/15 10:43	CYD0044	CD50735
Hexachloroethane	ND (0.239)		8270D		1	04/04/15 10:43	CYD0044	CD50735
Isophorone	ND (0.239)		8270D		1	04/04/15 10:43	CYD0044	CD50735
Nitrobenzene	ND (0.239)		8270D		1	04/04/15 10:43	CYD0044	CD50735
N-Nitrosodimethylamine	ND (0.239)		8270D		1	04/04/15 10:43	CYD0044	CD50735
Pentachlorophenol	ND (1.20)		8270D		1	04/04/15 10:43	CYD0044	CD50735
Phenol	ND (0.239)		8270D		1	04/04/15 10:43	CYD0044	CD50735

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*101 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*115 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*106 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*107 %*		*30-130*
Surrogate: 2-Fluorophenol	*99 %*		*30-130*
Surrogate: Nitrobenzene-d5	*102 %*		*30-130*
Surrogate: Phenol-d6	*107 %*		*30-130*
Surrogate: p-Terphenyl-d14	*99 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-214 4ft-6ft
Date Sampled: 03/30/15 10:10
Percent Solids: 69
Initial Volume: 20.3
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503559
ESS Laboratory Sample ID: 1503559-05
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 4/3/15 12:25

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	ND (0.018)		8270D		1	04/10/15 8:55	CYD0151	CD50227
Acenaphthene	ND (0.018)		8270D		1	04/10/15 8:55	CYD0151	CD50227
Acenaphthylene	ND (0.018)		8270D		1	04/10/15 8:55	CYD0151	CD50227
Anthracene	ND (0.018)		8270D		1	04/10/15 8:55	CYD0151	CD50227
Benzo(a)anthracene	ND (0.018)		8270D		1	04/10/15 8:55	CYD0151	CD50227
Benzo(a)pyrene	ND (0.018)		8270D		1	04/10/15 8:55	CYD0151	CD50227
Benzo(b)fluoranthene	ND (0.018)		8270D		1	04/10/15 8:55	CYD0151	CD50227
Benzo(g,h,i)perylene	ND (0.018)		8270D		1	04/10/15 8:55	CYD0151	CD50227
Benzo(k)fluoranthene	ND (0.018)		8270D		1	04/10/15 8:55	CYD0151	CD50227
Chrysene	ND (0.018)		8270D		1	04/10/15 8:55	CYD0151	CD50227
Dibenzo(a,h)Anthracene	ND (0.018)		8270D		1	04/10/15 8:55	CYD0151	CD50227
Fluoranthene	ND (0.018)		8270D		1	04/10/15 8:55	CYD0151	CD50227
Fluorene	ND (0.018)		8270D		1	04/10/15 8:55	CYD0151	CD50227
Hexachlorobenzene	ND (0.018)		8270D		1	04/10/15 8:55	CYD0151	CD50227
Indeno(1,2,3-cd)Pyrene	ND (0.018)		8270D		1	04/10/15 8:55	CYD0151	CD50227
Naphthalene	ND (0.018)		8270D		1	04/10/15 8:55	CYD0151	CD50227
Phenanthrene	ND (0.018)		8270D		1	04/10/15 8:55	CYD0151	CD50227
Pyrene	ND (0.018)		8270D		1	04/10/15 8:55	CYD0151	CD50227

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*46 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*57 %*		*30-130*
Surrogate: Nitrobenzene-d5	*50 %*		*30-130*
Surrogate: p-Terphenyl-d14	*69 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-214 4ft-6ft
Date Sampled: 03/30/15 10:10
Percent Solids: 69
Initial Volume: 30.1
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1503559
ESS Laboratory Sample ID: 1503559-05
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 4/2/15 18:04

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (18.0)		MADEP-EPH		1	DPS	04/04/15 13:40	CYD0058	CD50222
C19-C36 Aliphatics1	ND (18.0)		MADEP-EPH		1	DPS	04/04/15 13:40	CYD0058	CD50222
C11-C22 Unadjusted Aromatics1	ND (18.0)		EPH8270		1	JXS	04/03/15 20:28	CYD0054	CD50222
C11-C22 Aromatics1,2	ND (18.0)		EPH8270			JXS	04/03/15 20:28		[CALC]

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1-Chlorooctadecane	*64 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*85 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*81 %*		*40-140*
Surrogate: O-Terphenyl	*75 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-214 6ft-8ft
Date Sampled: 03/30/15 10:10
Percent Solids: 74
Initial Volume: 20
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503559
ESS Laboratory Sample ID: 1503559-06
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 4/3/15 12:25

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	ND (0.017)		8270D		1	04/10/15 9:45	CYD0151	CD50227
Acenaphthene	ND (0.017)		8270D		1	04/10/15 9:45	CYD0151	CD50227
Acenaphthylene	ND (0.017)		8270D		1	04/10/15 9:45	CYD0151	CD50227
Anthracene	ND (0.017)		8270D		1	04/10/15 9:45	CYD0151	CD50227
Benzo(a)anthracene	ND (0.017)		8270D		1	04/10/15 9:45	CYD0151	CD50227
Benzo(a)pyrene	ND (0.017)		8270D		1	04/10/15 9:45	CYD0151	CD50227
Benzo(b)fluoranthene	ND (0.017)		8270D		1	04/10/15 9:45	CYD0151	CD50227
Benzo(g,h,i)perylene	ND (0.017)		8270D		1	04/10/15 9:45	CYD0151	CD50227
Benzo(k)fluoranthene	ND (0.017)		8270D		1	04/10/15 9:45	CYD0151	CD50227
Chrysene	ND (0.017)		8270D		1	04/10/15 9:45	CYD0151	CD50227
Dibenzo(a,h)Anthracene	ND (0.017)		8270D		1	04/10/15 9:45	CYD0151	CD50227
Fluoranthene	ND (0.017)		8270D		1	04/10/15 9:45	CYD0151	CD50227
Fluorene	ND (0.017)		8270D		1	04/10/15 9:45	CYD0151	CD50227
Hexachlorobenzene	ND (0.017)		8270D		1	04/10/15 9:45	CYD0151	CD50227
Indeno(1,2,3-cd)Pyrene	ND (0.017)		8270D		1	04/10/15 9:45	CYD0151	CD50227
Naphthalene	ND (0.017)		8270D		1	04/10/15 9:45	CYD0151	CD50227
Phenanthrene	ND (0.017)		8270D		1	04/10/15 9:45	CYD0151	CD50227
Pyrene	ND (0.017)		8270D		1	04/10/15 9:45	CYD0151	CD50227

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*41 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*54 %*		*30-130*
Surrogate: Nitrobenzene-d5	*44 %*		*30-130*
Surrogate: p-Terphenyl-d14	*69 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-215 0ft-0.5ft
Date Sampled: 03/30/15 10:40
Percent Solids: 57
Initial Volume: 30
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503559
ESS Laboratory Sample ID: 1503559-07
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 4/3/15 12:02

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.291)		8270D		1	04/07/15 1:42	CYD0082	CD50735
1,2-Dichlorobenzene	ND (0.291)		8270D		1	04/07/15 1:42	CYD0082	CD50735
1,3-Dichlorobenzene	ND (0.291)		8270D		1	04/07/15 1:42	CYD0082	CD50735
1,4-Dichlorobenzene	ND (0.291)		8270D		1	04/07/15 1:42	CYD0082	CD50735
2,4,5-Trichlorophenol	ND (0.291)		8270D		1	04/07/15 1:42	CYD0082	CD50735
2,4,6-Trichlorophenol	ND (0.291)		8270D		1	04/07/15 1:42	CYD0082	CD50735
2,4-Dichlorophenol	ND (0.291)		8270D		1	04/07/15 1:42	CYD0082	CD50735
2,4-Dimethylphenol	ND (0.291)		8270D		1	04/07/15 1:42	CYD0082	CD50735
2,4-Dinitrophenol	ND (1.46)		8270D		1	04/07/15 1:42	CYD0082	CD50735
2,4-Dinitrotoluene	ND (0.291)		8270D		1	04/07/15 1:42	CYD0082	CD50735
2,6-Dinitrotoluene	ND (0.291)		8270D		1	04/07/15 1:42	CYD0082	CD50735
2-Chloronaphthalene	ND (0.291)		8270D		1	04/07/15 1:42	CYD0082	CD50735
2-Chlorophenol	ND (0.291)		8270D		1	04/07/15 1:42	CYD0082	CD50735
2-Methylphenol	ND (0.291)		8270D		1	04/07/15 1:42	CYD0082	CD50735
2-Nitrophenol	ND (0.291)		8270D		1	04/07/15 1:42	CYD0082	CD50735
3,3´-Dichlorobenzidine	ND (0.583)		8270D		1	04/07/15 1:42	CYD0082	CD50735
3+4-Methylphenol	ND (0.583)		8270D		1	04/07/15 1:42	CYD0082	CD50735
4-Bromophenyl-phenylether	ND (0.291)		8270D		1	04/07/15 1:42	CYD0082	CD50735
4-Chloroaniline	ND (0.583)		8270D		1	04/07/15 1:42	CYD0082	CD50735
4-Nitrophenol	ND (1.46)		8270D		1	04/07/15 1:42	CYD0082	CD50735
Acetophenone	ND (0.583)		8270D		1	04/07/15 1:42	CYD0082	CD50735
Aniline	ND (1.46)		8270D		1	04/07/15 1:42	CYD0082	CD50735
Azobenzene	ND (0.291)		8270D		1	04/07/15 1:42	CYD0082	CD50735
bis(2-Chloroethoxy)methane	ND (0.291)		8270D		1	04/07/15 1:42	CYD0082	CD50735
bis(2-Chloroethyl)ether	ND (0.291)		8270D		1	04/07/15 1:42	CYD0082	CD50735
bis(2-chloroisopropyl)Ether	ND (0.291)		8270D		1	04/07/15 1:42	CYD0082	CD50735
bis(2-Ethylhexyl)phthalate	**1.10** (0.291)		8270D		1	04/07/15 1:42	CYD0082	CD50735
Butylbenzylphthalate	ND (0.291)		8270D		1	04/07/15 1:42	CYD0082	CD50735
Dibenzofuran	ND (0.291)		8270D		1	04/07/15 1:42	CYD0082	CD50735
Diethylphthalate	ND (0.291)		8270D		1	04/07/15 1:42	CYD0082	CD50735
Dimethylphthalate	ND (0.291)		8270D		1	04/07/15 1:42	CYD0082	CD50735
Di-n-butylphthalate	ND (0.291)		8270D		1	04/07/15 1:42	CYD0082	CD50735

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-215 0ft-0.5ft
Date Sampled: 03/30/15 10:40
Percent Solids: 57
Initial Volume: 30
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503559
ESS Laboratory Sample ID: 1503559-07
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 4/3/15 12:02

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Di-n-octylphthalate	ND (0.291)		8270D		1	04/07/15 1:42	CYD0082	CD50735
Hexachlorobutadiene	ND (0.291)		8270D		1	04/07/15 1:42	CYD0082	CD50735
Hexachloroethane	ND (0.291)		8270D		1	04/07/15 1:42	CYD0082	CD50735
Isophorone	ND (0.291)		8270D		1	04/07/15 1:42	CYD0082	CD50735
Nitrobenzene	ND (0.291)		8270D		1	04/07/15 1:42	CYD0082	CD50735
N-Nitrosodimethylamine	ND (0.291)		8270D		1	04/07/15 1:42	CYD0082	CD50735
Pentachlorophenol	ND (1.46)		8270D		1	04/07/15 1:42	CYD0082	CD50735
Phenol	ND (0.291)		8270D		1	04/07/15 1:42	CYD0082	CD50735

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*71 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*99 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*78 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*76 %*		*30-130*
Surrogate: 2-Fluorophenol	*73 %*		*30-130*
Surrogate: Nitrobenzene-d5	*74 %*		*30-130*
Surrogate: Phenol-d6	*80 %*		*30-130*
Surrogate: p-Terphenyl-d14	*82 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-215 0ft-0.5ft
Date Sampled: 03/30/15 10:40
Percent Solids: 57
Initial Volume: 20.4
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503559
ESS Laboratory Sample ID: 1503559-07
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 4/3/15 12:25

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	**0.030** (0.021)		8270D		1	04/10/15 10:33	CYD0151	CD50227
Acenaphthene	**0.039** (0.021)		8270D		1	04/10/15 10:33	CYD0151	CD50227
Acenaphthylene	**0.081** (0.021)		8270D		1	04/10/15 10:33	CYD0151	CD50227
Anthracene	**0.161** (0.021)		8270D		1	04/10/15 10:33	CYD0151	CD50227
Benzo(a)anthracene	**0.327** (0.021)		8270D		1	04/10/15 10:33	CYD0151	CD50227
Benzo(a)pyrene	**0.382** (0.021)		8270D		1	04/10/15 10:33	CYD0151	CD50227
Benzo(b)fluoranthene	**0.512** (0.021)		8270D		1	04/10/15 10:33	CYD0151	CD50227
Benzo(g,h,i)perylene	**0.217** (0.021)		8270D		1	04/10/15 10:33	CYD0151	CD50227
Benzo(k)fluoranthene	**0.145** (0.021)		8270D		1	04/10/15 10:33	CYD0151	CD50227
Chrysene	**0.371** (0.021)		8270D		1	04/10/15 10:33	CYD0151	CD50227
Dibenzo(a,h)Anthracene	**0.060** (0.021)		8270D		1	04/10/15 10:33	CYD0151	CD50227
Fluoranthene	**0.695** (0.021)		8270D		1	04/10/15 10:33	CYD0151	CD50227
Fluorene	**0.053** (0.021)		8270D		1	04/10/15 10:33	CYD0151	CD50227
Hexachlorobenzene	ND (0.021)		8270D		1	04/10/15 10:33	CYD0151	CD50227
Indeno(1,2,3-cd)Pyrene	**0.265** (0.021)		8270D		1	04/10/15 10:33	CYD0151	CD50227
Naphthalene	**0.130** (0.021)		8270D		1	04/10/15 10:33	CYD0151	CD50227
Phenanthrene	**0.445** (0.021)		8270D		1	04/10/15 10:33	CYD0151	CD50227
Pyrene	**0.654** (0.021)		8270D		1	04/10/15 10:33	CYD0151	CD50227

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*38 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*54 %*		*30-130*
Surrogate: Nitrobenzene-d5	*42 %*		*30-130*
Surrogate: p-Terphenyl-d14	*67 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-215 0ft-0.5ft
Date Sampled: 03/30/15 10:40
Percent Solids: 57
Initial Volume: 30.3
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1503559
ESS Laboratory Sample ID: 1503559-07
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 4/2/15 18:04

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (21.6)		MADEP-EPH		1	JXS	04/04/15 17:53	CYD0058	CD50222
C19-C36 Aliphatics1	**64.9** (21.6)		MADEP-EPH		1	JXS	04/04/15 17:53	CYD0058	CD50222
C11-C22 Unadjusted Aromatics1	**37.6** (21.6)		EPH8270		1	JXS	04/03/15 22:17	CYD0054	CD50222
C11-C22 Aromatics1,2	**37.6** (21.6)		EPH8270			JXS	04/03/15 22:17		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*73 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*92 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*84 %*		*40-140*
Surrogate: O-Terphenyl	*72 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-215 4ft-6ft
Date Sampled: 03/30/15 10:40
Percent Solids: 80
Initial Volume: 20.2
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503559
ESS Laboratory Sample ID: 1503559-08
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 4/3/15 12:25

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	ND (0.015)		8270D		1	04/11/15 10:17	CYD0158	CD50227
Acenaphthene	ND (0.015)		8270D		1	04/11/15 10:17	CYD0158	CD50227
Acenaphthylene	ND (0.015)		8270D		1	04/11/15 10:17	CYD0158	CD50227
Anthracene	ND (0.015)		8270D		1	04/11/15 10:17	CYD0158	CD50227
Benzo(a)anthracene	ND (0.015)		8270D		1	04/11/15 10:17	CYD0158	CD50227
Benzo(a)pyrene	ND (0.015)		8270D		1	04/11/15 10:17	CYD0158	CD50227
Benzo(b)fluoranthene	ND (0.015)		8270D		1	04/11/15 10:17	CYD0158	CD50227
Benzo(g,h,i)perylene	ND (0.015)		8270D		1	04/11/15 10:17	CYD0158	CD50227
Benzo(k)fluoranthene	ND (0.015)		8270D		1	04/11/15 10:17	CYD0158	CD50227
Chrysene	ND (0.015)		8270D		1	04/11/15 10:17	CYD0158	CD50227
Dibenzo(a,h)Anthracene	ND (0.015)		8270D		1	04/11/15 10:17	CYD0158	CD50227
Fluoranthene	ND (0.015)		8270D		1	04/11/15 10:17	CYD0158	CD50227
Fluorene	ND (0.015)		8270D		1	04/11/15 10:17	CYD0158	CD50227
Hexachlorobenzene	ND (0.015)		8270D		1	04/11/15 10:17	CYD0158	CD50227
Indeno(1,2,3-cd)Pyrene	ND (0.015)		8270D		1	04/11/15 10:17	CYD0158	CD50227
Naphthalene	ND (0.015)		8270D		1	04/11/15 10:17	CYD0158	CD50227
Phenanthrene	ND (0.015)		8270D		1	04/11/15 10:17	CYD0158	CD50227
Pyrene	ND (0.015)		8270D		1	04/11/15 10:17	CYD0158	CD50227

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*36 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*49 %*		*30-130*
Surrogate: Nitrobenzene-d5	*40 %*		*30-130*
Surrogate: p-Terphenyl-d14	*55 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-215 0ft-3ft
Date Sampled: 03/30/15 10:40
Percent Solids: 77
Initial Volume: 18.8
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1503559
ESS Laboratory Sample ID: 1503559-09
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.0017)		8260B Low		1	04/02/15 13:06	CYD0025	CD50239
1,1,1-Trichloroethane	ND (0.0017)		8260B Low		1	04/02/15 13:06	CYD0025	CD50239
1,1,2,2-Tetrachloroethane	ND (0.0007)		8260B Low		1	04/02/15 13:06	CYD0025	CD50239
1,1,2-Trichloroethane	ND (0.0017)		8260B Low		1	04/02/15 13:06	CYD0025	CD50239
1,1-Dichloroethane	ND (0.0017)		8260B Low		1	04/02/15 13:06	CYD0025	CD50239
1,1-Dichloroethene	ND (0.0017)		8260B Low		1	04/02/15 13:06	CYD0025	CD50239
1,1-Dichloropropene	ND (0.0017)		8260B Low		1	04/02/15 13:06	CYD0025	CD50239
1,2,3-Trichlorobenzene	ND (0.0017)		8260B Low		1	04/02/15 13:06	CYD0025	CD50239
1,2,3-Trichloropropane	ND (0.0017)		8260B Low		1	04/02/15 13:06	CYD0025	CD50239
1,2,4-Trichlorobenzene	ND (0.0017)		8260B Low		1	04/02/15 13:06	CYD0025	CD50239
1,2,4-Trimethylbenzene	ND (0.0017)		8260B Low		1	04/02/15 13:06	CYD0025	CD50239
1,2-Dibromo-3-Chloropropane	ND (0.0017)		8260B Low		1	04/02/15 13:06	CYD0025	CD50239
1,2-Dibromoethane	ND (0.0017)		8260B Low		1	04/02/15 13:06	CYD0025	CD50239
1,2-Dichlorobenzene	ND (0.0017)		8260B Low		1	04/02/15 13:06	CYD0025	CD50239
1,2-Dichloroethane	ND (0.0017)		8260B Low		1	04/02/15 13:06	CYD0025	CD50239
1,2-Dichloropropane	ND (0.0017)		8260B Low		1	04/02/15 13:06	CYD0025	CD50239
1,3,5-Trimethylbenzene	ND (0.0017)		8260B Low		1	04/02/15 13:06	CYD0025	CD50239
1,3-Dichlorobenzene	ND (0.0017)		8260B Low		1	04/02/15 13:06	CYD0025	CD50239
1,3-Dichloropropane	ND (0.0017)		8260B Low		1	04/02/15 13:06	CYD0025	CD50239
1,4-Dichlorobenzene	ND (0.0017)		8260B Low		1	04/02/15 13:06	CYD0025	CD50239
1,4-Dioxane	ND (0.0348)		8260B Low		1	04/02/15 13:06	CYD0025	CD50239
2,2-Dichloropropane	ND (0.0017)		8260B Low		1	04/02/15 13:06	CYD0025	CD50239
2-Butanone	ND (0.0035)		8260B Low		1	04/02/15 13:06	CYD0025	CD50239
2-Chlorotoluene	ND (0.0017)		8260B Low		1	04/02/15 13:06	CYD0025	CD50239
2-Hexanone	ND (0.0035)		8260B Low		1	04/02/15 13:06	CYD0025	CD50239
4-Chlorotoluene	ND (0.0017)		8260B Low		1	04/02/15 13:06	CYD0025	CD50239
4-Isopropyltoluene	ND (0.0017)		8260B Low		1	04/02/15 13:06	CYD0025	CD50239
4-Methyl-2-Pentanone	ND (0.0035)		8260B Low		1	04/02/15 13:06	CYD0025	CD50239
Acetone	**0.0171** (0.0035)		8260B Low		1	04/02/15 13:06	CYD0025	CD50239
Benzene	ND (0.0017)		8260B Low		1	04/02/15 13:06	CYD0025	CD50239
Bromobenzene	ND (0.0017)		8260B Low		1	04/02/15 13:06	CYD0025	CD50239
Bromochloromethane	ND (0.0017)		8260B Low		1	04/02/15 13:06	CYD0025	CD50239

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-215 0ft-3ft
Date Sampled: 03/30/15 10:40
Percent Solids: 77
Initial Volume: 18.8
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1503559
ESS Laboratory Sample ID: 1503559-09
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Bromodichloromethane	ND (0.0017)		8260B Low		1	04/02/15 13:06	CYD0025	CD50239
Bromoform	ND (0.0017)		8260B Low		1	04/02/15 13:06	CYD0025	CD50239
Bromomethane	ND (0.0035)		8260B Low		1	04/02/15 13:06	CYD0025	CD50239
Carbon Disulfide	**0.0066** (0.0017)		8260B Low		1	04/02/15 13:06	CYD0025	CD50239
Carbon Tetrachloride	ND (0.0017)		8260B Low		1	04/02/15 13:06	CYD0025	CD50239
Chlorobenzene	ND (0.0017)		8260B Low		1	04/02/15 13:06	CYD0025	CD50239
Chloroethane	ND (0.0035)		8260B Low		1	04/02/15 13:06	CYD0025	CD50239
Chloroform	ND (0.0017)		8260B Low		1	04/02/15 13:06	CYD0025	CD50239
Chloromethane	ND (0.0035)		8260B Low		1	04/02/15 13:06	CYD0025	CD50239
cis-1,2-Dichloroethene	ND (0.0017)		8260B Low		1	04/02/15 13:06	CYD0025	CD50239
cis-1,3-Dichloropropene	ND (0.0017)		8260B Low		1	04/02/15 13:06	CYD0025	CD50239
Dibromochloromethane	ND (0.0007)		8260B Low		1	04/02/15 13:06	CYD0025	CD50239
Dibromomethane	ND (0.0017)		8260B Low		1	04/02/15 13:06	CYD0025	CD50239
Dichlorodifluoromethane	ND (0.0035)		8260B Low		1	04/02/15 13:06	CYD0025	CD50239
Diethyl Ether	ND (0.0017)		8260B Low		1	04/02/15 13:06	CYD0025	CD50239
Di-isopropyl ether	ND (0.0017)		8260B Low		1	04/02/15 13:06	CYD0025	CD50239
Ethyl tertiary-butyl ether	ND (0.0017)		8260B Low		1	04/02/15 13:06	CYD0025	CD50239
Ethylbenzene	ND (0.0017)		8260B Low		1	04/02/15 13:06	CYD0025	CD50239
Hexachlorobutadiene	ND (0.0017)		8260B Low		1	04/02/15 13:06	CYD0025	CD50239
Isopropylbenzene	ND (0.0017)		8260B Low		1	04/02/15 13:06	CYD0025	CD50239
Methyl tert-Butyl Ether	ND (0.0017)		8260B Low		1	04/02/15 13:06	CYD0025	CD50239
Methylene Chloride	ND (0.0035)		8260B Low		1	04/02/15 13:06	CYD0025	CD50239
Naphthalene	ND (0.0017)		8260B Low		1	04/02/15 13:06	CYD0025	CD50239
n-Butylbenzene	ND (0.0017)		8260B Low		1	04/02/15 13:06	CYD0025	CD50239
n-Propylbenzene	ND (0.0017)		8260B Low		1	04/02/15 13:06	CYD0025	CD50239
sec-Butylbenzene	ND (0.0017)		8260B Low		1	04/02/15 13:06	CYD0025	CD50239
Styrene	ND (0.0017)		8260B Low		1	04/02/15 13:06	CYD0025	CD50239
tert-Butylbenzene	ND (0.0017)		8260B Low		1	04/02/15 13:06	CYD0025	CD50239
Tertiary-amyl methyl ether	ND (0.0017)		8260B Low		1	04/02/15 13:06	CYD0025	CD50239
Tetrachloroethene	ND (0.0017)		8260B Low		1	04/02/15 13:06	CYD0025	CD50239
Tetrahydrofuran	ND (0.0017)		8260B Low		1	04/02/15 13:06	CYD0025	CD50239
Toluene	ND (0.0017)		8260B Low		1	04/02/15 13:06	CYD0025	CD50239

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-215 0ft-3ft
Date Sampled: 03/30/15 10:40
Percent Solids: 77
Initial Volume: 18.8
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1503559
ESS Laboratory Sample ID: 1503559-09
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
trans-1,2-Dichloroethene	ND (0.0017)		8260B Low		1	04/02/15 13:06	CYD0025	CD50239
trans-1,3-Dichloropropene	ND (0.0017)		8260B Low		1	04/02/15 13:06	CYD0025	CD50239
Trichloroethene	ND (0.0017)		8260B Low		1	04/02/15 13:06	CYD0025	CD50239
Trichlorofluoromethane	ND (0.0017)		8260B Low		1	04/02/15 13:06	CYD0025	CD50239
Vinyl Chloride	ND (0.0035)		8260B Low		1	04/02/15 13:06	CYD0025	CD50239
Xylene O	ND (0.0017)		8260B Low		1	04/02/15 13:06	CYD0025	CD50239
Xylene P,M	ND (0.0035)		8260B Low		1	04/02/15 13:06	CYD0025	CD50239
Xylenes (Total)	ND (0.0035)		8260B Low		1	04/02/15 13:06		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*97 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*84 %*		*70-130*
Surrogate: Dibromofluoromethane	*90 %*		*70-130*
Surrogate: Toluene-d8	*90 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-215 0ft-3ft
Date Sampled: 03/30/15 10:40
Percent Solids: 77
Initial Volume: 30.3
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503559
ESS Laboratory Sample ID: 1503559-09
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 4/3/15 12:02

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.215)		8270D		1	04/07/15 2:17	CYD0082	CD50735
1,2-Dichlorobenzene	ND (0.215)		8270D		1	04/07/15 2:17	CYD0082	CD50735
1,3-Dichlorobenzene	ND (0.215)		8270D		1	04/07/15 2:17	CYD0082	CD50735
1,4-Dichlorobenzene	ND (0.215)		8270D		1	04/07/15 2:17	CYD0082	CD50735
2,4,5-Trichlorophenol	ND (0.215)		8270D		1	04/07/15 2:17	CYD0082	CD50735
2,4,6-Trichlorophenol	ND (0.215)		8270D		1	04/07/15 2:17	CYD0082	CD50735
2,4-Dichlorophenol	ND (0.215)		8270D		1	04/07/15 2:17	CYD0082	CD50735
2,4-Dimethylphenol	ND (0.215)		8270D		1	04/07/15 2:17	CYD0082	CD50735
2,4-Dinitrophenol	ND (1.08)		8270D		1	04/07/15 2:17	CYD0082	CD50735
2,4-Dinitrotoluene	ND (0.215)		8270D		1	04/07/15 2:17	CYD0082	CD50735
2,6-Dinitrotoluene	ND (0.215)		8270D		1	04/07/15 2:17	CYD0082	CD50735
2-Chloronaphthalene	ND (0.215)		8270D		1	04/07/15 2:17	CYD0082	CD50735
2-Chlorophenol	ND (0.215)		8270D		1	04/07/15 2:17	CYD0082	CD50735
2-Methylphenol	ND (0.215)		8270D		1	04/07/15 2:17	CYD0082	CD50735
2-Nitrophenol	ND (0.215)		8270D		1	04/07/15 2:17	CYD0082	CD50735
3,3´-Dichlorobenzidine	ND (0.431)		8270D		1	04/07/15 2:17	CYD0082	CD50735
3+4-Methylphenol	ND (0.431)		8270D		1	04/07/15 2:17	CYD0082	CD50735
4-Bromophenyl-phenylether	ND (0.215)		8270D		1	04/07/15 2:17	CYD0082	CD50735
4-Chloroaniline	ND (0.431)		8270D		1	04/07/15 2:17	CYD0082	CD50735
4-Nitrophenol	ND (1.08)		8270D		1	04/07/15 2:17	CYD0082	CD50735
Acetophenone	ND (0.431)		8270D		1	04/07/15 2:17	CYD0082	CD50735
Aniline	ND (1.08)		8270D		1	04/07/15 2:17	CYD0082	CD50735
Azobenzene	ND (0.215)		8270D		1	04/07/15 2:17	CYD0082	CD50735
bis(2-Chloroethoxy)methane	ND (0.215)		8270D		1	04/07/15 2:17	CYD0082	CD50735
bis(2-Chloroethyl)ether	ND (0.215)		8270D		1	04/07/15 2:17	CYD0082	CD50735
bis(2-chloroisopropyl)Ether	ND (0.215)		8270D		1	04/07/15 2:17	CYD0082	CD50735
bis(2-Ethylhexyl)phthalate	ND (0.215)		8270D		1	04/07/15 2:17	CYD0082	CD50735
Butylbenzylphthalate	ND (0.215)		8270D		1	04/07/15 2:17	CYD0082	CD50735
Dibenzofuran	ND (0.215)		8270D		1	04/07/15 2:17	CYD0082	CD50735
Diethylphthalate	ND (0.215)		8270D		1	04/07/15 2:17	CYD0082	CD50735
Dimethylphthalate	ND (0.215)		8270D		1	04/07/15 2:17	CYD0082	CD50735
Di-n-butylphthalate	ND (0.215)		8270D		1	04/07/15 2:17	CYD0082	CD50735

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-215 0ft-3ft
Date Sampled: 03/30/15 10:40
Percent Solids: 77
Initial Volume: 30.3
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1503559
ESS Laboratory Sample ID: 1503559-09
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 4/3/15 12:02

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Di-n-octylphthalate	ND (0.215)		8270D		1	04/07/15 2:17	CYD0082	CD50735
Hexachlorobutadiene	ND (0.215)		8270D		1	04/07/15 2:17	CYD0082	CD50735
Hexachloroethane	ND (0.215)		8270D		1	04/07/15 2:17	CYD0082	CD50735
Isophorone	ND (0.215)		8270D		1	04/07/15 2:17	CYD0082	CD50735
Nitrobenzene	ND (0.215)		8270D		1	04/07/15 2:17	CYD0082	CD50735
N-Nitrosodimethylamine	ND (0.215)		8270D		1	04/07/15 2:17	CYD0082	CD50735
Pentachlorophenol	ND (1.08)		8270D		1	04/07/15 2:17	CYD0082	CD50735
Phenol	ND (0.215)		8270D		1	04/07/15 2:17	CYD0082	CD50735

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*99 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*114 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*106 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*107 %*		*30-130*
Surrogate: 2-Fluorophenol	*100 %*		*30-130*
Surrogate: Nitrobenzene-d5	*103 %*		*30-130*
Surrogate: Phenol-d6	*108 %*		*30-130*
Surrogate: p-Terphenyl-d14	*97 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-215 0ft-3ft
Date Sampled: 03/30/15 10:40
Percent Solids: 77

ESS Laboratory Work Order: 1503559
ESS Laboratory Sample ID: 1503559-09
Sample Matrix: Soil

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Corrosivity (pH)	**H 7.39** (N/A)		9045		1	JLK	04/01/15 11:12	S.U.	CD50119
Corrosivity (pH) Sample Temp	**Soil pH measured in water at 14.3 °C.**								
Eh (ORP)	**H, WL 177** (N/A)		2580		1	JLK	04/01/15 11:12	mv	CD50120
Grain Size	**See Attached** (N/A)								
Hexavalent Chromium	ND (0.5)		7196A		1	EEM	04/06/15 14:20	mg/kg dry	CD50609
Percent Water	**See Attached** (N/A)								
Reactive Cyanide	ND (2.0)		7.3.3.2		1	JLK	04/01/15 11:34	mg/kg	CD50128
Reactive Sulfide	ND (2.0)		7.3.4.1		1	JLK	04/01/15 11:34	mg/kg	CD50128

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-215 0ft-3ft
Date Sampled: 03/30/15 10:40
Percent Solids: 77
Initial Volume: 30.3
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1503559
ESS Laboratory Sample ID: 1503559-09
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 4/2/15 18:04

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (16.2)		MADEP-EPH		1	JXS	04/04/15 18:44	CYD0058	CD50222
C19-C36 Aliphatics1	ND (16.2)		MADEP-EPH		1	JXS	04/04/15 18:44	CYD0058	CD50222
C11-C22 Unadjusted Aromatics1	**17.1** (16.2)		EPH8270		1	JXS	04/03/15 22:53	CYD0054	CD50222
C11-C22 Aromatics1,2	**17.1** (16.2)		EPH8270			JXS	04/03/15 22:53		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*61 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*91 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*85 %*		*40-140*
Surrogate: O-Terphenyl	*72 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-224 0ft-0.5ft
Date Sampled: 03/30/15 09:45
Percent Solids: 100

ESS Laboratory Work Order: 1503559
ESS Laboratory Sample ID: 1503559-10
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (4.13)		6020A		50	NAR	04/09/15 19:31	2.42	100	CD50830
Arsenic	**70.7** (8.26)		7010		40	KJK	04/11/15 4:44	2.42	100	CD50830
Barium	**35.5** (2.07)		6010C		1	KJK	04/09/15 13:17	2.42	100	CD50830
Beryllium	ND (0.41)		6020A		50	NAR	04/09/15 19:31	2.42	100	CD50830
Cadmium	ND (0.41)		6020A		50	NAR	04/09/15 19:31	2.42	100	CD50830
Chromium	**85.5** (0.83)		6010C		1	KJK	04/09/15 13:17	2.42	100	CD50830
Lead	**649** (4.13)		6010C		1	KJK	04/09/15 13:17	2.42	100	CD50830
Mercury	**0.672** (0.064)		7471B		2	BJV	04/09/15 15:41	0.62	40	CD50831
Nickel	**84.4** (2.07)		6010C		1	NAR	04/09/15 13:17	2.42	100	CD50830
Selenium	ND (8.26)		6020A		50	NAR	04/09/15 19:31	2.42	100	CD50830
Silver	**4.08** (1.65)		6010C		4	KJK	04/10/15 14:02	2.42	100	CD50830
Thallium	ND (0.33)		7010		4	KJK	04/10/15 9:50	2.42	100	CD50830
Vanadium	**54.2** (0.83)		6010C		1	KJK	04/09/15 13:17	2.42	100	CD50830
Zinc	**217** (2.07)		6010C		1	KJK	04/09/15 13:17	2.42	100	CD50830

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-224 0.5ft-2ft
Date Sampled: 03/30/15 09:45
Percent Solids: 100

ESS Laboratory Work Order: 1503559
ESS Laboratory Sample ID: 1503559-11
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (4.20)		6010C		1	KJK	04/09/15 13:44	2.38	100	CD50830
Arsenic	**185** (2.10)		6010C		1	KJK	04/09/15 13:44	2.38	100	CD50830
Barium	**64.0** (2.10)		6010C		1	KJK	04/09/15 13:44	2.38	100	CD50830
Beryllium	**0.64** (0.09)		6010C		1	KJK	04/09/15 13:44	2.38	100	CD50830
Cadmium	**2.47** (0.42)		6010C		1	KJK	04/09/15 13:44	2.38	100	CD50830
Chromium	**71.2** (0.84)		6010C		1	KJK	04/09/15 13:44	2.38	100	CD50830
Lead	**919** (4.20)		6010C		1	KJK	04/09/15 13:44	2.38	100	CD50830
Mercury	**10.6** (3.19)		7471B		100	BJV	04/09/15 15:48	0.62	40	CD50831
Nickel	**15.3** (2.10)		6010C		1	NAR	04/09/15 13:44	2.38	100	CD50830
Selenium	**66.5** (8.40)		7010		20	NAR	04/13/15 15:23	2.38	100	CD50830
Silver	**0.68** (0.42)		6010C		1	KJK	04/09/15 13:44	2.38	100	CD50830
Thallium	ND (0.34)		7010		4	KJK	04/10/15 10:47	2.38	100	CD50830
Vanadium	**41.4** (0.84)		6010C		1	KJK	04/09/15 13:44	2.38	100	CD50830
Zinc	**679** (2.10)		6010C		1	KJK	04/09/15 13:44	2.38	100	CD50830

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-214 0ft-0.5ft
Date Sampled: 03/30/15 10:10
Percent Solids: 100

ESS Laboratory Work Order: 1503559
ESS Laboratory Sample ID: 1503559-12
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (3.97)		6020A		50	NAR	04/09/15 20:18	2.52	100	CD50830
Arsenic	**43.7** (1.98)		6010C		1	KJK	04/09/15 13:50	2.52	100	CD50830
Barium	**42.7** (1.98)		6010C		1	KJK	04/09/15 13:50	2.52	100	CD50830
Beryllium	**0.35** (0.09)		6010C		1	KJK	04/09/15 13:50	2.52	100	CD50830
Cadmium	**0.42** (0.40)		6010C		1	KJK	04/09/15 13:50	2.52	100	CD50830
Chromium	**38.0** (0.79)		6010C		1	KJK	04/09/15 13:50	2.52	100	CD50830
Lead	**263** (3.97)		6010C		1	KJK	04/09/15 13:50	2.52	100	CD50830
Mercury	**0.847** (0.136)		7471B		5	BJV	04/09/15 15:49	0.73	40	CD50831
Nickel	**19.2** (1.98)		6010C		1	NAR	04/09/15 13:50	2.52	100	CD50830
Selenium	ND (7.94)		6020A		50	NAR	04/09/15 20:18	2.52	100	CD50830
Silver	**0.65** (0.40)		6010C		1	KJK	04/09/15 13:50	2.52	100	CD50830
Thallium	ND (0.32)		7010		4	KJK	04/10/15 10:52	2.52	100	CD50830
Vanadium	**56.8** (0.79)		6010C		1	KJK	04/09/15 13:50	2.52	100	CD50830
Zinc	**205** (1.98)		6010C		1	KJK	04/09/15 13:50	2.52	100	CD50830

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-214 2ft-4ft
Date Sampled: 03/30/15 10:10
Percent Solids: 100

ESS Laboratory Work Order: 1503559
ESS Laboratory Sample ID: 1503559-13
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (4.05)		6020A		50	NAR	04/09/15 20:24	2.47	100	CD50830
Arsenic	ND (2.02)		6010C		1	KJK	04/09/15 14:08	2.47	100	CD50830
Barium	**22.0** (2.02)		6010C		1	KJK	04/09/15 14:08	2.47	100	CD50830
Beryllium	**0.41** (0.09)		6010C		1	KJK	04/09/15 14:08	2.47	100	CD50830
Cadmium	ND (0.40)		6010C		1	KJK	04/09/15 14:08	2.47	100	CD50830
Chromium	**19.9** (0.81)		6010C		1	KJK	04/09/15 14:08	2.47	100	CD50830
Lead	**5.70** (4.05)		6010C		1	KJK	04/09/15 14:08	2.47	100	CD50830
Mercury	ND (0.032)		7471B		1	BJV	04/09/15 13:34	0.62	40	CD50831
Nickel	**12.1** (2.02)		6010C		1	NAR	04/09/15 14:08	2.47	100	CD50830
Selenium	ND (8.10)		6020A		50	NAR	04/09/15 20:24	2.47	100	CD50830
Silver	ND (0.40)		6010C		1	KJK	04/09/15 14:08	2.47	100	CD50830
Thallium	ND (0.32)		7010		4	KJK	04/10/15 10:58	2.47	100	CD50830
Vanadium	**26.2** (0.81)		6010C		1	KJK	04/09/15 14:08	2.47	100	CD50830
Zinc	**31.8** (2.02)		6010C		1	KJK	04/09/15 14:08	2.47	100	CD50830

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-214 4ft-6ft
Date Sampled: 03/30/15 10:10
Percent Solids: 100

ESS Laboratory Work Order: 1503559
ESS Laboratory Sample ID: 1503559-14
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (4.02)		6010C		1	KJK	04/09/15 14:12	2.49	100	CD50830
Arsenic	ND (2.01)		6010C		1	KJK	04/09/15 14:12	2.49	100	CD50830
Barium	**15.0** (2.01)		6010C		1	KJK	04/09/15 14:12	2.49	100	CD50830
Beryllium	**0.28** (0.09)		6010C		1	KJK	04/09/15 14:12	2.49	100	CD50830
Cadmium	ND (0.40)		6010C		1	KJK	04/09/15 14:12	2.49	100	CD50830
Chromium	**14.1** (0.80)		6010C		1	KJK	04/09/15 14:12	2.49	100	CD50830
Lead	ND (4.02)		6010C		1	KJK	04/09/15 14:12	2.49	100	CD50830
Mercury	ND (0.030)		7471B		1	BJV	04/09/15 13:39	0.65	40	CD50831
Nickel	**8.76** (2.01)		6010C		1	NAR	04/09/15 14:12	2.49	100	CD50830
Selenium	ND (8.03)		6020A		50	NAR	04/09/15 20:30	2.49	100	CD50830
Silver	ND (0.40)		6010C		1	KJK	04/09/15 14:12	2.49	100	CD50830
Thallium	ND (0.32)		7010		4	KJK	04/10/15 11:03	2.49	100	CD50830
Vanadium	**19.1** (0.80)		6010C		1	KJK	04/09/15 14:12	2.49	100	CD50830
Zinc	**22.6** (2.01)		6010C		1	KJK	04/09/15 14:12	2.49	100	CD50830

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-214 6ft-8ft
Date Sampled: 03/30/15 10:10
Percent Solids: 100

ESS Laboratory Work Order: 1503559
ESS Laboratory Sample ID: 1503559-15
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (3.77)		6010C		1	KJK	04/09/15 14:16	2.65	100	CD50830
Arsenic	**3.31** (1.89)		6010C		1	KJK	04/09/15 14:16	2.65	100	CD50830
Barium	**14.3** (1.89)		6010C		1	KJK	04/09/15 14:16	2.65	100	CD50830
Beryllium	**0.27** (0.08)		6010C		1	KJK	04/09/15 14:16	2.65	100	CD50830
Cadmium	ND (0.38)		6010C		1	KJK	04/09/15 14:16	2.65	100	CD50830
Chromium	**13.2** (0.75)		6010C		1	KJK	04/09/15 14:16	2.65	100	CD50830
Lead	ND (3.77)		6010C		1	KJK	04/09/15 14:16	2.65	100	CD50830
Mercury	ND (0.029)		7471B		1	BJV	04/09/15 13:41	0.69	40	CD50831
Nickel	**8.11** (1.89)		6010C		1	NAR	04/09/15 14:16	2.65	100	CD50830
Selenium	ND (7.55)		6020A		50	NAR	04/09/15 20:36	2.65	100	CD50830
Silver	ND (0.38)		6010C		1	KJK	04/09/15 14:16	2.65	100	CD50830
Thallium	ND (0.30)		7010		4	KJK	04/10/15 11:09	2.65	100	CD50830
Vanadium	**18.6** (0.75)		6010C		1	KJK	04/09/15 14:16	2.65	100	CD50830
Zinc	**23.8** (1.89)		6010C		1	KJK	04/09/15 14:16	2.65	100	CD50830

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-215 0ft-0.5ft
Date Sampled: 03/30/15 10:40
Percent Solids: 100

ESS Laboratory Work Order: 1503559
ESS Laboratory Sample ID: 1503559-16
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (4.13)		6020A		50	NAR	04/09/15 20:42	2.42	100	CD50830
Arsenic	**45.8** (2.07)		6010C		1	KJK	04/09/15 14:20	2.42	100	CD50830
Barium	**30.9** (2.07)		6010C		1	KJK	04/09/15 14:20	2.42	100	CD50830
Beryllium	**0.34** (0.09)		6010C		1	KJK	04/09/15 14:20	2.42	100	CD50830
Cadmium	**0.53** (0.41)		6010C		1	KJK	04/09/15 14:20	2.42	100	CD50830
Chromium	**37.1** (0.83)		6010C		1	KJK	04/09/15 14:20	2.42	100	CD50830
Lead	**234** (4.13)		6010C		1	KJK	04/09/15 14:20	2.42	100	CD50830
Mercury	**0.982** (0.148)		7471B		5	BJV	04/09/15 15:54	0.67	40	CD50831
Nickel	**15.3** (2.07)		6010C		1	NAR	04/09/15 14:20	2.42	100	CD50830
Selenium	ND (8.26)		6020A		50	NAR	04/09/15 20:42	2.42	100	CD50830
Silver	**0.54** (0.41)		6010C		1	KJK	04/09/15 14:20	2.42	100	CD50830
Thallium	ND (0.33)		7010		4	KJK	04/10/15 11:14	2.42	100	CD50830
Vanadium	**53.2** (0.83)		6010C		1	KJK	04/09/15 14:20	2.42	100	CD50830
Zinc	**227** (2.07)		6010C		1	KJK	04/09/15 14:20	2.42	100	CD50830

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-215 4ft-6ft
Date Sampled: 03/30/15 10:40
Percent Solids: 100

ESS Laboratory Work Order: 1503559
ESS Laboratory Sample ID: 1503559-17
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (4.12)		6010C		1	KJK	04/09/15 14:26	2.43	100	CD50830
Arsenic	**2.73** (2.06)		6010C		1	KJK	04/09/15 14:26	2.43	100	CD50830
Barium	**10.7** (2.06)		6010C		1	KJK	04/09/15 14:26	2.43	100	CD50830
Beryllium	**0.19** (0.09)		6010C		1	KJK	04/09/15 14:26	2.43	100	CD50830
Cadmium	ND (0.41)		6010C		1	KJK	04/09/15 14:26	2.43	100	CD50830
Chromium	**10.5** (0.82)		6010C		1	KJK	04/09/15 14:26	2.43	100	CD50830
Lead	ND (4.12)		6010C		1	KJK	04/09/15 14:26	2.43	100	CD50830
Mercury	ND (0.031)		7471B		1	BJV	04/09/15 13:44	0.63	40	CD50831
Nickel	**6.56** (2.06)		6010C		1	NAR	04/09/15 14:26	2.43	100	CD50830
Selenium	ND (8.23)		6020A		50	NAR	04/09/15 20:47	2.43	100	CD50830
Silver	ND (0.41)		6010C		1	KJK	04/09/15 14:26	2.43	100	CD50830
Thallium	ND (0.33)		7010		4	KJK	04/10/15 11:20	2.43	100	CD50830
Vanadium	**15.3** (0.82)		6010C		1	KJK	04/09/15 14:26	2.43	100	CD50830
Zinc	**28.8** (2.06)		6010C		1	KJK	04/09/15 14:26	2.43	100	CD50830

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-215 0ft-3ft
Date Sampled: 03/30/15 10:40
Percent Solids: 100

ESS Laboratory Work Order: 1503559
ESS Laboratory Sample ID: 1503559-18
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (4.08)		6010C		1	KJK	04/09/15 14:31	2.45	100	CD50830
Arsenic	**8.17** (2.04)		6010C		1	KJK	04/09/15 14:31	2.45	100	CD50830
Barium	**21.3** (2.04)		6010C		1	KJK	04/09/15 14:31	2.45	100	CD50830
Beryllium	**0.23** (0.09)		6010C		1	KJK	04/09/15 14:31	2.45	100	CD50830
Cadmium	**0.92** (0.41)		6010C		1	KJK	04/09/15 14:31	2.45	100	CD50830
Chromium	**14.7** (0.82)		6010C		1	KJK	04/09/15 14:31	2.45	100	CD50830
Lead	**42.7** (4.08)		6010C		1	KJK	04/09/15 14:31	2.45	100	CD50830
Mercury	**0.221** (0.030)		7471B		1	BJV	04/09/15 13:46	0.65	40	CD50831
Nickel	**7.87** (2.04)		6010C		1	NAR	04/09/15 14:31	2.45	100	CD50830
Selenium	ND (8.16)		6020A		50	NAR	04/09/15 20:53	2.45	100	CD50830
Silver	ND (0.41)		6010C		1	KJK	04/09/15 14:31	2.45	100	CD50830
Thallium	ND (0.33)		7010		4	KJK	04/10/15 11:43	2.45	100	CD50830
Vanadium	**22.6** (0.82)		6010C		1	KJK	04/09/15 14:31	2.45	100	CD50830
Zinc	**406** (2.04)		6010C		1	KJK	04/09/15 14:31	2.45	100	CD50830

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-224 0ft-0.5ft
Date Sampled: 03/30/15 09:45
Percent Solids: 98
Initial Volume: 26.4
Final Volume: 2
Extraction Method: 3540C

ESS Laboratory Work Order: 1503559
ESS Laboratory Sample ID: 1503559-19
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 4/6/15 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0077)		8082A		1	04/07/15 18:32		CD50616
Aroclor 1221	ND (0.0077)		8082A		1	04/07/15 18:32		CD50616
Aroclor 1232	ND (0.0077)		8082A		1	04/07/15 18:32		CD50616
Aroclor 1242	ND (0.0077)		8082A		1	04/07/15 18:32		CD50616
Aroclor 1248	**0.0423** (0.0077)		8082A		1	04/07/15 18:32		CD50616
Aroclor 1254	**P 0.110** (0.0077)		8082A		1	04/07/15 18:32		CD50616
Aroclor 1260	**0.0564** (0.0077)		8082A		1	04/07/15 18:32		CD50616
Aroclor 1262	ND (0.0077)		8082A		1	04/07/15 18:32		CD50616
Aroclor 1268	ND (0.0077)		8082A		1	04/07/15 18:32		CD50616

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*68 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*73 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*70 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*50 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-224 0.5ft-2ft
Date Sampled: 03/30/15 09:45
Percent Solids: 97
Initial Volume: 25
Final Volume: 2
Extraction Method: 3540C

ESS Laboratory Work Order: 1503559
ESS Laboratory Sample ID: 1503559-20
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 4/6/15 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0082)		8082A		1	04/07/15 18:51		CD50616
Aroclor 1221	ND (0.0082)		8082A		1	04/07/15 18:51		CD50616
Aroclor 1232	ND (0.0082)		8082A		1	04/07/15 18:51		CD50616
Aroclor 1242	ND (0.0082)		8082A		1	04/07/15 18:51		CD50616
Aroclor 1248	**0.0211** (0.0082)		8082A		1	04/07/15 18:51		CD50616
Aroclor 1254	**P 0.0174** (0.0082)		8082A		1	04/07/15 18:51		CD50616
Aroclor 1260	ND (0.0082)		8082A		1	04/07/15 18:51		CD50616
Aroclor 1262	ND (0.0082)		8082A		1	04/07/15 18:51		CD50616
Aroclor 1268	ND (0.0082)		8082A		1	04/07/15 18:51		CD50616

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*33 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*31 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*37 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*26 %*	*S-*	*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-214 0ft-0.5ft
Date Sampled: 03/30/15 10:10
Percent Solids: 99
Initial Volume: 27.4
Final Volume: 2
Extraction Method: 3540C

ESS Laboratory Work Order: 1503559
ESS Laboratory Sample ID: 1503559-21
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 4/6/15 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0074)		8082A		1	04/07/15 19:10		CD50616
Aroclor 1221	ND (0.0074)		8082A		1	04/07/15 19:10		CD50616
Aroclor 1232	ND (0.0074)		8082A		1	04/07/15 19:10		CD50616
Aroclor 1242	ND (0.0074)		8082A		1	04/07/15 19:10		CD50616
Aroclor 1248	**P 0.0924** (0.0074)		8082A		1	04/07/15 19:10		CD50616
Aroclor 1254	**0.247** (0.0369)		8082A		5	04/08/15 16:29		CD50616
Aroclor 1260	**0.0962** (0.0074)		8082A		1	04/07/15 19:10		CD50616
Aroclor 1262	ND (0.0074)		8082A		1	04/07/15 19:10		CD50616
Aroclor 1268	ND (0.0074)		8082A		1	04/07/15 19:10		CD50616

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*106 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*121 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*61 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*44 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-214 2ft-4ft
Date Sampled: 03/30/15 10:10
Percent Solids: 99
Initial Volume: 24.4
Final Volume: 2
Extraction Method: 3540C

ESS Laboratory Work Order: 1503559
ESS Laboratory Sample ID: 1503559-22
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 4/6/15 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0083)		8082A		1	04/07/15 17:37		CD50616
Aroclor 1221	ND (0.0083)		8082A		1	04/07/15 17:37		CD50616
Aroclor 1232	ND (0.0083)		8082A		1	04/07/15 17:37		CD50616
Aroclor 1242	ND (0.0083)		8082A		1	04/07/15 17:37		CD50616
Aroclor 1248	ND (0.0083)		8082A		1	04/07/15 17:37		CD50616
Aroclor 1254	ND (0.0083)		8082A		1	04/07/15 17:37		CD50616
Aroclor 1260	ND (0.0083)		8082A		1	04/07/15 17:37		CD50616
Aroclor 1262	ND (0.0083)		8082A		1	04/07/15 17:37		CD50616
Aroclor 1268	ND (0.0083)		8082A		1	04/07/15 17:37		CD50616

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*81 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*75 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*80 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*79 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-214 4ft-6ft
Date Sampled: 03/30/15 10:10
Percent Solids: 99
Initial Volume: 26
Final Volume: 2
Extraction Method: 3540C

ESS Laboratory Work Order: 1503559
ESS Laboratory Sample ID: 1503559-23
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 4/6/15 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0077)		8082A		1	04/07/15 17:56		CD50616
Aroclor 1221	ND (0.0077)		8082A		1	04/07/15 17:56		CD50616
Aroclor 1232	ND (0.0077)		8082A		1	04/07/15 17:56		CD50616
Aroclor 1242	ND (0.0077)		8082A		1	04/07/15 17:56		CD50616
Aroclor 1248	ND (0.0077)		8082A		1	04/07/15 17:56		CD50616
Aroclor 1254	ND (0.0077)		8082A		1	04/07/15 17:56		CD50616
Aroclor 1260	ND (0.0077)		8082A		1	04/07/15 17:56		CD50616
Aroclor 1262	ND (0.0077)		8082A		1	04/07/15 17:56		CD50616
Aroclor 1268	ND (0.0077)		8082A		1	04/07/15 17:56		CD50616

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*88 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*87 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*91 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*84 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-215 0ft-0.5ft
Date Sampled: 03/30/15 10:40
Percent Solids: 99
Initial Volume: 25.1
Final Volume: 2
Extraction Method: 3540C

ESS Laboratory Work Order: 1503559
ESS Laboratory Sample ID: 1503559-24
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 4/6/15 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0081)		8082A		1	04/07/15 18:15		CD50616
Aroclor 1221	ND (0.0081)		8082A		1	04/07/15 18:15		CD50616
Aroclor 1232	ND (0.0081)		8082A		1	04/07/15 18:15		CD50616
Aroclor 1242	ND (0.0081)		8082A		1	04/07/15 18:15		CD50616
Aroclor 1248	**LC, P 0.122** (0.0404)		8082A		5	04/08/15 16:48		CD50616
Aroclor 1254	**0.435** (0.0404)		8082A		5	04/08/15 16:48		CD50616
Aroclor 1260	**0.167** (0.0404)		8082A		5	04/08/15 16:48		CD50616
Aroclor 1262	ND (0.0081)		8082A		1	04/07/15 18:15		CD50616
Aroclor 1268	ND (0.0081)		8082A		1	04/07/15 18:15		CD50616

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*126 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*84 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*74 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*74 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-215 0ft-3ft
Date Sampled: 03/30/15 10:40
Percent Solids: 99
Initial Volume: 24.2
Final Volume: 2
Extraction Method: 3540C

ESS Laboratory Work Order: 1503559
ESS Laboratory Sample ID: 1503559-25
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 4/6/15 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0083)		8082A		1	04/07/15 18:34		CD50616
Aroclor 1221	ND (0.0083)		8082A		1	04/07/15 18:34		CD50616
Aroclor 1232	ND (0.0083)		8082A		1	04/07/15 18:34		CD50616
Aroclor 1242	ND (0.0083)		8082A		1	04/07/15 18:34		CD50616
Aroclor 1248	ND (0.0083)		8082A		1	04/07/15 18:34		CD50616
Aroclor 1254	ND (0.0083)		8082A		1	04/07/15 18:34		CD50616
Aroclor 1260	ND (0.0083)		8082A		1	04/07/15 18:34		CD50616
Aroclor 1262	ND (0.0083)		8082A		1	04/07/15 18:34		CD50616
Aroclor 1268	ND (0.0083)		8082A		1	04/07/15 18:34		CD50616

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*88 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*89 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*81 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*79 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503559

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Total Metals										
Batch CD50830 - 3050B										
Blank										
Antimony	ND	5.00	mg/kg wet							
Antimony	ND	5.00	mg/kg wet							
Arsenic	ND	2.50	mg/kg wet							
Arsenic	ND	0.25	mg/kg wet							
Arsenic	ND	2.50	mg/kg wet							
Barium	ND	2.50	mg/kg wet							
Barium	ND	2.50	mg/kg wet							
Beryllium	ND	0.11	mg/kg wet							
Beryllium	ND	0.50	mg/kg wet							
Cadmium	ND	0.50	mg/kg wet							
Cadmium	ND	0.50	mg/kg wet							
Cadmium	ND	0.50	mg/kg wet							
Chromium	ND	1.00	mg/kg wet							
Chromium	ND	1.00	mg/kg wet							
Lead	ND	5.00	mg/kg wet							
Lead	ND	5.00	mg/kg wet							
Nickel	ND	2.50	mg/kg wet							
Selenium	ND	0.50	mg/kg wet							
Selenium	ND	10.0	mg/kg wet							
Silver	ND	0.50	mg/kg wet							
Silver	ND	0.50	mg/kg wet							
Thallium	ND	0.25	mg/kg wet							
Vanadium	ND	1.00	mg/kg wet							
Zinc	ND	2.50	mg/kg wet							
LCS										
Antimony	51.0	18.5	mg/kg wet	49.70		103	80-120			
Antimony	48.9	18.5	mg/kg wet	49.70		98	80-120			
Arsenic	111	46.3	mg/kg wet	133.0		84	80-120			
Arsenic	115	9.26	mg/kg wet	133.0		86	80-120			
Arsenic	115	9.26	mg/kg wet	133.0		86	80-120			
Barium	198	9.26	mg/kg wet	229.0		87	80-120			
Barium	198	9.26	mg/kg wet	229.0		87	80-120			
Beryllium	76.4	1.85	mg/kg wet	95.80		80	80-120			
Beryllium	84.6	0.41	mg/kg wet	95.80		88	80-120			
Cadmium	98.7	1.85	mg/kg wet	123.0		80	80-120			
Cadmium	98.7	1.85	mg/kg wet	123.0		80	80-120			
Cadmium	95.0	1.85	mg/kg wet	123.0		77	73-127			
Chromium	52.9	3.70	mg/kg wet	63.20		84	80-120			
Chromium	52.9	3.70	mg/kg wet	63.20		84	80-120			
Lead	92.1	18.5	mg/kg wet	108.0		85	80-120			
Lead	92.1	18.5	mg/kg wet	108.0		85	80-120			
Nickel	250	9.26	mg/kg wet	285.0		88	80-120			
Selenium	65.9	37.0	mg/kg wet	81.40		81	80-120			
Selenium	96.7	18.5	mg/kg wet	81.40		119	80-120			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503559

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Total Metals										
Batch CD50830 - 3050B										
Silver	68.6	1.85	mg/kg wet	74.80		92	80-120			
Silver	68.6	1.85	mg/kg wet	74.80		92	80-120			
Thallium	45.9	9.26	mg/kg wet	50.10		92	80-120			
Vanadium	130	3.70	mg/kg wet	148.0		88	80-120			
Zinc	168	9.26	mg/kg wet	203.0		83	80-120			
LCS Dup										
Antimony	50.7	18.9	mg/kg wet	49.70		102	80-120	4	30	
Antimony	51.9	18.9	mg/kg wet	49.70		104	80-120	2	20	
Arsenic	117	9.43	mg/kg wet	133.0		88	80-120	2	20	
Arsenic	117	9.43	mg/kg wet	133.0		88	80-120	2	20	
Arsenic	121	47.2	mg/kg wet	133.0		91	80-120	9	20	
Barium	187	9.43	mg/kg wet	229.0		82	80-120	6	20	
Barium	187	9.43	mg/kg wet	229.0		82	80-120	6	20	
Beryllium	85.6	0.42	mg/kg wet	95.80		89	80-120	1	20	
Beryllium	78.3	1.89	mg/kg wet	95.80		82	80-120	2	30	
Cadmium	104	1.89	mg/kg wet	123.0		85	80-120	9	30	
Cadmium	100	1.89	mg/kg wet	123.0		82	80-120	2	20	
Cadmium	100	1.89	mg/kg wet	123.0		82	80-120	2	20	
Chromium	53.5	3.77	mg/kg wet	63.20		85	80-120	1	20	
Chromium	53.5	3.77	mg/kg wet	63.20		85	80-120	1	20	
Lead	95.7	18.9	mg/kg wet	108.0		89	80-120	4	20	
Lead	95.7	18.9	mg/kg wet	108.0		89	80-120	4	20	
Nickel	253	9.43	mg/kg wet	285.0		89	80-120	1	20	
Selenium	70.1	37.7	mg/kg wet	81.40		86	80-120	6	30	
Selenium	99.4	18.9	mg/kg wet	81.40		122	64-136	3	20	
Silver	68.9	1.89	mg/kg wet	74.80		92	80-120	0.4	20	
Silver	68.9	1.89	mg/kg wet	74.80		92	80-120	0.4	20	
Thallium	52.0	28.3	mg/kg wet	50.10		104	80-120	13	20	
Vanadium	134	3.77	mg/kg wet	148.0		91	80-120	4	20	
Zinc	177	9.43	mg/kg wet	203.0		87	80-120	5	20	
Batch CD50831 - 7471A										
Blank										
Mercury	ND	0.033	mg/kg wet							
Mercury	ND	0.033	mg/kg wet							
LCS										
Mercury	26.6	3.81	mg/kg wet	24.90		107	80-120			
Mercury	26.6	3.81	mg/kg wet	24.90		107	80-120			
LCS Dup										
Mercury	27.2	3.81	mg/kg wet	24.90		109	80-120	2	20	
Mercury	27.2	3.81	mg/kg wet	24.90		109	80-120	2	20	
5035/8260B Volatile Organic Compounds / Low Level										
Batch CD50239 - 5035										
Blank										

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503559

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch CD50239 - 5035										
1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet							
1,1,1-Trichloroethane	ND	0.0050	mg/kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0020	mg/kg wet							
1,1,2-Trichloroethane	ND	0.0050	mg/kg wet							
1,1-Dichloroethane	ND	0.0050	mg/kg wet							
1,1-Dichloroethene	ND	0.0050	mg/kg wet							
1,1-Dichloropropene	ND	0.0050	mg/kg wet							
1,2,3-Trichlorobenzene	ND	0.0050	mg/kg wet							
1,2,3-Trichloropropane	ND	0.0050	mg/kg wet							
1,2,4-Trichlorobenzene	ND	0.0050	mg/kg wet							
1,2,4-Trimethylbenzene	ND	0.0050	mg/kg wet							
1,2-Dibromo-3-Chloropropane	ND	0.0050	mg/kg wet							
1,2-Dibromoethane	ND	0.0050	mg/kg wet							
1,2-Dichlorobenzene	ND	0.0050	mg/kg wet							
1,2-Dichloroethane	ND	0.0050	mg/kg wet							
1,2-Dichloropropane	ND	0.0050	mg/kg wet							
1,3,5-Trimethylbenzene	ND	0.0050	mg/kg wet							
1,3-Dichlorobenzene	ND	0.0050	mg/kg wet							
1,3-Dichloropropane	ND	0.0050	mg/kg wet							
1,4-Dichlorobenzene	ND	0.0050	mg/kg wet							
1,4-Dioxane	ND	0.100	mg/kg wet							
2,2-Dichloropropane	ND	0.0050	mg/kg wet							
2-Butanone	ND	0.0100	mg/kg wet							
2-Chlorotoluene	ND	0.0050	mg/kg wet							
2-Hexanone	ND	0.0100	mg/kg wet							
4-Chlorotoluene	ND	0.0050	mg/kg wet							
4-Isopropyltoluene	ND	0.0050	mg/kg wet							
4-Methyl-2-Pentanone	ND	0.0100	mg/kg wet							
Acetone	ND	0.0100	mg/kg wet							
Benzene	ND	0.0050	mg/kg wet							
Bromobenzene	ND	0.0050	mg/kg wet							
Bromochloromethane	ND	0.0050	mg/kg wet							
Bromodichloromethane	ND	0.0050	mg/kg wet							
Bromoform	ND	0.0050	mg/kg wet							
Bromomethane	ND	0.0100	mg/kg wet							
Carbon Disulfide	ND	0.0050	mg/kg wet							
Carbon Tetrachloride	ND	0.0050	mg/kg wet							
Chlorobenzene	ND	0.0050	mg/kg wet							
Chloroethane	ND	0.0100	mg/kg wet							
Chloroform	ND	0.0050	mg/kg wet							
Chloromethane	ND	0.0100	mg/kg wet							
cis-1,2-Dichloroethene	ND	0.0050	mg/kg wet							
cis-1,3-Dichloropropene	ND	0.0050	mg/kg wet							
Dibromochloromethane	ND	0.0020	mg/kg wet							
Dibromomethane	ND	0.0050	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503559

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch CD50239 - 5035										
Dichlorodifluoromethane	ND	0.0100	mg/kg wet							
Diethyl Ether	ND	0.0050	mg/kg wet							
Di-isopropyl ether	ND	0.0050	mg/kg wet							
Ethyl tertiary-butyl ether	ND	0.0050	mg/kg wet							
Ethylbenzene	ND	0.0050	mg/kg wet							
Hexachlorobutadiene	ND	0.0050	mg/kg wet							
Isopropylbenzene	ND	0.0050	mg/kg wet							
Methyl tert-Butyl Ether	ND	0.0050	mg/kg wet							
Methylene Chloride	ND	0.0100	mg/kg wet							
Naphthalene	ND	0.0050	mg/kg wet							
n-Butylbenzene	ND	0.0050	mg/kg wet							
n-Propylbenzene	ND	0.0050	mg/kg wet							
sec-Butylbenzene	ND	0.0050	mg/kg wet							
Styrene	ND	0.0050	mg/kg wet							
tert-Butylbenzene	ND	0.0050	mg/kg wet							
Tertiary-amyl methyl ether	ND	0.0050	mg/kg wet							
Tetrachloroethene	ND	0.0050	mg/kg wet							
Tetrahydrofuran	ND	0.0050	mg/kg wet							
Toluene	ND	0.0050	mg/kg wet							
trans-1,2-Dichloroethene	ND	0.0050	mg/kg wet							
trans-1,3-Dichloropropene	ND	0.0050	mg/kg wet							
Trichloroethene	ND	0.0050	mg/kg wet							
Trichlorofluoromethane	ND	0.0050	mg/kg wet							
Vinyl Chloride	ND	0.0100	mg/kg wet							
Xylene O	ND	0.0050	mg/kg wet							
Xylene P,M	ND	0.0100	mg/kg wet							
Surrogate: 1,2-Dichloroethane-d4	*0.0453*		mg/kg wet	*0.05000*		*91*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.0460*		mg/kg wet	*0.05000*		*92*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0436*		mg/kg wet	*0.05000*		*87*	*70-130*			
Surrogate: Toluene-d8	*0.0446*		mg/kg wet	*0.05000*		*89*	*70-130*			
LCS										
1,1,1,2-Tetrachloroethane	0.0541	0.0050	mg/kg wet	0.05000		108	70-130			
1,1,1-Trichloroethane	0.0498	0.0050	mg/kg wet	0.05000		100	70-130			
1,1,2,2-Tetrachloroethane	0.0491	0.0020	mg/kg wet	0.05000		98	70-130			
1,1,2-Trichloroethane	0.0454	0.0050	mg/kg wet	0.05000		91	70-130			
1,1-Dichloroethane	0.0446	0.0050	mg/kg wet	0.05000		89	70-130			
1,1-Dichloroethene	0.0423	0.0050	mg/kg wet	0.05000		85	70-130			
1,1-Dichloropropene	0.0434	0.0050	mg/kg wet	0.05000		87	70-130			
1,2,3-Trichlorobenzene	0.0512	0.0050	mg/kg wet	0.05000		102	70-130			
1,2,3-Trichloropropane	0.0520	0.0050	mg/kg wet	0.05000		104	70-130			
1,2,4-Trichlorobenzene	0.0508	0.0050	mg/kg wet	0.05000		102	70-130			
1,2,4-Trimethylbenzene	0.0471	0.0050	mg/kg wet	0.05000		94	70-130			
1,2-Dibromo-3-Chloropropane	0.0575	0.0050	mg/kg wet	0.05000		115	70-130			
1,2-Dibromoethane	0.0517	0.0050	mg/kg wet	0.05000		103	70-130			
1,2-Dichlorobenzene	0.0477	0.0050	mg/kg wet	0.05000		95	70-130			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503559

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch CD50239 - 5035										
1,2-Dichloroethane	0.0480	0.0050	mg/kg wet	0.05000		96	70-130			
1,2-Dichloropropane	0.0430	0.0050	mg/kg wet	0.05000		86	70-130			
1,3,5-Trimethylbenzene	0.0494	0.0050	mg/kg wet	0.05000		99	70-130			
1,3-Dichlorobenzene	0.0478	0.0050	mg/kg wet	0.05000		96	70-130			
1,3-Dichloropropane	0.0525	0.0050	mg/kg wet	0.05000		105	70-130			
1,4-Dichlorobenzene	0.0492	0.0050	mg/kg wet	0.05000		98	70-130			
1,4-Dioxane	0.959	0.100	mg/kg wet	1.000		96	70-130			
2,2-Dichloropropane	0.0514	0.0050	mg/kg wet	0.05000		103	70-130			
2-Butanone	0.232	0.0100	mg/kg wet	0.2500		93	70-130			
2-Chlorotoluene	0.0475	0.0050	mg/kg wet	0.05000		95	70-130			
2-Hexanone	0.270	0.0100	mg/kg wet	0.2500		108	70-130			
4-Chlorotoluene	0.0481	0.0050	mg/kg wet	0.05000		96	70-130			
4-Isopropyltoluene	0.0478	0.0050	mg/kg wet	0.05000		96	70-130			
4-Methyl-2-Pentanone	0.236	0.0100	mg/kg wet	0.2500		94	70-130			
Acetone	0.273	0.0100	mg/kg wet	0.2500		109	70-130			
Benzene	0.0443	0.0050	mg/kg wet	0.05000		89	70-130			
Bromobenzene	0.0489	0.0050	mg/kg wet	0.05000		98	70-130			
Bromochloromethane	0.0469	0.0050	mg/kg wet	0.05000		94	70-130			
Bromodichloromethane	0.0501	0.0050	mg/kg wet	0.05000		100	70-130			
Bromoform	0.0525	0.0050	mg/kg wet	0.05000		105	70-130			
Bromomethane	0.0877	0.0100	mg/kg wet	0.05000		175	70-130			B+
Carbon Disulfide	0.0472	0.0050	mg/kg wet	0.05000		94	70-130			
Carbon Tetrachloride	0.0525	0.0050	mg/kg wet	0.05000		105	70-130			
Chlorobenzene	0.0482	0.0050	mg/kg wet	0.05000		96	70-130			
Chloroethane	0.0412	0.0100	mg/kg wet	0.05000		82	70-130			
Chloroform	0.0477	0.0050	mg/kg wet	0.05000		95	70-130			
Chloromethane	0.0508	0.0100	mg/kg wet	0.05000		102	70-130			
cis-1,2-Dichloroethene	0.0462	0.0050	mg/kg wet	0.05000		92	70-130			
cis-1,3-Dichloropropene	0.0527	0.0050	mg/kg wet	0.05000		105	70-130			
Dibromochloromethane	0.0515	0.0020	mg/kg wet	0.05000		103	70-130			
Dibromomethane	0.0471	0.0050	mg/kg wet	0.05000		94	70-130			
Dichlorodifluoromethane	0.0460	0.0100	mg/kg wet	0.05000		92	70-130			
Diethyl Ether	0.0459	0.0050	mg/kg wet	0.05000		92	70-130			
Di-isopropyl ether	0.0445	0.0050	mg/kg wet	0.05000		89	70-130			
Ethyl tertiary-butyl ether	0.0445	0.0050	mg/kg wet	0.05000		89	70-130			
Ethylbenzene	0.0484	0.0050	mg/kg wet	0.05000		97	70-130			
Hexachlorobutadiene	0.0559	0.0050	mg/kg wet	0.05000		112	70-130			
Isopropylbenzene	0.0477	0.0050	mg/kg wet	0.05000		95	70-130			
Methyl tert-Butyl Ether	0.0477	0.0050	mg/kg wet	0.05000		95	70-130			
Methylene Chloride	0.0443	0.0100	mg/kg wet	0.05000		89	70-130			
Naphthalene	0.0460	0.0050	mg/kg wet	0.05000		92	70-130			
n-Butylbenzene	0.0482	0.0050	mg/kg wet	0.05000		96	70-130			
n-Propylbenzene	0.0469	0.0050	mg/kg wet	0.05000		94	70-130			
sec-Butylbenzene	0.0476	0.0050	mg/kg wet	0.05000		95	70-130			
Styrene	0.0492	0.0050	mg/kg wet	0.05000		98	70-130			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503559

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch CD50239 - 5035										
tert-Butylbenzene	0.0478	0.0050	mg/kg wet	0.05000		96	70-130			
Tertiary-amyl methyl ether	0.0469	0.0050	mg/kg wet	0.05000		94	70-130			
Tetrachloroethene	0.0494	0.0050	mg/kg wet	0.05000		99	70-130			
Tetrahydrofuran	0.0447	0.0050	mg/kg wet	0.05000		89	70-130			
Toluene	0.0443	0.0050	mg/kg wet	0.05000		89	70-130			
trans-1,2-Dichloroethene	0.0409	0.0050	mg/kg wet	0.05000		82	70-130			
trans-1,3-Dichloropropene	0.0528	0.0050	mg/kg wet	0.05000		106	70-130			
Trichloroethene	0.0454	0.0050	mg/kg wet	0.05000		91	70-130			
Trichlorofluoromethane	0.0433	0.0050	mg/kg wet	0.05000		87	70-130			
Vinyl Chloride	0.0442	0.0100	mg/kg wet	0.05000		88	70-130			
Xylene O	0.0479	0.0050	mg/kg wet	0.05000		96	70-130			
Xylene P,M	0.0967	0.0100	mg/kg wet	0.1000		97	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0464*		mg/kg wet	*0.05000*		*93*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.0469*		mg/kg wet	*0.05000*		*94*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0447*		mg/kg wet	*0.05000*		*89*	*70-130*			
Surrogate: Toluene-d8	*0.0493*		mg/kg wet	*0.05000*		*99*	*70-130*			
LCS Dup										
1,1,1,2-Tetrachloroethane	0.0545	0.0050	mg/kg wet	0.05000		109	70-130	0.8	25	
1,1,1-Trichloroethane	0.0512	0.0050	mg/kg wet	0.05000		102	70-130	3	25	
1,1,2,2-Tetrachloroethane	0.0483	0.0020	mg/kg wet	0.05000		97	70-130	2	25	
1,1,2-Trichloroethane	0.0460	0.0050	mg/kg wet	0.05000		92	70-130	1	25	
1,1-Dichloroethane	0.0452	0.0050	mg/kg wet	0.05000		90	70-130	1	25	
1,1-Dichloroethene	0.0435	0.0050	mg/kg wet	0.05000		87	70-130	3	25	
1,1-Dichloropropene	0.0437	0.0050	mg/kg wet	0.05000		87	70-130	0.9	25	
1,2,3-Trichlorobenzene	0.0506	0.0050	mg/kg wet	0.05000		101	70-130	1	25	
1,2,3-Trichloropropane	0.0510	0.0050	mg/kg wet	0.05000		102	70-130	2	25	
1,2,4-Trichlorobenzene	0.0507	0.0050	mg/kg wet	0.05000		101	70-130	0.08	25	
1,2,4-Trimethylbenzene	0.0477	0.0050	mg/kg wet	0.05000		95	70-130	1	25	
1,2-Dibromo-3-Chloropropane	0.0445	0.0050	mg/kg wet	0.05000		89	70-130	25	25	
1,2-Dibromoethane	0.0509	0.0050	mg/kg wet	0.05000		102	70-130	1	25	
1,2-Dichlorobenzene	0.0477	0.0050	mg/kg wet	0.05000		95	70-130	0.04	25	
1,2-Dichloroethane	0.0490	0.0050	mg/kg wet	0.05000		98	70-130	2	25	
1,2-Dichloropropane	0.0443	0.0050	mg/kg wet	0.05000		89	70-130	3	25	
1,3,5-Trimethylbenzene	0.0498	0.0050	mg/kg wet	0.05000		100	70-130	0.8	25	
1,3-Dichlorobenzene	0.0481	0.0050	mg/kg wet	0.05000		96	70-130	0.7	25	
1,3-Dichloropropane	0.0520	0.0050	mg/kg wet	0.05000		104	70-130	0.9	25	
1,4-Dichlorobenzene	0.0493	0.0050	mg/kg wet	0.05000		99	70-130	0.3	25	
1,4-Dioxane	0.954	0.100	mg/kg wet	1.000		95	70-130	0.5	20	
2,2-Dichloropropane	0.0527	0.0050	mg/kg wet	0.05000		105	70-130	2	25	
2-Butanone	0.233	0.0100	mg/kg wet	0.2500		93	70-130	0.2	25	
2-Chlorotoluene	0.0481	0.0050	mg/kg wet	0.05000		96	70-130	1	25	
2-Hexanone	0.262	0.0100	mg/kg wet	0.2500		105	70-130	3	25	
4-Chlorotoluene	0.0484	0.0050	mg/kg wet	0.05000		97	70-130	0.6	25	
4-Isopropyltoluene	0.0481	0.0050	mg/kg wet	0.05000		96	70-130	0.7	25	
4-Methyl-2-Pentanone	0.232	0.0100	mg/kg wet	0.2500		93	70-130	2	25	

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503559

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch CD50239 - 5035										
Acetone	0.265	0.0100	mg/kg wet	0.2500		106	70-130	3	25	
Benzene	0.0450	0.0050	mg/kg wet	0.05000		90	70-130	2	25	
Bromobenzene	0.0487	0.0050	mg/kg wet	0.05000		97	70-130	0.3	25	
Bromochloromethane	0.0472	0.0050	mg/kg wet	0.05000		94	70-130	0.6	25	
Bromodichloromethane	0.0509	0.0050	mg/kg wet	0.05000		102	70-130	2	25	
Bromoform	0.0517	0.0050	mg/kg wet	0.05000		103	70-130	2	25	
Bromomethane	0.0784	0.0100	mg/kg wet	0.05000		157	70-130	11	25	B+
Carbon Disulfide	0.0485	0.0050	mg/kg wet	0.05000		97	70-130	3	25	
Carbon Tetrachloride	0.0534	0.0050	mg/kg wet	0.05000		107	70-130	2	25	
Chlorobenzene	0.0487	0.0050	mg/kg wet	0.05000		97	70-130	1	25	
Chloroethane	0.0417	0.0100	mg/kg wet	0.05000		83	70-130	1	25	
Chloroform	0.0479	0.0050	mg/kg wet	0.05000		96	70-130	0.5	25	
Chloromethane	0.0520	0.0100	mg/kg wet	0.05000		104	70-130	2	25	
cis-1,2-Dichloroethene	0.0466	0.0050	mg/kg wet	0.05000		93	70-130	1	25	
cis-1,3-Dichloropropene	0.0535	0.0050	mg/kg wet	0.05000		107	70-130	2	25	
Dibromochloromethane	0.0516	0.0020	mg/kg wet	0.05000		103	70-130	0.3	25	
Dibromomethane	0.0475	0.0050	mg/kg wet	0.05000		95	70-130	0.8	25	
Dichlorodifluoromethane	0.0472	0.0100	mg/kg wet	0.05000		94	70-130	2	25	
Diethyl Ether	0.0466	0.0050	mg/kg wet	0.05000		93	70-130	2	25	
Di-isopropyl ether	0.0454	0.0050	mg/kg wet	0.05000		91	70-130	2	25	
Ethyl tertiary-butyl ether	0.0453	0.0050	mg/kg wet	0.05000		91	70-130	2	25	
Ethylbenzene	0.0485	0.0050	mg/kg wet	0.05000		97	70-130	0.3	25	
Hexachlorobutadiene	0.0557	0.0050	mg/kg wet	0.05000		111	70-130	0.3	25	
Isopropylbenzene	0.0480	0.0050	mg/kg wet	0.05000		96	70-130	0.7	25	
Methyl tert-Butyl Ether	0.0483	0.0050	mg/kg wet	0.05000		97	70-130	1	25	
Methylene Chloride	0.0449	0.0100	mg/kg wet	0.05000		90	70-130	1	25	
Naphthalene	0.0454	0.0050	mg/kg wet	0.05000		91	70-130	1	25	
n-Butylbenzene	0.0485	0.0050	mg/kg wet	0.05000		97	70-130	0.7	25	
n-Propylbenzene	0.0474	0.0050	mg/kg wet	0.05000		95	70-130	1	25	
sec-Butylbenzene	0.0477	0.0050	mg/kg wet	0.05000		95	70-130	0.1	25	
Styrene	0.0497	0.0050	mg/kg wet	0.05000		99	70-130	1	25	
tert-Butylbenzene	0.0481	0.0050	mg/kg wet	0.05000		96	70-130	0.7	25	
Tertiary-amyl methyl ether	0.0477	0.0050	mg/kg wet	0.05000		95	70-130	2	25	
Tetrachloroethene	0.0499	0.0050	mg/kg wet	0.05000		100	70-130	1	25	
Tetrahydrofuran	0.0439	0.0050	mg/kg wet	0.05000		88	70-130	2	25	
Toluene	0.0451	0.0050	mg/kg wet	0.05000		90	70-130	2	25	
trans-1,2-Dichloroethene	0.0418	0.0050	mg/kg wet	0.05000		84	70-130	2	25	
trans-1,3-Dichloropropene	0.0536	0.0050	mg/kg wet	0.05000		107	70-130	2	25	
Trichloroethene	0.0463	0.0050	mg/kg wet	0.05000		93	70-130	2	25	
Trichlorofluoromethane	0.0439	0.0050	mg/kg wet	0.05000		88	70-130	1	25	
Vinyl Chloride	0.0458	0.0100	mg/kg wet	0.05000		92	70-130	4	25	
Xylene O	0.0479	0.0050	mg/kg wet	0.05000		96	70-130	0	25	
Xylene P,M	0.0974	0.0100	mg/kg wet	0.1000		97	70-130	0.7	25	
Surrogate: 1,2-Dichloroethane-d4	*0.0474*		mg/kg wet	*0.05000*		*95*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.0468*		mg/kg wet	*0.05000*		*94*	*70-130*			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503559

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch CD50239 - 5035										
Surrogate: Dibromofluoromethane	*0.0456*		mg/kg wet	*0.05000*		*91*	*70-130*			
Surrogate: Toluene-d8	*0.0491*		mg/kg wet	*0.05000*		*98*	*70-130*			
8082A Polychlorinated Biphenyls (PCB)										
Batch CD50616 - 3540C										
Blank										
Aroclor 1016	ND	0.0100	mg/kg wet							
Aroclor 1221	ND	0.0100	mg/kg wet							
Aroclor 1232	ND	0.0100	mg/kg wet							
Aroclor 1242	ND	0.0100	mg/kg wet							
Aroclor 1248	ND	0.0100	mg/kg wet							
Aroclor 1254	ND	0.0100	mg/kg wet							
Aroclor 1260	ND	0.0100	mg/kg wet							
Aroclor 1262	ND	0.0100	mg/kg wet							
Aroclor 1268	ND	0.0100	mg/kg wet							
Surrogate: Decachlorobiphenyl	*0.00429*		mg/kg wet	*0.005000*		*86*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.00467*		mg/kg wet	*0.005000*		*93*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.00393*		mg/kg wet	*0.005000*		*79*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.00365*		mg/kg wet	*0.005000*		*73*	*30-150*			
LCS										
Aroclor 1016	0.126	0.0100	mg/kg wet	0.1000		126	40-140			
Aroclor 1260	0.118	0.0100	mg/kg wet	0.1000		118	40-140			
Surrogate: Decachlorobiphenyl	*0.00426*		mg/kg wet	*0.005000*		*85*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.00497*		mg/kg wet	*0.005000*		*99*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.00393*		mg/kg wet	*0.005000*		*79*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.00396*		mg/kg wet	*0.005000*		*79*	*30-150*			
LCS Dup										
Aroclor 1016	0.139	0.0100	mg/kg wet	0.1000		139	40-140	9	30	
Aroclor 1260	0.130	0.0100	mg/kg wet	0.1000		130	40-140	10	30	
Surrogate: Decachlorobiphenyl	*0.00441*		mg/kg wet	*0.005000*		*88*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.00506*		mg/kg wet	*0.005000*		*101*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.00411*		mg/kg wet	*0.005000*		*82*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.00414*		mg/kg wet	*0.005000*		*83*	*30-150*			
8270D Semi-Volatile Organic Compounds										
Batch CD50735 - 3546										
Blank										
1,2,4-Trichlorobenzene	ND	0.333	mg/kg wet							
1,2-Dichlorobenzene	ND	0.333	mg/kg wet							
1,3-Dichlorobenzene	ND	0.333	mg/kg wet							
1,4-Dichlorobenzene	ND	0.333	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503559

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D Semi-Volatile Organic Compounds										
Batch CD50735 - 3546										
2,4,5-Trichlorophenol	ND	0.333	mg/kg wet							
2,4,6-Trichlorophenol	ND	0.333	mg/kg wet							
2,4-Dichlorophenol	ND	0.333	mg/kg wet							
2,4-Dimethylphenol	ND	0.333	mg/kg wet							
2,4-Dinitrophenol	ND	1.67	mg/kg wet							
2,4-Dinitrotoluene	ND	0.333	mg/kg wet							
2,6-Dinitrotoluene	ND	0.333	mg/kg wet							
2-Chloronaphthalene	ND	0.333	mg/kg wet							
2-Chlorophenol	ND	0.333	mg/kg wet							
2-Methylphenol	ND	0.333	mg/kg wet							
2-Nitrophenol	ND	0.333	mg/kg wet							
3,3´-Dichlorobenzidine	ND	0.667	mg/kg wet							
3+4-Methylphenol	ND	0.667	mg/kg wet							
4-Bromophenyl-phenylether	ND	0.333	mg/kg wet							
4-Chloroaniline	ND	0.667	mg/kg wet							
4-Nitrophenol	ND	1.67	mg/kg wet							
Acetophenone	ND	0.667	mg/kg wet							
Aniline	ND	1.67	mg/kg wet							
Azobenzene	ND	0.333	mg/kg wet							
bis(2-Chloroethoxy)methane	ND	0.333	mg/kg wet							
bis(2-Chloroethyl)ether	ND	0.333	mg/kg wet							
bis(2-chloroisopropyl)Ether	ND	0.333	mg/kg wet							
bis(2-Ethylhexyl)phthalate	ND	0.333	mg/kg wet							
Butylbenzylphthalate	ND	0.333	mg/kg wet							
Dibenzofuran	ND	0.333	mg/kg wet							
Diethylphthalate	ND	0.333	mg/kg wet							
Dimethylphthalate	ND	0.333	mg/kg wet							
Di-n-butylphthalate	ND	0.333	mg/kg wet							
Di-n-octylphthalate	ND	0.333	mg/kg wet							
Hexachlorobutadiene	ND	0.333	mg/kg wet							
Hexachloroethane	ND	0.333	mg/kg wet							
Isophorone	ND	0.333	mg/kg wet							
Nitrobenzene	ND	0.333	mg/kg wet							
N-Nitrosodimethylamine	ND	0.333	mg/kg wet							
Pentachlorophenol	ND	1.67	mg/kg wet							
Phenol	ND	0.333	mg/kg wet							
Surrogate: 1,2-Dichlorobenzene-d4	*1.84*		mg/kg wet	*3.333*		*55*	*30-130*			
Surrogate: 2,4,6-Tribromophenol	*2.56*		mg/kg wet	*5.000*		*51*	*30-130*			
Surrogate: 2-Chlorophenol-d4	*2.67*		mg/kg wet	*5.000*		*53*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*1.87*		mg/kg wet	*3.333*		*56*	*30-130*			
Surrogate: 2-Fluorophenol	*2.55*		mg/kg wet	*5.000*		*51*	*30-130*			
Surrogate: Nitrobenzene-d5	*1.77*		mg/kg wet	*3.333*		*53*	*30-130*			
Surrogate: Phenol-d6	*2.67*		mg/kg wet	*5.000*		*53*	*30-130*			
Surrogate: p-Terphenyl-d14	*2.81*		mg/kg wet	*3.333*		*84*	*30-130*			
LCS										

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503559

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D Semi-Volatile Organic Compounds										
Batch CD50735 - 3546										
1,2,4-Trichlorobenzene	1.53	0.333	mg/kg wet	3.333		46	40-140			
1,2-Dichlorobenzene	1.52	0.333	mg/kg wet	3.333		45	40-140			
1,3-Dichlorobenzene	1.53	0.333	mg/kg wet	3.333		46	40-140			
1,4-Dichlorobenzene	1.50	0.333	mg/kg wet	3.333		45	40-140			
2,4,5-Trichlorophenol	2.49	0.333	mg/kg wet	3.333		75	30-130			
2,4,6-Trichlorophenol	2.28	0.333	mg/kg wet	3.333		68	30-130			
2,4-Dichlorophenol	1.82	0.333	mg/kg wet	3.333		54	30-130			
2,4-Dimethylphenol	1.82	0.333	mg/kg wet	3.333		55	30-130			
2,4-Dinitrophenol	2.38	1.67	mg/kg wet	3.333		71	30-130			
2,4-Dinitrotoluene	2.70	0.333	mg/kg wet	3.333		81	40-140			
2,6-Dinitrotoluene	2.43	0.333	mg/kg wet	3.333		73	40-140			
2-Chloronaphthalene	1.67	0.333	mg/kg wet	3.333		50	40-140			
2-Chlorophenol	1.53	0.333	mg/kg wet	3.333		46	30-130			
2-Methylphenol	1.57	0.333	mg/kg wet	3.333		47	30-130			
2-Nitrophenol	1.68	0.333	mg/kg wet	3.333		50	30-130			
3,3´-Dichlorobenzidine	2.41	0.667	mg/kg wet	3.333		72	40-140			
3+4-Methylphenol	3.34	0.667	mg/kg wet	6.667		50	30-130			
4-Bromophenyl-phenylether	2.52	0.333	mg/kg wet	3.333		76	40-140			
4-Chloroaniline	1.42	0.667	mg/kg wet	3.333		43	40-140			
4-Nitrophenol	2.51	1.67	mg/kg wet	3.333		75	30-130			
Acetophenone	1.66	0.667	mg/kg wet	3.333		50	40-140			
Aniline	1.19	1.67	mg/kg wet	3.333		36	40-140			B-
Azobenzene	2.34	0.333	mg/kg wet	3.333		70	40-140			
bis(2-Chloroethoxy)methane	1.59	0.333	mg/kg wet	3.333		48	40-140			
bis(2-Chloroethyl)ether	1.55	0.333	mg/kg wet	3.333		47	40-140			
bis(2-chloroisopropyl)Ether	1.49	0.333	mg/kg wet	3.333		45	40-140			
bis(2-Ethylhexyl)phthalate	2.91	0.333	mg/kg wet	3.333		87	40-140			
Butylbenzylphthalate	2.75	0.333	mg/kg wet	3.333		83	40-140			
Dibenzofuran	2.09	0.333	mg/kg wet	3.333		63	40-140			
Diethylphthalate	2.54	0.333	mg/kg wet	3.333		76	40-140			
Dimethylphthalate	2.32	0.333	mg/kg wet	3.333		70	40-140			
Di-n-butylphthalate	2.95	0.333	mg/kg wet	3.333		88	40-140			
Di-n-octylphthalate	3.12	0.333	mg/kg wet	3.333		93	40-140			
Hexachlorobutadiene	1.58	0.333	mg/kg wet	3.333		47	40-140			
Hexachloroethane	1.47	0.333	mg/kg wet	3.333		44	40-140			
Isophorone	1.54	0.333	mg/kg wet	3.333		46	40-140			
Nitrobenzene	1.54	0.333	mg/kg wet	3.333		46	40-140			
N-Nitrosodimethylamine	1.47	0.333	mg/kg wet	3.333		44	40-140			
Pentachlorophenol	3.01	1.67	mg/kg wet	3.333		90	30-130			
Phenol	1.53	0.333	mg/kg wet	3.333		46	30-130			
Surrogate: 1,2-Dichlorobenzene-d4	*1.51*		mg/kg wet	*3.333*		*45*	*30-130*			
Surrogate: 2,4,6-Tribromophenol	*4.01*		mg/kg wet	*5.000*		*80*	*30-130*			
Surrogate: 2-Chlorophenol-d4	*2.31*		mg/kg wet	*5.000*		*46*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*1.83*		mg/kg wet	*3.333*		*55*	*30-130*			
Surrogate: 2-Fluorophenol	*2.26*		mg/kg wet	*5.000*		*45*	*30-130*			
Surrogate: Nitrobenzene-d5	*1.54*		mg/kg wet	*3.333*		*46*	*30-130*			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503559

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D Semi-Volatile Organic Compounds										
Batch CD50735 - 3546										
Surrogate: Phenol-d6	*2.33*		mg/kg wet	*5.000*		*47*	*30-130*			
Surrogate: p-Terphenyl-d14	*2.62*		mg/kg wet	*3.333*		*79*	*30-130*			
LCS Dup										
1,2,4-Trichlorobenzene	1.85	0.333	mg/kg wet	3.333		56	40-140	19	30	
1,2-Dichlorobenzene	1.83	0.333	mg/kg wet	3.333		55	40-140	19	30	
1,3-Dichlorobenzene	1.84	0.333	mg/kg wet	3.333		55	40-140	18	30	
1,4-Dichlorobenzene	1.80	0.333	mg/kg wet	3.333		54	40-140	18	30	
2,4,5-Trichlorophenol	2.72	0.333	mg/kg wet	3.333		82	30-130	9	30	
2,4,6-Trichlorophenol	2.49	0.333	mg/kg wet	3.333		75	30-130	9	30	
2,4-Dichlorophenol	2.15	0.333	mg/kg wet	3.333		64	30-130	17	30	
2,4-Dimethylphenol	2.13	0.333	mg/kg wet	3.333		64	30-130	16	30	
2,4-Dinitrophenol	2.40	1.67	mg/kg wet	3.333		72	30-130	1	30	
2,4-Dinitrotoluene	2.74	0.333	mg/kg wet	3.333		82	40-140	1	30	
2,6-Dinitrotoluene	2.53	0.333	mg/kg wet	3.333		76	40-140	4	30	
2-Chloronaphthalene	1.93	0.333	mg/kg wet	3.333		58	40-140	14	30	
2-Chlorophenol	1.83	0.333	mg/kg wet	3.333		55	30-130	18	30	
2-Methylphenol	1.88	0.333	mg/kg wet	3.333		56	30-130	18	30	
2-Nitrophenol	2.06	0.333	mg/kg wet	3.333		62	30-130	20	30	
3,3´-Dichlorobenzidine	2.40	0.667	mg/kg wet	3.333		72	40-140	0.7	30	
3+4-Methylphenol	3.99	0.667	mg/kg wet	6.667		60	30-130	18	30	
4-Bromophenyl-phenylether	2.54	0.333	mg/kg wet	3.333		76	40-140	1	30	
4-Chloroaniline	1.62	0.667	mg/kg wet	3.333		49	40-140	13	30	
4-Nitrophenol	2.59	1.67	mg/kg wet	3.333		78	30-130	3	30	
Acetophenone	1.99	0.667	mg/kg wet	3.333		60	40-140	18	30	
Aniline	1.38	1.67	mg/kg wet	3.333		41	40-140	15	30	
Azobenzene	2.35	0.333	mg/kg wet	3.333		71	40-140	0.5	30	
bis(2-Chloroethoxy)methane	1.91	0.333	mg/kg wet	3.333		57	40-140	18	30	
bis(2-Chloroethyl)ether	1.84	0.333	mg/kg wet	3.333		55	40-140	17	30	
bis(2-chloroisopropyl)Ether	1.80	0.333	mg/kg wet	3.333		54	40-140	19	30	
bis(2-Ethylhexyl)phthalate	2.96	0.333	mg/kg wet	3.333		89	40-140	2	30	
Butylbenzylphthalate	2.77	0.333	mg/kg wet	3.333		83	40-140	0.7	30	
Dibenzofuran	2.33	0.333	mg/kg wet	3.333		70	40-140	11	30	
Diethylphthalate	2.56	0.333	mg/kg wet	3.333		77	40-140	0.6	30	
Dimethylphthalate	2.40	0.333	mg/kg wet	3.333		72	40-140	3	30	
Di-n-butylphthalate	2.91	0.333	mg/kg wet	3.333		87	40-140	1	30	
Di-n-octylphthalate	3.10	0.333	mg/kg wet	3.333		93	40-140	0.6	30	
Hexachlorobutadiene	1.90	0.333	mg/kg wet	3.333		57	40-140	19	30	
Hexachloroethane	1.76	0.333	mg/kg wet	3.333		53	40-140	18	30	
Isophorone	1.85	0.333	mg/kg wet	3.333		55	40-140	18	30	
Nitrobenzene	1.83	0.333	mg/kg wet	3.333		55	40-140	17	30	
N-Nitrosodimethylamine	1.70	0.333	mg/kg wet	3.333		51	40-140	15	30	
Pentachlorophenol	2.92	1.67	mg/kg wet	3.333		88	30-130	3	30	
Phenol	1.81	0.333	mg/kg wet	3.333		54	30-130	17	30	
Surrogate: 1,2-Dichlorobenzene-d4	*1.74*		mg/kg wet	*3.333*		*52*	*30-130*			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503559

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D Semi-Volatile Organic Compounds										
Batch CD50735 - 3546										
Surrogate: 2,4,6-Tribromophenol	*3.73*		mg/kg wet	*5.000*		*75*	*30-130*			
Surrogate: 2-Chlorophenol-d4	*2.64*		mg/kg wet	*5.000*		*53*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*2.03*		mg/kg wet	*3.333*		*61*	*30-130*			
Surrogate: 2-Fluorophenol	*2.59*		mg/kg wet	*5.000*		*52*	*30-130*			
Surrogate: Nitrobenzene-d5	*1.79*		mg/kg wet	*3.333*		*54*	*30-130*			
Surrogate: Phenol-d6	*2.68*		mg/kg wet	*5.000*		*54*	*30-130*			
Surrogate: p-Terphenyl-d14	*2.49*		mg/kg wet	*3.333*		*75*	*30-130*			
Batch CD50739 - 3546										
Blank										
1,2,4-Trichlorobenzene	ND	0.333	mg/kg wet							
1,2-Dichlorobenzene	ND	0.333	mg/kg wet							
1,3-Dichlorobenzene	ND	0.333	mg/kg wet							
1,4-Dichlorobenzene	ND	0.333	mg/kg wet							
2,4,5-Trichlorophenol	ND	0.333	mg/kg wet							
2,4,6-Trichlorophenol	ND	0.333	mg/kg wet							
2,4-Dichlorophenol	ND	0.333	mg/kg wet							
2,4-Dimethylphenol	ND	0.333	mg/kg wet							
2,4-Dinitrophenol	ND	1.67	mg/kg wet							
2,4-Dinitrotoluene	ND	0.333	mg/kg wet							
2,6-Dinitrotoluene	ND	0.333	mg/kg wet							
2-Chloronaphthalene	ND	0.333	mg/kg wet							
2-Chlorophenol	ND	0.333	mg/kg wet							
2-Methylphenol	ND	0.333	mg/kg wet							
2-Nitrophenol	ND	0.333	mg/kg wet							
3,3´-Dichlorobenzidine	ND	0.667	mg/kg wet							
3+4-Methylphenol	ND	0.667	mg/kg wet							
4-Bromophenyl-phenylether	ND	0.333	mg/kg wet							
4-Chloroaniline	ND	0.667	mg/kg wet							
4-Nitrophenol	ND	1.67	mg/kg wet							
Acetophenone	ND	0.667	mg/kg wet							
Aniline	ND	1.67	mg/kg wet							
Azobenzene	ND	0.333	mg/kg wet							
bis(2-Chloroethoxy)methane	ND	0.333	mg/kg wet							
bis(2-Chloroethyl)ether	ND	0.333	mg/kg wet							
bis(2-chloroisopropyl)Ether	ND	0.333	mg/kg wet							
bis(2-Ethylhexyl)phthalate	ND	0.333	mg/kg wet							
Butylbenzylphthalate	ND	0.333	mg/kg wet							
Dibenzofuran	ND	0.333	mg/kg wet							
Diethylphthalate	ND	0.333	mg/kg wet							
Dimethylphthalate	ND	0.333	mg/kg wet							
Di-n-butylphthalate	ND	0.333	mg/kg wet							
Di-n-octylphthalate	ND	0.333	mg/kg wet							
Hexachlorobutadiene	ND	0.333	mg/kg wet							
Hexachloroethane	ND	0.333	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503559

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D Semi-Volatile Organic Compounds										
Batch CD50739 - 3546										
Isophorone	ND	0.333	mg/kg wet							
Nitrobenzene	ND	0.333	mg/kg wet							
N-Nitrosodimethylamine	ND	0.333	mg/kg wet							
Pentachlorophenol	ND	1.67	mg/kg wet							
Phenol	ND	0.333	mg/kg wet							
Surrogate: 1,2-Dichlorobenzene-d4	*2.24*		mg/kg wet	*3.333*		*67*	*30-130*			
Surrogate: 2,4,6-Tribromophenol	*3.04*		mg/kg wet	*5.000*		*61*	*30-130*			
Surrogate: 2-Chlorophenol-d4	*3.42*		mg/kg wet	*5.000*		*68*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*2.33*		mg/kg wet	*3.333*		*70*	*30-130*			
Surrogate: 2-Fluorophenol	*3.31*		mg/kg wet	*5.000*		*66*	*30-130*			
Surrogate: Nitrobenzene-d5	*2.20*		mg/kg wet	*3.333*		*66*	*30-130*			
Surrogate: Phenol-d6	*3.45*		mg/kg wet	*5.000*		*69*	*30-130*			
Surrogate: p-Terphenyl-d14	*3.81*		mg/kg wet	*3.333*		*114*	*30-130*			
LCS										
1,2,4-Trichlorobenzene	1.93	0.333	mg/kg wet	3.333		58	40-140			
1,2-Dichlorobenzene	1.76	0.333	mg/kg wet	3.333		53	40-140			
1,3-Dichlorobenzene	1.74	0.333	mg/kg wet	3.333		52	40-140			
1,4-Dichlorobenzene	1.73	0.333	mg/kg wet	3.333		52	40-140			
2,4,5-Trichlorophenol	2.96	0.333	mg/kg wet	3.333		89	30-130			
2,4,6-Trichlorophenol	2.74	0.333	mg/kg wet	3.333		82	30-130			
2,4-Dichlorophenol	2.42	0.333	mg/kg wet	3.333		73	30-130			
2,4-Dimethylphenol	2.42	0.333	mg/kg wet	3.333		73	30-130			
2,4-Dinitrophenol	2.31	1.67	mg/kg wet	3.333		69	30-130			
2,4-Dinitrotoluene	2.89	0.333	mg/kg wet	3.333		87	40-140			
2,6-Dinitrotoluene	2.75	0.333	mg/kg wet	3.333		82	40-140			
2-Chloronaphthalene	2.12	0.333	mg/kg wet	3.333		64	40-140			
2-Chlorophenol	1.92	0.333	mg/kg wet	3.333		58	30-130			
2-Methylphenol	2.10	0.333	mg/kg wet	3.333		63	30-130			
2-Nitrophenol	2.15	0.333	mg/kg wet	3.333		65	30-130			
3,3´-Dichlorobenzidine	2.34	0.667	mg/kg wet	3.333		70	40-140			
3+4-Methylphenol	4.56	0.667	mg/kg wet	6.667		68	30-130			
4-Bromophenyl-phenylether	3.08	0.333	mg/kg wet	3.333		92	40-140			
4-Chloroaniline	1.64	0.667	mg/kg wet	3.333		49	40-140			
4-Nitrophenol	2.54	1.67	mg/kg wet	3.333		76	30-130			
Acetophenone	2.18	0.667	mg/kg wet	3.333		66	40-140			
Aniline	1.31	1.67	mg/kg wet	3.333		39	40-140			B-
Azobenzene	2.89	0.333	mg/kg wet	3.333		87	40-140			
bis(2-Chloroethoxy)methane	2.13	0.333	mg/kg wet	3.333		64	40-140			
bis(2-Chloroethyl)ether	1.90	0.333	mg/kg wet	3.333		57	40-140			
bis(2-chloroisopropyl)Ether	1.88	0.333	mg/kg wet	3.333		56	40-140			
bis(2-Ethylhexyl)phthalate	3.18	0.333	mg/kg wet	3.333		95	40-140			
Butylbenzylphthalate	3.02	0.333	mg/kg wet	3.333		91	40-140			
Dibenzofuran	2.54	0.333	mg/kg wet	3.333		76	40-140			
Diethylphthalate	2.79	0.333	mg/kg wet	3.333		84	40-140			
Dimethylphthalate	2.68	0.333	mg/kg wet	3.333		80	40-140			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503559

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D Semi-Volatile Organic Compounds										
Batch CD50739 - 3546										
Di-n-butylphthalate	3.19	0.333	mg/kg wet	3.333		96	40-140			
Di-n-octylphthalate	3.32	0.333	mg/kg wet	3.333		100	40-140			
Hexachlorobutadiene	1.89	0.333	mg/kg wet	3.333		57	40-140			
Hexachloroethane	1.69	0.333	mg/kg wet	3.333		51	40-140			
Isophorone	2.06	0.333	mg/kg wet	3.333		62	40-140			
Nitrobenzene	1.93	0.333	mg/kg wet	3.333		58	40-140			
N-Nitrosodimethylamine	1.70	0.333	mg/kg wet	3.333		51	40-140			
Pentachlorophenol	3.12	1.67	mg/kg wet	3.333		93	30-130			
Phenol	2.00	0.333	mg/kg wet	3.333		60	30-130			
Surrogate: 1,2-Dichlorobenzene-d4	*1.98*		mg/kg wet	*3.333*		*60*	*30-130*			
Surrogate: 2,4,6-Tribromophenol	*5.35*		mg/kg wet	*5.000*		*107*	*30-130*			
Surrogate: 2-Chlorophenol-d4	*3.28*		mg/kg wet	*5.000*		*66*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*2.68*		mg/kg wet	*3.333*		*80*	*30-130*			
Surrogate: 2-Fluorophenol	*3.10*		mg/kg wet	*5.000*		*62*	*30-130*			
Surrogate: Nitrobenzene-d5	*2.18*		mg/kg wet	*3.333*		*65*	*30-130*			
Surrogate: Phenol-d6	*3.47*		mg/kg wet	*5.000*		*69*	*30-130*			
Surrogate: p-Terphenyl-d14	*3.44*		mg/kg wet	*3.333*		*103*	*30-130*			
LCS Dup										
1,2,4-Trichlorobenzene	1.83	0.333	mg/kg wet	3.333		55	40-140	5	30	
1,2-Dichlorobenzene	1.67	0.333	mg/kg wet	3.333		50	40-140	5	30	
1,3-Dichlorobenzene	1.67	0.333	mg/kg wet	3.333		50	40-140	4	30	
1,4-Dichlorobenzene	1.65	0.333	mg/kg wet	3.333		49	40-140	5	30	
2,4,5-Trichlorophenol	2.90	0.333	mg/kg wet	3.333		87	30-130	2	30	
2,4,6-Trichlorophenol	2.65	0.333	mg/kg wet	3.333		79	30-130	3	30	
2,4-Dichlorophenol	2.24	0.333	mg/kg wet	3.333		67	30-130	8	30	
2,4-Dimethylphenol	2.26	0.333	mg/kg wet	3.333		68	30-130	7	30	
2,4-Dinitrophenol	2.49	1.67	mg/kg wet	3.333		75	30-130	7	30	
2,4-Dinitrotoluene	2.98	0.333	mg/kg wet	3.333		89	40-140	3	30	
2,6-Dinitrotoluene	2.75	0.333	mg/kg wet	3.333		82	40-140	0.04	30	
2-Chloronaphthalene	2.02	0.333	mg/kg wet	3.333		61	40-140	5	30	
2-Chlorophenol	1.77	0.333	mg/kg wet	3.333		53	30-130	8	30	
2-Methylphenol	1.94	0.333	mg/kg wet	3.333		58	30-130	8	30	
2-Nitrophenol	2.06	0.333	mg/kg wet	3.333		62	30-130	4	30	
3,3´-Dichlorobenzidine	2.32	0.667	mg/kg wet	3.333		69	40-140	0.8	30	
3+4-Methylphenol	4.17	0.667	mg/kg wet	6.667		63	30-130	9	30	
4-Bromophenyl-phenylether	2.83	0.333	mg/kg wet	3.333		85	40-140	9	30	
4-Chloroaniline	1.57	0.667	mg/kg wet	3.333		47	40-140	4	30	
4-Nitrophenol	2.74	1.67	mg/kg wet	3.333		82	30-130	8	30	
Acetophenone	1.99	0.667	mg/kg wet	3.333		60	40-140	10	30	
Aniline	1.27	1.67	mg/kg wet	3.333		38	40-140	4	30	B-
Azobenzene	2.64	0.333	mg/kg wet	3.333		79	40-140	9	30	
bis(2-Chloroethoxy)methane	1.98	0.333	mg/kg wet	3.333		60	40-140	7	30	
bis(2-Chloroethyl)ether	1.78	0.333	mg/kg wet	3.333		53	40-140	7	30	
bis(2-chloroisopropyl)Ether	1.71	0.333	mg/kg wet	3.333		51	40-140	9	30	
bis(2-Ethylhexyl)phthalate	3.19	0.333	mg/kg wet	3.333		96	40-140	0.4	30	

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503559

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D Semi-Volatile Organic Compounds										
Batch CD50739 - 3546										
Butylbenzylphthalate	2.95	0.333	mg/kg wet	3.333		89	40-140	2	30	
Dibenzofuran	2.48	0.333	mg/kg wet	3.333		75	40-140	2	30	
Diethylphthalate	2.84	0.333	mg/kg wet	3.333		85	40-140	2	30	
Dimethylphthalate	2.64	0.333	mg/kg wet	3.333		79	40-140	1	30	
Di-n-butylphthalate	3.24	0.333	mg/kg wet	3.333		97	40-140	2	30	
Di-n-octylphthalate	3.41	0.333	mg/kg wet	3.333		102	40-140	3	30	
Hexachlorobutadiene	1.82	0.333	mg/kg wet	3.333		55	40-140	3	30	
Hexachloroethane	1.62	0.333	mg/kg wet	3.333		49	40-140	4	30	
Isophorone	1.92	0.333	mg/kg wet	3.333		58	40-140	7	30	
Nitrobenzene	1.84	0.333	mg/kg wet	3.333		55	40-140	5	30	
N-Nitrosodimethylamine	1.62	0.333	mg/kg wet	3.333		49	40-140	5	30	
Pentachlorophenol	3.09	1.67	mg/kg wet	3.333		93	30-130	0.7	30	
Phenol	1.84	0.333	mg/kg wet	3.333		55	30-130	8	30	
Surrogate: 1,2-Dichlorobenzene-d4	*1.82*		mg/kg wet	*3.333*		*55*	*30-130*			
Surrogate: 2,4,6-Tribromophenol	*4.82*		mg/kg wet	*5.000*		*96*	*30-130*			
Surrogate: 2-Chlorophenol-d4	*2.92*		mg/kg wet	*5.000*		*58*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*2.42*		mg/kg wet	*3.333*		*73*	*30-130*			
Surrogate: 2-Fluorophenol	*2.77*		mg/kg wet	*5.000*		*55*	*30-130*			
Surrogate: Nitrobenzene-d5	*2.02*		mg/kg wet	*3.333*		*61*	*30-130*			
Surrogate: Phenol-d6	*3.07*		mg/kg wet	*5.000*		*61*	*30-130*			
Surrogate: p-Terphenyl-d14	*3.12*		mg/kg wet	*3.333*		*94*	*30-130*			
8270D(SIM) Polynuclear Aromatic Hydrocarbons										
Batch CD50227 - 3546										
Blank										
2-Methylnaphthalene	ND	0.017	mg/kg wet							
Acenaphthene	ND	0.017	mg/kg wet							
Acenaphthylene	ND	0.017	mg/kg wet							
Anthracene	ND	0.017	mg/kg wet							
Benzo(a)anthracene	ND	0.017	mg/kg wet							
Benzo(a)pyrene	ND	0.017	mg/kg wet							
Benzo(b)fluoranthene	ND	0.017	mg/kg wet							
Benzo(g,h,i)perylene	ND	0.017	mg/kg wet							
Benzo(k)fluoranthene	ND	0.017	mg/kg wet							
Chrysene	ND	0.017	mg/kg wet							
Dibenzo(a,h)Anthracene	ND	0.017	mg/kg wet							
Fluoranthene	ND	0.017	mg/kg wet							
Fluorene	ND	0.017	mg/kg wet							
Hexachlorobenzene	ND	0.017	mg/kg wet							
Indeno(1,2,3-cd)Pyrene	ND	0.017	mg/kg wet							
Naphthalene	ND	0.017	mg/kg wet							
Phenanthrene	ND	0.017	mg/kg wet							
Pyrene	ND	0.017	mg/kg wet							
Surrogate: 1,2-Dichlorobenzene-d4	*0.295*		mg/kg wet	*0.3333*		*89*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*0.325*		mg/kg wet	*0.3333*		*97*	*30-130*			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503559

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D(SIM) Polynuclear Aromatic Hydrocarbons										
Batch CD50227 - 3546										
Surrogate: Nitrobenzene-d5	*0.307*		mg/kg wet	*0.3333*		*92*	*30-130*			
Surrogate: p-Terphenyl-d14	*0.321*		mg/kg wet	*0.3333*		*96*	*30-130*			
LCS										
2-Methylnaphthalene	0.129	0.017	mg/kg wet	0.2667		48	40-140			
Acenaphthene	0.219	0.017	mg/kg wet	0.2667		82	40-140			
Acenaphthylene	0.027	0.017	mg/kg wet	0.2667		10	40-140			B-
Anthracene	0.125	0.017	mg/kg wet	0.2667		47	40-140			
Benzo(a)anthracene	0.180	0.017	mg/kg wet	0.2667		68	40-140			
Benzo(a)pyrene	0.127	0.017	mg/kg wet	0.2667		48	40-140			
Benzo(b)fluoranthene	0.279	0.017	mg/kg wet	0.2667		105	40-140			
Benzo(g,h,i)perylene	0.273	0.017	mg/kg wet	0.2667		102	40-140			
Benzo(k)fluoranthene	0.268	0.017	mg/kg wet	0.2667		101	40-140			
Chrysene	0.221	0.017	mg/kg wet	0.2667		83	40-140			
Dibenzo(a,h)Anthracene	0.282	0.017	mg/kg wet	0.2667		106	40-140			
Fluoranthene	0.218	0.017	mg/kg wet	0.2667		82	40-140			
Fluorene	0.235	0.017	mg/kg wet	0.2667		88	40-140			
Hexachlorobenzene	0.213	0.017	mg/kg wet	0.2667		80	40-140			
Indeno(1,2,3-cd)Pyrene	0.282	0.017	mg/kg wet	0.2667		106	40-140			
Naphthalene	0.179	0.017	mg/kg wet	0.2667		67	40-140			
Phenanthrene	0.212	0.017	mg/kg wet	0.2667		79	40-140			
Pyrene	0.214	0.017	mg/kg wet	0.2667		80	40-140			
Surrogate: 1,2-Dichlorobenzene-d4	*0.269*		mg/kg wet	*0.3333*		*81*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*0.315*		mg/kg wet	*0.3333*		*94*	*30-130*			
Surrogate: Nitrobenzene-d5	*0.282*		mg/kg wet	*0.3333*		*85*	*30-130*			
Surrogate: p-Terphenyl-d14	*0.329*		mg/kg wet	*0.3333*		*99*	*30-130*			
LCS Dup										
2-Methylnaphthalene	0.164	0.017	mg/kg wet	0.2667		62	40-140	24	30	
Acenaphthene	0.197	0.017	mg/kg wet	0.2667		74	40-140	11	30	
Acenaphthylene	0.192	0.017	mg/kg wet	0.2667		72	40-140	151	30	D+
Anthracene	0.195	0.017	mg/kg wet	0.2667		73	40-140	44	30	D+
Benzo(a)anthracene	0.189	0.017	mg/kg wet	0.2667		71	40-140	5	30	
Benzo(a)pyrene	0.210	0.017	mg/kg wet	0.2667		79	40-140	49	30	D+
Benzo(b)fluoranthene	0.218	0.017	mg/kg wet	0.2667		82	40-140	25	30	
Benzo(g,h,i)perylene	0.210	0.017	mg/kg wet	0.2667		79	40-140	26	30	
Benzo(k)fluoranthene	0.203	0.017	mg/kg wet	0.2667		76	40-140	27	30	
Chrysene	0.207	0.017	mg/kg wet	0.2667		78	40-140	6	30	
Dibenzo(a,h)Anthracene	0.210	0.017	mg/kg wet	0.2667		79	40-140	29	30	
Fluoranthene	0.201	0.017	mg/kg wet	0.2667		75	40-140	8	30	
Fluorene	0.210	0.017	mg/kg wet	0.2667		79	40-140	11	30	
Hexachlorobenzene	0.184	0.017	mg/kg wet	0.2667		69	40-140	14	30	
Indeno(1,2,3-cd)Pyrene	0.214	0.017	mg/kg wet	0.2667		80	40-140	28	30	
Naphthalene	0.161	0.017	mg/kg wet	0.2667		60	40-140	10	30	
Phenanthrene	0.193	0.017	mg/kg wet	0.2667		72	40-140	10	30	
Pyrene	0.208	0.017	mg/kg wet	0.2667		78	40-140	3	30	

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503559

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D(SIM) Polynuclear Aromatic Hydrocarbons										
Batch CD50227 - 3546										
Surrogate: 1,2-Dichlorobenzene-d4	*0.253*		mg/kg wet	*0.3333*		*76*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*0.286*		mg/kg wet	*0.3333*		*86*	*30-130*			
Surrogate: Nitrobenzene-d5	*0.259*		mg/kg wet	*0.3333*		*78*	*30-130*			
Surrogate: p-Terphenyl-d14	*0.342*		mg/kg wet	*0.3333*		*103*	*30-130*			
Classical Chemistry										
Batch CD50128 - General Preparation										
Blank										
Reactive Cyanide	ND	2.0	mg/kg							
Reactive Sulfide	ND	2.0	mg/kg							
LCS										
Reactive Cyanide	3.8	2.0	mg/kg	100.3		4	0.68-5.41			
Reactive Sulfide	0.2	2.0	mg/kg	10.00		2	0-44			
Batch CD50609 - General Preparation										
Blank										
Hexavalent Chromium	ND	0.7	mg/kg wet							
LCS										
Hexavalent Chromium	32.4	0.7	mg/kg wet	33.32		97	80-120			
LCS Dup										
Hexavalent Chromium	32.6	0.7	mg/kg wet	33.32		98	80-120	0.5	20	
Reference										
Hexavalent Chromium	109	2.0	mg/kg wet	125.0		87	61-139			
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CD50222 - 3546										
Blank										
C19-C36 Aliphatics1	ND	15.0	mg/kg wet							
C9-C18 Aliphatics1	ND	15.0	mg/kg wet							
Decane (C10)	ND	0.5	mg/kg wet							
Docosane (C22)	ND	0.5	mg/kg wet							
Dodecane (C12)	ND	0.5	mg/kg wet							
Eicosane (C20)	ND	0.5	mg/kg wet							
Hexacosane (C26)	ND	0.5	mg/kg wet							
Hexadecane (C16)	ND	0.5	mg/kg wet							
Hexatriacontane (C36)	ND	0.5	mg/kg wet							
Nonadecane (C19)	ND	0.5	mg/kg wet							
Nonane (C9)	ND	0.5	mg/kg wet							
Octacosane (C28)	ND	0.5	mg/kg wet							
Octadecane (C18)	ND	0.5	mg/kg wet							
Tetracosane (C24)	ND	0.5	mg/kg wet							
Tetradecane (C14)	ND	0.5	mg/kg wet							
Triacontane (C30)	ND	0.5	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503559

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CD50222 - 3546										
Surrogate: 1-Chlorooctadecane	*1.23*		mg/kg wet	*2.000*		*61*	*40-140*			
Blank										
2-Methylnaphthalene	ND	0.20	mg/kg wet							
Acenaphthene	ND	0.40	mg/kg wet							
Acenaphthylene	ND	0.20	mg/kg wet							
Anthracene	ND	0.40	mg/kg wet							
Benzo(a)anthracene	ND	0.40	mg/kg wet							
Benzo(a)pyrene	ND	0.40	mg/kg wet							
Benzo(b)fluoranthene	ND	0.40	mg/kg wet							
Benzo(g,h,i)perylene	ND	0.40	mg/kg wet							
Benzo(k)fluoranthene	ND	0.40	mg/kg wet							
C11-C22 Unadjusted Aromatics1	ND	15.0	mg/kg wet							
Chrysene	ND	0.40	mg/kg wet							
Dibenzo(a,h)Anthracene	ND	0.20	mg/kg wet							
Fluoranthene	ND	0.40	mg/kg wet							
Fluorene	ND	0.40	mg/kg wet							
Indeno(1,2,3-cd)Pyrene	ND	0.40	mg/kg wet							
Naphthalene	ND	0.40	mg/kg wet							
Phenanthrene	ND	0.40	mg/kg wet							
Pyrene	ND	0.40	mg/kg wet							
Surrogate: 2-Bromonaphthalene	*1.86*		mg/kg wet	*2.000*		*93*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*1.72*		mg/kg wet	*2.000*		*86*	*40-140*			
Surrogate: O-Terphenyl	*1.50*		mg/kg wet	*2.000*		*75*	*40-140*			
LCS										
C19-C36 Aliphatics1	16.6	15.0	mg/kg wet	16.00		104	40-140			
C9-C18 Aliphatics1	11.7	15.0	mg/kg wet	12.00		98	40-140			
Decane (C10)	1.1	0.5	mg/kg wet	2.000		57	40-140			
Docosane (C22)	1.8	0.5	mg/kg wet	2.000		90	40-140			
Dodecane (C12)	1.2	0.5	mg/kg wet	2.000		58	40-140			
Eicosane (C20)	1.7	0.5	mg/kg wet	2.000		87	40-140			
Hexacosane (C26)	1.8	0.5	mg/kg wet	2.000		92	40-140			
Hexadecane (C16)	1.5	0.5	mg/kg wet	2.000		77	40-140			
Hexatriacontane (C36)	1.7	0.5	mg/kg wet	2.000		87	40-140			
Nonadecane (C19)	1.8	0.5	mg/kg wet	2.000		88	40-140			
Nonane (C9)	0.9	0.5	mg/kg wet	2.000		45	30-140			
Octacosane (C28)	1.8	0.5	mg/kg wet	2.000		89	40-140			
Octadecane (C18)	1.7	0.5	mg/kg wet	2.000		83	40-140			
Tetracosane (C24)	1.7	0.5	mg/kg wet	2.000		86	40-140			
Tetradecane (C14)	1.4	0.5	mg/kg wet	2.000		69	40-140			
Triacontane (C30)	1.8	0.5	mg/kg wet	2.000		88	40-140			
Surrogate: 1-Chlorooctadecane	*1.36*		mg/kg wet	*2.000*		*68*	*40-140*			
LCS										
2-Methylnaphthalene	1.52	0.20	mg/kg wet	2.000		76	40-140			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
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ESS Laboratory Work Order: 1503559

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CD50222 - 3546										
Acenaphthene	1.59	0.40	mg/kg wet	2.000		80	40-140			
Acenaphthylene	1.67	0.20	mg/kg wet	2.000		83	40-140			
Anthracene	1.79	0.40	mg/kg wet	2.000		89	40-140			
Benzo(a)anthracene	1.78	0.40	mg/kg wet	2.000		89	40-140			
Benzo(a)pyrene	1.90	0.40	mg/kg wet	2.000		95	40-140			
Benzo(b)fluoranthene	1.73	0.40	mg/kg wet	2.000		87	40-140			
Benzo(g,h,i)perylene	1.72	0.40	mg/kg wet	2.000		86	40-140			
Benzo(k)fluoranthene	1.69	0.40	mg/kg wet	2.000		84	40-140			
C11-C22 Unadjusted Aromatics1	33.3	15.0	mg/kg wet	34.00		98	40-140			
Chrysene	1.72	0.40	mg/kg wet	2.000		86	40-140			
Dibenzo(a,h)Anthracene	1.69	0.20	mg/kg wet	2.000		85	40-140			
Fluoranthene	1.73	0.40	mg/kg wet	2.000		87	40-140			
Fluorene	1.66	0.40	mg/kg wet	2.000		83	40-140			
Indeno(1,2,3-cd)Pyrene	1.79	0.40	mg/kg wet	2.000		90	40-140			
Naphthalene	1.42	0.40	mg/kg wet	2.000		71	40-140			
Phenanthrene	1.77	0.40	mg/kg wet	2.000		89	40-140			
Pyrene	1.79	0.40	mg/kg wet	2.000		89	40-140			
Surrogate: 2-Bromonaphthalene	*1.76*		mg/kg wet	*2.000*		*88*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*1.72*		mg/kg wet	*2.000*		*86*	*40-140*			
Surrogate: O-Terphenyl	*1.55*		mg/kg wet	*2.000*		*78*	*40-140*			
LCS										
2-Methylnaphthalene Breakthrough	0.0		%				0-5			
Naphthalene Breakthrough	0.0		%				0-5			
LCS Dup										
C19-C36 Aliphatics1	16.3	15.0	mg/kg wet	16.00		102	40-140	2	25	
C9-C18 Aliphatics1	11.6	15.0	mg/kg wet	12.00		97	40-140	1	25	
Decane (C10)	1.1	0.5	mg/kg wet	2.000		57	40-140	0.9	25	
Docosane (C22)	1.8	0.5	mg/kg wet	2.000		91	40-140	1	25	
Dodecane (C12)	1.2	0.5	mg/kg wet	2.000		59	40-140	1	25	
Eicosane (C20)	1.8	0.5	mg/kg wet	2.000		89	40-140	2	25	
Hexacosane (C26)	1.9	0.5	mg/kg wet	2.000		93	40-140	1	25	
Hexadecane (C16)	1.6	0.5	mg/kg wet	2.000		78	40-140	2	25	
Hexatriacontane (C36)	1.8	0.5	mg/kg wet	2.000		89	40-140	2	25	
Nonadecane (C19)	1.8	0.5	mg/kg wet	2.000		89	40-140	2	25	
Nonane (C9)	0.9	0.5	mg/kg wet	2.000		45	30-140	0.07	25	
Octacosane (C28)	1.8	0.5	mg/kg wet	2.000		91	40-140	2	25	
Octadecane (C18)	1.7	0.5	mg/kg wet	2.000		85	40-140	2	25	
Tetracosane (C24)	1.8	0.5	mg/kg wet	2.000		88	40-140	2	25	
Tetradecane (C14)	1.4	0.5	mg/kg wet	2.000		70	40-140	2	25	
Triacontane (C30)	1.8	0.5	mg/kg wet	2.000		89	40-140	2	25	
Surrogate: 1-Chlorooctadecane	*1.39*		mg/kg wet	*2.000*		*70*	*40-140*			
LCS Dup										
2-Methylnaphthalene	1.57	0.20	mg/kg wet	2.000		79	40-140	4	20	

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503559

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CD50222 - 3546										
Acenaphthene	1.65	0.40	mg/kg wet	2.000		82	40-140	3	20	
Acenaphthylene	1.69	0.20	mg/kg wet	2.000		84	40-140	1	20	
Anthracene	1.88	0.40	mg/kg wet	2.000		94	40-140	5	20	
Benzo(a)anthracene	1.92	0.40	mg/kg wet	2.000		96	40-140	7	20	
Benzo(a)pyrene	2.05	0.40	mg/kg wet	2.000		103	40-140	8	20	
Benzo(b)fluoranthene	1.84	0.40	mg/kg wet	2.000		92	40-140	6	20	
Benzo(g,h,i)perylene	1.79	0.40	mg/kg wet	2.000		90	40-140	4	20	
Benzo(k)fluoranthene	1.85	0.40	mg/kg wet	2.000		92	40-140	9	20	
C11-C22 Unadjusted Aromatics1	34.1	15.0	mg/kg wet	34.00		100	40-140	3	25	
Chrysene	1.87	0.40	mg/kg wet	2.000		93	40-140	8	20	
Dibenzo(a,h)Anthracene	1.78	0.20	mg/kg wet	2.000		89	40-140	5	20	
Fluoranthene	1.81	0.40	mg/kg wet	2.000		90	40-140	4	20	
Fluorene	1.76	0.40	mg/kg wet	2.000		88	40-140	6	20	
Indeno(1,2,3-cd)Pyrene	1.89	0.40	mg/kg wet	2.000		94	40-140	5	20	
Naphthalene	1.45	0.40	mg/kg wet	2.000		72	40-140	2	20	
Phenanthrene	1.84	0.40	mg/kg wet	2.000		92	40-140	4	20	
Pyrene	1.91	0.40	mg/kg wet	2.000		95	40-140	6	20	
Surrogate: 2-Bromonaphthalene	*1.80*		mg/kg wet	*2.000*		*90*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*1.74*		mg/kg wet	*2.000*		*87*	*40-140*			
Surrogate: O-Terphenyl	*1.60*		mg/kg wet	*2.000*		*80*	*40-140*			
LCS Dup										
2-Methylnaphthalene Breakthrough	0.0		%				0-5		200	
Naphthalene Breakthrough	0.0		%				0-5		200	

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase ESS Laboratory Work Order: 1503559

Notes and Definitions

Z-10	Soil pH measured in water at 14.3 ºC.
Z-08	See Attached
WL	Results obtained from a deionized water leach of the sample.
U	Analyte included in the analysis, but not detected
S-	Surrogate recovery(ies) below lower control limit (S-).
P	Percent difference between primary and confirmation results exceeds 40% (P).
LC	Lower value is used due to matrix interferences (LC).
H	Estimated value. Sample hold times were exceeded (H).
D+	Relative percent difference for duplicate is outside of criteria (D+).
D	Diluted.
C+	Continuing Calibration recovery is above upper control limit (C+).
B+	Blank Spike recovery is above upper control limit (B+).
B-	Blank Spike recovery is below lower control limit (B-).
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	Detection Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report
[2C]	Result was taken from the second column. Dual column analysis.

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503559

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Department of Defense (DoD) Environmental Laboratory Accreditation Program (ELAP)
A2LA Accredited: Testing Cert# 2864.01
http://www.a2la.org/scopepdf/2864-01.pdf

Rhode Island Potable and Non Potable Water: LAI00179
http://www.health.ri.gov/find/labs/analytical/ESS.pdf

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750
http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI0002
http://www.maine.gov/dhhs/mecdc/environmental-health/water/dwp-services/labcert/documents/AllLabs.xls

Massachusetts Potable and Non Potable Water: M-RI002
http://public.dep.state.ma.us/Labcert/Labcert.aspx

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424
http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313
http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006
http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

United States Department of Agriculture Soil Permit: P330-12-00139

Pennsylvania: 68-01752
http://www.depweb.state.pa.us/portal/server.pt/community/labs/13780/laboratory_accreditation_program/590095

CHEMISTRY

A2LA Accredited: Testing Cert # 2864.01
Lead in Paint, Phthalates, Lead in Children's Metals Products (Including Jewelry)
http://www.A2LA.org/dirsearchnew/newsearch.cfm

CPSC ID# 1141
Lead Paint, Lead in Children's Metals Jewelry
http://www.cpsc.gov/cgi-bin/labapplist.aspx

LABORATORY TESTING DATA SHEET

Project Name Wynn Everett | Project Location Everett, MA | Reviewed By

Project No. 01.0171521.13 **ESS-1503559** | Assigned By D. Scanlon

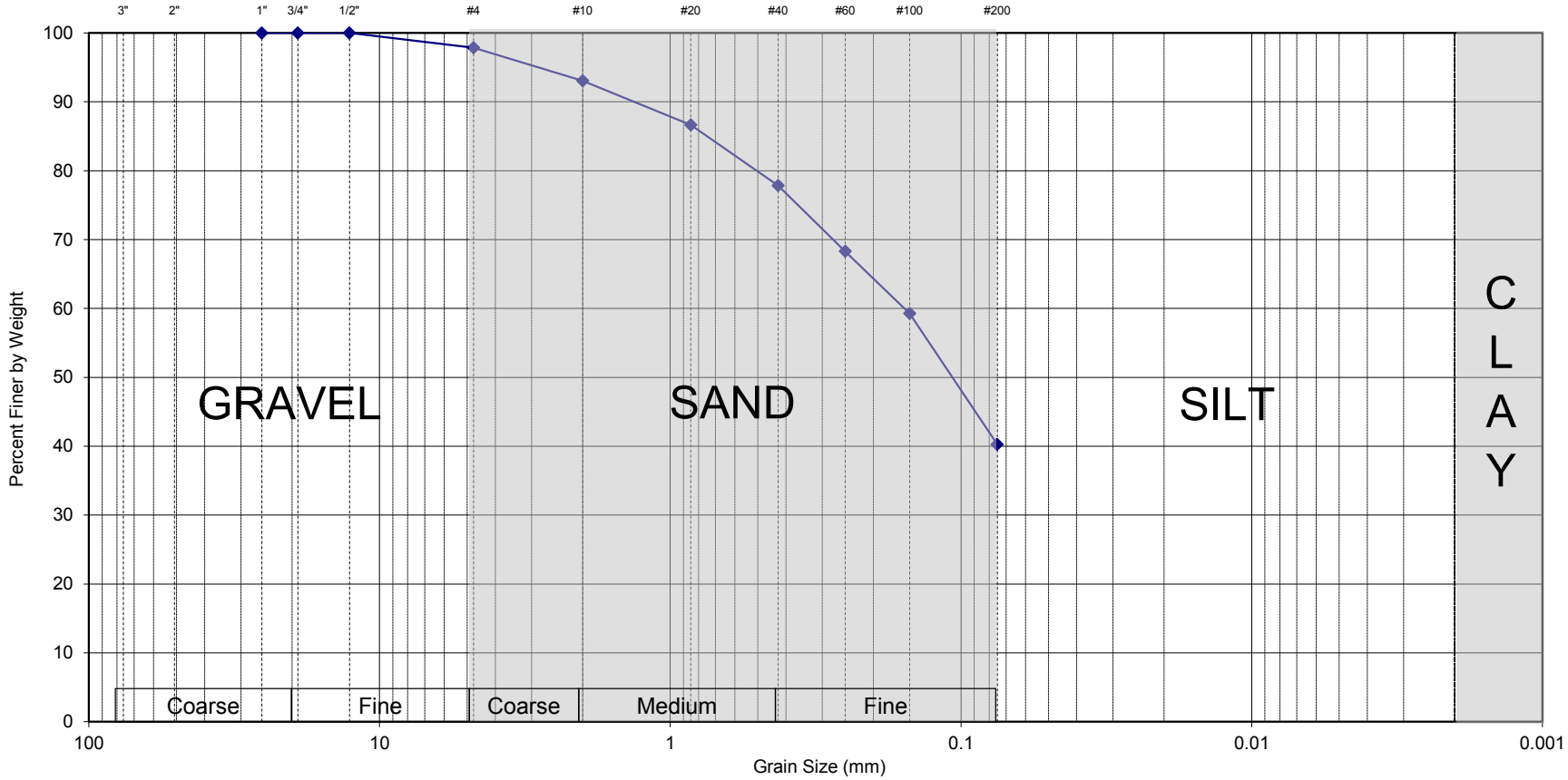
Project Manager D. Leone/C. Taylor | Report Date 4/2/15 | Date Reviewed *4/2/15*

Boring ID	Depth (ft)	ESS Sample ID	Lab No.	Identification Tests								Strength Tests				Laboratory Log and Soil Description
				Water Content %	LL %	PL %	Sieve -200 %	Hyd -2µ %	ORG %	G_s	Dry unit wt. pcf	Torvane or Type Test	Failure Criteria	$\sigma_1 - \sigma_3$ psf	Strain %	
GZ-215	0-3	1503559-09	15-S-282	38.8			40.3									Gray f-m SAND and Organic SILT, trace Gravel

THIELSCH ENGINEERING

195 Frances Avenue
Cranston, RI 02910 401-467-6454

U.S. STANDARD SIEVE AND HYDROMETER



Gravel	Sand	Fines
2.1%	57.6%	40.3%

Lab #	Sample ID	ESS Sample ID	Sample Date	Description	WC	LL	PL	PI
15-S-282	GZ-215	1503559-09	3/30/15	Gray f-m SAND and Organic SILT, trace Gravel	39			

Sieve Size	% Passing
¾"	100.0
½"	100.0
#4	97.9
#10	93.1
#20	86.6
#40	77.8
#60	68.3
#100	59.3
#200	40.3

THIELSCH ENGINEERING
195 Frances Ave., Cranston, RI 02109
401-467-6454

Wynn Everett
ESS Project 1503558
GZA File # 01.0171521.13

Tested by: MS Date: 4/2/15
Reviewed by: MBP Date: 4/2/15

SOILS LABORATORY TESTING ASSIGNMENT SHEET

THIELSCH ENGINEERING 401-467-6454 195 Frances Ave., Cranston, RI 02910

Project Name **Wynn Everett** Client _____ Assigned By _____

CTS Project No. **74-14-0002.01** Site Location _____ Collected By _____

ESS Project No. **1503559** Date Assigned _____ Received By _____

Project Manager **Christine Taylor** Date Received _____ Date Required **5 DAY - 4/7/15**

Sample Information					Lab No.	Identification Tests							Permeability		Compaction			Strength		Consol.	Notes
Boring/ Test Pit No.	Sample No.	Depth Ft.	Sample Date	ESS SAMPLE ID		Water Cont. %	LL & PL %	Org. %	Sieve -200 %	Hyd -2μ %	G_s	γ_t pcf	Sand	Clay	Mod.	Std.	CBR	Tor-vane	Type Test $\bar{\sigma}_c$ or σ^c	Cc/ 1+eo	#
						D2216	D4318	D2974	D422		D854		D2434	D5084	D1557	D698	D1883		D2166/ D4767/ D2850	D2435	#
GZ-215	0'-3'		3/30/15	1503559-09		X			X												

Notes: _____

Sample and Cooler Receipt Checklist

Client: GZA GeoEnvironmental, Inc.
Client Project ID: _____
Shipped/Delivered Via: ESS Courier

ESS Project ID: 15030559
Date Project Due: 4/7/15
Days For Project: 5 Day

Items to be checked upon receipt:

1. Air Bill Manifest Present?	* No	10. Are the samples properly preserved?	Yes
Air No.:		11. Proper sample containers used?	Yes
2. Were Custody Seals Present?	No	12. Any air bubbles in the VOA vials?	N/A
3. Were Custody Seals Intact?	N/A	13. Holding times exceeded?	No
4. Is Radiation count < 100 CPM?	Yes	14. Sufficient sample volumes?	Yes
5. Is a cooler present?	Yes	15. Any Subcontracting needed?	* Yes
Cooler Temp: **4.6**		16. Are ESS labels on correct containers?	**Yes|No**
Iced With: **Ice**		17. Were samples received intact?	**Yes|No**
6. Was COC included with samples?	Yes	ESS Sample IDs: 09	
7. Was COC signed and dated by client?	Yes	Sub Lab: CTS	
8. Does the COC match the sample	Yes	Analysis: Grain Size / % Water	
9. Is COC complete and correct?	Yes	TAT: 5DAY	

18. Was there need to call project manager to discuss status? If yes, please explain.
LOW Level vials frozen 3/31/15 mw EB 4/2/15 mw

Who was called?:_____ By whom? _____

Sample Number	Properly Preserved	Container Type	# of Containers	Preservative
1	Yes	8 oz Soil Jar	2	NP
2	Yes	8 oz Soil Jar	2	NP
3	Yes	8 oz Soil Jar	2	NP
4	Yes	8 oz Soil Jar	2	NP
5	Yes	8 oz Soil Jar	2	NP
6	Yes	2 oz Soil Jar	1	NP
6	Yes	8 oz Soil Jar	2	NP
7	Yes	8 oz Soil Jar	2	NP
8	Yes	2 oz Soil Jar	1	NP
8	Yes	8 oz Soil Jar	2	NP
9	Yes	4 oz Soil Jar	1	NP
9	Yes	40 ml - VOA	1	MeOH
9	Yes	40 ml - VOA	2	other
9	Yes	8 oz Soil Jar	2	NP
9	Yes	Other Glass	1	NP
10	Yes	8 oz Soil Jar	1	NP
11	Yes	8 oz Soil Jar	1	NP
12	Yes	8 oz Soil Jar	1	NP
13	Yes	8 oz Soil Jar	1	NP
14	Yes	8 oz Soil Jar	1	NP
15	Yes	8 oz Soil Jar	1	NP
16	Yes	8 oz Soil Jar	1	NP
17	Yes	8 oz Soil Jar	1	NP
18	Yes	8 oz Soil Jar	1	NP
19	Yes	8 oz Soil Jar	1	NP

Sample and Cooler Receipt Checklist

Client: GZA GeoEnvironmental, Inc. ESS Project ID: 15030559

20	Yes	8 oz Soil Jar	1	NP
21	Yes	8 oz Soil Jar	1	NP
22	Yes	8 oz Soil Jar	1	NP
23	Yes	8 oz Soil Jar	1	NP
24	Yes	8 oz Soil Jar	1	NP
25	Yes	8 oz Soil Jar	1	NP

Completed By: _____ Date/Time: 3/31/15 1404

Reviewed By: _____ Date/Time: 3/31/15 1543

ESS Laboratory

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

ESS LAB PROJECT ID: 1503559

Turn Time ___X___ Standard Rush_____ Approved By: _____

Reporting Limits -

State where samples were collected: **MA** RI CT NH NJ NY ME Other_____

Is this project for any of the following: (please circle)
MA-MCP CT-RCP NJ-DKQP RGP DOD Other____

Electonic Deliverable Yes ✓ No ___
Format: Excel ✓ Access ___ PDF ✓ Other____

GZA Project Manager: David E. Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Ave
Norwood, MA 02062
(781) 278-3700

Project No.: 01.0171521.13 Task 001

Project Name: Wynn - Everett

Contract Pricing ____
Special Pricing WO#: _____

	ESS Lab Sample ID	Date	Collection Time	Grab -G Composite-C	Matrix	Sample Identification	# of Containers	MCP-14 Metals	PAHs by SIM	TOC	SVOCs	PCBs (Aroclors)	EPH	Hexavalent Chromium	Reactivity (Sulfide and Cyanide)	VOCs	% water	Grain Size Analysis	Comment #
							Analysis												
1	10 16 19	3/30/15	0945	G	S	GZ-224 (0'-0.5')		X	X	X	X	X	X						
2	11 17 20					GZ-224 (0.5'-2')		X	X	X	X	X	X						
			↓			GZ-224 (2'-3')		HOLD AND FREEZE											
3	12 18 21		1010			GZ-214 (0'-0.5')		X	X	X	X	X	X						
						GZ-214 (0.5'-2')		HOLD AND FREEZE											
4	13 19 22					GZ-214 (2'-4')		X	X	X	X	X	X						
5	14 20 23					GZ-214 (4'-6')		X	X	X	X	X	X						
6	15		↓			GZ-214 (6'-8')		X	X										
7	16 24		1040			GZ-215 (0'-0.5')		X	X	X	X	X	X						
		↓	1040	↓	↓	GZ-215 (0.5'-2')		HOLD AND FREEZE											

Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-____

Container Type: P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filter

Cooler Present ___X___ Yes _____ No

Seals Intact _____ Yes _____ No NA: X

Cooler Temperature: 3.1°/4.6° ICE @ 3/31/15

Sampled by : Daniel Scanlon (Daniel.Scanlon@gza.com)

Comments: (1) TCLP 20X Rule Applies ONLY if noted in comments column.

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	3/30/15 @ 1400	0700 B. O'Beacon 3/31/15	0830 B. O'Beacon 3/31/15		3/31/15 1227

ESS Laboratory

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

ESS LAB PROJECT ID: 1503559

Turn Time ___X___ Standard Rush_____ Approved By: _____

Reporting Limits -

State where samples were collected: **MA** RI CT NH NJ NY ME Other_____

Is this project for any of the following: (please circle)
MA-MCP CT-RCP NJ-DKQP RGP DOD Other___

Electonic Deliverable Yes ✓ No___
Format: Excel___ ✓Access___ PDF ✓ Other___

GZA Project Manager: David E. Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Ave
Norwood, MA 02062
(781) 278-3700

Project No.: 01.0171521.13 Task 001

Project Name: Wynn - Everett

Contract Pricing ____
Special Pricing WO#: _____

ESS Lab Sample ID	Date	Collection Time	Grab -G Composite-C	Matrix	Sample Identification	Analysis: # of Containers	MCP-14 Metals	PAHs by SIM	TOC	SVOCs	PCBs (Aroclors)	EPH	Hexavalent Chromium	Reactivity (Sulfide and Cyanide)	VOCs	% water	Grain Size Analysis	Comment #
	3/30/15	1040	G	S	GZ-215 (2'-4')		HOLD		AND			FREEZE						
B17	↓	↓	G	S	GZ-215 (4'-6')		X	X										
9 18 25	↓	↓	G	S	GZ-215 (0'-3')		X		X	X	X	X	X	X	X	X	X	(1)

Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-_____

Container Type: P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filter

Cooler Present ___X___Yes _____No

Seals Intact _____Yes _____No NA: X

Cooler Temperature: 3.1°/4.6°ICE 3/31/15

Sampled by : Daniel Scanlon (Daniel.Scanlon@gza.com)

Comments: (1) TCLP 20X Rule Applies ONLY if indicated in comments column

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	3/30/15 1400	0700	0830		3/31/15 1227

Page 4 of 4

CERTIFICATE OF ANALYSIS

David E Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Avenue
Norwood, MA 02062

RE: Wynn Everett Sediment Phase (01.0171521.13 Task 001)
ESS Laboratory Work Order Number: 1503590

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard
Laboratory Director

REVIEWED
By ESS Laboratory at 1:57 pm, Apr 10, 2015

Analytical Summary
The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with NELAC Standards, A2LA and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.

Subcontracted Analyses

TestAmerica Laboratories, Inc. - Burlington, VT	Total Organic Carbon

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503590

SAMPLE RECEIPT

The following samples were received on March 31, 2015 for the analyses specified on the enclosed Chain of Custody Record.

To achieve CAM compliance for MCP data, ESS Laboratory has performed and reviewed all QA/QC Requirements and Performance Standards listed in each method. Holding times and preservation have also been reviewed. All CAM requirements have been achieved unless noted in the project narrative.

Each method has been set-up in the laboratory to reach required MCP standards. The methods for aqueous VOA and Soil Methanol VOA have known limitations for certain analytes. The regulatory standards may not be achieved due to these limitations. In addition, for all methods, matrix interferences, dilutions, and %Solids may elevate method reporting limits above regulatory standards. ESS Laboratory can provide, upon request, a Data Checker (regulatory standard comparison spreadsheet) electronic deliverable which will highlight these exceedances.

For EPH soil samples, the aromatic range results have been corrected for identified cartridge contaminant in accordance with the CAM protocol.

Revision 1 April 10, 2015: This report has been revised to include revised COC.

Lab Number	Sample Name	Matrix	Analysis
1503590-01	GZ-211 0ft-0.5ft	Soil	TOC-LK
1503590-02	GZ-211 0ft-3ft	Soil	TOC-LK
1503590-03	GZ-210 0ft-0.5ft	Soil	TOC-LK

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503590

PROJECT NARRATIVE

No unusual observations noted.

End of Project Narrative.

DATA USABILITY LINKS

Definitions of Quality Control Parameters

Semivolatile Organics Internal Standard Information

Semivolatile Organics Surrogate Information

Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503590

CURRENT SW-846 METHODOLOGY VERSIONS

Analytical Methods

1010A - Flashpoint
6010C - ICP
6020A - ICP MS
7010 - Graphite Furnace
7196A - Hexavalent Chromium
7470A - Aqueous Mercury
7471B - Solid Mercury
8011 - EDB/DBCP/TCP
8015D - GRO/DRO
8081B - Pesticides
8082A - PCB
8100M - TPH
8151A - Herbicides
8260B - VOA
8270D - SVOA
8270D SIM - SVOA Low Level
9014 - Cyanide
9038 - Sulfate
9040C - Aqueous pH
9045D - Solid pH (Corrosivity)
9050A - Specific Conductance
9056A - Anions (IC)
9060A - TOC
9095B - Paint Filter
MADEP 04-1.1 - EPH / VPH

Prep Methods

3005A - Aqueous ICP and Graphite Furnace Digestion
3020A - Aqueous ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3546 - Microwave Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5030C - Aqueous Purge and Trap
5035 - Solid Purge and Trap

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-211 0ft-0.5ft
Date Sampled: 03/31/15 10:07
Percent Solids: N/A

ESS Laboratory Work Order: 1503590
ESS Laboratory Sample ID: 1503590-01
Sample Matrix: Soil

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**12600** (1000)		TOC-LK		1	SUB	04/03/15 0:39	mg/kg	CD50906

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-211 0ft-3ft
Date Sampled: 03/31/15 10:07
Percent Solids: N/A

ESS Laboratory Work Order: 1503590
ESS Laboratory Sample ID: 1503590-02
Sample Matrix: Soil

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**19900** (1000)		TOC-LK		1	SUB	04/03/15 0:46	mg/kg	CD50906

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-210 0ft-0.5ft
Date Sampled: 03/31/15 10:30
Percent Solids: N/A

ESS Laboratory Work Order: 1503590
ESS Laboratory Sample ID: 1503590-03
Sample Matrix: Soil

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Total Organic Carbon	**9610** (1000)		TOC-LK		1	SUB	04/03/15 0:52	mg/kg	CD50906

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase ESS Laboratory Work Order: 1503590

Notes and Definitions

ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	Detection Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report
[2C]	Result was taken from the second column. Dual column analysis.

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1503590

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Department of Defense (DoD) Environmental Laboratory Accreditation Program (ELAP)
A2LA Accredited: Testing Cert# 2864.01
http://www.a2la.org/scopepdf/2864-01.pdf

Rhode Island Potable and Non Potable Water: LAI00179
http://www.health.ri.gov/find/labs/analytical/ESS.pdf

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750
http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI0002
http://www.maine.gov/dhhs/mecdc/environmental-health/water/dwp-services/labcert/documents/AllLabs.xls

Massachusetts Potable and Non Potable Water: M-RI002
http://public.dep.state.ma.us/Labcert/Labcert.aspx

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424
http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313
http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006
http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

United States Department of Agriculture Soil Permit: P330-12-00139

Pennsylvania: 68-01752
http://www.depweb.state.pa.us/portal/server.pt/community/labs/13780/laboratory_accreditation_program/590095

CHEMISTRY

A2LA Accredited: Testing Cert # 2864.01
Lead in Paint, Phthalates, Lead in Children's Metals Products (Including Jewelry)
http://www.A2LA.org/dirsearchnew/newsearch.cfm

CPSC ID# 1141
Lead Paint, Lead in Children's Metals Jewelry
http://www.cpsc.gov/cgi-bin/labapplist.aspx

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Burlington
30 Community Drive
Suite 11
South Burlington, VT 05403
Tel: (802)660-1990

TestAmerica Job ID: 200-27360-2
TestAmerica Sample Delivery Group: 1503590
Client Project/Site: 1503590

For:
ESS Laboratory
185 Frances Ave.
Cranston, Rhode Island 02910

Attn: Ms. Elizabeth Ouk

Authorized for release by:
4/9/2015 10:42:49 AM

Kathryn Kelly, Project Manager I
(802)660-1990
kathryn.kelly@testamericainc.com

LINKS
Review your project results through TotalAccess
Have a Question? Ask The Expert
Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Definitions/Glossary 3
Case Narrative 4
Detection Summary 5
Client Sample Results 6
QC Sample Results 7
QC Association Summary 8
Lab Chronicle 9
Certification Summary 10
Method Summary 11
Sample Summary 12
Chain of Custody 13
Receipt Checklists 15

Qualifiers

General Chemistry

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 200-27360-2

Laboratory: TestAmerica Burlington

Narrative

CASE NARRATIVE

Client: ESS Laboratory

Project: 1503556

Report Number: 200-27360-2

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 04/02/2015; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 5.2 C.

TOTAL ORGANIC CARBON

Samples 1503590-01, 1503590-02 and 1503590-03 were analyzed for total organic carbon in accordance with Lloyd Kahn Method. The samples were analyzed on 04/03/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: ESS Laboratory
Project/Site: 1503590

TestAmerica Job ID: 200-27360-2
SDG: 1503590

Client Sample ID: 1503590-01 — Lab Sample ID: 200-27360-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	12600		1000	120	mg/Kg	1		Lloyd Kahn	Total/NA

Client Sample ID: 1503590-02 — Lab Sample ID: 200-27360-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	19900		1000	120	mg/Kg	1		Lloyd Kahn	Total/NA

Client Sample ID: 1503590-03 — Lab Sample ID: 200-27360-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	9610		1000	120	mg/Kg	1		Lloyd Kahn	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: ESS Laboratory
Project/Site: 1503590

TestAmerica Job ID: 200-27360-2
SDG: 1503590

Client Sample ID: 1503590-01

Lab Sample ID: 200-27360-16

Date Collected: 03/31/15 10:07
Matrix: Sediment
Date Received: 04/02/15 11:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	12600		1000	120	mg/Kg			04/03/15 00:39	1

Client Sample ID: 1503590-02

Lab Sample ID: 200-27360-17

Date Collected: 03/31/15 10:07
Matrix: Sediment
Date Received: 04/02/15 11:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	19900		1000	120	mg/Kg			04/03/15 00:46	1

Client Sample ID: 1503590-03

Lab Sample ID: 200-27360-18

Date Collected: 03/31/15 10:30
Matrix: Sediment
Date Received: 04/02/15 11:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	9610		1000	120	mg/Kg			04/03/15 00:52	1

QC Sample Results

Client: ESS Laboratory
Project/Site: 1503590

TestAmerica Job ID: 200-27360-2
SDG: 1503590

Method: Lloyd Kahn - Organic Carbon, Total (TOC)

Lab Sample ID: MB 200-86423/5
Matrix: Sediment
Analysis Batch: 86423

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	1000	U	1000	120	mg/Kg			04/02/15 22:13	1

Lab Sample ID: LCS 200-86423/6
Matrix: Sediment
Analysis Batch: 86423

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	20100	20170		mg/Kg		100	75 - 125

QC Association Summary

Client: ESS Laboratory
Project/Site: 1503590

TestAmerica Job ID: 200-27360-2
SDG: 1503590

General Chemistry

Analysis Batch: 86423

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-27360-16	1503590-01	Total/NA	Sediment	Lloyd Kahn	
200-27360-17	1503590-02	Total/NA	Sediment	Lloyd Kahn	
200-27360-18	1503590-03	Total/NA	Sediment	Lloyd Kahn	
LCS 200-86423/6	Lab Control Sample	Total/NA	Sediment	Lloyd Kahn	
MB 200-86423/5	Method Blank	Total/NA	Sediment	Lloyd Kahn	

Lab Chronicle

Client: ESS Laboratory
Project/Site: 1503590

TestAmerica Job ID: 200-27360-2
SDG: 1503590

Client Sample ID: 1503590-01

Lab Sample ID: 200-27360-16

Date Collected: 03/31/15 10:07

Matrix: Sediment

Date Received: 04/02/15 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	86423	04/03/15 00:39	MDK	TAL BUR

Client Sample ID: 1503590-02

Lab Sample ID: 200-27360-17

Date Collected: 03/31/15 10:07

Matrix: Sediment

Date Received: 04/02/15 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	86423	04/03/15 00:46	MDK	TAL BUR

Client Sample ID: 1503590-03

Lab Sample ID: 200-27360-18

Date Collected: 03/31/15 10:30

Matrix: Sediment

Date Received: 04/02/15 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	86423	04/03/15 00:52	MDK	TAL BUR

Laboratory References:

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Certification Summary

Client: ESS Laboratory
Project/Site: 1503590

TestAmerica Job ID: 200-27360-2
SDG: 1503590

Laboratory: TestAmerica Burlington

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Connecticut	State Program	1	PH-0751	09-30-15
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	NA	02-13-16
Florida	NELAP	4	E87467	06-30-15
L-A-B	DoD ELAP		L2336	02-26-17
Maine	State Program	1	VT00008	04-17-15 *
Minnesota	NELAP	5	050-999-436	12-31-15
New Hampshire	NELAP	1	2006	12-18-15
New Jersey	NELAP	2	VT972	06-30-15
New York	NELAP	2	10391	03-31-16
Pennsylvania	NELAP	3	68-00489	04-30-15 *
Rhode Island	State Program	1	LAO00298	12-30-15
US Fish & Wildlife	Federal		LE-058448-0	02-28-16
USDA	Federal		P330-11-00093	10-28-16
Vermont	State Program	1	VT-4000	12-31-15
Virginia	NELAP	3	460209	12-14-15

* Certification renewal pending - certification considered valid.

Method Summary

Client: ESS Laboratory
Project/Site: 1503590

TestAmerica Job ID: 200-27360-2
SDG: 1503590

Method	Method Description	Protocol	Laboratory
Lloyd Kahn	Organic Carbon, Total (TOC)	EPA	TAL BUR

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Sample Summary

Client: ESS Laboratory
Project/Site: 1503590

TestAmerica Job ID: 200-27360-2
SDG: 1503590

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
200-27360-16	1503590-01	Sediment	03/31/15 10:07	04/02/15 11:00
200-27360-17	1503590-02	Sediment	03/31/15 10:07	04/02/15 11:00
200-27360-18	1503590-03	Sediment	03/31/15 10:30	04/02/15 11:00

ESS Laboratory — T. America — CHAIN OF CUSTODY

Division of Thielsch Engineering, Inc.

185 Frances Avenue,Cranston RI 02910-2211
Tel. (401)461-7181 Fax (401)461-4486
www.esslaboratory.com

ESS Lab # 1503590

Turn Time _____Standard Other **5 DAY**

Regulatory State: **MA** RI CT NH NJ NY ME Other_____

Is this project for any of the following:(please circle)
MA-MCP Navy USACE CT DEP Other_____

Reporting Limits - _____

Electonic Deliverables **Excel** Access **PDF** *

Co. Name	Project #	Project Name
ESS Laboratory		1503590

Contact Person	Proj. Location
Christine Taylor	

Address	City , State	Zip	PO #
			B02192

Tel.	email:	email:
ext. 3039	ctaylor@thielsch.com	smorrell@thielsch.com

ESS Lab ID	Date	Collection Time	Grab -G Composite-C	Matrix	Sample ID	Pres Code	# of Containers	Type of Container	Vol of Container	Analysis: TOC Lloyd Kahn									
	3/31/15	1007	G	SED	1503590-01	1	1	G	2oz	X									
	3/31/15	1007	G	SED	1503590-02	1	1	G	2oz	X									
	3/31/15	1030	G	SED	1503590-03	1	1	G	2oz	X									

Container Type: P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filter

Cooler Present _____Yes _____No Internal Use Only

Seals Intact ____ Yes _____No NA:____ [ ] Pickup

Cooler Temperature: _____ [ ] Technician____

Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-_____

Sampled by :

Comments:

Relinquished by: (Signature, Date & Time)	Received by: (Signature, Date & Time)	Relinquished by: (Signature, Date & Time)	Received by: (Signature, Date & Time)
4/1/15 1410		4/1/15	*
Relinquished by: (Signature, Date & Time)	Received by: (Signature, Date & Time)	Relinquished by: (Signature, Date & Time)	Received by: (Signature, Date & Time)
	* 4/2/15 TASTV 1100		

By circling MA-MCP, client acknowledges sampels were collected in accordance with MADEP CAM VIIA

Please fax to the laboratory all changes to Chain of Custody

Report Method Blank & Laboratory Control Sample Results



ORIGIN ID:BXCA (781) 466-6900
PAUL HOBART
TESTAMERICA
240 BEAR HILL ROAD
SUITE 104
WALTHAM, MA 02451
UNITED STATES US

SHIP DATE: 01APR15
ACTWGT: 49.3 LB
CAD: 590687/CAFE2807

BILL RECIPIENT

TO SAMPLE RECEIVING
TESTAMERICA BURLINGTON
30 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403
(802) 660-1990 REF:
INV:
PO: DEPT:

FedEx Express

THU - 02 APR AA
STANDARD OVERNIGHT

TRK# 0201 4258 8388 7934

EK BTVA

05403
VT-US BTV

Part # 156148-43-I RIT2 07/14

Login Sample Receipt Checklist

Client: ESS Laboratory

Job Number: 200-27360-2
SDG Number: 1503590

Login Number: 27360
List Number: 1
Creator: Atherton, Joel E

List Source: TestAmerica Burlington

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	TAMPER EVIDENT TAPE
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.2ºC
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	IDs on containers do not match the COC. Logged in per COC.
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Sample and Cooler Receipt Checklist

Client: GZA GeoEnvironmental, Inc.
Client Project ID: _____
Shipped/Delivered Via: ESS Courier

ESS Project ID: 15030590
Date Project Due: 4/7/15
Days For Project: 5 Day

Items to be checked upon receipt:

1. Air Bill Manifest Present?	* No	10. Are the samples properly preserved?	Yes
Air No.:		11. Proper sample containers used?	Yes
2. Were Custody Seals Present?	No	12. Any air bubbles in the VOA vials?	N/A
3. Were Custody Seals Intact?	N/A	13. Holding times exceeded?	No
4. Is Radiation count < 100 CPM?	Yes	14. Sufficient sample volumes?	Yes
5. Is a cooler present?	Yes	15. Any Subcontracting needed?	* Yes
Cooler Temp: **0.9**		16. Are ESS labels on correct containers?	Yes | No
Iced With: **Ice**		17. Were samples received intact?	Yes | No
6. Was COC included with samples?	Yes	ESS Sample IDs:	01-03
7. Was COC signed and dated by client?	Yes	Sub Lab:	Test America
8. Does the COC match the sample	Yes	Analysis:	TOC LK
9. Is COC complete and correct?	Yes	TAT:	5 DAY

18. Was there need to call project manager to discuss status? If yes, please explain.

_____

_____

_____

Who was called?:_____ By whom? _____

Sample Number	Properly Preserved	Container Type	# of Containers	Preservative
1	Yes	2 oz Soil Jar	1	NP
2	Yes	2 oz Soil Jar	1	NP
3	Yes	2 oz Soil Jar	1	NP

Completed By: _____ Date/Time: 4/1/15 0929
Reviewed By: _____ Date/Time: 4/1/15 1013

ESS Laboratory

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www.esslaboratory.com

CHAIN OF CUSTODY

ESS LAB PROJECT ID: 1503590

Turn Time ___X___ Standard Rush_____ Approved By: _____

Reporting Limits -

State where samples were collected: **MA** RI CT NH NJ NY ME Other_____

Is this project for any of the following: (please circle)
MA-MCP CT-RCP NJ-DKQP RGP DOD Other____

Electonic Deliverable Yes ✓ No____
Format: Excel ✓ Access___ PDF ✓ Other____

GZA Project Manager: David E. Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Ave
Norwood, MA 02062
(781) 278-3700

Project No.: 01.0171521.13 Task 001

Project Name: Wynn - Everett

Contract Pricing ____
Special Pricing WO#: _____

ESS Lab Sample ID	Date	Collection Time	Grab -G Composite-C	Matrix	Sample Identification	# of Containers	MCP 14 Metals	PAHs by SIM	TOC	SVOCs	PCBs (Aroclors)	EPH	Hexavalent Chromium	Reactivity (Sulfide and Cyanide)	VOCs	% water	Grain Size Analysis	Comment #
						Analysis												
1	3/31/15	10:07	6	S	GZ-211 (0'-0.5')		X	X	X	X	X	X						
					GZ-211 (0.5'-2')		HOLD	AND	FREEZE									
					GZ-211 (2'-4')		HOLD	AND	FREEZE									
					GZ-211 (4'-6')		X	X										
2		↓			GZ-211 (0'-3')		X		X	X	X	X	X	X	X	X	X	(1)
3		10:30			GZ-210 (0'-0.5')		X	X	X	X	X	X						
					GZ-210 (0.5'-2')		X	X										
					GZ-210 (2'-4')		X	X										
		↓	↓	↓	GZ-210 (4'-5½')		HOLD	AND	FREEZE									

Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-_____

Container Type: P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filter

Cooler Present ✓ Yes ____ No

Seals Intact ____ Yes ____ No NA: ✓

Cooler Temperature: 0.9 ICE

Sampled by : Daniel Scanlon (Daniel.Scanlon@gza.com)

Comments: (1) TCLP 20X Rule Applies ONLY if noted in comments column
TOC only reported with this WO - cmt 4/1/15

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
[signature]	3/31/15		GZA FRIDGE WALKER	3/31/15 1515	[signature] 3/31/15 1515

Relinquished dk Halladay @ 1345 3/31/15 1620 [signature] 3/31/15 1818

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www.esslaboratory.com

CHAIN OF CUSTODY

ESS LAB PROJECT ID: 1503590

Turn Time ___X___ Standard Rush_____ Approved By: _____

Reporting Limits -

State where samples were collected: **MA** RI CT NH NJ NY ME Other_____

Is this project for any of the following: (please circle)
MA-MCP CT-RCP NJ-DKQP RGP DOD Other____

Electonic Deliverable Yes ✓ No___
Format: Excel ✓ Access___ PDF ✓ Other_____

GZA Project Manager: David E. Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Ave
Norwood, MA 02062
(781) 278-3700

Project No.: 01.0171521.13 Task 001

Project Name: Wynn - Everett

Contract Pricing ____
Special Pricing WO#: _____

ESS Lab Sample ID	Date	Collection Time	Grab -G Composite-C	Matrix	Sample Identification	# of Containers	Analysis: MCP-14 Metals	PAHs by SIM	TOC	SVOCs	PCBs (Aroclors)	EPH	Hexavalent Chromium	Reactivity (Sulfide and Cyanide)	VOCs	% water	Grain Size Analysis	Comment #
1	3/31/15	10:07	6	S	GZ-211 (0'-0.5')		X	X	X	X	X	X						
					GZ-211 (0.5'-2')		HOLD AND FREEZE											
					GZ-211 (2'-4')		HOLD AND FREEZE											
					GZ-211 (4'-6')		X	X										
2		↓			GZ-211 (0'-3')		X		X	X	X	X	X	X	X	X	X	(1)
3		10:30			GZ-210 (0'-0.5')		X	X	X	X	X	X						
					GZ-210 (0.5'-2')		X	X										
					GZ-210 (2'-4')		X	X										
	↓	↓	↓	↓	GZ-210 (4'-5½')		HOLD AND FREEZE											

Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-_____

Container Type: P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filter

Cooler Present ✓ Yes ____ No

Seals Intact ____ Yes ____ No NA: ✓

Cooler Temperature: 0.9 ICE

Sampled by : Daniel Scanlon (Daniel.Scanlon@gza.com)

Comments: (1) TCLP 20X Rule Applies ONLY if noted in comments column

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
[signature]	3/31/15		GZA FRIDGE WALKER	3/31/15 1515	[signature] 3/31/15 1515

Relinquished Dick Halladay @ 1345 3/31/15 1620 [signature] 3/31/15 1818

CERTIFICATE OF ANALYSIS

David E Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Avenue
Norwood, MA 02062

RE: Wynn Everett Sediment Phase (01.0171521.13 Task 001)
ESS Laboratory Work Order Number: 1504045

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard
Laboratory Director

REVIEWED
By ESS Laboratory at 3:11 pm, Apr 16, 2015

Analytical Summary
The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with NELAC Standards, A2LA and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1504045

SAMPLE RECEIPT

The following samples were received on April 09, 2015 for the analyses specified on the enclosed Chain of Custody Record.

To achieve CAM compliance for MCP data, ESS Laboratory has performed and reviewed all QA/QC Requirements and Performance Standards listed in each method. Holding times and preservation have also been reviewed. All CAM requirements have been achieved unless noted in the project narrative.

Each method has been set-up in the laboratory to reach required MCP standards. The methods for aqueous VOA and Soil Methanol VOA have known limitations for certain analytes. The regulatory standards may not be achieved due to these limitations. In addition, for all methods, matrix interferences, dilutions, and %Solids may elevate method reporting limits above regulatory standards. ESS Laboratory can provide, upon request, a Data Checker (regulatory standard comparison spreadsheet) electronic deliverable which will highlight these exceedances.

For EPH soil samples, the aromatic range results have been corrected for identified cartridge contaminant in accordance with the CAM protocol.

Samples 1504045-01 and 1504045-02 were originally received on March 25, 2015 as ESS Laboratory Sample IDs 1503415-21 and 1503415-31. Sample 1504045-03 was originally received on March 26, 2015 as ESS Laboratory Sample ID 1503447-20. Samples 1504045-04, 1504045-05, 1504045-06 and 1504045-07 were originally received on March 26, 2015 as ESS Laboratory Sample IDs 1503448-15, 1503448-19, 1503448-22 and 1503448-28. Samples 1504045-08 and 1504045-09 were originally received on March 31, 2015 as ESS Laboratory Sample IDs 1503558-24 and 1503558-30. Sample 1504045-10 was originally received on March 27, 2015 as ESS Laboratory Sample ID 1503512-24.

Lab Number	Sample Name	Matrix	Analysis
1504045-01	GZ-203 0ft-3ft	Soil	1311, 1311/6010C
1504045-02	GZ-217 0ft-3ft	Soil	1311, 1311/6010C
1504045-03	GZ-207 0ft-3ft	Soil	1311, 1311/6010C
1504045-04	GZ-206 0ft-3ft	Soil	1311, 1311/6010C
1504045-05	GZ-205 0ft-3ft	Soil	1311, 1311/6010C
1504045-06	GZ-213 0ft-3ft	Soil	1311, 1311/6010C
1504045-07	GZ-219 0ft-3ft	Soil	1311, 1311/6010C
1504045-08	GZ-211 0ft-3ft	Soil	1311, 1311/6010C, 1311/7470A
1504045-09	GZ-223 0ft-3ft	Soil	1311, 1311/6010C, 1311/7470A
1504045-10	GZ-201 0ft-3ft	Soil	1311, 1311/6010C

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1504045

PROJECT NARRATIVE

No unusual observations noted.

End of Project Narrative.

DATA USABILITY LINKS

Definitions of Quality Control Parameters

Semivolatile Organics Internal Standard Information

Semivolatile Organics Surrogate Information

Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1504045

CURRENT SW-846 METHODOLOGY VERSIONS

Analytical Methods

1010A - Flashpoint
6010C - ICP
6020A - ICP MS
7010 - Graphite Furnace
7196A - Hexavalent Chromium
7470A - Aqueous Mercury
7471B - Solid Mercury
8011 - EDB/DBCP/TCP
8015D - GRO/DRO
8081B - Pesticides
8082A - PCB
8100M - TPH
8151A - Herbicides
8260B - VOA
8270D - SVOA
8270D SIM - SVOA Low Level
9014 - Cyanide
9038 - Sulfate
9040C - Aqueous pH
9045D - Solid pH (Corrosivity)
9050A - Specific Conductance
9056A - Anions (IC)
9060A - TOC
9095B - Paint Filter
MADEP 04-1.1 - EPH / VPH

Prep Methods

3005A - Aqueous ICP and Graphite Furnace Digestion
3020A - Aqueous ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3546 - Microwave Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5030C - Aqueous Purge and Trap
5035 - Solid Purge and Trap

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-203 0ft-3ft
Date Sampled: 03/24/15 12:30
Percent Solids: N/A

ESS Laboratory Work Order: 1504045
ESS Laboratory Sample ID: 1504045-01
Sample Matrix: Soil
Units: mg/L

Extraction Method: 3005A TCLP

TCLP Extraction Date: 4/7/15 18:42

1311 TCLP Metals

Analyte	Results (MRL)	MDL	Method	TCLP Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Lead	**0.179** (0.050)		1311/6010C		1	KJK	04/08/15 13:39	50	50	CD50752

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-203 0ft-3ft
Date Sampled: 03/24/15 12:30
Percent Solids: N/A
Initial Volume: 100
Final Volume: 2000
Extraction Method: 3005A TCLP

ESS Laboratory Work Order: 1504045
ESS Laboratory Sample ID: 1504045-01
Sample Matrix: Soil
Units: °C
Analyst: NRA
Prepared: 4/6/15 21:20

TCLP Extraction by 1311

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Batch
Temperature (Min C)	**21.5** (N/A)		1311		1	NRA	04/07/15 13:20	CD50645
Temperature (Max C)	**21.5** (N/A)		1311		1	NRA	04/07/15 13:20	CD50645
Temperature (Range)	**Temperature is within 23 +/-2 °C.** (N/A)							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-217 0ft-3ft
Date Sampled: 03/24/15 16:10
Percent Solids: N/A

ESS Laboratory Work Order: 1504045
ESS Laboratory Sample ID: 1504045-02
Sample Matrix: Soil
Units: mg/L

Extraction Method: 3005A TCLP

TCLP Extraction Date: 4/7/15 18:42

1311 TCLP Metals

Analyte	Results (MRL)	MDL	Method	TCLP Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Lead	**0.365** (0.050)		1311/6010C		1	KJK	04/08/15 13:43	50	50	CD50752
Selenium	ND (0.050)		1311/6010C		1	KJK	04/08/15 13:43	50	50	CD50752

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-217 0ft-3ft
Date Sampled: 03/24/15 16:10
Percent Solids: N/A
Initial Volume: 100
Final Volume: 2000
Extraction Method: 3005A TCLP

ESS Laboratory Work Order: 1504045
ESS Laboratory Sample ID: 1504045-02
Sample Matrix: Soil
Units: °C
Analyst: NRA
Prepared: 4/6/15 21:20

TCLP Extraction by 1311

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Batch
Temperature (Min C)	**21.5** (N/A)		1311		1	NRA	04/07/15 13:20	CD50645
Temperature (Max C)	**21.5** (N/A)		1311		1	NRA	04/07/15 13:20	CD50645
Temperature (Range)	**Temperature is within 23 +/-2 °C.** (N/A)							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-207 0ft-3ft
Date Sampled: 03/25/15 10:45
Percent Solids: N/A

ESS Laboratory Work Order: 1504045
ESS Laboratory Sample ID: 1504045-03
Sample Matrix: Soil
Units: mg/L

Extraction Method: 3005A TCLP

TCLP Extraction Date: 4/7/15 18:42

1311 TCLP Metals

Analyte	Results (MRL)	MDL	Method	TCLP Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Lead	ND (0.050)		1311/6010C		1	KJK	04/08/15 13:47	50	50	CD50752

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-207 0ft-3ft
Date Sampled: 03/25/15 10:45
Percent Solids: N/A
Initial Volume: 100
Final Volume: 2000
Extraction Method: 3005A TCLP

ESS Laboratory Work Order: 1504045
ESS Laboratory Sample ID: 1504045-03
Sample Matrix: Soil
Units: °C
Analyst: NRA
Prepared: 4/6/15 21:20

TCLP Extraction by 1311

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Batch
Temperature (Min C)	**21.5** (N/A)		1311		1	NRA	04/07/15 13:20	CD50645
Temperature (Max C)	**21.5** (N/A)		1311		1	NRA	04/07/15 13:20	CD50645
Temperature (Range)	**Temperature is within 23 +/-2 °C.** (N/A)							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-206 0ft-3ft
Date Sampled: 03/25/15 11:10
Percent Solids: N/A

ESS Laboratory Work Order: 1504045
ESS Laboratory Sample ID: 1504045-04
Sample Matrix: Soil
Units: mg/L

Extraction Method: 3005A TCLP

TCLP Extraction Date: 4/7/15 18:42

1311 TCLP Metals

Analyte	Results (MRL)	MDL	Method	TCLP Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Lead	ND (0.050)		1311/6010C		1	KJK	04/08/15 13:51	50	50	CD50752

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-206 0ft-3ft
Date Sampled: 03/25/15 11:10
Percent Solids: N/A
Initial Volume: 100
Final Volume: 2000
Extraction Method: 3005A TCLP

ESS Laboratory Work Order: 1504045
ESS Laboratory Sample ID: 1504045-04
Sample Matrix: Soil
Units: °C
Analyst: NRA
Prepared: 4/6/15 21:20

TCLP Extraction by 1311

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Batch
Temperature (Min C)	**21.5** (N/A)		1311		1	NRA	04/07/15 13:20	CD50645
Temperature (Max C)	**21.5** (N/A)		1311		1	NRA	04/07/15 13:20	CD50645
Temperature (Range)	**Temperature is within 23 +/-2 °C.** (N/A)							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-205 0ft-3ft
Date Sampled: 03/25/15 11:46
Percent Solids: N/A

ESS Laboratory Work Order: 1504045
ESS Laboratory Sample ID: 1504045-05
Sample Matrix: Soil
Units: mg/L

Extraction Method: 3005A TCLP

TCLP Extraction Date: 4/7/15 18:42

1311 TCLP Metals

Analyte	Results (MRL)	MDL	Method	TCLP Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Lead	**0.062** (0.050)		1311/6010C		1	KJK	04/08/15 13:55	50	50	CD50752

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-205 0ft-3ft
Date Sampled: 03/25/15 11:46
Percent Solids: N/A
Initial Volume: 100
Final Volume: 2000
Extraction Method: 3005A TCLP

ESS Laboratory Work Order: 1504045
ESS Laboratory Sample ID: 1504045-05
Sample Matrix: Soil
Units: °C
Analyst: NRA
Prepared: 4/6/15 21:20

TCLP Extraction by 1311

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Batch
Temperature (Min C)	**21.5** (N/A)		1311		1	NRA	04/07/15 13:20	CD50645
Temperature (Max C)	**21.5** (N/A)		1311		1	NRA	04/07/15 13:20	CD50645
Temperature (Range)	**Temperature is within 23 +/-2 °C.** (N/A)							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-213 0ft-3ft
Date Sampled: 03/25/15 13:52
Percent Solids: N/A

ESS Laboratory Work Order: 1504045
ESS Laboratory Sample ID: 1504045-06
Sample Matrix: Soil
Units: mg/L

Extraction Method: 3005A TCLP

TCLP Extraction Date: 4/7/15 18:42

1311 TCLP Metals

Analyte	Results (MRL)	MDL	Method	TCLP Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Lead	**1.32** (0.050)		1311/6010C		1	KJK	04/08/15 13:59	50	50	CD50752

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-213 0ft-3ft
Date Sampled: 03/25/15 13:52
Percent Solids: N/A
Initial Volume: 100
Final Volume: 2000
Extraction Method: 3005A TCLP

ESS Laboratory Work Order: 1504045
ESS Laboratory Sample ID: 1504045-06
Sample Matrix: Soil
Units: °C
Analyst: NRA
Prepared: 4/6/15 21:20

TCLP Extraction by 1311

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Batch
Temperature (Min C)	**21.5** (N/A)		1311		1	NRA	04/07/15 13:20	CD50645
Temperature (Max C)	**21.5** (N/A)		1311		1	NRA	04/07/15 13:20	CD50645
Temperature (Range)	**Temperature is within 23 +/-2 °C.** (N/A)							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-219 0ft-3ft
Date Sampled: 03/25/15 15:06
Percent Solids: N/A

ESS Laboratory Work Order: 1504045
ESS Laboratory Sample ID: 1504045-07
Sample Matrix: Soil
Units: mg/L

Extraction Method: 3005A TCLP

TCLP Extraction Date: 4/7/15 18:42

1311 TCLP Metals

Analyte	Results (MRL)	MDL	Method	TCLP Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Lead	**3.20** (0.050)		1311/6010C		1	KJK	04/08/15 14:32	50	50	CD50752

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-219 0ft-3ft
Date Sampled: 03/25/15 15:06
Percent Solids: N/A
Initial Volume: 100
Final Volume: 2000
Extraction Method: 3005A TCLP

ESS Laboratory Work Order: 1504045
ESS Laboratory Sample ID: 1504045-07
Sample Matrix: Soil
Units: °C
Analyst: NRA
Prepared: 4/6/15 21:20

TCLP Extraction by 1311

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Batch
Temperature (Min C)	**21.5** (N/A)		1311		1	NRA	04/07/15 13:20	CD50645
Temperature (Max C)	**21.5** (N/A)		1311		1	NRA	04/07/15 13:20	CD50645
Temperature (Range)	**Temperature is within 23 +/-2 °C.** (N/A)							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-211 0ft-3ft
Date Sampled: 03/30/15 08:30
Percent Solids: N/A

ESS Laboratory Work Order: 1504045
ESS Laboratory Sample ID: 1504045-08
Sample Matrix: Soil
Units: mg/L

Extraction Method: 3005A TCLP

TCLP Extraction Date: 4/11/15 14:40

1311 TCLP Metals

Analyte	Results (MRL)	MDL	Method	TCLP Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Arsenic	**0.133** (0.050)		1311/6010C		1	KJK	04/14/15 16:47	50	50	CD51109
Lead	ND (0.050)		1311/6010C		1	KJK	04/14/15 16:47	50	50	CD51109
Mercury	ND (0.00050)		1311/7470A		1	RLA	04/14/15 15:02	20	40	CD51108

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-211 0ft-3ft
Date Sampled: 03/30/15 08:30
Percent Solids: N/A
Initial Volume: 100
Final Volume: 2000
Extraction Method: 3005A TCLP

ESS Laboratory Work Order: 1504045
ESS Laboratory Sample ID: 1504045-08
Sample Matrix: Soil
Units: °C
Analyst: EVR
Prepared: 4/10/15 18:24

TCLP Extraction by 1311

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Batch
Temperature (Min C)	**21.5** (N/A)		1311		1	EVR	04/11/15 10:30	CD51035
Temperature (Max C)	**22.0** (N/A)		1311		1	EVR	04/11/15 10:30	CD51035
Temperature (Range)	**Temperature is within 23 +/-2 °C.** (N/A)							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-223 0ft-3ft
Date Sampled: 03/30/15 09:18
Percent Solids: N/A

ESS Laboratory Work Order: 1504045
ESS Laboratory Sample ID: 1504045-09
Sample Matrix: Soil
Units: mg/L

Extraction Method: 3005A TCLP

TCLP Extraction Date: 4/11/15 14:40

1311 TCLP Metals

Analyte	Results (MRL)	MDL	Method	TCLP Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Arsenic	**0.171** (0.050)		1311/6010C		1	KJK	04/14/15 16:51	50	50	CD51109
Lead	**0.620** (0.050)		1311/6010C		1	KJK	04/14/15 16:51	50	50	CD51109
Mercury	ND (0.00050)		1311/7470A		1	RLA	04/14/15 15:04	20	40	CD51108

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-223 0ft-3ft
Date Sampled: 03/30/15 09:18
Percent Solids: N/A
Initial Volume: 100
Final Volume: 2000
Extraction Method: 3005A TCLP

ESS Laboratory Work Order: 1504045
ESS Laboratory Sample ID: 1504045-09
Sample Matrix: Soil
Units: °C
Analyst: EVR
Prepared: 4/10/15 18:24

TCLP Extraction by 1311

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Batch
Temperature (Min C)	**21.5** (N/A)		1311		1	EVR	04/11/15 10:30	CD51035
Temperature (Max C)	**22.0** (N/A)		1311		1	EVR	04/11/15 10:30	CD51035
Temperature (Range)	**Temperature is within 23 +/-2 °C.** (N/A)							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-201 0ft-3ft
Date Sampled: 03/27/15 09:24
Percent Solids: N/A

ESS Laboratory Work Order: 1504045
ESS Laboratory Sample ID: 1504045-10
Sample Matrix: Soil
Units: mg/L

Extraction Method: 3005A TCLP

TCLP Extraction Date: 4/11/15 14:40

1311 TCLP Metals

Analyte	Results (MRL)	MDL	Method	TCLP Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Arsenic	ND (0.050)		1311/6010C		1	KJK	04/14/15 16:55	50	50	CD51109
Lead	ND (0.050)		1311/6010C		1	KJK	04/14/15 16:55	50	50	CD51109

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase
Client Sample ID: GZ-201 0ft-3ft
Date Sampled: 03/27/15 09:24
Percent Solids: N/A
Initial Volume: 100
Final Volume: 2000
Extraction Method: 3005A TCLP

ESS Laboratory Work Order: 1504045
ESS Laboratory Sample ID: 1504045-10
Sample Matrix: Soil
Units: °C
Analyst: EVR
Prepared: 4/10/15 18:24

TCLP Extraction by 1311

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Batch
Temperature (Min C)	**21.5** (N/A)		1311		1	EVR	04/11/15 10:30	CD51035
Temperature (Max C)	**22.0** (N/A)		1311		1	EVR	04/11/15 10:30	CD51035
Temperature (Range)	**Temperature is within 23 +/-2 °C.** (N/A)							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1504045

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
1311 TCLP Metals										
Batch CD50752 - 3005A_TCLP										
Blank										
Lead	ND	0.050	mg/L							
Selenium	ND	0.050	mg/L							
Blank										
Lead	ND	0.050	mg/L							
Selenium	ND	0.050	mg/L							
LCS										
Lead	0.482	0.050	mg/L	0.5000		96	80-120			
Selenium	1.01	0.050	mg/L	1.000		101	80-120			
LCS Dup										
Lead	0.467	0.050	mg/L	0.5000		93	80-120	3	20	
Selenium	0.986	0.050	mg/L	1.000		99	80-120	3	20	
Batch CD51108 - 245.1/7470A										
Blank										
Mercury	ND	0.00050	mg/L							
Blank										
Mercury	ND	0.00050	mg/L							
LCS										
Mercury	0.00601	0.00050	mg/L	0.006000		100	80-120			
LCS Dup										
Mercury	0.00612	0.00050	mg/L	0.006000		102	80-120	2	20	
Batch CD51109 - 3005A_TCLP										
Blank										
Arsenic	ND	0.050	mg/L							
Lead	ND	0.050	mg/L							
LCS										
Arsenic	0.484	0.050	mg/L	0.5000		97	80-120			
Lead	0.465	0.050	mg/L	0.5000		93	80-120			
LCS Dup										
Arsenic	0.560	0.050	mg/L	0.5000		112	80-120	15	20	
Lead	0.531	0.050	mg/L	0.5000		106	80-120	13	20	

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase ESS Laboratory Work Order: 1504045

Notes and Definitions

Z17	Temperature is within 23 +/-2 ºC.
U	Analyte included in the analysis, but not detected
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	Detection Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report
[2C]	Result was taken from the second column. Dual column analysis.

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett Sediment Phase

ESS Laboratory Work Order: 1504045

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Department of Defense (DoD) Environmental Laboratory Accreditation Program (ELAP)
A2LA Accredited: Testing Cert# 2864.01
http://www.a2la.org/scopepdf/2864-01.pdf

Rhode Island Potable and Non Potable Water: LAI00179
http://www.health.ri.gov/find/labs/analytical/ESS.pdf

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750
http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI0002
http://www.maine.gov/dhhs/mecdc/environmental-health/water/dwp-services/labcert/documents/AllLabs.xls

Massachusetts Potable and Non Potable Water: M-RI002
http://public.dep.state.ma.us/Labcert/Labcert.aspx

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424
http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313
http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006
http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

United States Department of Agriculture Soil Permit: P330-12-00139

Pennsylvania: 68-01752
http://www.depweb.state.pa.us/portal/server.pt/community/labs/13780/laboratory_accreditation_program/590095

CHEMISTRY

A2LA Accredited: Testing Cert # 2864.01
Lead in Paint, Phthalates, Lead in Children's Metals Products (Including Jewelry)
http://www.A2LA.org/dirsearchnew/newsearch.cfm

CPSC ID# 1141
Lead Paint, Lead in Children's Metals Jewelry
http://www.cpsc.gov/cgi-bin/labapplist.aspx

Sample and Cooler Receipt Checklist

Client: GZA GeoEnvironmental, Inc.
Client Project ID: _____
Shipped/Delivered Via: ESS Courier

ESS Project ID: 15040045
Date Project Due: 4/9/15
Days For Project: 5 Day

Items to be checked upon receipt:

1. Air Bill Manifest Present?	* No	10. Are the samples properly preserved?	Yes
Air No.:		11. Proper sample containers used?	Yes
2. Were Custody Seals Present?	No	12. Any air bubbles in the VOA vials?	N/A
3. Were Custody Seals Intact?	N/A	13. Holding times exceeded?	No
4. Is Radiation count < 100 CPM?	Yes	14. Sufficient sample volumes?	Yes
5. Is a cooler present?	Yes	15. Any Subcontracting needed?	No
Cooler Temp: **3.6**		16. Are ESS labels on correct containers?	Yes|No
Iced With: **Ice**		17. Were samples received intact?	Yes|No
6. Was COC included with samples?	Yes	ESS Sample IDs: _____	
7. Was COC signed and dated by client?	Yes	Sub Lab: _____	
8. Does the COC match the sample	Yes	Analysis: _____	
9. Is COC complete and correct?	Yes	TAT: _____	

18. Was there need to call project manager to discuss status? If yes, please explain.
Adding -08 to -10 per EO 4/9/15

Who was called?: _____ By whom? _____

Sample Number	Properly Preserved	Container Type	# of Containers	Preservative
1	Yes	8 oz Soil Jar	2	NP
2	Yes	8 oz Soil Jar	2	NP
3	Yes	8 oz Soil Jar	2	NP
4	Yes	2 oz Soil Jar	1	NP
4	Yes	8 oz Soil Jar	2	NP
5	Yes	8 oz Soil Jar	2	NP
6	Yes	2 oz Soil Jar	1	NP
6	Yes	8 oz Soil Jar	2	NP
7	Yes	8 oz Soil Jar	2	NP
8	Yes	8 oz Soil Jar	1	NP
9	Yes	8 oz Soil Jar	1	NP
10	Yes	~~4oz~~ 8 oz Soil Jar	1	NP

Completed By: _____ Date/Time: 4/9/15 1659
Reviewed By: _____ Date/Time: 4/9/15 17:00

Sample and Cooler Receipt Checklist

Client: GZA GeoEnvironmental, Inc.
Client Project ID: _____
Shipped/Delivered Via: ESS Courier

ESS Project ID: 15040045
Date Project Due: 4/9/15
Days For Project: 5 Day

Items to be checked upon receipt:

1. Air Bill Manifest Present?	* No	10. Are the samples properly preserved?	Yes
Air No.:		11. Proper sample containers used?	Yes
2. Were Custody Seals Present?	No	12. Any air bubbles in the VOA vials?	N/A
3. Were Custody Seals Intact?	N/A	13. Holding times exceeded?	No
4. Is Radiation count < 100 CPM?	Yes	14. Sufficient sample volumes?	Yes
5. Is a cooler present?	Yes	15. Any Subcontracting needed?	No
Cooler Temp: **3.6**		16. Are ESS labels on correct containers?	**Yes|No**
Iced With: **Ice**		17. Were samples received intact?	**(Yes)|No**
6. Was COC included with samples?	Yes	ESS Sample IDs:	
7. Was COC signed and dated by client?	Yes	Sub Lab:	
8. Does the COC match the sample	Yes	Analysis:	
9. Is COC complete and correct?	Yes	TAT:	

18. Was there need to call project manager to discuss status? If yes, please explain.

re/log per Emma on 4/2/15

Who was called?:_____ By whom? _____

Sample Number	Properly Preserved	Container Type	# of Containers	Preservative
1	Yes	8 oz Soil Jar	2	NP
2	Yes	8 oz Soil Jar	2	NP
3	Yes	8 oz Soil Jar	2	NP
4	Yes	2 oz Soil Jar	1	NP
4	Yes	8 oz Soil Jar	2	NP
5	Yes	8 oz Soil Jar	2	NP
6	Yes	2 oz Soil Jar	1	NP
6	Yes	8 oz Soil Jar	2	NP
7	Yes	8 oz Soil Jar	2	NP

Completed By: _____ Date/Time: 4/2/15 1504
Reviewed By: Donna a Rose Date/Time: 4/8/15 1520

1504045

ESS Laboratory

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

ESS LAB PROJECT ID: ~~150358~~ 1504045 4/9/15

Turn Time ___X___ Standard Rush_____ Approved By: _____

State where samples were collected: **MA** RI CT NH NJ NY ME Other_____

Is this project for any of the following: (please circle)
MA-MCP CT-RCP NJ-DKQP RGP DOD Other____

Reporting Limits -

Electonic Deliverable Yes ✓ No____
Format: Excel ✓ Access___ PDF ✓ Other____

GZA Project Manager: David E. Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Ave
Norwood, MA 02062
(781) 278-3700

Project No.: 01.0171521.13 Task 001

Project Name: Wynn - Everett

Contract Pricing ____
Special Pricing WO#: _____

	ESS Lab Sample ID	Date	Collection Time	Grab -G Composite-C	Matrix	Sample Identification	# of Containers	MCP-14 Metals	~~PAHs by SIM~~	TOC	~~SVOCs~~	~~PCBs (Aroclors)~~	~~EPH~~	~~Hexavalent Chromium~~	~~Reactivity (Sulfide and Cyanide)~~	~~VOCs~~	~~% water~~	~~Grain Size Analysis~~	Comment #
23	8	3/30/15	0830	G	S	GZ-221 (4'-6')		X	X										
24	9 35		0830			GZ-221 (0'-3') *		X		X	X	X	X	X	X	X	X	X	(1)
25	10 36		09:05			GZ-222 (0'-0.5')		X	X	X	X	X	X						
26	11					GZ-222 (0.5'-2')		X	X										
27	12					GZ-222 (2'-4')		X	X										
			↓			GZ-222 (4'-6')		HOLD AND FREEZE											
28	13 39		09:18			GZ-223 (0'-0.5')		X	X	X	X	X	X						
						GZ-223 (0.5'-2')		HOLD AND FREEZE											
29	14					GZ-223 (2'-4')		X	X										
30	9 15 38	↓	↓	↓	↓	GZ-223 (0'-3') *		X		X	X	X	X	X	X	X	X	X	(1)

Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-____

Container Type: P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filter

Cooler Present ___X___ Yes ____ No

Seals Intact ____ Yes ____ No NA: X

Cooler Temperature: 3.1°/4.6° ICE nc 3/31/15

Sampled by : Daniel Scanlon (Daniel.Scanlon@gza.com)

Comments: (1) TCLP 20X Rule Applies ONLY if note in comments column.
* Relog for TCLP metals.

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	3/30/15 @ 1400	Bill Buscan 3/31/15 0700	Bill Buscan 3/31/15 0830		3/31/15 1227

Page 30 of 37

1504045

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Tel. (401) 461-7181 Fax (401) 461-4486
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CHAIN OF CUSTODY

ESS LAB PROJECT ID ~~150354~~ 1504045

Turn Time ___X___ Standard Rush_____ Approved By: _____

Reporting Limits -

State where samples were collected: **MA** RI CT NH NJ NY ME Other_____

Is this project for any of the following: (please circle)
MA-MCP CT-RCP NJ-DKQP RGP DOD Other____

Electonic Deliverable Yes ✓ No___
Format: Excel ✓ Access___ PDF ✓ Other_____

GZA Project Manager: David E. Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Ave
Norwood, MA 02062
(781) 278-3700

Project No.: 01.0171521.13 Task 001
Project Name: Wynn - Everett
Contract Pricing _____
Special Pricing WO#: _____

ESS Lab Sample ID	Date	Collection Time	Grab -G Composite-C	Matrix	Sample Identification	# of Containers	Analysis: MCP-14 Metals	PAHs by SIM	TOC	SVOCs	PCBs (Aroclors)	EPH	Hexavalent Chromium	Reactivity (Sulfide and Cyanide)	VOCs	% water	Grain Size Analysis	Comment #
10 ~~7~~ 7	3-27-16	09:24	G	S	GZ-201 (0'-3') ✱		X		X	X	X	X	X	X	X	X	X	(1)
8					LC-106 (0'-0.5')		X	X	X	X	X	X						
9					LC-106 (0.5'-2')		X	X	X	X	X	X						
					LC-106 (2'-4')		HOLD	AND	FREEZE									
10					LC-106 (4'-6')		X	X										
		↓			LC-106 (6'-7')		HOLD	AND	FREEZE									
11		10:27			LC-110 (0'-0.5')		X	X	X	X	X	X						
					LC-110 (0.5'-2')		HOLD	AND	FREEZE									
12					LC-110 (2'-4')		X	X										
	↓	↓	↓	↓	LC-110 (4'-6')		HOLD	AND	FREEZE									

Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-_____

Container Type: P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filter

Cooler Present ✓ Yes ____No

Seals Intact ____Yes ____No NA: ✓

Cooler Temperature: 3.5 + 2.8 in ice

Sampled by : Daniel Scanlon (Daniel.Scanlon@gza.com)

Comments: (1) TCLP 20X Rule Applies ONLY if noted in comments column
* Relog for TCLP Lead eD 4/9/15

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
[signature]	3/27/15 @ 1430	[signature] 3/27/15 1447	[signature]	3/27/15 1643	[signature] 3/20/15 1816

Page 2 of 3

Re/log TCLP 4/1/15 OUT

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CHAIN OF CUSTODY

ESS LAB PROJECT ID 1503415 — 10 4/2/15

Turn Time ___X___Standard Rush_____ Approved By: _____

Reporting Limits -

State where samples were collected: MA RI CT NH NJ NY ME Other_____

Is this project for any of the following: (please circle)
MA-MCP CT-RCP NJ-DKQP RGP DOD Other____

Electonic Deliverable Yes ✓ No____
Format: Excel ✓ Access___ PDF___ Other____

GZA Project Manager: David E. Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Ave
Norwood, MA 02062
(781) 278-3700

Project No.: 01.0171521.13 Task 001
Project Name: Wynn - Everett
Contract Pricing ____
Special Pricing WO#: _____

ESS Lab Sample ID	Date	Collection Time	Grab -G Composite-C	Matrix	Sample Identification	# of Containers	MCP-14 Metals	PAHs by SIM	TOC	SVOCs	PCBs (Aroclors)	EPH	Hexavalent Chromium	Reactivity (Sulfide and Cyanide)	VOCs	% water	Grain Size Analysis	Comment #
1 17	3-24-15	1130	G	S	GZ-202 (0'-0.5')		X	X	X	X	X	X						
2 18		1130	G	S	GZ-202 (2'-4')		X	X										
3 19		1230	G	S	GZ-203 (0'-0.5')		X	X	X	X	X	X						
4 20		1230	G	S	GZ-203 (4'-6')		X	X										
5 ~~21~~		1230	G	S	GZ-203 (0'-3')		X	X	X	X	X	X	X	X	X	X	X	(1)
6 22		1250	G	S	GZ-204 (0'-0.5')		X	X	X	X	X	X						
7 23		1250	G	S	GZ-204 (2'-4')		X	X	X	X	X	X						
8 24		1250	G	S	GZ-204 (6'-8')		X	X										
9 25		1420	G	S	GZ-42 (0'-0.5')		X	X	X	X	X	X						
10 26	✓	1420	G	S	GZ-42 (0.5'-2')		X	X										

Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-____
Container Type: P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA
Matrix: S-Soil SD-Solid D-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filter

Cooler Present ✓ Yes ____No
Seals Intact ____ Yes ____No NA: 0845
Cooler Temperature: 2-6°C+3.6°C BB 3/25/15 0630

Sampled by : Daniel Scanlon (Daniel.Scanlon@gza.com)
Comments: (1) TCLP 20X Rule Applies

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
[signature]	3-24-15 @ 18:20	[signature] 3/25/15	[signature] 3/25/15 0845		[signature] 3/25/15 1207

Page 1 of 2

Page 32 of 37

Relog 4/1/15 CMT

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CHAIN OF CUSTODY

ESS LAB PROJECT ID 1503475 4/2/15

Turn Time ___X___ Standard Rush_____ Approved By: _____

Reporting Limits -

State where samples were collected: MA RI CT NH NJ NY ME Other_____

Is this project for any of the following: (please circle)
MA-MCP CT-RCP NJ-DKQP RGP DOD Other____

Electonic Deliverable Yes ✓ No____
Format: Excel ✓ Access___ PDF___ Other_____

GZA Project Manager: David E. Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Ave
Norwood, MA 02062
(781) 278-3700

Project No.: 01.0171521.13 Task 001
Project Name: Wynn - Everett
Contract Pricing ____
Special Pricing WO#: _____

ESS Lab Sample ID	Date	Collection Time	Grab -G Composite-C	Matrix	Sample Identification	# of Containers	MCP-14 Metals	PAHs by SIM	TOC	SVOCs	PCBs (Aroclors)	EPH	Hexavalent Chromium	Reactivity (Sulfide and Cyanide)	VOCs	% water	Grain Size Analysis	Comment #
~~11 27~~	~~3-24-15~~	15:15	G	S	GZ-216 (0'-0.5')		X	X	X	X	X	X						
~~12 28~~		15:15	G	S	GZ-216 (4'-6')		X	X										
~~13 29~~		15:15	G	S	GZ-216 (2'-4')		X	X	X	X	X	X						
~~14 30~~		16:10	G	S	GZ-217 (0'-0.5')		X	X	X	X	X	X						
15 ~~31~~		16:10	G	S	GZ-217 (0'-3')		X	X	X	X	X	X	X	X	X	X	X	(1)
~~16 32~~	✓	16:00	G	S	GZ-217 (6'-8')		X	X										

Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-_____

Container Type: P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filter

Cooler Present _____Yes _____No

Seals Intact 2 Coolers Yes ____No NA: ~~0845~~

Cooler Temperature: 2.8 & 3.6°C 3B 3/25 15

Sampled by : Daniel Scanlon (Daniel.Scanlon@gza.com)

Comments: (1) TCLP 20X Rule Applies

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
[signature]	3-24-15	[signature] 3/25/15	[signature] 3/25/15 0845		[signature] 3/25/15 1207

C1820

Page 2 of 2

TCLP Pb ATTACHED 4/2/15

2

Kelog 4/1/15 ALT

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CHAIN OF CUSTODY

ESS LAB PROJECT ID 1503447 4/2/15

Turn Time ___X___ Standard Rush_____ Approved By: _____

Reporting Limits -

State where samples were collected: MA RI CT NH NJ NY ME Other_____

Is this project for any of the following: (please circle)
MA-MCP CT-RCP NJ-DKQP RGP DOD Other___

Electonic Deliverable Yes___ No___
Format: Excel___ Access___ PDF___ Other_____

GZA Project Manager: David E. Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Ave
Norwood, MA 02062
(781) 278-3700

Project No.: 01.0171521.13 Task 001
Project Name: Wynn - Everett
Contract Pricing ____
Special Pricing WO#: _____

ESS Lab Sample ID	Date	Collection Time	Grab -G Composite-C	Matrix	Sample Identification	# of Containers	MCP-14 Metals	PAHs by SIM	TOC	SVOCs	PCBs (Aroclors)	EPH	Hexavalent Chromium	Reactivity (Sulfide and Cyanide)	VOCs	% water	Grain Size Analysis	Comment #
6	3-25-15	1045	G	S	GZ-207 (0'-0.5')		X	X	X	X	X	X						
					GZ-207 (0.5'-2')		HOLD AND FREEZE											
					GZ-207 (2'-4')		HOLD AND FREEZE											
7					GZ-207 (4'-6')		X	X										
8					GZ-207 (6'-7.5')		X	X										
9		1046			GZ-207 (0'-3')		X	X	X	X	X	X	X	X	X	X	X	(1)
10		1110			GZ-206 (0-0.5')		X	X	X	X	X	X						
					GZ-206 (0.5'-2')		HOLD AND FREEZE											
					GZ-206 (2'-4')		HOLD AND FREEZE											
11					GZ-206 (4'-6')		X	X	X	X	X	X						

Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-_____

Container Type: P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filter

Cooler Present ___X___ Yes _____ No
Seals Intact _____ Yes _____ No NA: ___X___
Cooler Temperature: 3.5°/4.2° (ice) NJ 3/26/15

Sampled by : Daniel Scanlon (Daniel.Scanlon@gza.com)

Comments: (1) TCLP 20X Rule Applies

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	3-25-15 @ 1800	0845 Bill Bloom 3/26/15	0845 Bill Bloom 3/26/15		1011 3/26/15

TCLP Pb

Page 2 of 5

Relog 4/1/15 CAT

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CHAIN OF CUSTODY

ESS LAB PROJECT ID: ~~1503448~~ W 4/2/15

Turn Time ___X___ Standard Rush_____ Approved By: _____

Reporting Limits -

State where samples were collected: MA RI CT NH NJ NY ME Other_____

Is this project for any of the following: (please circle)
MA-MCP CT-RCP NJ-DKQP RGP DOD Other____

Electonic Deliverable Yes____ No____
Format: Excel___ Access___ PDF___ Other_____

GZA Project Manager: David E. Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Ave
Norwood, MA 02062
(781) 278-3700

Project No.: 01.0171521.13 Task 001
Project Name: Wynn - Everett
Contract Pricing ____
Special Pricing WO#: _____

ESS Lab Sample ID	Date	Collection Time	Grab -G Composite-C	Matrix	Sample Identification	# of Containers	MCP-14 Metals	PAHs by SIM	TOC	SVOCs	PCBs (Aroclors)	EPH	Hexavalent Chromium	Reactivity (Sulfide and Cyanide)	VOCs	% water	Grain Size Analysis	Comment #
	3-25-15	1110	G	S	62-206 (6'-8')		HOLD AND FREEZE											
29	(1)	1110			62-206 (0'-3')		X		X	X	X	X	X	X	X	X	X	(1)
30		1146			62-205 (0'-0.5')		X	X	X	X	X	X						
					62-205 (0.5'-2')		HOLD AND FREEZE											
					62-205 (2'-4')		HOLD AND FREEZE											
					62-205 (4'-6')		X	X										
					62-205 (6'-8')		X	X										
31	(5)	↓			62-205 (0'-3')		X		X	X	X	X	X	X	X	X	X	(1)
32		1352			62-213 (0'-0.5')		X	X	X	X	X	X						
	↓	1352	↓	↓	62-213 (0.5'-2')		HOLD AND FREEZE											

Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-_____

Container Type: P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filter

Cooler Present ___X___ Yes _____ No

Seals Intact _____ Yes _____ No NA: X

Cooler Temperature: 3.8°C/4.2°C 3/26/15

Sampled by : Daniel Scanlon (Daniel.Scanlon@gza.com)

Comments: (1) TCLP 20X Rule Applies

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Daniel Scanlon	3-25-15	Bill Bracon 3/26/15 0830	Bill Bracon 3/26/15 0845		3/26/15 1011

TCLP Pb

P1800

Page 3 of 5

Relog TCLP 4/1/15 CMT

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CHAIN OF CUSTODY

ESS LAB PROJECT ID 1503448 4/2/15

Turn Time ___X___ Standard Rush_____ Approved By: _____

Reporting Limits -

State where samples were collected: MA RI CT NH NJ NY ME Other_____

Is this project for any of the following: (please circle)
MA-MCP CT-RCP NJ-DKQP RGP DOD Other____

Electonic Deliverable Yes____ No____
Format: Excel___ Access___ PDF___ Other_____

GZA Project Manager: David E. Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Ave
Norwood, MA 02062
(781) 278-3700

Project No.: 01.0171521.13 Task 001

Project Name: Wynn - Everett

Contract Pricing ____
Special Pricing WO#: _____

ESS Lab Sample ID	Date	Collection Time	Grab -G Composite-C	Matrix	Sample Identification	# of Containers	MCP-14 Metals	PAHs by SIM	TOC	SVOCs	PCBs (Aroclors)	EPH	Hexavalent Chromium	Reactivity (Sulfide and Cyanide)	VOCs	% water	Grain Size Analysis	Comment #
	3-25-15	1352	G	S	GZ-213 (2'-4')		HOLD AND FREEZE											
7 21					GZ-215 (4'-6')		X	X										
33 8 22		↓			GZ-213 (0'-3')		X	X	X	X	X	X	X	X	X	X		(1) X
34 9 23		1425			GZ-218 (0'-0.5')		X	X	X	X	X	X						
35 10 24					GZ-218 (0.5'-2')		X	X	X	X	X	X						
					GZ-218 (2'-4')		HOLD AND FREEZE											
11 25					GZ-218 (4'-6')		X	X										
36 12 26		1506			GZ-219 (0'-0.5')		X	X	X	X	X	X						
					GZ-219 (0.5'-2')		HOLD AND FREEZE											
					GZ-219 (2'-4')		HOLD AND FREEZE											

TCLP Pb

Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-_____

Container Type: P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filter

Cooler Present X Yes ____No

Seals Intact ____Yes ____No NA: X

Cooler Temperature: 3.8°/4.2°IR 3/26/15

Sampled by : Daniel Scanlon (Daniel.Scanlon@gza.com)

Comments: (1) TCLP 20X Rule Applies

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	3/25/15 @1800		0845		3/26/15 1011

Page 4 of 5

6

Page 36 of 37

Reb I TCLP 4/1/15 OK?

1504045

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CHAIN OF CUSTODY

ESS LAB PROJECT ID 1503448 4/2/15

Turn Time __X__ Standard Rush_____ Approved By: _____

Reporting Limits -

State where samples were collected: MA RI CT NH NJ NY ME Other_____

Is this project for any of the following: (please circle)
MA-MCP CT-RCP NJ-DKQP RGP DOD Other____

Electonic Deliverable Yes____ No____
Format: Excel___ Access___ PDF___ Other_____

GZA Project Manager: David E. Leone
GZA GeoEnvironmental, Inc.
249 Vanderbilt Ave
Norwood, MA 02062
(781) 278-3700

Project No.: 01.0171521.13 Task 001

Project Name: Wynn - Everett

Contract Pricing ____
Special Pricing WO#: _____

ESS Lab Sample ID	Date	Collection Time	Grab -G Composite-C	Matrix	Sample Identification	# of Containers	Analysis: MCP-14 Metals	PAHs by SIM	TOC	SVOCs	PCBs (Aroclors)	EPH	Hexavalent Chromium	Reactivity (Sulfide and Cyanide)	VOCs	% water	Grain Size Analysis	Comment #
~~13 77~~	~~3/25/15~~	~~1506~~	~~G~~	~~S~~	~~62-219 (4'-6')~~		~~X~~	~~X~~										
	↓	↓	↓	↓	62-219 (6'-8')		HOLD	AND	ARCHIVE									
7 31	14	↓	↓	↓	62-219 (0'-3')		X	X	X	X	X	X	X	X	X	X	X	(1)

TCLP Pb

Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-_____

Container Type: P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filter

Cooler Present __X__ Yes _____No
Seals Intact _____ Yes _____No NA: X
Cooler Temperature: 38°/42°F W 3/26/15

Sampled by : Daniel Scanlon (Daniel.Scanlon@gza.com)

Comments: (1) TCLP 20X Rule Applies

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	3/25/15 @1800	0830 Bill Bussan 3/26/15	0845 Bill Bussan 3/26/15		3/26/15 1011

Page 5 of 5

APPENDIX D

SEDIMENT SIEVE ANALYSES

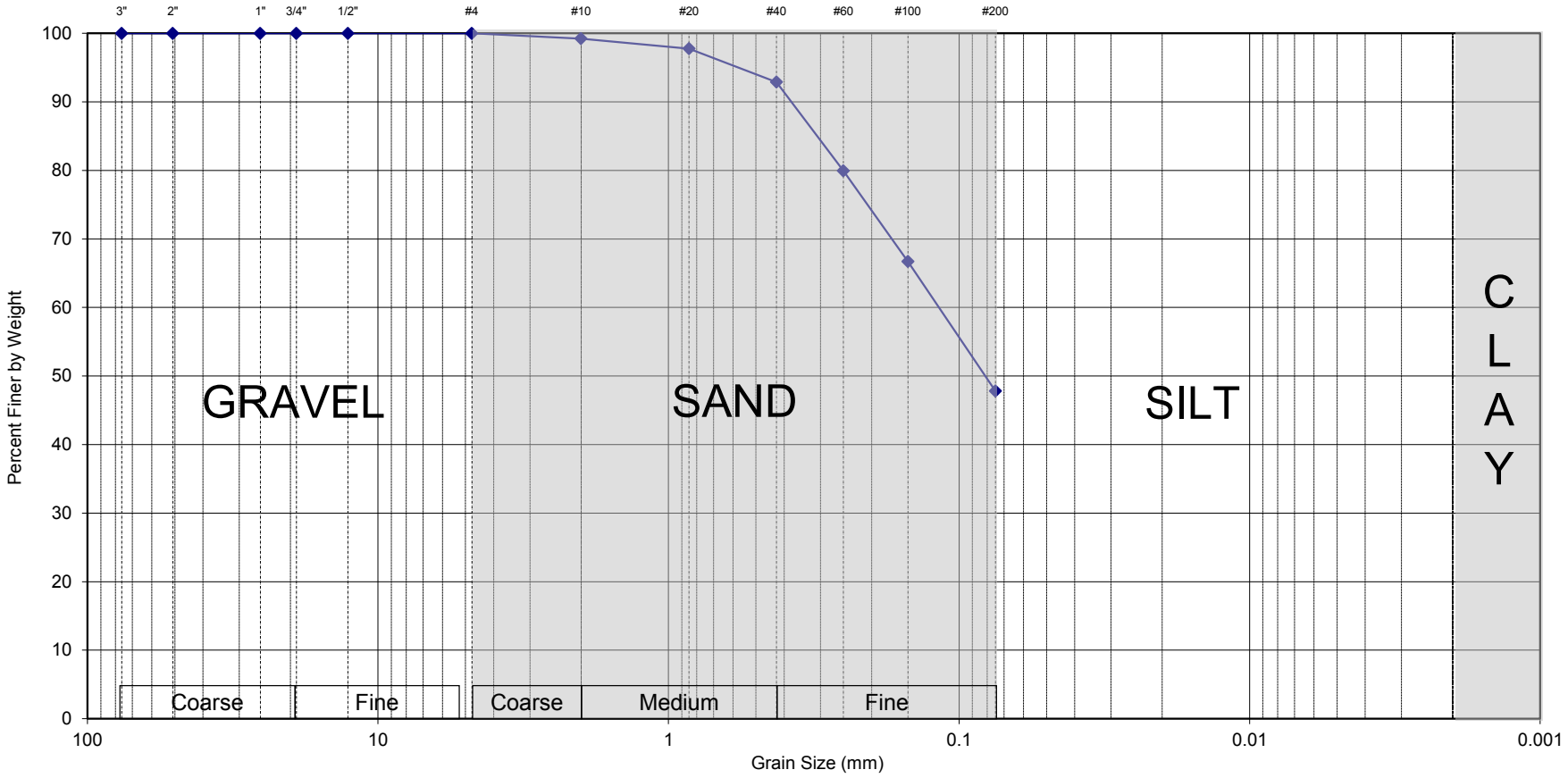
LABORATORY TESTING DATA SHEET

Project Name 1 Horizon Way
Project Location Everett, MA
Project No. 01.0171521.02
Report Date 8/13/2013
Project Engineer D. Leone
Date Reviewed 8/13/2013
Assigned By J. Chrzanowski
Reviewed By

Boring/ Test Pit No.	Depth (ft)	Sample Date	Lab No.	Identification Tests							Laboratory Log and Soil Description
				Water Content %	LL %	PL %	Sieve -200 %	Hyd -2µ %	Gs	ORG %	
GZ-101	0-4	8/2/13	24				47.8				Dark gray f-m SAND and Organic SILT
GZ-102	0-4	8/2/13	25				65.2				Dark gray Organic SILT, some fine Sand
GZ-101	4-8	8/2/13	26				86.9				Dark gray Organic SILT, little fine Sand
GZ-103	0-4	8/2/13	27				58.2				Dark brown Organic SILT and f-m SAND
GZ-103	4-7.5	8/2/13	28				77.6				Gray Organic SILT, some f-m Sand
GZ-104	0-3.5	8/2/13	29				52.3				Gray Organic SILT and f-c SAND, trace Gravel
GZ-104	4-8	8/2/13	30				78.7				Gray Organic SILT, some f-m Sand, trace Gravel
GZ-105	0-6.75	8/2/13	31				69.4				Gray Organic SILT, some f-m Sand
GZ-106	0-4	8/2/13	32				64.8				Gray Organic SILT and f-m SAND
GZ-106	5-8	8/2/13	33				75.5				Gray Organic SILT, some f-m Sand
GZ-108	0-2.5	8/2/13	34				68.9				Black Organic SILT, some f-m Sand
GZ-108	4-8	8/2/13	35				60.5				Gray Organic SILT and f-m SAND
GZ-107	0-4	8/2/13	36				51.8				Gray Organic SILT and f-m SAND
GZ-107	4-8	8/2/13	37				52.6				Gray Organic SILT and f-m SAND
GZ-111	0-4	8/2/13	38				58.1				Gray Organic SILT and f-m SAND
GZ-111	7-8	8/2/13	39				48.1				Gray f-m SAND and Organic SILT

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U.S. STANDARD SIEVE AND HYDROMETER



Gravel	Sand	Fines
0.0%	52.2%	47.8%

Lab #	Exploration	Sample Depth	Sample Date	Description	WC	LL	PL	PI
24	GZ-101	0-4'	8/1/13	Dark gray f-m SAND and Organic SILT				

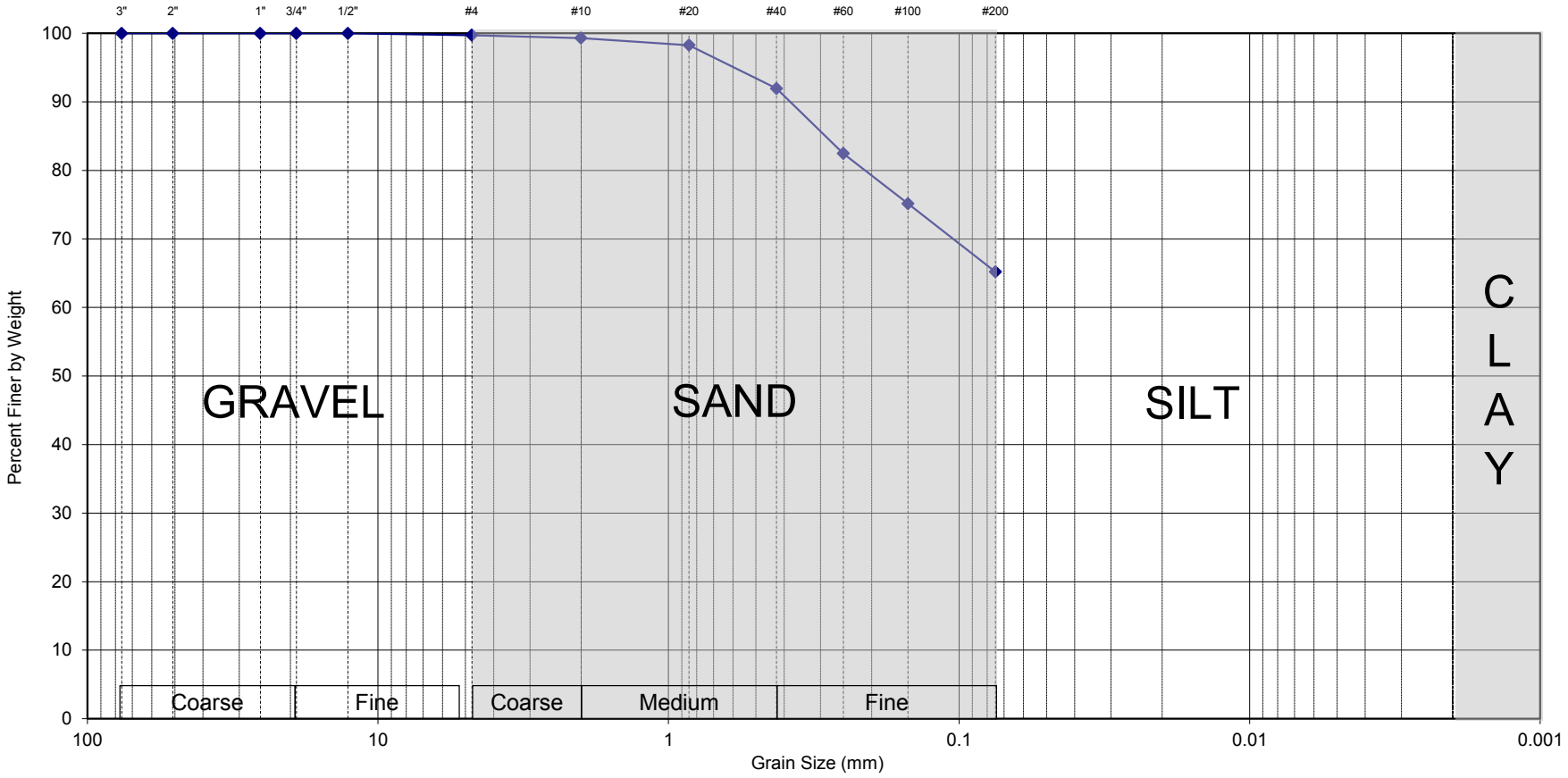
Sieve Size	% Passing
¾"	100.0
½"	100.0
#4	100.0
#10	99.2
#20	97.8
#40	92.9
#60	79.9
#100	66.7
#200	47.8

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CTS-74-13-0003
1 Horizon Way
Everett, MA
GZA File # 01.0171521.02

Tested by: PH/LM Date: 8/12/13
Reviewed by: MBP Date: 8/13/13

U.S. STANDARD SIEVE AND HYDROMETER



Gravel	Sand	Fines
0.3%	34.5%	65.2%

Lab #	Exploration	Sample Depth	Sample Date	Description	WC	LL	PL	PI
25	GZ-102	0-4'	8/1/13	Dark gray Organic SILT, some fine Sand				

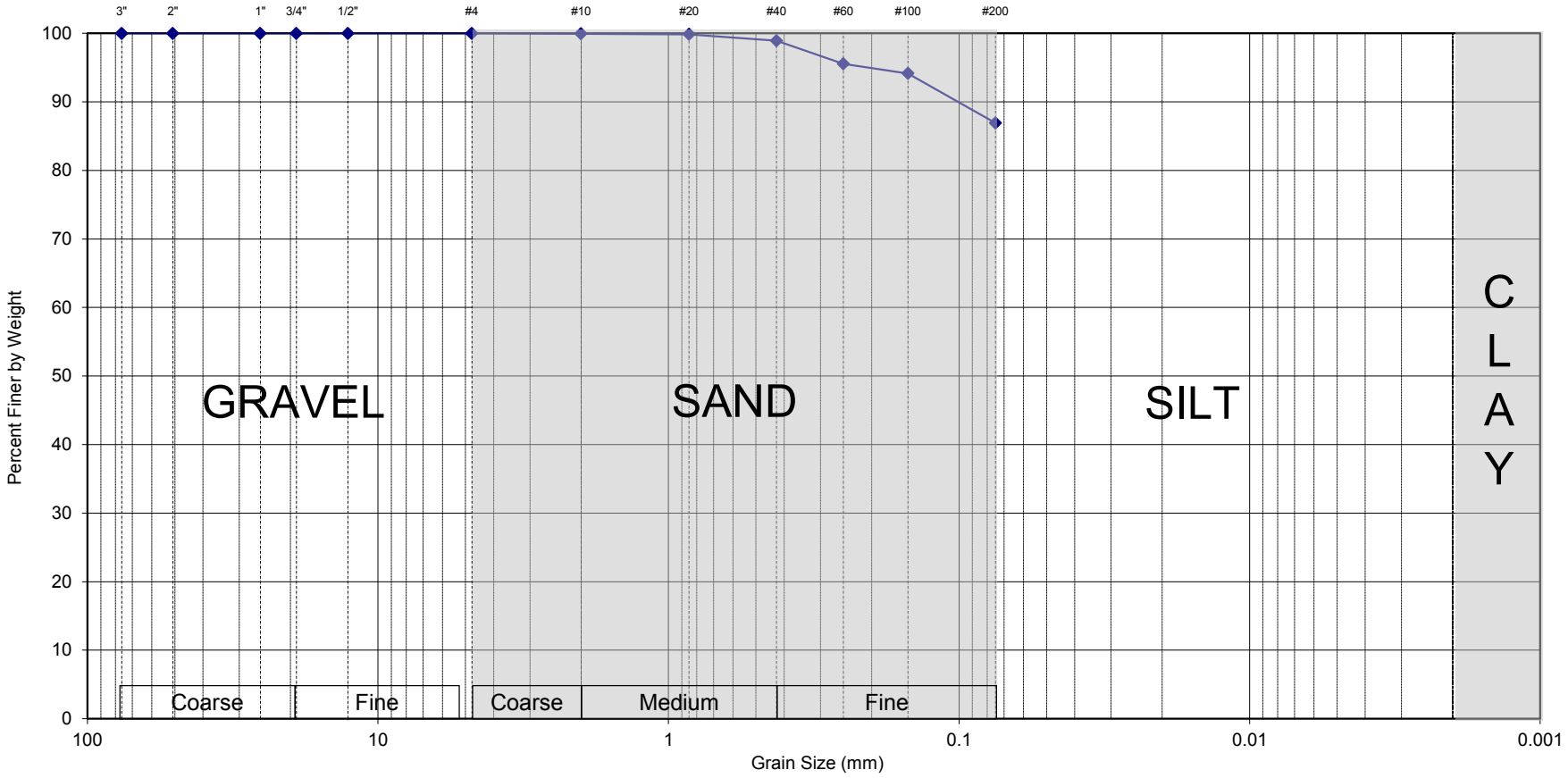
Sieve Size	% Passing
¾"	100.0
½"	100.0
#4	99.7
#10	99.3
#20	98.3
#40	91.9
#60	82.5
#100	75.1
#200	65.2

THIELSCH ENGINEERING
195 Frances Ave., Cranston, RI 02910
401-467-6454

CTS-74-13-0003
1 Horizon Way
Everett, MA
GZA File # 01.0171521.02

Tested by: PH/LM Date: 8/12/13
Reviewed by: MBP Date: 8/13/13

U.S. STANDARD SIEVE AND HYDROMETER



Gravel	Sand	Fines
0.0%	13.1%	86.9%

Lab #	Exploration	Sample Depth	Sample Date	Description	WC	LL	PL	PI
26	GZ-101	4-8'	8/1/13	Dark gray Organic SILT, little fine Sand				

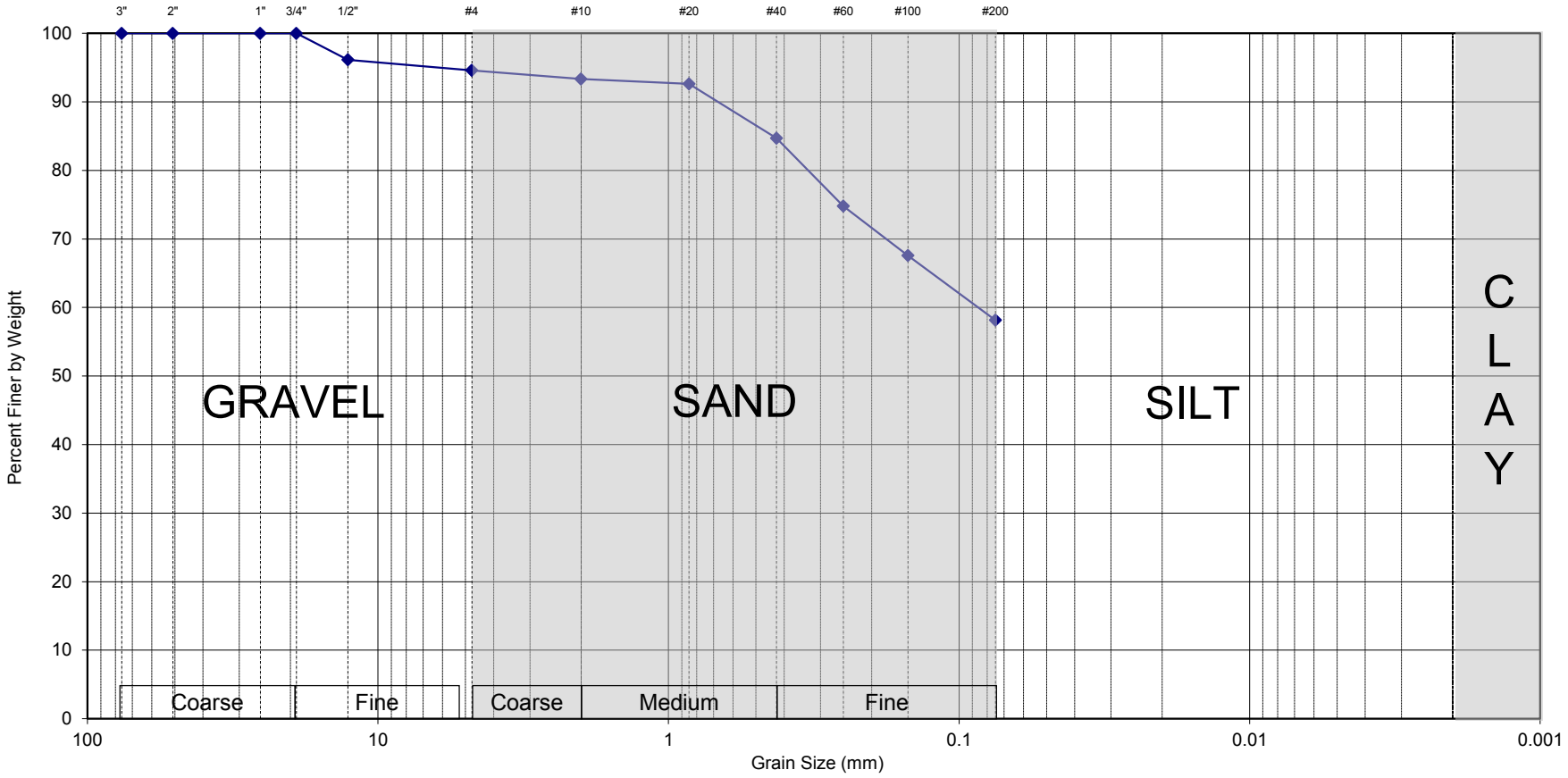
Sieve Size	% Passing
¾"	100.0
½"	100.0
#4	100.0
#10	99.9
#20	99.9
#40	98.9
#60	95.5
#100	94.1
#200	86.9

THIELSCH ENGINEERING
195 Frances Ave., Cranston, RI 02910
401-467-6454

CTS-74-13-0003
1 Horizon Way
Everett, MA
GZA File # 01.0171521.02

Tested by: PH/LM Date: 8/12/13
Reviewed by: MBP Date: 8/13/13

U.S. STANDARD SIEVE AND HYDROMETER



Gravel	Sand	Fines
5.4%	36.5%	58.2%

Lab #	Exploration	Sample Depth	Sample Date	Description	WC	LL	PL	PI
27	GZ-103	0-4'	8/1/13	Dark brown Organic SILT and f-m SAND				

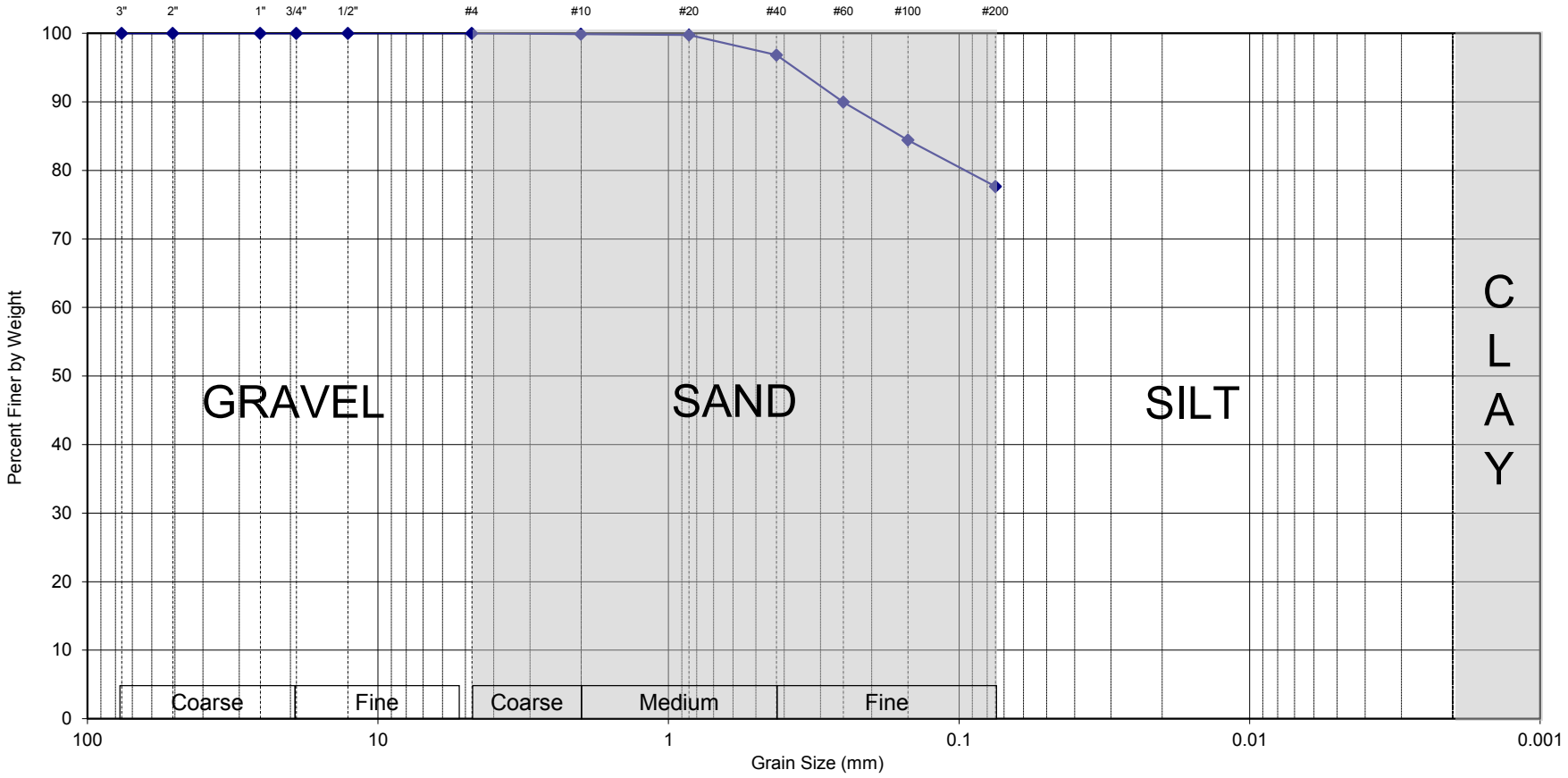
Sieve Size	% Passing
¾"	100.0
½"	96.1
#4	94.6
#10	93.3
#20	92.6
#40	84.7
#60	74.8
#100	67.6
#200	58.2

THIELSCH ENGINEERING
195 Frances Ave., Cranston, RI 02910
401-467-6454

CTS-74-13-0003
1 Horizon Way
Everett, MA
GZA File # 01.0171521.02

Tested by: PH/LM Date: 8/12/13
Reviewed by: MBP Date: 8/13/13

U.S. STANDARD SIEVE AND HYDROMETER



Gravel	Sand	Fines
0.0%	22.4%	77.6%

Lab #	Exploration	Sample Depth	Sample Date	Description	WC	LL	PL	PI
28	GZ-103	4-7.5'	8/1/13	Gray Organic SILT, some f-m Sand				

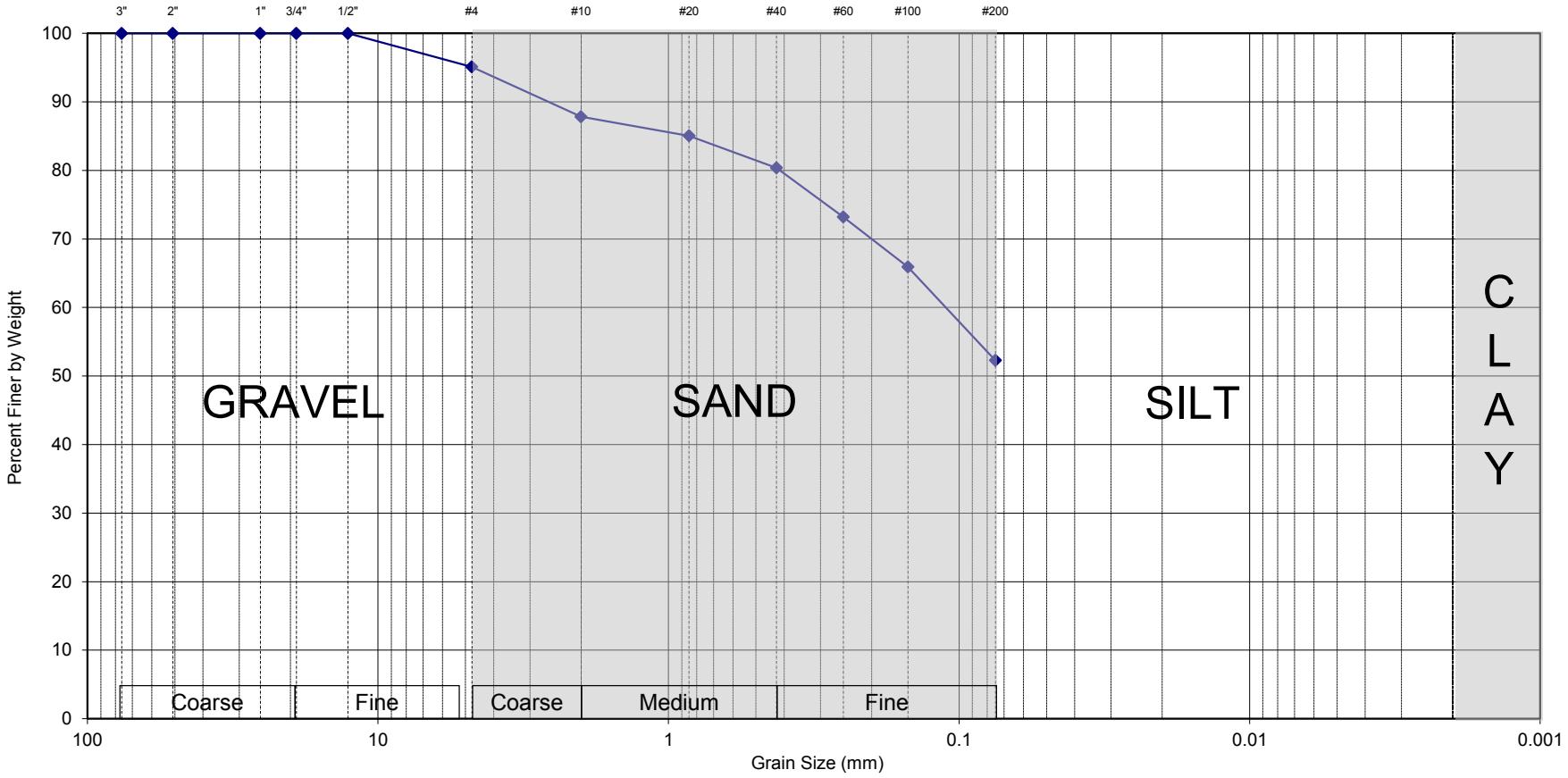
Sieve Size	% Passing
¾"	100.0
½"	100.0
#4	100.0
#10	99.9
#20	99.8
#40	96.8
#60	89.9
#100	84.4
#200	77.6

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195 Frances Ave., Cranston, RI 02910
401-467-6454

CTS-74-13-0003
1 Horizon Way
Everett, MA
GZA File # 01.0171521.02

Tested by: PH/LM Date: 8/12/13
Reviewed by: MBP Date: 8/13/13

U.S. STANDARD SIEVE AND HYDROMETER



Gravel	Sand	Fines
4.9%	42.8%	52.3%

Lab #	Exploration	Sample Depth	Sample Date	Description	WC	LL	PL	PI
29	GZ-104	0-3.5'	8/1/13	Gray Organic SILT and f-c SAND, trace Gravel				

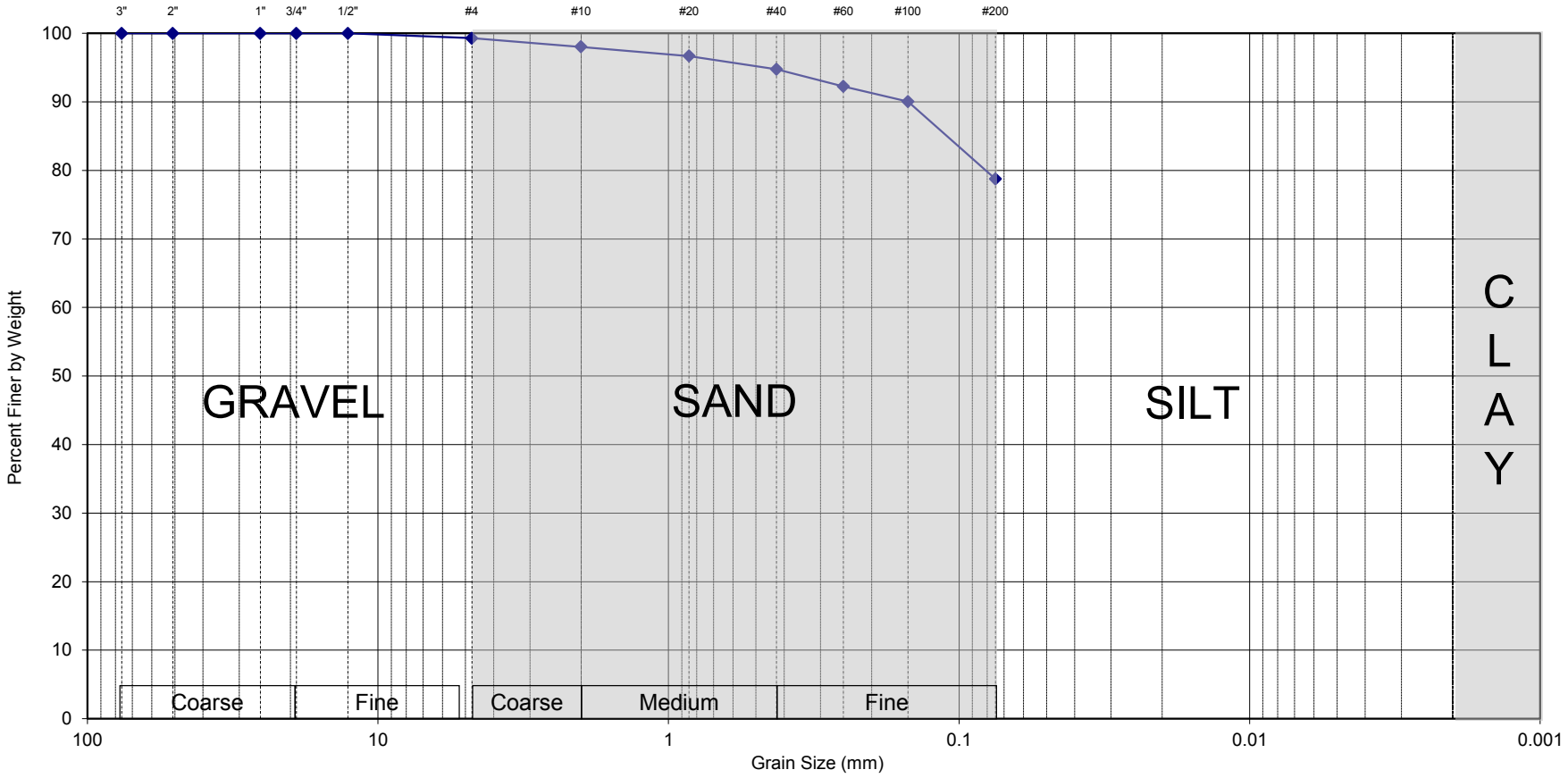
Sieve Size	% Passing
¾"	100.0
½"	100.0
#4	95.1
#10	87.8
#20	85.0
#40	80.4
#60	73.2
#100	65.9
#200	52.3

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195 Frances Ave., Cranston, RI 02910
401-467-6454

CTS-74-13-0003
1 Horizon Way
Everett, MA
GZA File # 01.0171521.02

Tested by: PH/LM Date: 8/12/13
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U.S. STANDARD SIEVE AND HYDROMETER



Gravel	Sand	Fines
0.7%	20.6%	78.7%

Lab #	Exploration	Sample Depth	Sample Date	Description	WC	LL	PL	PI
30	GZ-104	4-8'	8/1/13	Gray Organic SILT, some f-m Sand, trace Gravel				

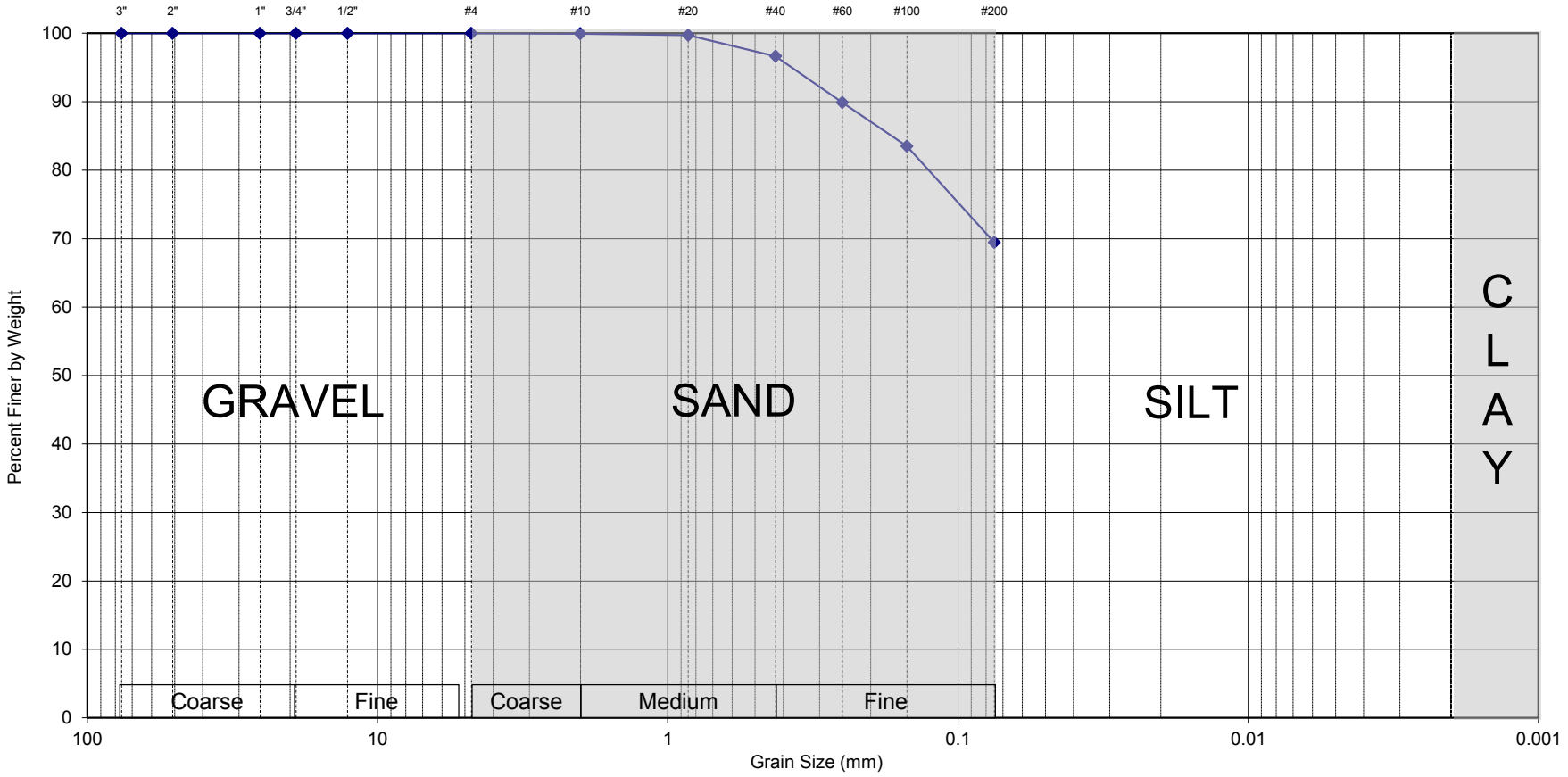
Sieve Size	% Passing
¾"	100.0
½"	100.0
#4	99.3
#10	98.0
#20	96.7
#40	94.8
#60	92.2
#100	90.0
#200	78.7

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401-467-6454

CTS-74-13-0003
1 Horizon Way
Everett, MA
GZA File # 01.0171521.02

Tested by: PH/LM Date: 8/12/13
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U.S. STANDARD SIEVE AND HYDROMETER



Gravel	Sand	Fines
0.0%	30.6%	69.4%

Lab #	Exploration	Sample Depth	Sample Date	Description	WC	LL	PL	PI
31	GZ-105	0-6.75'	8/1/13	Gray Organic SILT, some f-m Sand				

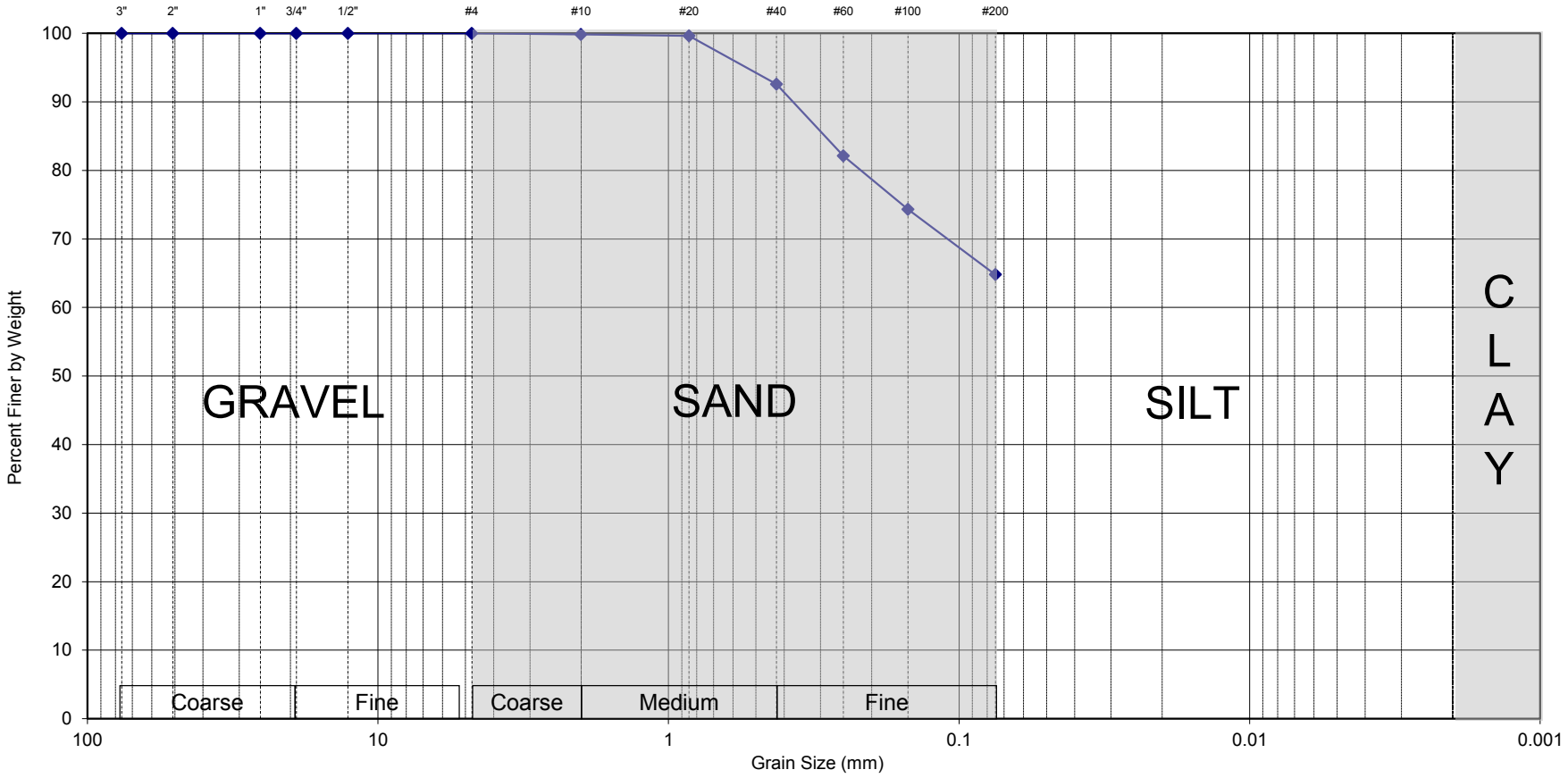
Sieve Size	% Passing
¾"	100.0
½"	100.0
#4	100.0
#10	99.9
#20	99.7
#40	96.6
#60	89.9
#100	83.5
#200	69.4

THIELSCH ENGINEERING
195 Frances Ave., Cranston, RI 02910
401-467-6454

CTS-74-13-0003
1 Horizon Way
Everett, MA
GZA File # 01.0171521.02

Tested by: PH/LM Date: 8/12/13
Reviewed by: MBP Date: 8/13/13

U.S. STANDARD SIEVE AND HYDROMETER



Gravel	Sand	Fines
0.0%	35.2%	64.8%

Lab #	Exploration	Sample Depth	Sample Date	Description	WC	LL	PL	PI
32	GZ-106	0-4'	8/1/13	Gray Organic SILT and f-m SAND				

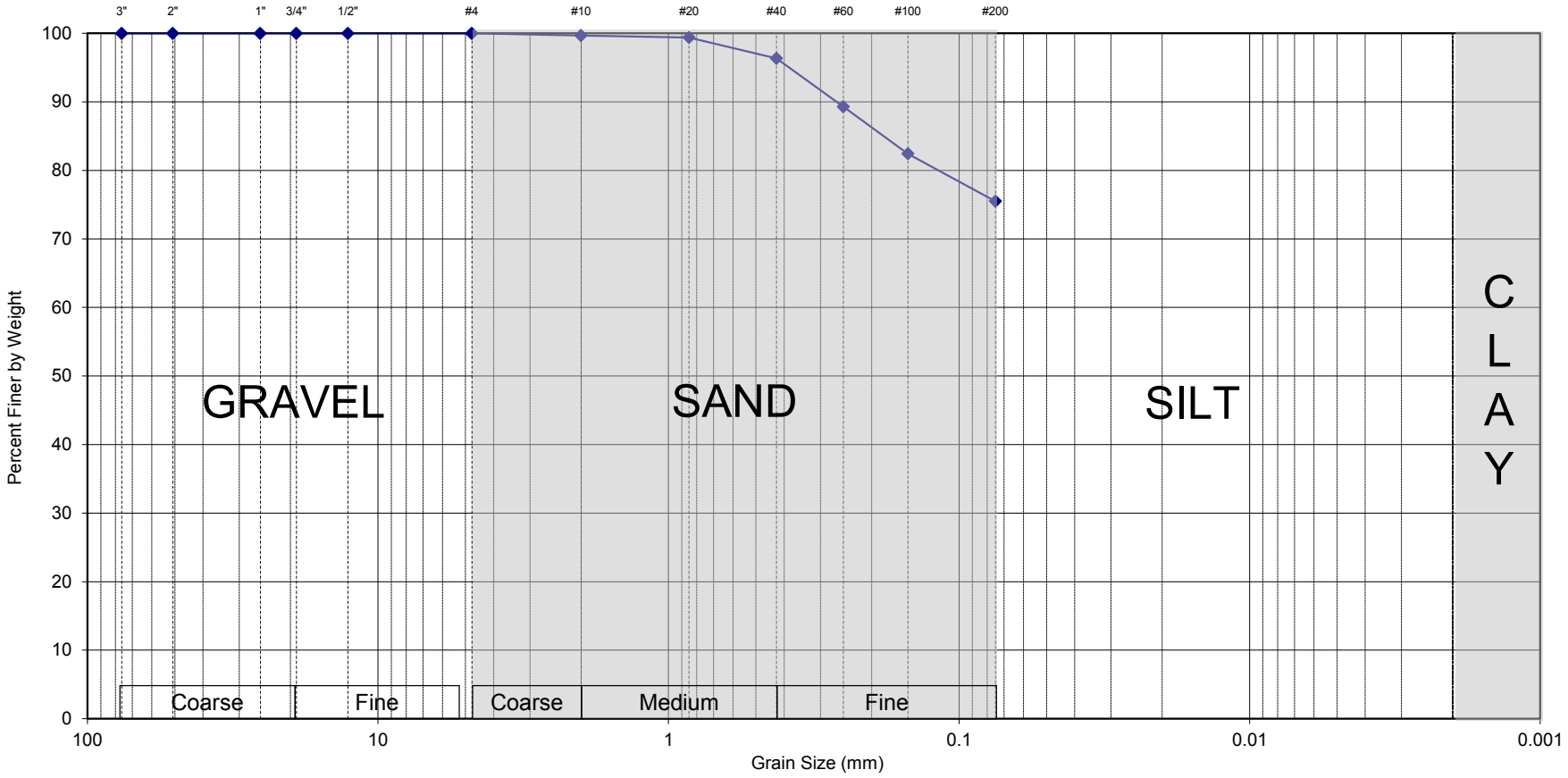
Sieve Size	% Passing
¾"	100.0
½"	100.0
#4	100.0
#10	99.8
#20	99.6
#40	92.6
#60	82.1
#100	74.3
#200	64.8

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401-467-6454

CTS-74-13-0003
1 Horizon Way
Everett, MA
GZA File # 01.0171521.02

Tested by: PH/LM Date: 8/12/13
Reviewed by: MBP Date: 8/13/13

U.S. STANDARD SIEVE AND HYDROMETER



Gravel	Sand	Fines
0.0%	24.5%	75.5%

Lab #	Exploration	Sample Depth	Sample Date	Description	WC	LL	PL	PI
33	GZ-106	5-8'	8/1/13	Gray Organic SILT, some f-m Sand				

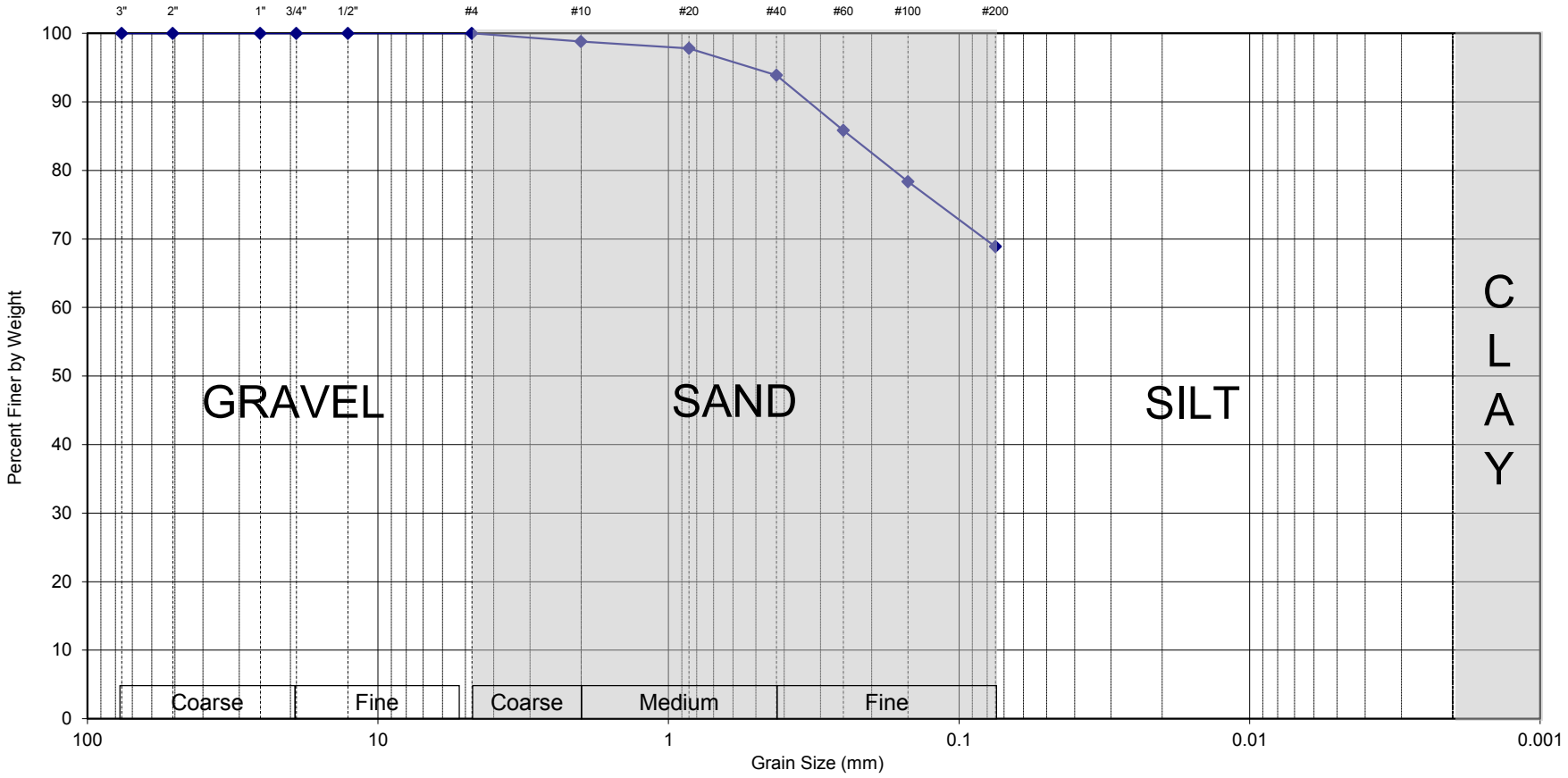
Sieve Size	% Passing
¾"	100.0
½"	100.0
#4	100.0
#10	99.7
#20	99.4
#40	96.3
#60	89.3
#100	82.4
#200	75.5

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401-467-6454

CTS-74-13-0003
1 Horizon Way
Everett, MA
GZA File # 01.0171521.02

Tested by: PH/LM Date: 8/12/13
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U.S. STANDARD SIEVE AND HYDROMETER



Gravel	Sand	Fines
0.0%	31.1%	68.9%

Lab #	Exploration	Sample Depth	Sample Date	Description	WC	LL	PL	PI
34	GZ-108	0-2.5'	8/1/13	Black Organic SILT, some f-m Sand				

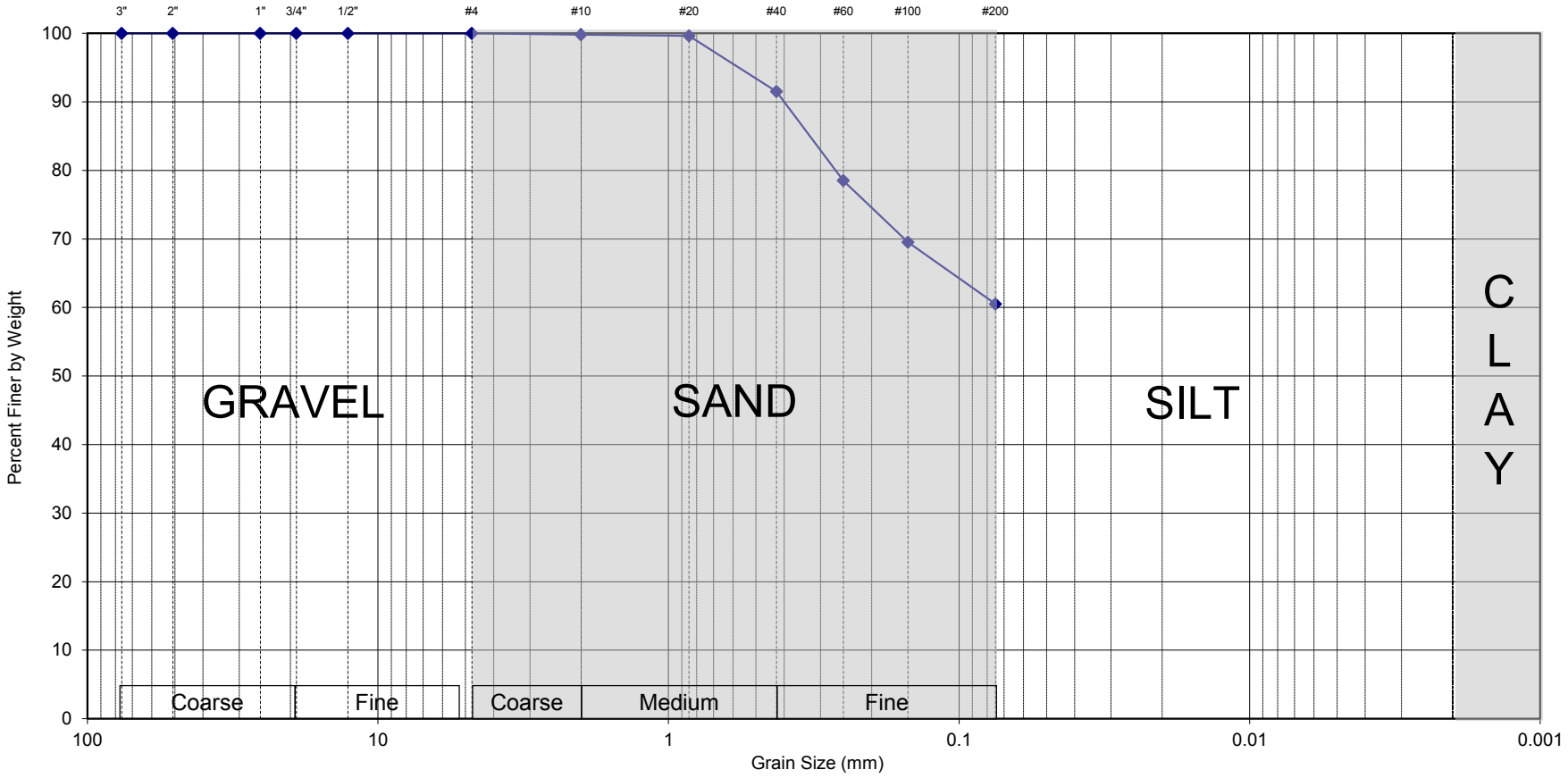
Sieve Size	% Passing
¾"	100.0
½"	100.0
#4	100.0
#10	98.8
#20	97.8
#40	93.9
#60	85.8
#100	78.4
#200	68.9

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195 Frances Ave., Cranston, RI 02910
401-467-6454

CTS-74-13-0003
1 Horizon Way
Everett, MA
GZA File # 01.0171521.02

Tested by: PH/LM Date: 8/12/13
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U.S. STANDARD SIEVE AND HYDROMETER



Gravel	Sand	Fines
0.0%	39.5%	60.5%

Lab #	Exploration	Sample Depth	Sample Date	Description	WC	LL	PL	PI
35	GZ-108	4-8'	8/1/13	Gray Organic SILT and f-m SAND				

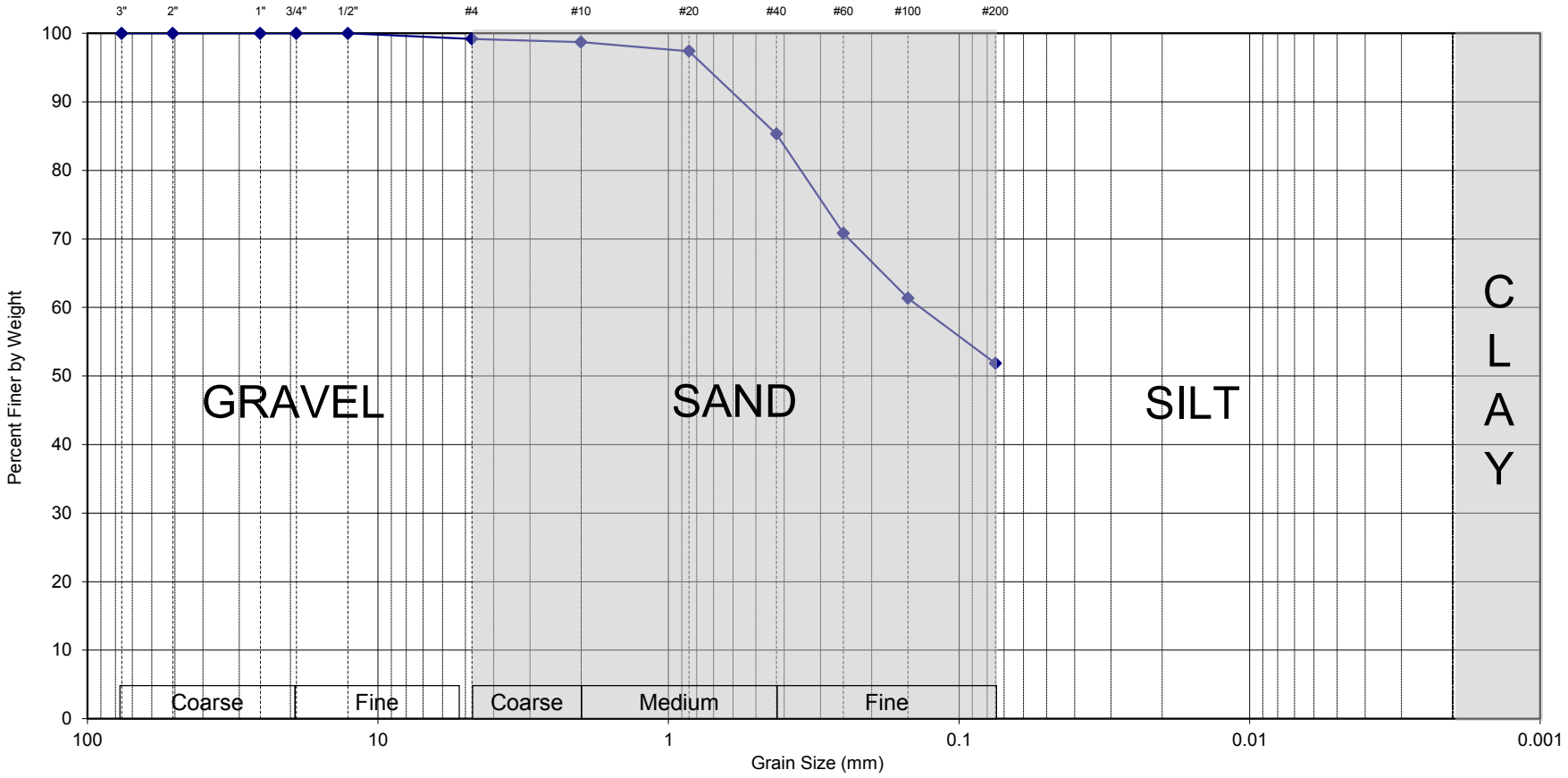
Sieve Size	% Passing
¾"	100.0
½"	100.0
#4	100.0
#10	99.8
#20	99.6
#40	91.5
#60	78.5
#100	69.5
#200	60.5

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195 Frances Ave., Cranston, RI 02910
401-467-6454

CTS-74-13-0003
1 Horizon Way
Everett, MA
GZA File # 01.0171521.02

Tested by: PH/LM Date: 8/12/13
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U.S. STANDARD SIEVE AND HYDROMETER



Gravel	Sand	Fines
0.8%	47.4%	51.8%

Lab #	Exploration	Sample Depth	Sample Date	Description	WC	LL	PL	PI
36	GZ-107	0-4'	8/1/13	Gray Organic SILT and f-m SAND				

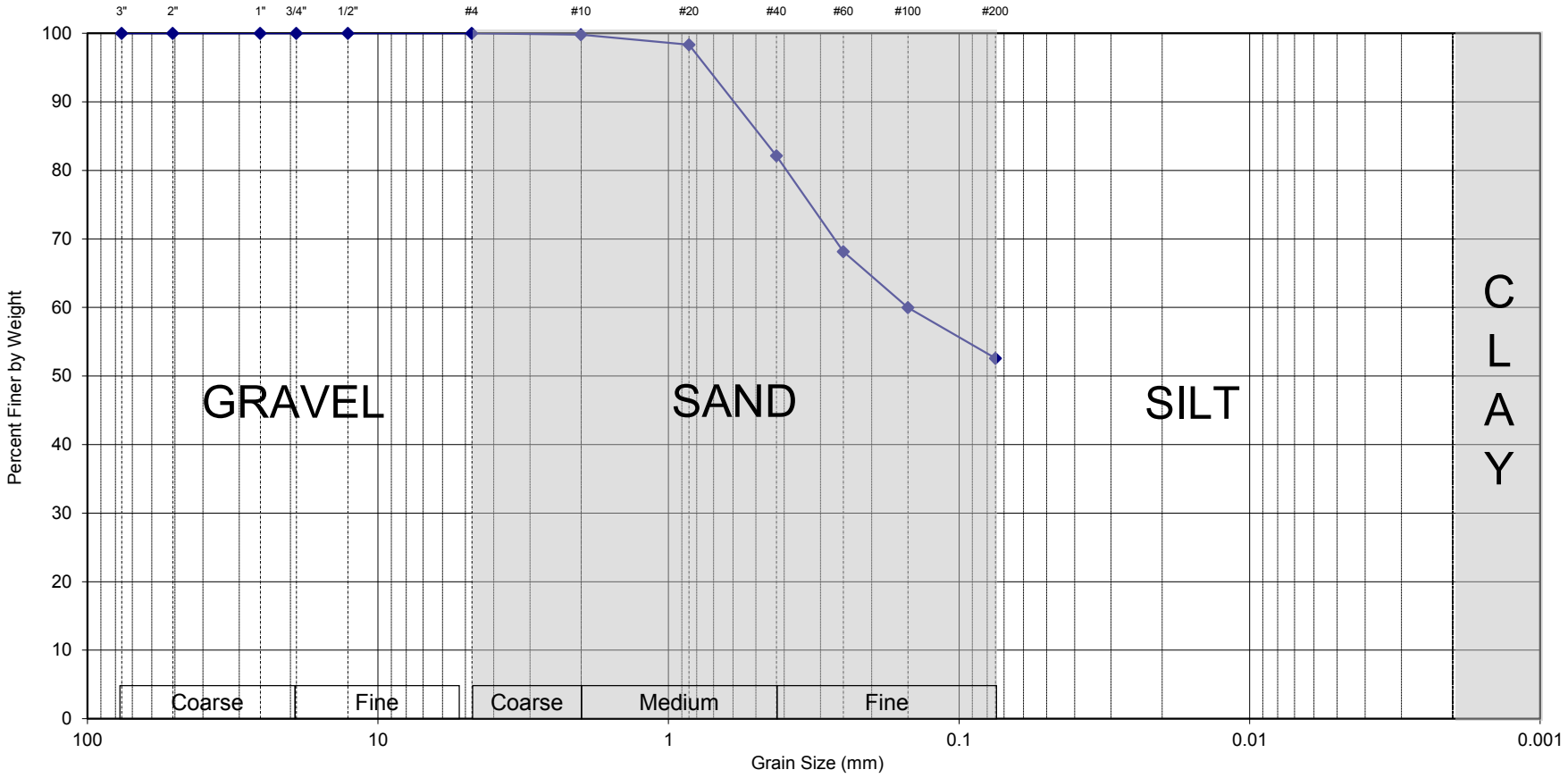
Sieve Size	% Passing
¾"	100.0
½"	100.0
#4	99.2
#10	98.7
#20	97.4
#40	85.3
#60	70.8
#100	61.3
#200	51.8

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401-467-6454

CTS-74-13-0003
1 Horizon Way
Everett, MA
GZA File # 01.0171521.02

Tested by: PH/LM Date: 8/12/13
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U.S. STANDARD SIEVE AND HYDROMETER



Gravel	Sand	Fines
0.0%	47.4%	52.6%

Lab #	Exploration	Sample Depth	Sample Date	Description	WC	LL	PL	PI
37	GZ-107	4-8'	8/1/13	Gray Organic SILT and f-m SAND				

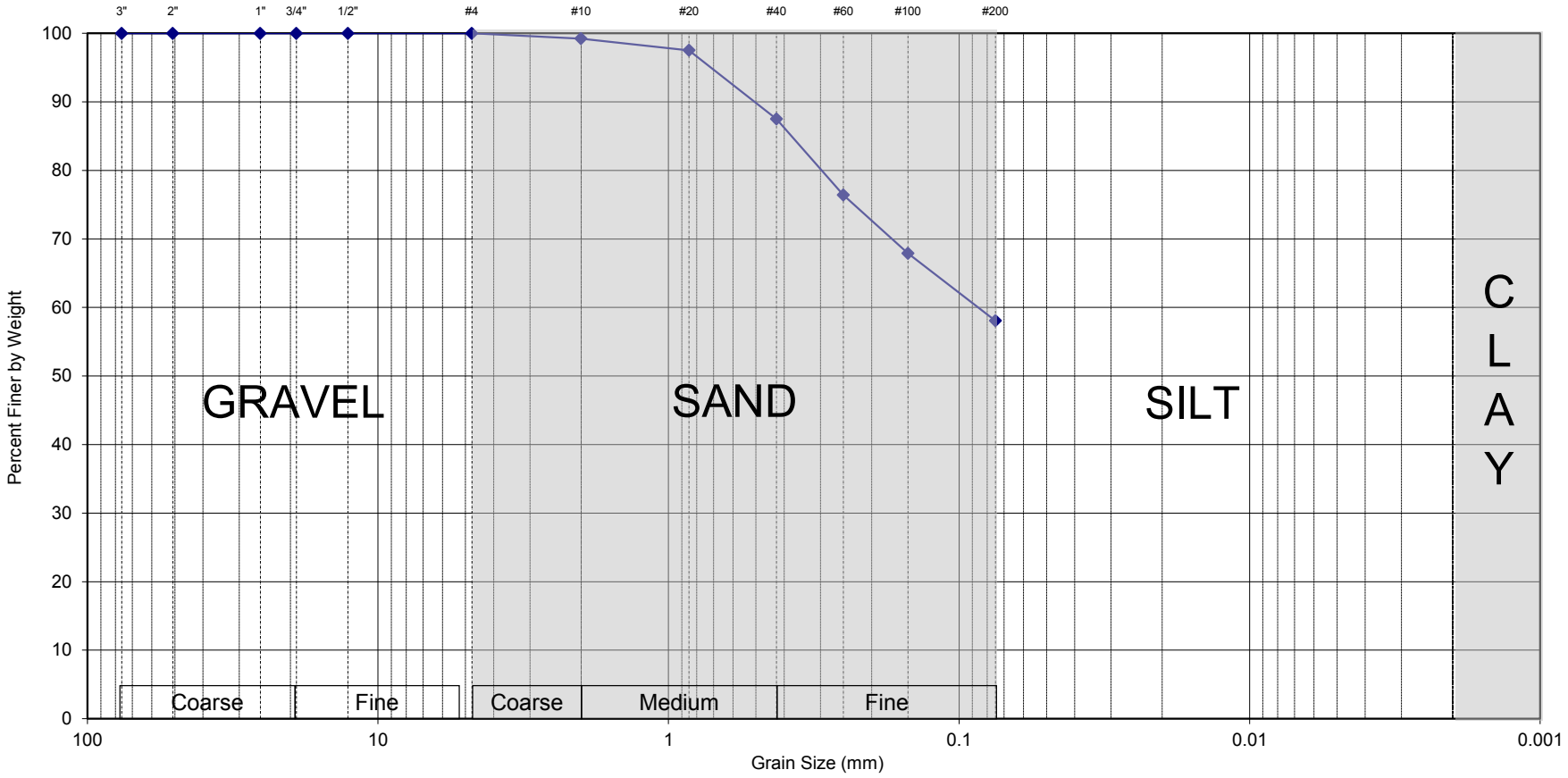
Sieve Size	% Passing
¾"	100.0
½"	100.0
#4	100.0
#10	99.8
#20	98.3
#40	82.1
#60	68.1
#100	60.0
#200	52.6

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401-467-6454

CTS-74-13-0003
1 Horizon Way
Everett, MA
GZA File # 01.0171521.02

Tested by: PH/LM Date: 8/12/13
Reviewed by: MBP Date: 8/13/13

U.S. STANDARD SIEVE AND HYDROMETER



Gravel	Sand	Fines
0.0%	41.9%	58.1%

Lab #	Exploration	Sample Depth	Sample Date	Description	WC	LL	PL	PI
38	GZ-111	0-4'	8/1/13	Gray Organic SILT and f-m SAND				

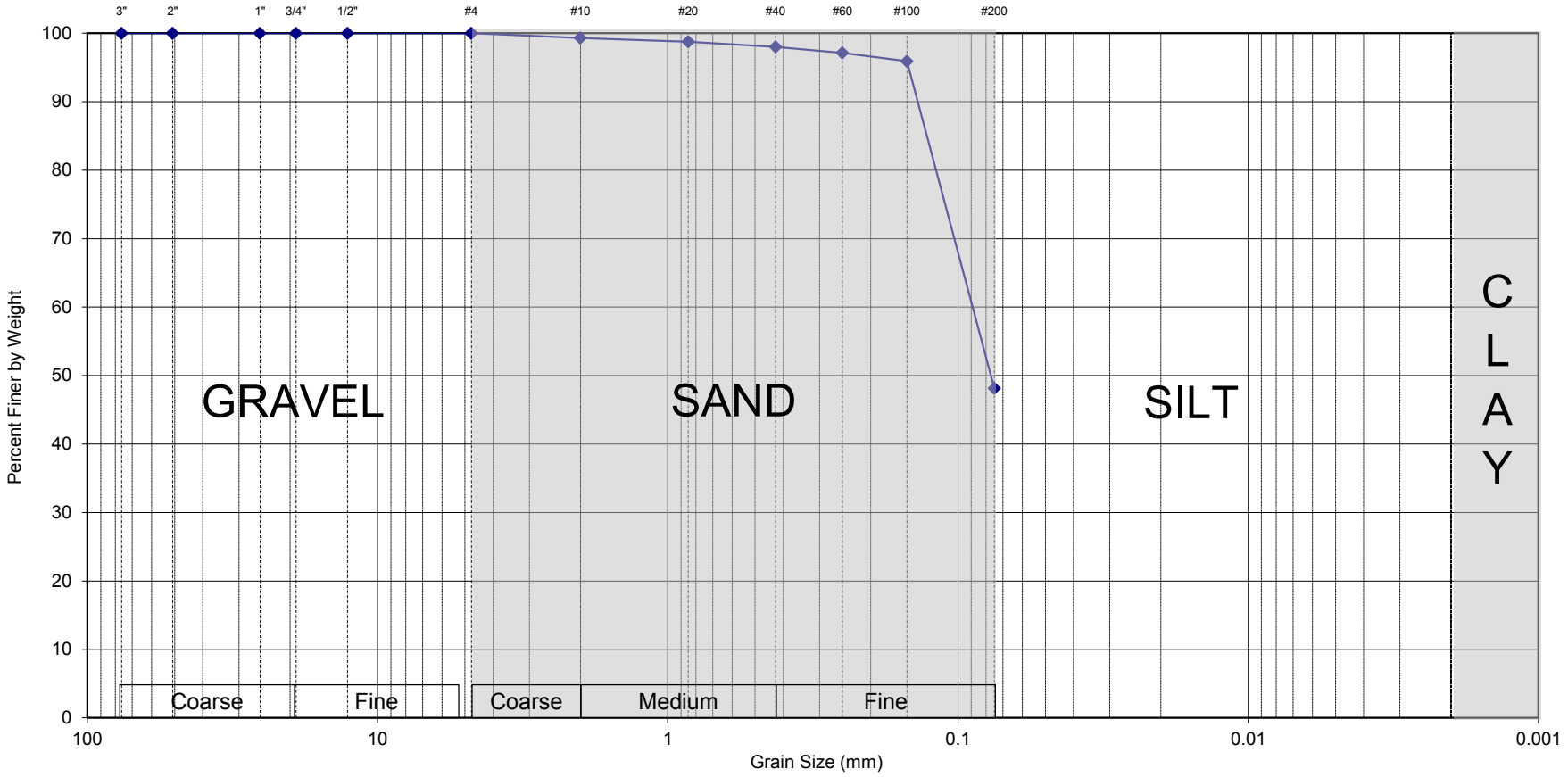
Sieve Size	% Passing
¾"	100.0
½"	100.0
#4	100.0
#10	99.2
#20	97.5
#40	87.5
#60	76.4
#100	67.9
#200	58.1

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1 Horizon Way
Everett, MA
GZA File # 01.0171521.02

Tested by: PH/LM Date: 8/12/13
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U.S. STANDARD SIEVE AND HYDROMETER



Gravel	Sand	Fines
0.0%	51.9%	48.1%

Lab #	Exploration	Sample Depth	Sample Date	Description	WC	LL	PL	PI
39	GZ-111	7-8'	8/1/13	Gray f-m SAND and Organic SILT				

Sieve Size	% Passing
¾"	100.0
½"	100.0
#4	100.0
#10	99.3
#20	98.8
#40	98.0
#60	97.1
#100	95.9
#200	48.1

THIELSCH ENGINEERING
195 Frances Ave., Cranston, RI 02910
401-467-6454

CTS-74-13-0003
1 Horizon Way
Everett, MA
GZA File # 01.0171521.02

Tested by: PH/LM Date: 8/12/13
Reviewed by: MBP Date: 8/13/13

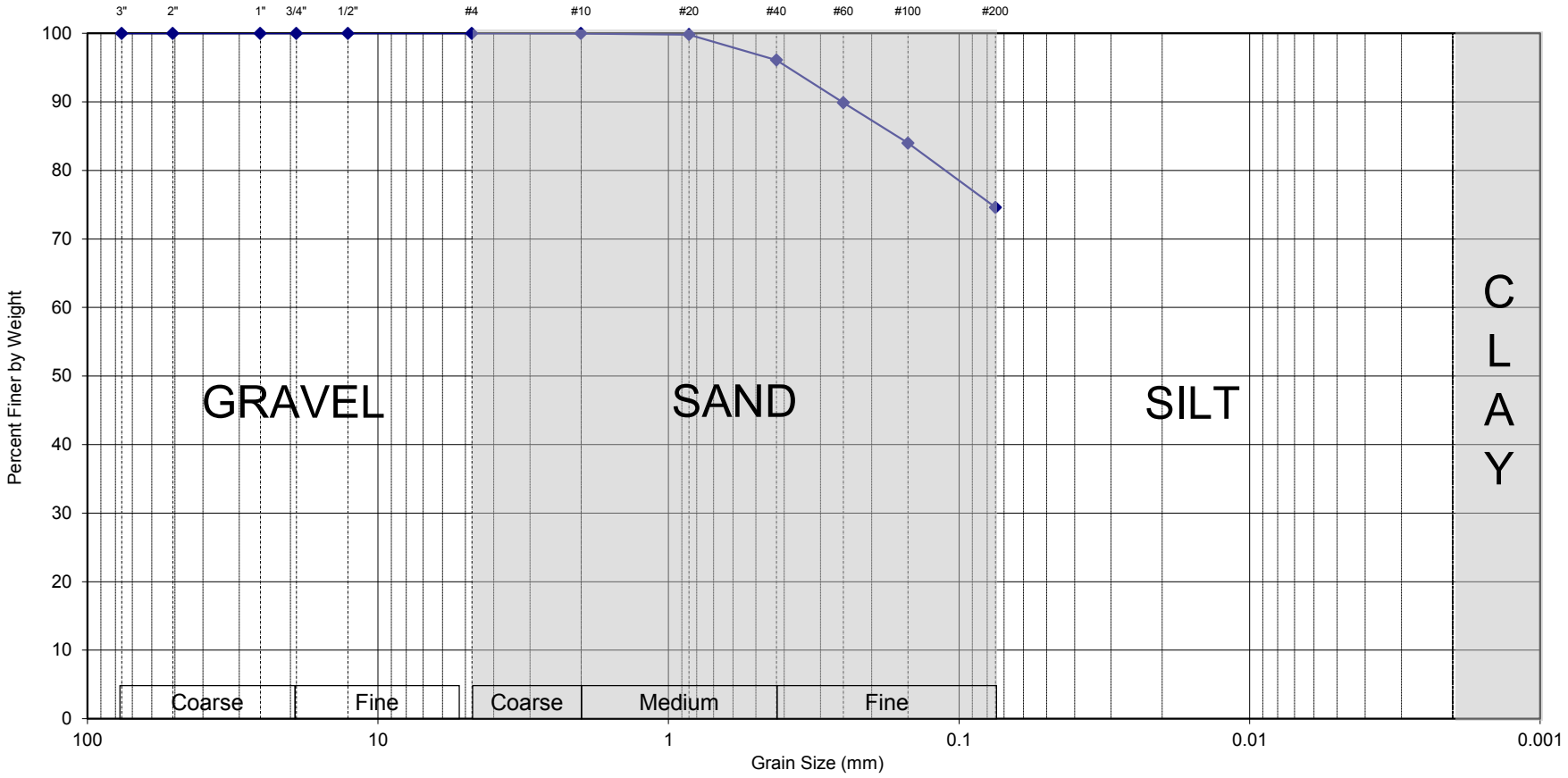
LABORATORY TESTING DATA SHEET

Project Name: 1 Horizon Way
Project Location: Everett, MA
Project No.: 01.0171521.02
Report Date: 8/13/2013
Project Engineer: D. Leone
Date Reviewed: 8/13/2013
Assigned By: J. Chrzanowski
Reviewed By: Matthew Dalton

Boring/ Test Pit No.	Depth (ft)	Sample Time	Lab No.	Identification Tests							Laboratory Log and Soil Description
				Water Content %	LL %	PL %	Sieve -200 %	Hyd -2µ %	Gs	ORG %	
GZ-112	0-3	8/1/13	40				74.6				Gray Organic SILT, some f-m Sand
GZ-112	6-9	8/1/13	41				49.1				Black f-m SAND and Organic SILT
GZ-113	0-4	8/1/13	42				65.9				Dark gray Organic SILT, some f-m Sand
GZ-113	5-9	8/1/13	43				33.0				Gray fine SAND, some Organic Silt
GZ-114	0-5	8/1/13	44				70.5				Black Organic SILT, some f-m Sand
GZ-115	0-4	8/1/13	45				55.0				Black Organic SILT and f-m SAND, trace Gravel
GZ-117	4-8	8/1/13	46				55.6				Dark brown Organic SILT and f-m SAND, trace Gravel
GZ-119	0-4	8/1/13	47				62.3				Dark brown Organic SILT and f-m SAND
GZ-121	0-3	8/1/13	48				59.2				Gray Organic SILT and f-m SAND
GZ-123	5-8	8/1/13	49				60.7				Brown Organic SILT and f-m SAND
GZ-128	0-3	8/1/13	50				67.3				Brown Organic SILT, some f-m Sand

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401-467-6454

U.S. STANDARD SIEVE AND HYDROMETER



Gravel	Sand	Fines
0.0%	25.4%	74.6%

Lab #	Exploration	Sample Depth	Sample Date	Description	WC	LL	PL	PI
40	GZ-112	0-3'	8/1/13	Gray Organic SILT, some f-m Sand				

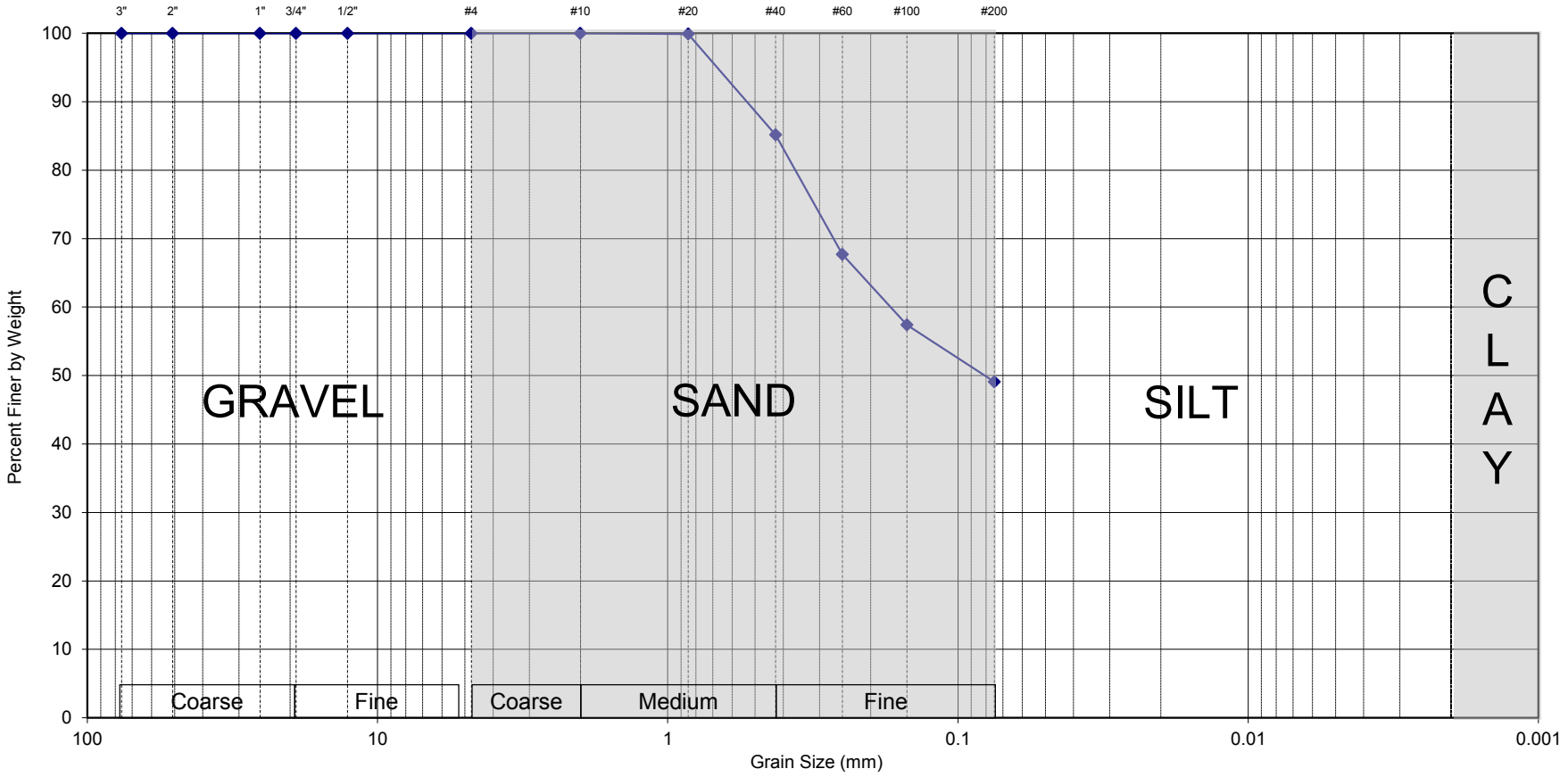
Sieve Size	% Passing
¾"	100.0
½"	100.0
#4	100.0
#10	100.0
#20	99.8
#40	96.1
#60	89.9
#100	84.0
#200	74.6

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195 Frances Ave., Cranston, RI 02910
401-467-6454

CTS-74-13-0003
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GZA File # 01.0171521.02

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U.S. STANDARD SIEVE AND HYDROMETER



Gravel	Sand	Fines
0.0%	50.9%	49.1%

Lab #	Exploration	Sample Depth	Sample Date	Description	WC	LL	PL	PI
41	GZ-112	6-9'	8/1/13	Black f-m SAND and Organic SILT				

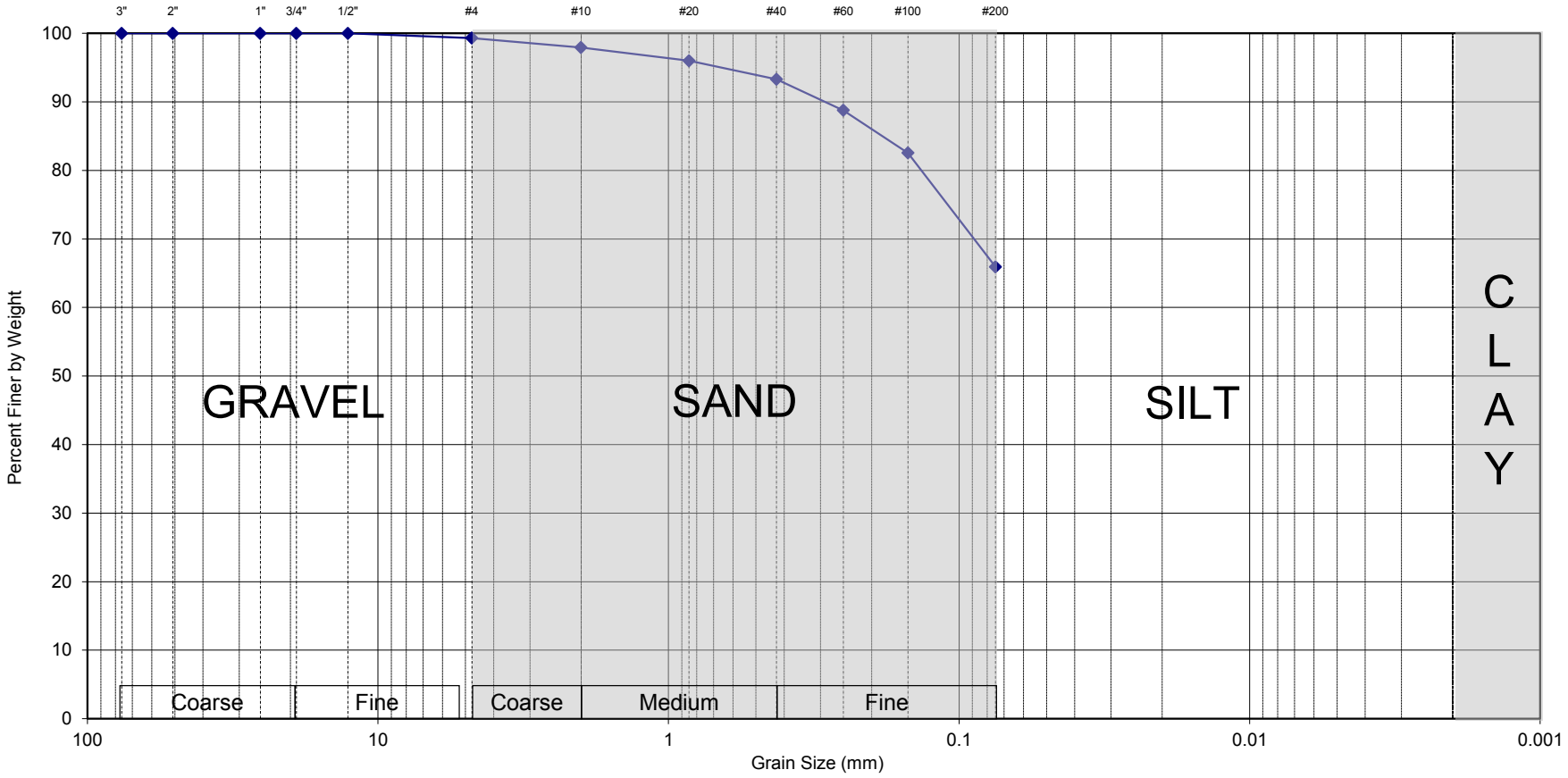
Sieve Size	% Passing
¾"	100.0
½"	100.0
#4	100.0
#10	100.0
#20	99.9
#40	85.2
#60	67.7
#100	57.4
#200	49.1

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401-467-6454

CTS-74-13-0003
1 Horizon Way
Everett, MA
GZA File # 01.0171521.02

Tested by: PH/LM Date: 8/12/13
Reviewed by: MBP Date: 8/13/13

U.S. STANDARD SIEVE AND HYDROMETER



Gravel	Sand	Fines
0.7%	33.4%	65.9%

Lab #	Exploration	Sample Depth	Sample Date	Description	WC	LL	PL	PI
42	GZ-113	0-4'	8/1/13	Dark gray Organic SILT, some f-m Sand				

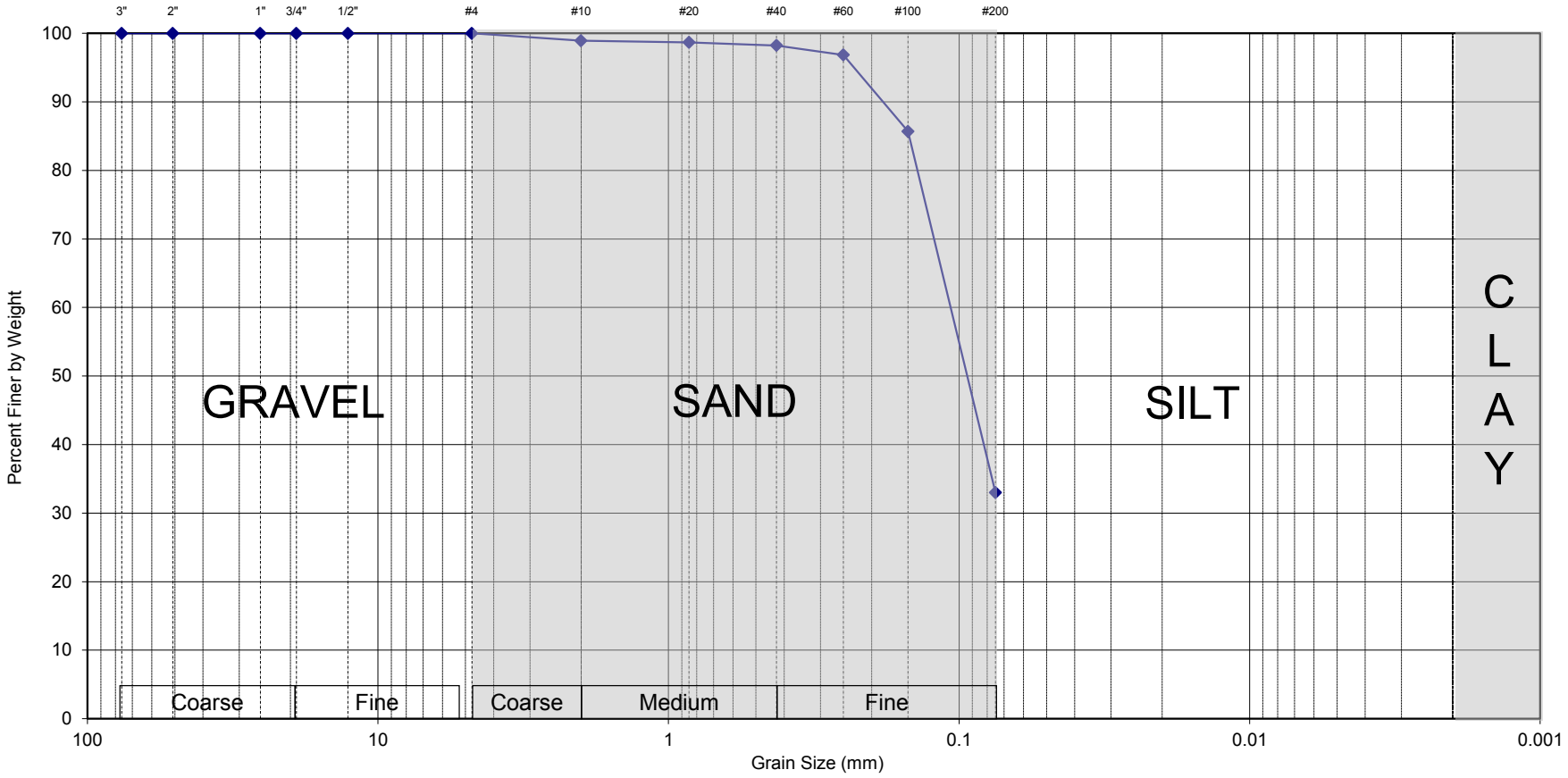
Sieve Size	% Passing
¾"	100.0
½"	100.0
#4	99.3
#10	97.9
#20	96.0
#40	93.3
#60	88.8
#100	82.5
#200	65.9

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U.S. STANDARD SIEVE AND HYDROMETER



Gravel	Sand	Fines
0.0%	67.0%	33.0%

Lab #	Exploration	Sample Depth	Sample Date	Description	WC	LL	PL	PI
43	GZ-113	5-9'	8/1/13	Gray fine SAND, some Organic Silt				

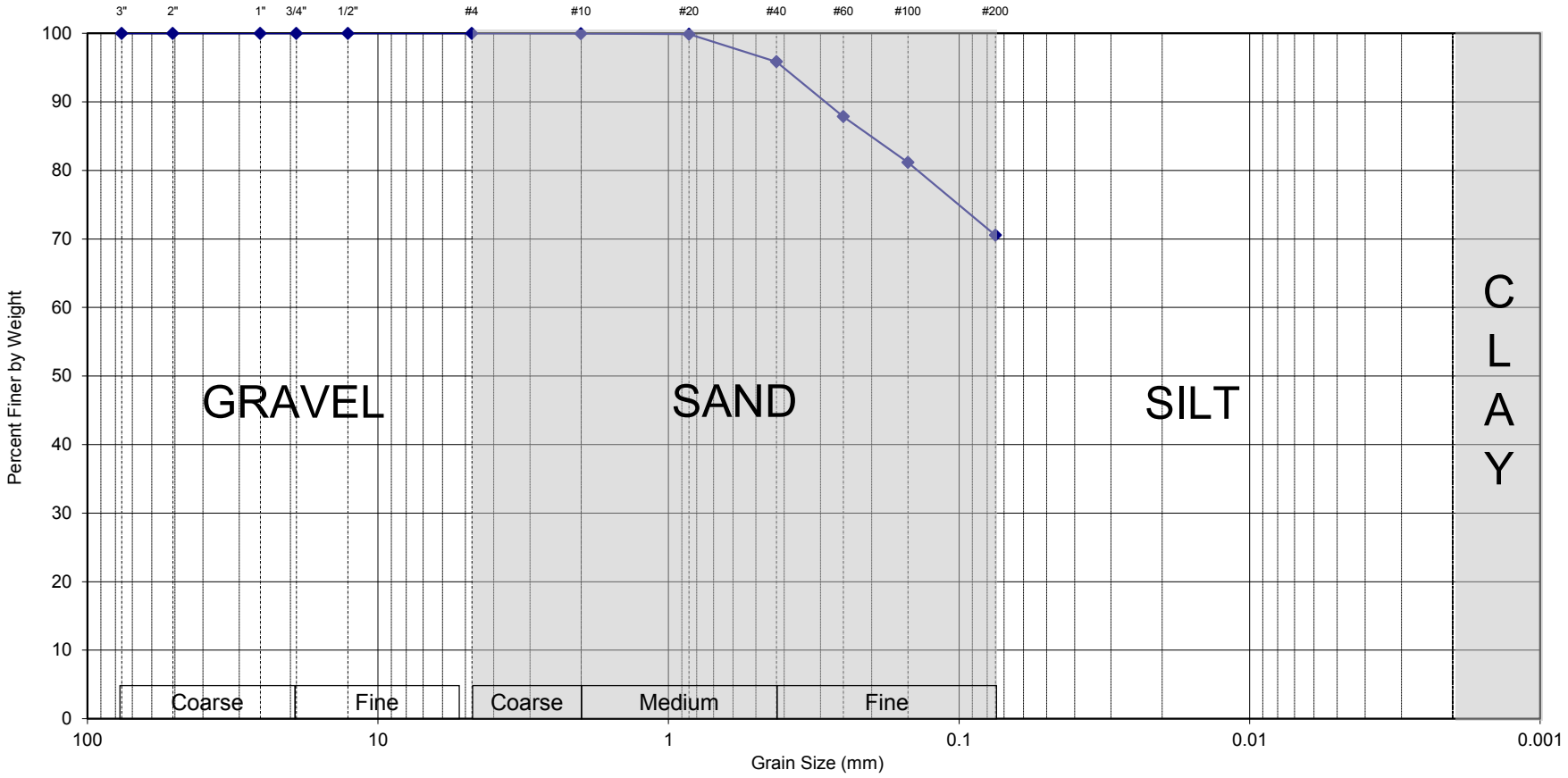
Sieve Size	% Passing
¾"	100.0
½"	100.0
#4	100.0
#10	98.9
#20	98.7
#40	98.2
#60	96.8
#100	85.7
#200	33.0

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U.S. STANDARD SIEVE AND HYDROMETER



Gravel	Sand	Fines
0.0%	29.5%	70.5%

Lab #	Exploration	Sample Depth	Sample Date	Description	WC	LL	PL	PI
44	GZ-114	0-5'	8/1/13	Black Organic SILT, some f-m Sand				

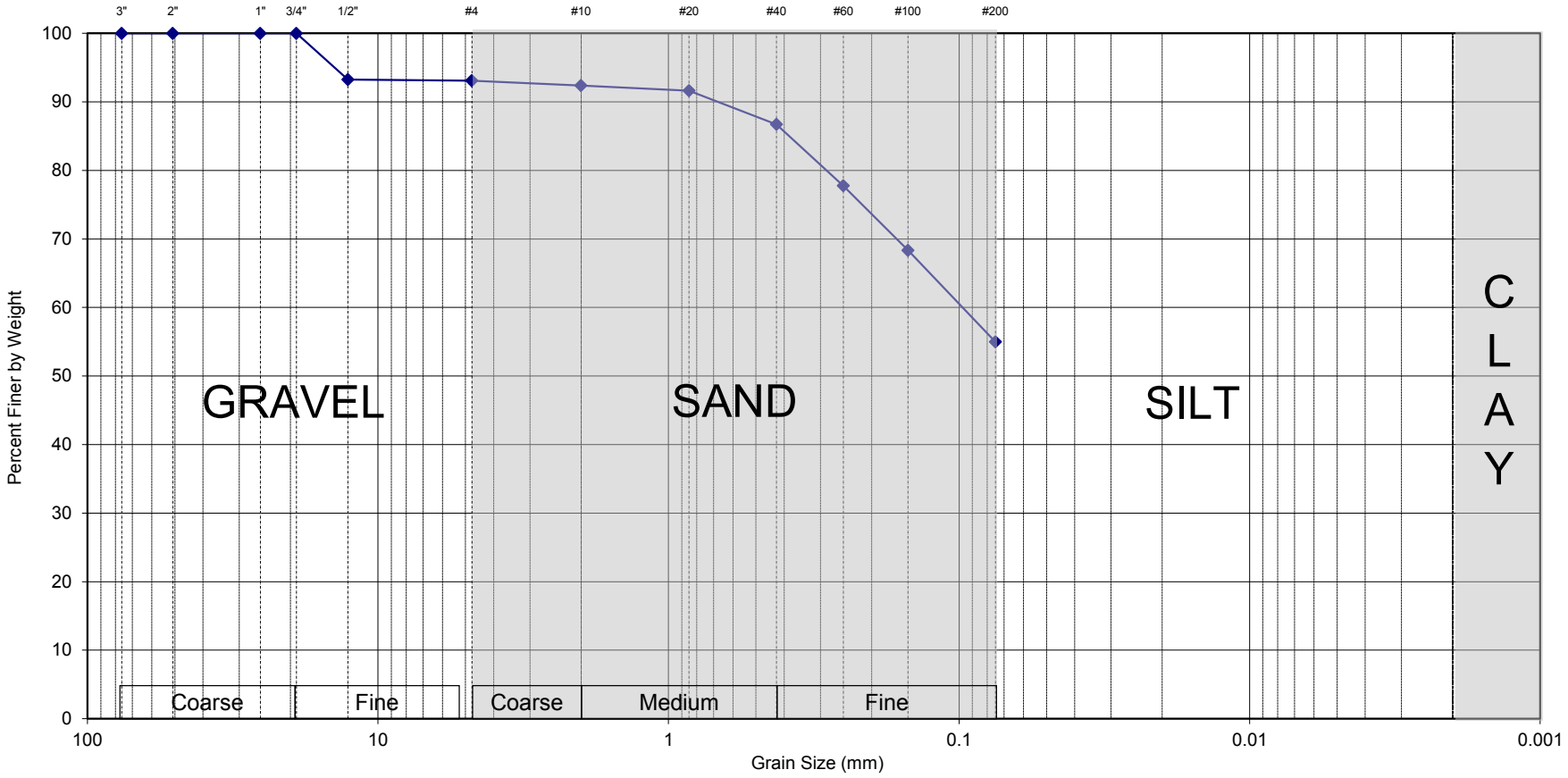
Sieve Size	% Passing
¾"	100.0
½"	100.0
#4	100.0
#10	100.0
#20	99.9
#40	95.9
#60	87.9
#100	81.2
#200	70.5

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U.S. STANDARD SIEVE AND HYDROMETER



Gravel	Sand	Fines
6.9%	38.1%	55.0%

Lab #	Exploration	Sample Depth	Sample Date	Description	WC	LL	PL	PI
45	GZ-115	0-4'	8/1/13	Black Organic SILT and f-m SAND, trace Gravel				

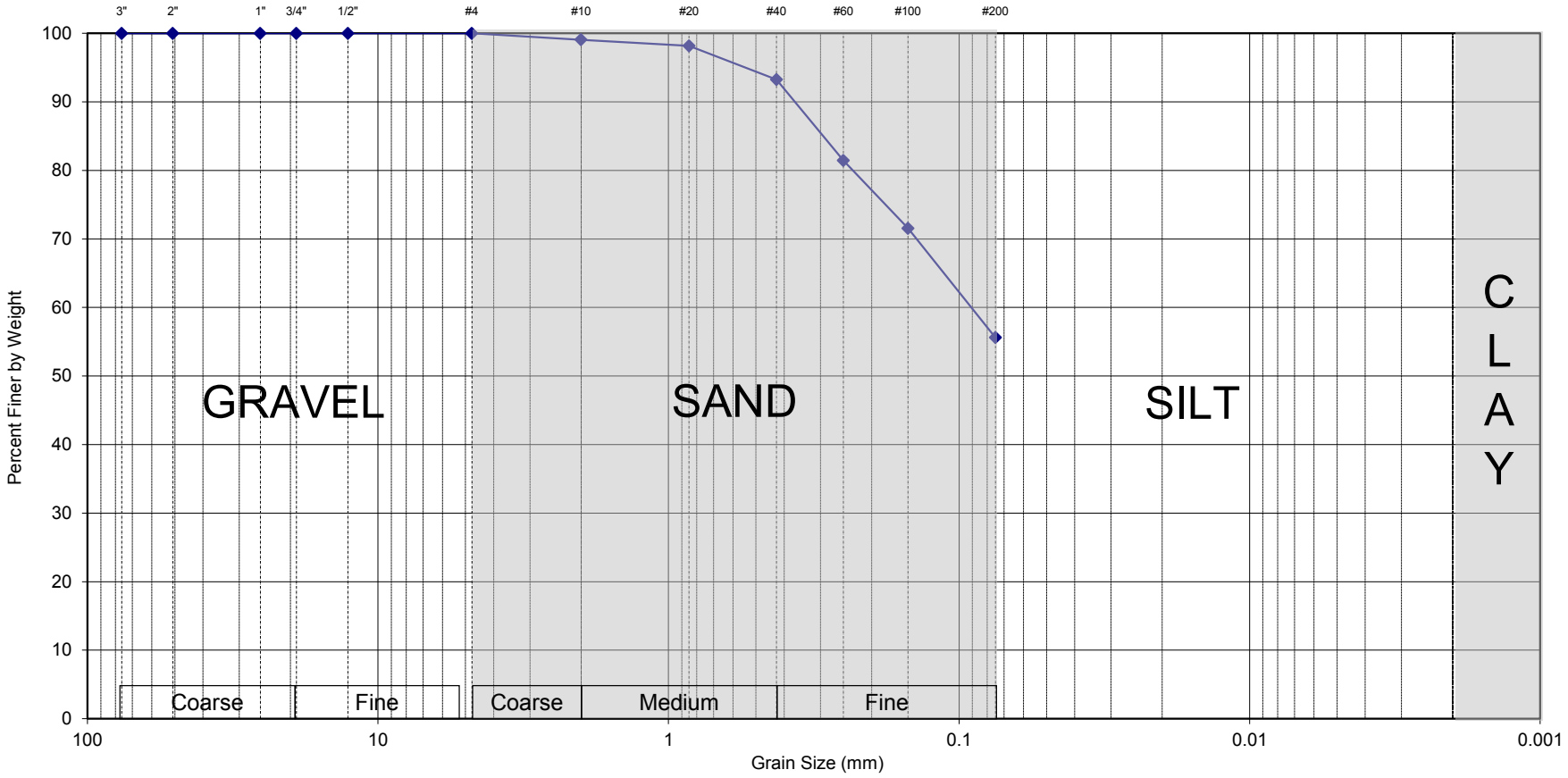
Sieve Size	% Passing
¾"	100.0
½"	93.2
#4	93.1
#10	92.4
#20	91.6
#40	86.7
#60	77.8
#100	68.3
#200	55.0

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U.S. STANDARD SIEVE AND HYDROMETER



Gravel	Sand	Fines
0.0%	44.4%	55.6%

Lab #	Exploration	Sample Depth	Sample Date	Description	WC	LL	PL	PI
46	GZ-117	4-8'	8/1/13	Dark brown Organic SILT and f-m SAND, trace Gravel				

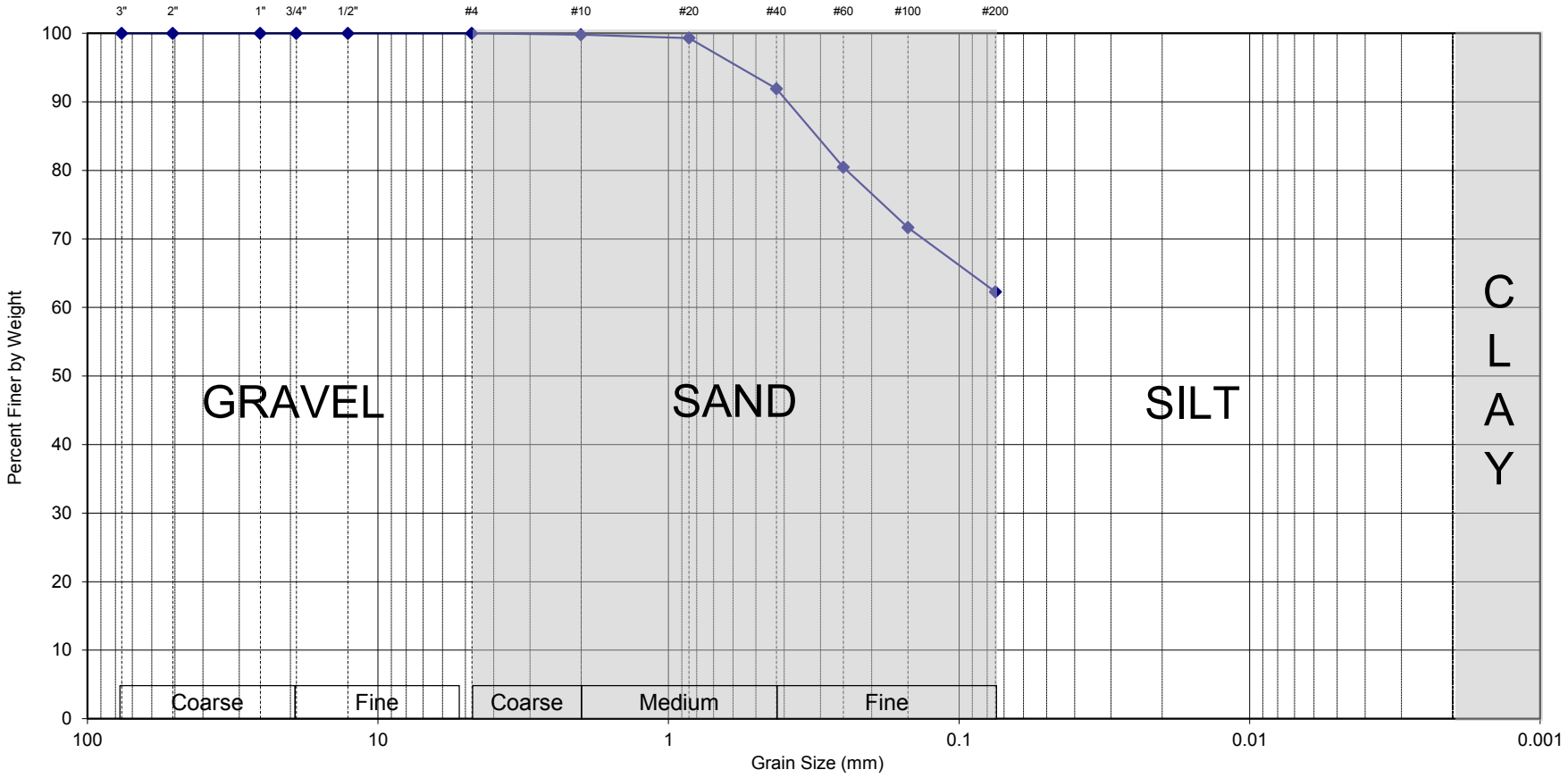
Sieve Size	% Passing
¾"	100.0
½"	100.0
#4	100.0
#10	99.1
#20	98.2
#40	93.3
#60	81.4
#100	71.6
#200	55.6

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U.S. STANDARD SIEVE AND HYDROMETER



Gravel	Sand	Fines
0.0%	37.7%	62.3%

Lab #	Exploration	Sample Depth	Sample Date	Description	WC	LL	PL	PI
47	GZ-119	0-4'	8/1/13	Dark brown Organic SILT and f-m SAND				

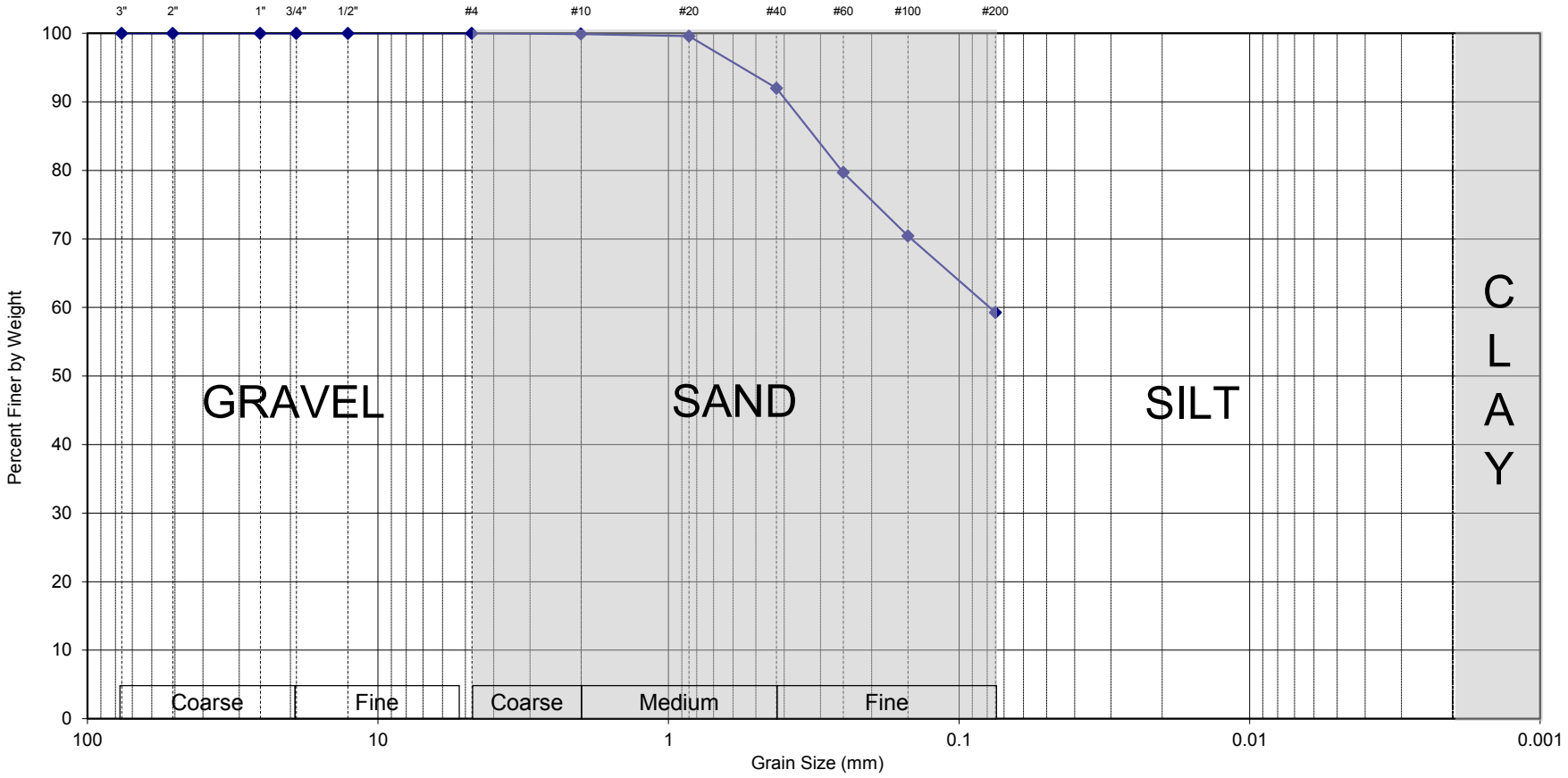
Sieve Size	% Passing
¾"	100.0
½"	100.0
#4	100.0
#10	99.8
#20	99.3
#40	91.9
#60	80.5
#100	71.6
#200	62.3

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U.S. STANDARD SIEVE AND HYDROMETER



Gravel	Sand	Fines
0.0%	40.8%	59.2%

Lab #	Exploration	Sample Depth	Sample Date	Description	WC	LL	PL	PI
48	GZ-121	0-3'	8/1/13	Gray Organic SILT and f-m SAND				

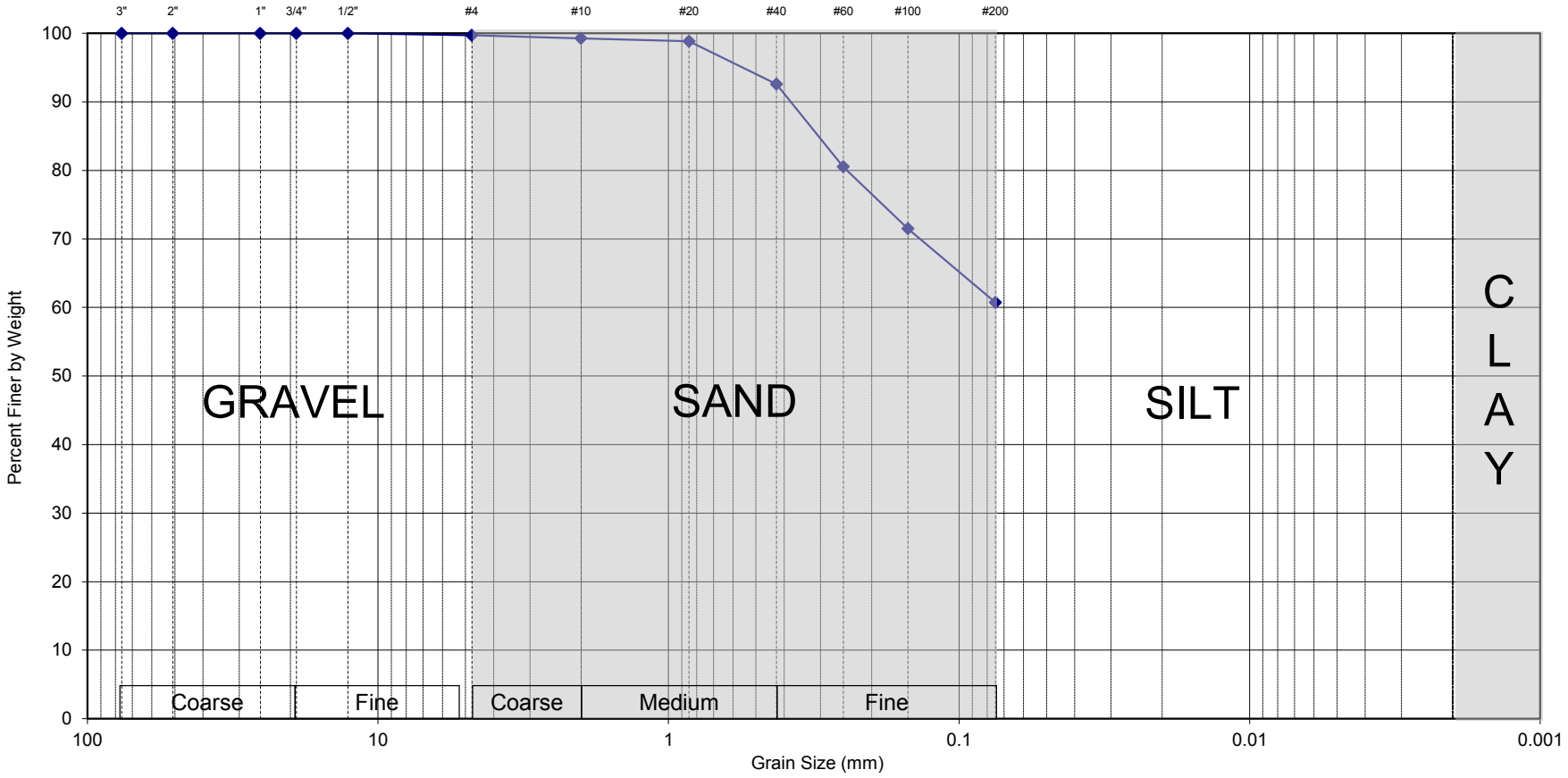
Sieve Size	% Passing
¾"	100.0
½"	100.0
#4	100.0
#10	99.9
#20	99.6
#40	92.0
#60	79.7
#100	70.4
#200	59.2

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CTS-74-13-0003
1 Horizon Way
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U.S. STANDARD SIEVE AND HYDROMETER



Gravel	Sand	Fines
0.3%	39.0%	60.7%

Lab #	Exploration	Sample Depth	Sample Date	Description	WC	LL	PL	PI
49	GZ-123	5-8'	8/1/13	Brown Organic SILT and f-m SAND				

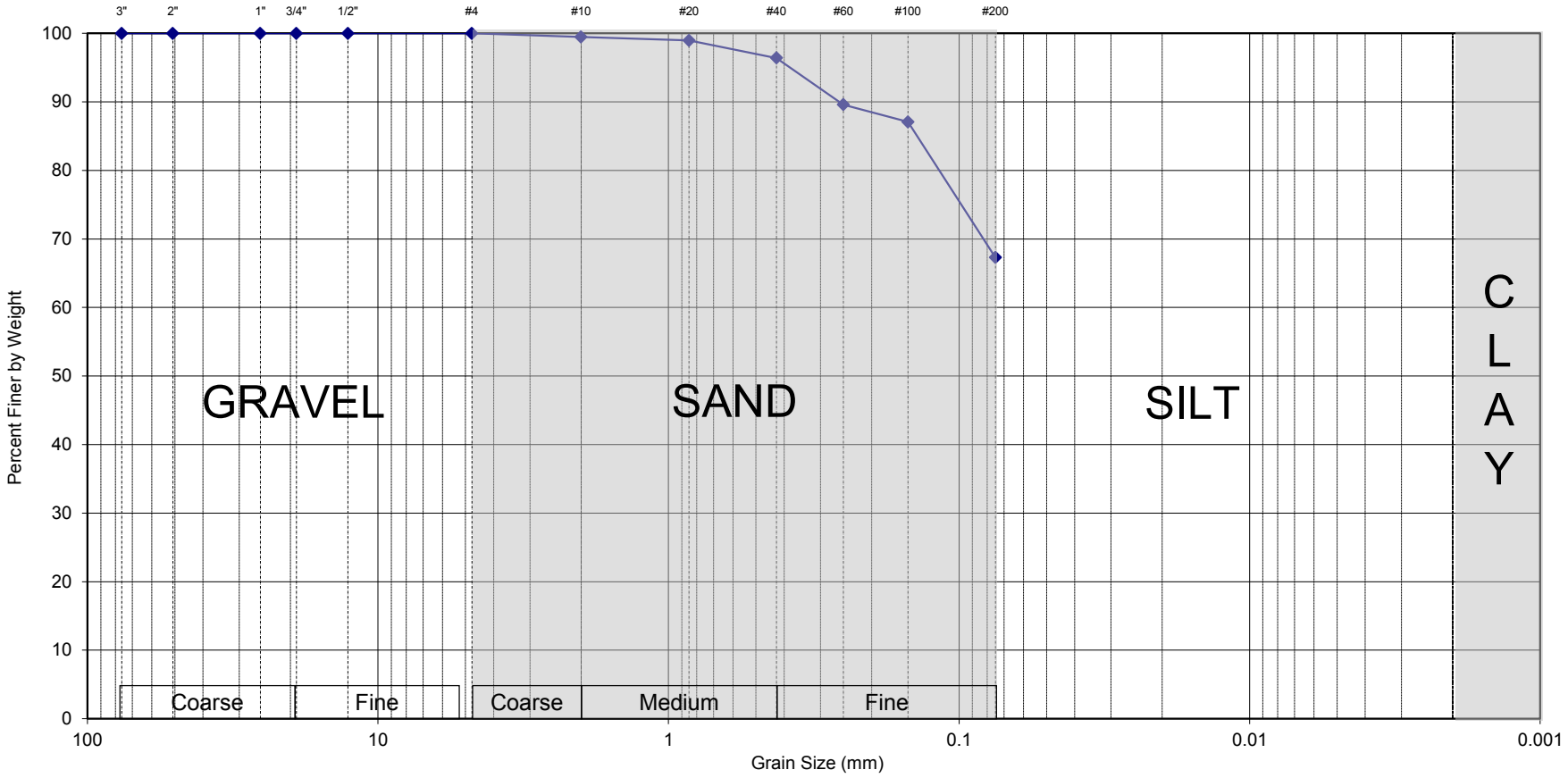
Sieve Size	% Passing
¾"	100.0
½"	100.0
#4	99.7
#10	99.3
#20	98.8
#40	92.6
#60	80.5
#100	71.5
#200	60.7

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U.S. STANDARD SIEVE AND HYDROMETER



Gravel	Sand	Fines
0.0%	32.7%	67.3%

Lab #	Exploration	Sample Depth	Sample Date	Description	WC	LL	PL	PI
50	GZ-128	0-3'	8/1/13	Brown Organic SILT, some f-m Sand				

Sieve Size	% Passing
¾"	100.0
½"	100.0
#4	100.0
#10	99.5
#20	99.0
#40	96.4
#60	89.6
#100	87.1
#200	67.3

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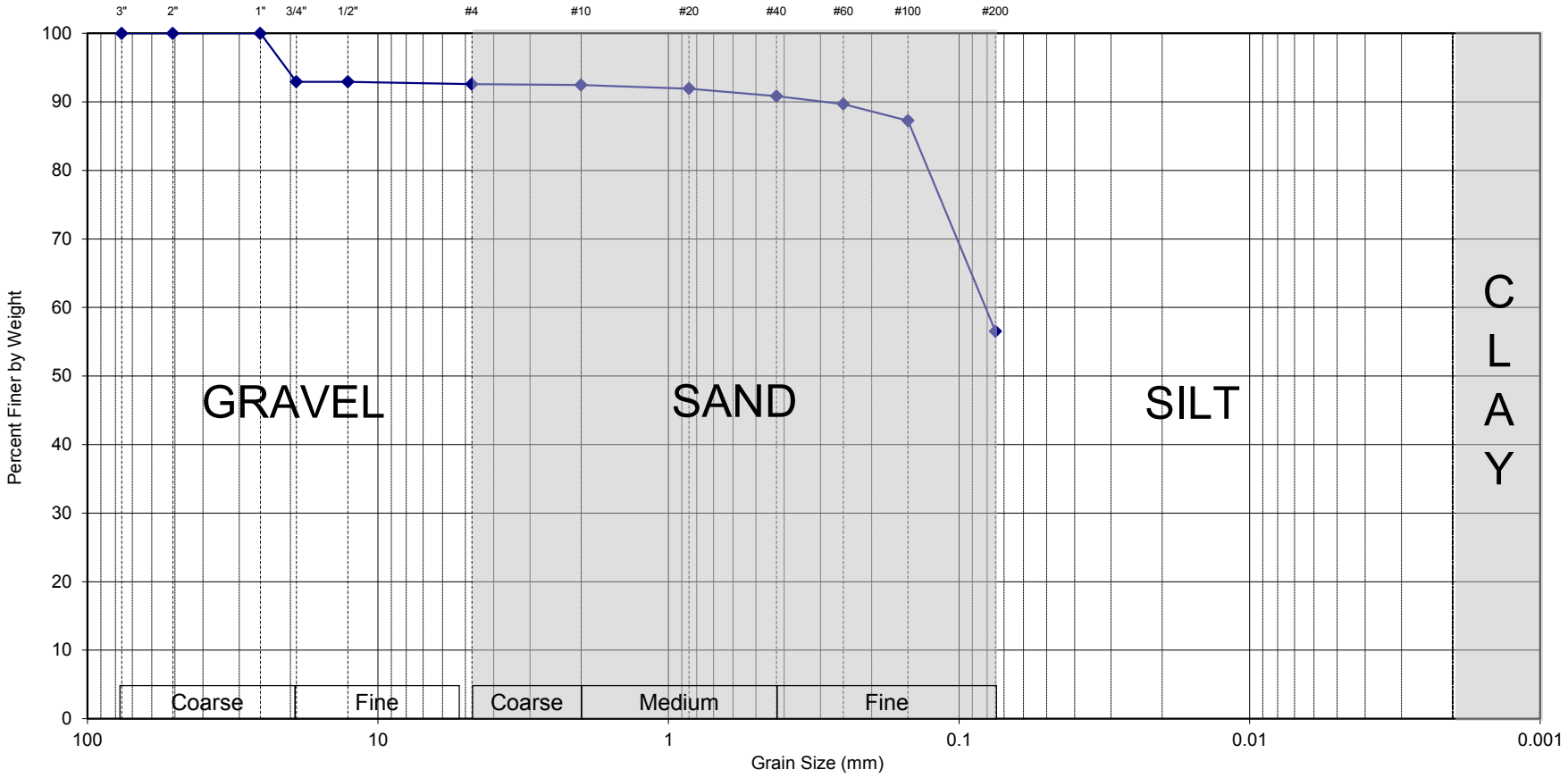
LABORATORY TESTING DATA SHEET

Project Name: 1 Horizon Way
Project Location: Everett, MA
Project No.: 01.0171521.02
Report Date: 8/13/2013
Project Engineer: D. Leone
Date Reviewed: 8/19/2013
Assigned By: J. Chrzanowski
Reviewed By:

Boring/ Test Pit No.	Depth (ft)	Sample Time	Lab No.	Identification Tests							Laboratory Log and Soil Description
				Water Content %	LL %	PL %	Sieve -200 %	Hyd -2μ %	Gs	ORG %	
GZ-139	1-2	8/5/13	51				56.5				Gray Organic SILT and f-m SAND, trace Gravel
GZ-139	7-9	8/5/13	52				48.0				Gray fine SAND and Organic SILT
GZ-140A	1-2	8/5/13	53				71.5				Gray Organic SILT, some fine Sand
GZ-140A	2-3	8/5/13	54				11.1				Gray f-c SAND, little f-c Gravel, little Silt
GZ-136	1-3	8/5/13	55				56.0				Gray Organic SILT, and fine SAND
GZ-136	7-9	8/5/13	56				28.0				Gray f-m SAND, some Silt, trace Gravel
GZ-137	0-2	8/5/13	57				66.1				Gray Organic SILT, some fine Sand
GZ-137	3-5	8/5/13	58				31.5				Gray f-m SAND, some Silt, trace Gravel
GZ-133	0-2	8/5/13	59				42.3				Dark brown f-m SAND and SILT, trace Gravel
GZ-133	2-4	8/5/13	60				22.6				Gray f-c SAND, some Silt, some f-c Gravel
GZ-110B	2-6	8/5/13	61				86.6				Gray Organic SILT, little f-m Sand
GZ-127	0-2	8/5/13	62				48.7				Black & Gray Organic SILT, some f-m Sand, little f-c Gravel
GZ-127	3-5	8/5/13	63				49.9				Brown-gray f-m SAND and SILT
GZ-126	0-2	8/5/13	64				35.5				Gray f-c SAND and SILT, little f-c Gravel
GZ-126	2-4	8/5/13	65				53.8				Gray SILT and f-m Sand, trace Gravel
GZ-125A	2-4	8/5/13	66				49.8				Gray fine SAND and SILT

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U.S. STANDARD SIEVE AND HYDROMETER



Gravel	Sand	Fines
7.4%	36.1%	56.5%

Lab #	Exploration	Sample Depth	Sample Date	Description	WC	LL	PL	PI
51	GZ-139	1-2'	8/5/13	Gray Organic SILT and f-m SAND, trace Gravel				

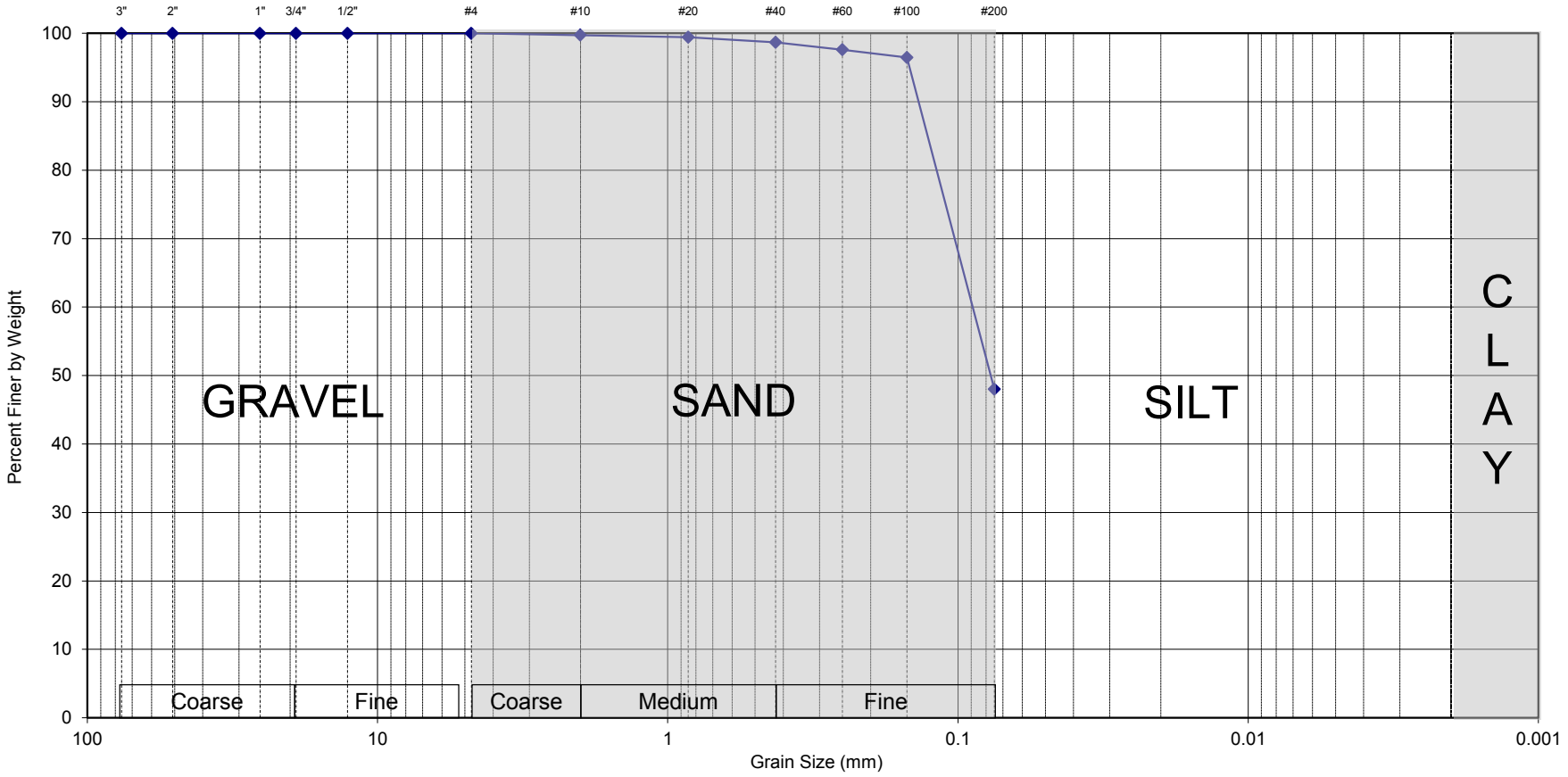
Sieve Size	% Passing
¾"	92.9
½"	92.9
#4	92.6
#10	92.4
#20	91.9
#40	90.8
#60	89.7
#100	87.3
#200	56.5

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Everett, MA
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Tested by: LM Date: 8/19/13
Reviewed by: MBP Date: 8/19/13

U.S. STANDARD SIEVE AND HYDROMETER



Gravel	Sand	Fines
0.0%	52.0%	48.0%

Lab #	Exploration	Sample Depth	Sample Date	Description	WC	LL	PL	PI
52	GZ-139	7-9'	8/5/13	Gray fine SAND and Organic SILT				

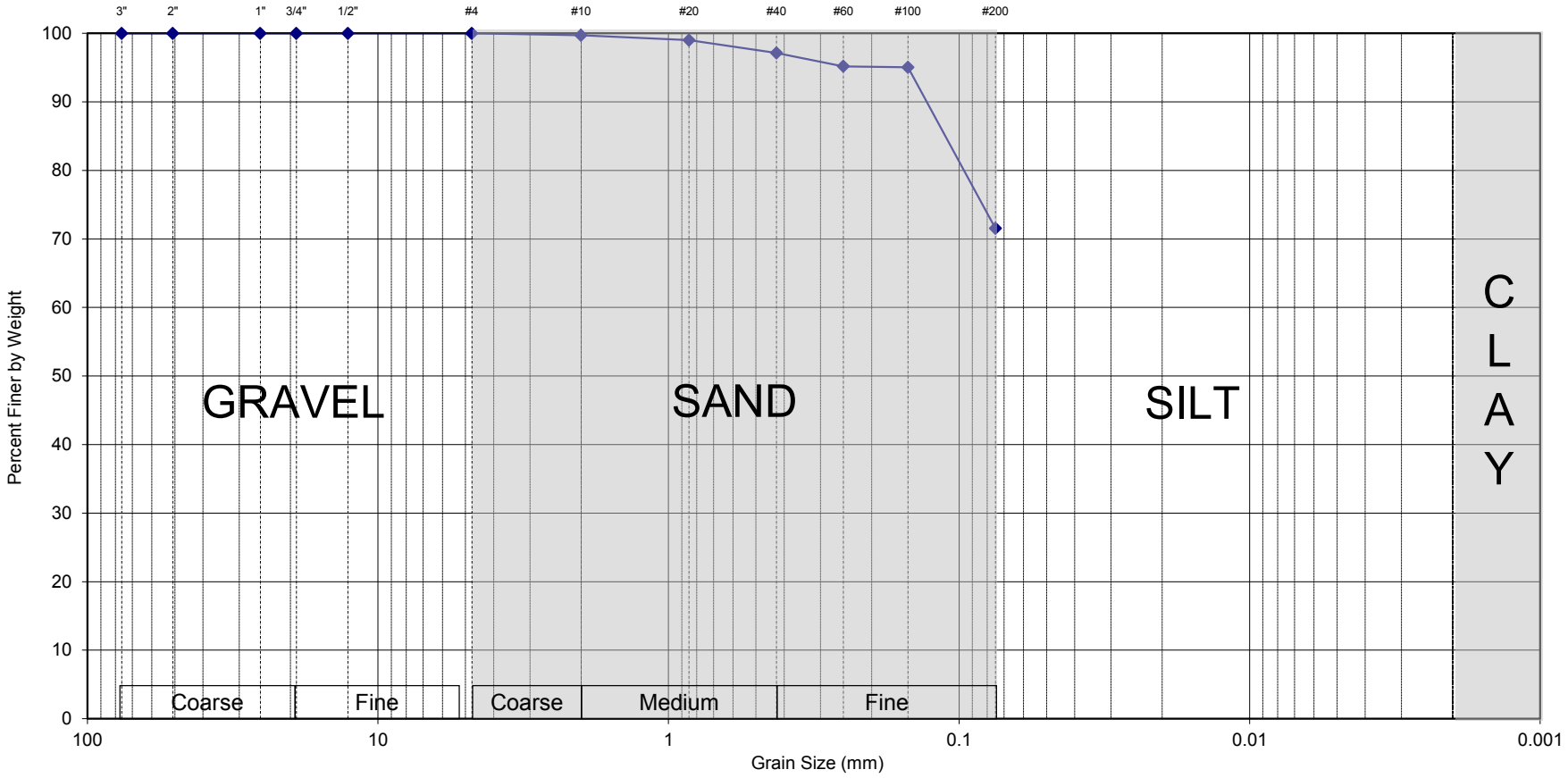
Sieve Size	% Passing
¾"	100.0
½"	100.0
#4	100.0
#10	99.7
#20	99.4
#40	98.7
#60	97.6
#100	96.5
#200	48.0

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Tested by: LM Date: 8/19/13
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U.S. STANDARD SIEVE AND HYDROMETER



Gravel	Sand	Fines
0.0%	28.5%	71.5%

Lab #	Exploration	Sample Depth	Sample Date	Description	WC	LL	PL	PI
53	GZ-140A	1-2'	8/5/13	Gray Organic SILT, some fine Sand				

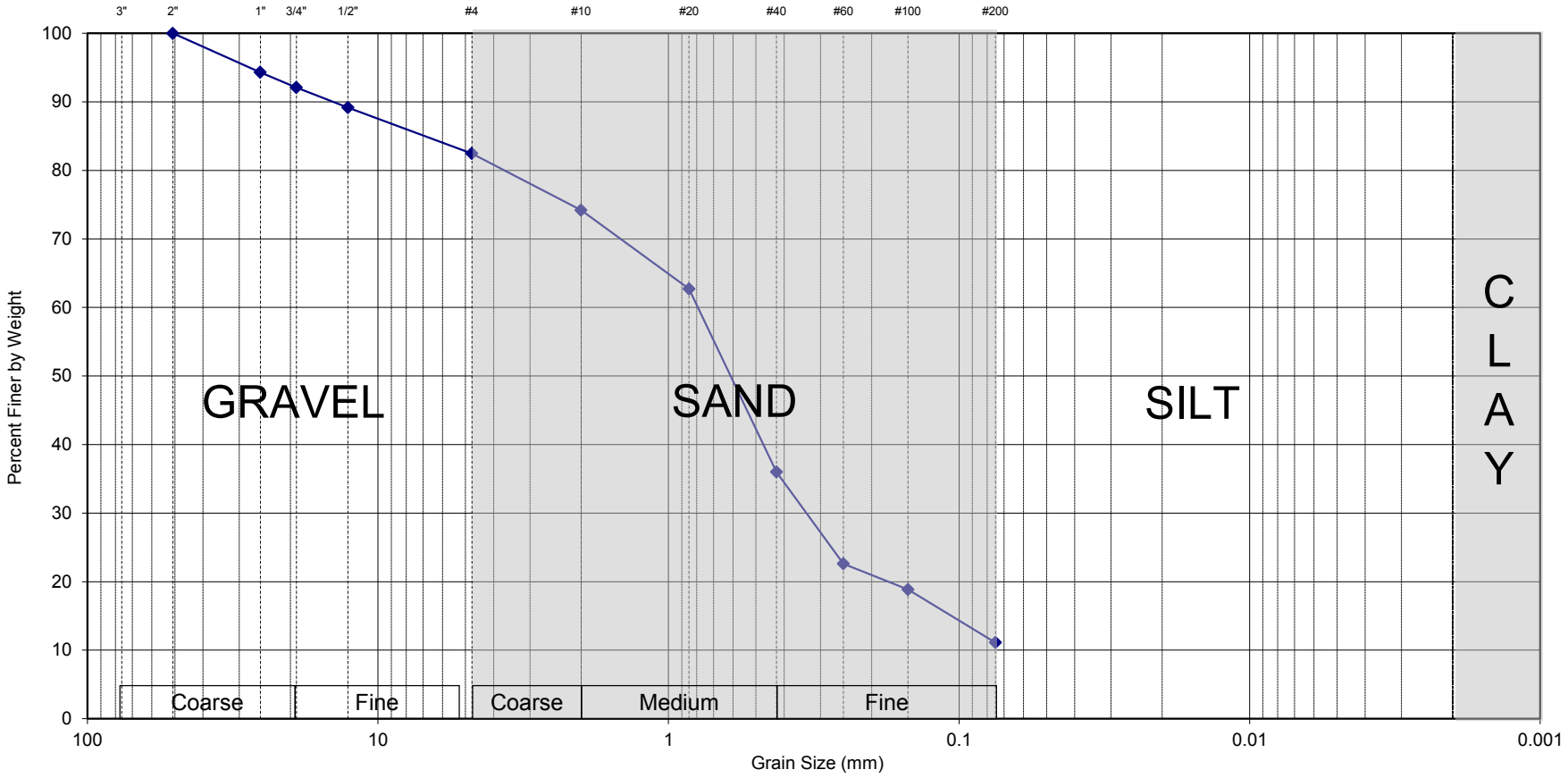
Sieve Size	% Passing
¾"	100.0
½"	100.0
#4	100.0
#10	99.7
#20	99.0
#40	97.1
#60	95.2
#100	95.0
#200	71.5

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U.S. STANDARD SIEVE AND HYDROMETER



Gravel	Sand	Fines
17.5%	71.3%	11.1%

Lab #	Exploration	Sample	Sample Date	Description	WC	LL	PL	PI
54	GZ-140A	2-3'	8/5/13	Gray f-c SAND, little f-c Gravel, little Silt				

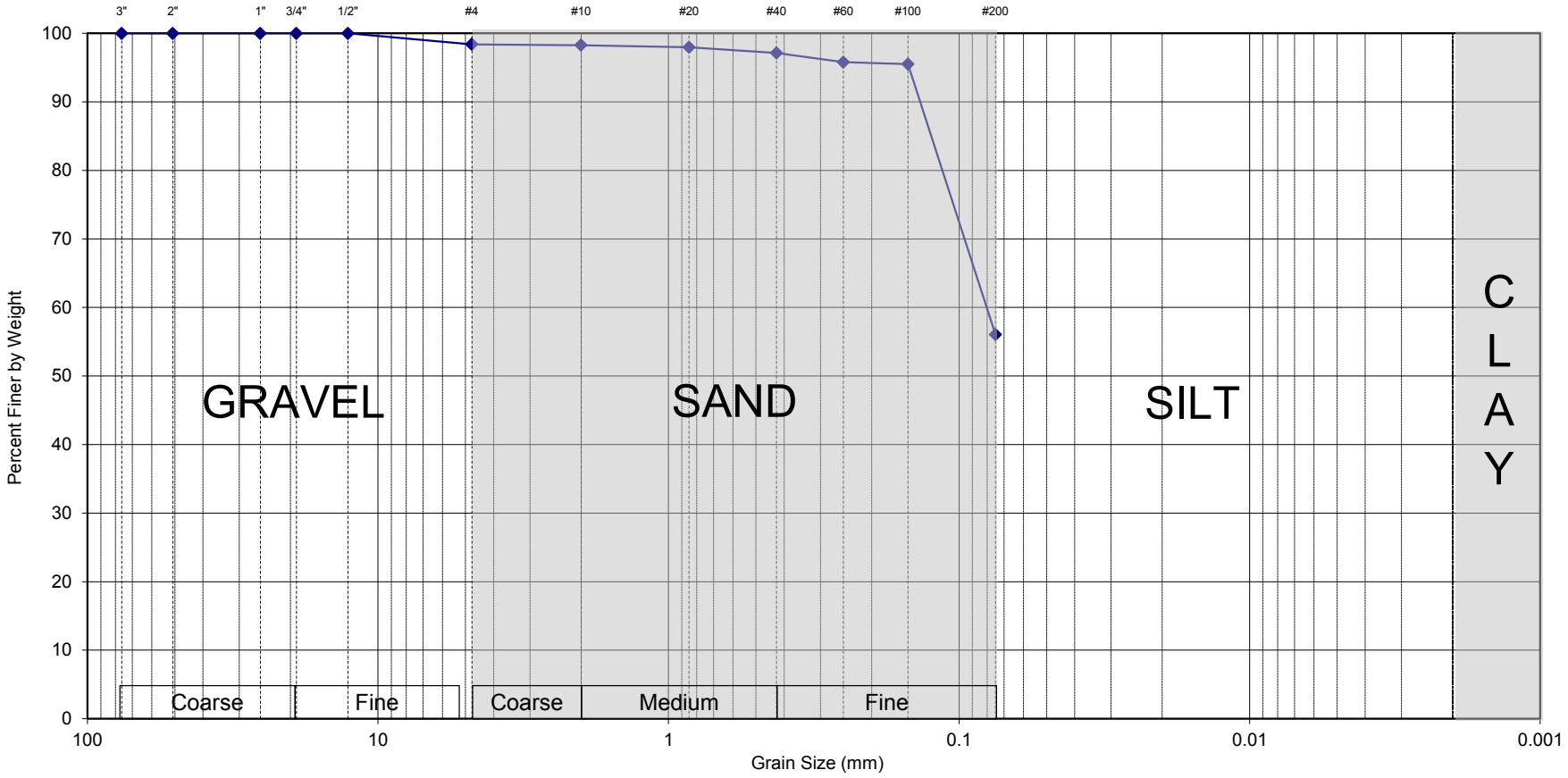
Sieve Size	% Passing
¾"	92.1
½"	89.2
#4	82.5
#10	74.2
#20	62.7
#40	36.0
#60	22.6
#100	18.9
#200	11.1

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GZA File # 01.0171521.02

Tested by: LM/GG Date: 8/16/13
Reviewed by: MBP Date: 8/19/13

U.S. STANDARD SIEVE AND HYDROMETER



Gravel	Sand	Fines
1.6%	42.4%	56.0%

Lab #	Exploration	Sample Depth	Sample Date	Description	WC	LL	PL	PI
55	GZ-136	1-3'	8/5/13	Gray Organic SILT, and fine SAND				

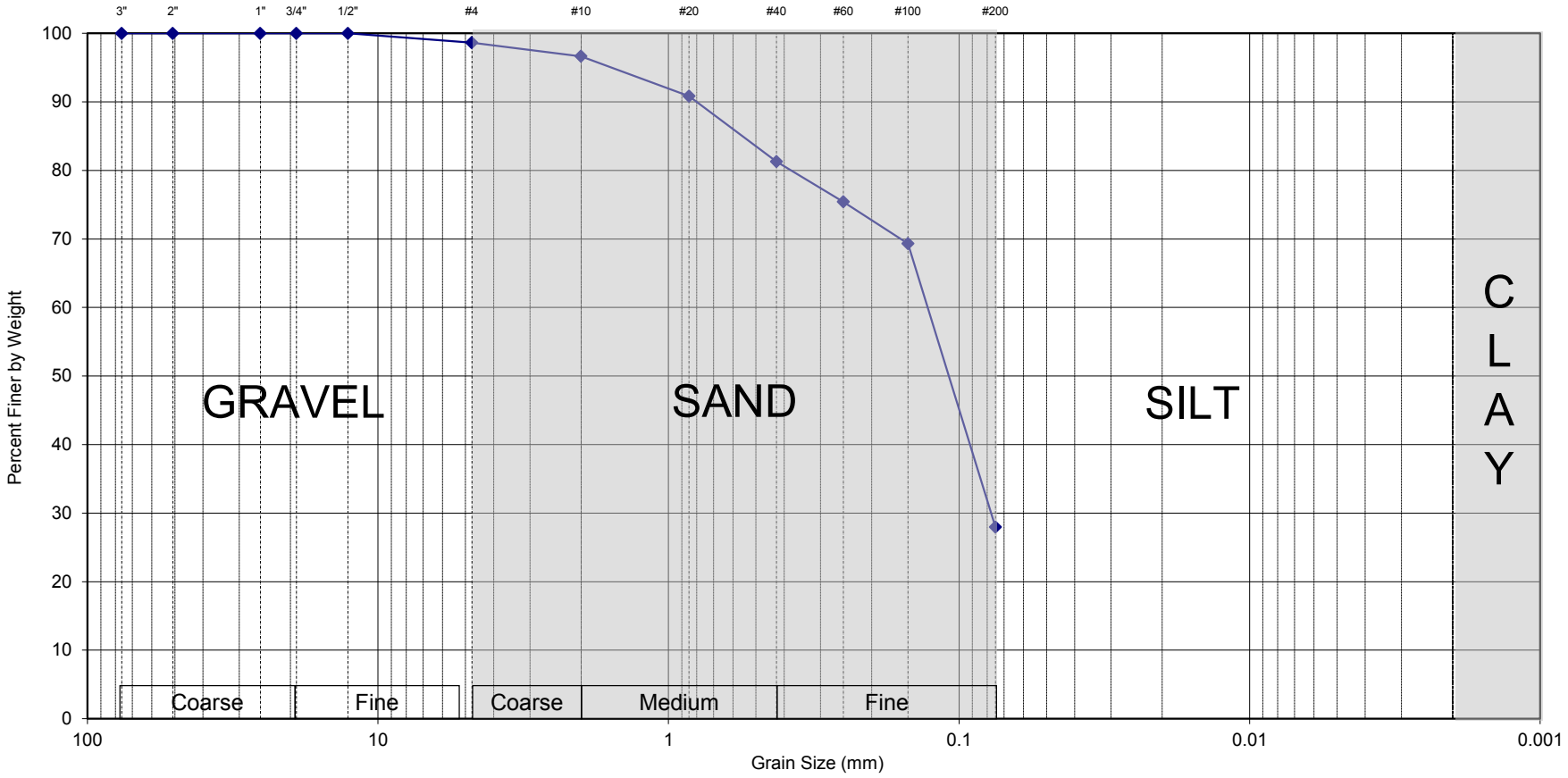
Sieve Size	% Passing
¾"	100.0
½"	100.0
#4	98.4
#10	98.3
#20	98.0
#40	97.1
#60	95.8
#100	95.5
#200	56.0

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Tested by: LM Date: 8/19/13
Reviewed by: MBP Date: 8/19/13

U.S. STANDARD SIEVE AND HYDROMETER



Gravel	Sand	Fines
1.4%	70.7%	28.0%

Lab #	Exploration	Sample Depth	Sample Date	Description	WC	LL	PL	PI
56	GZ-136	7-9'	8/5/13	Gray f-m SAND, some Silt, trace Gravel				

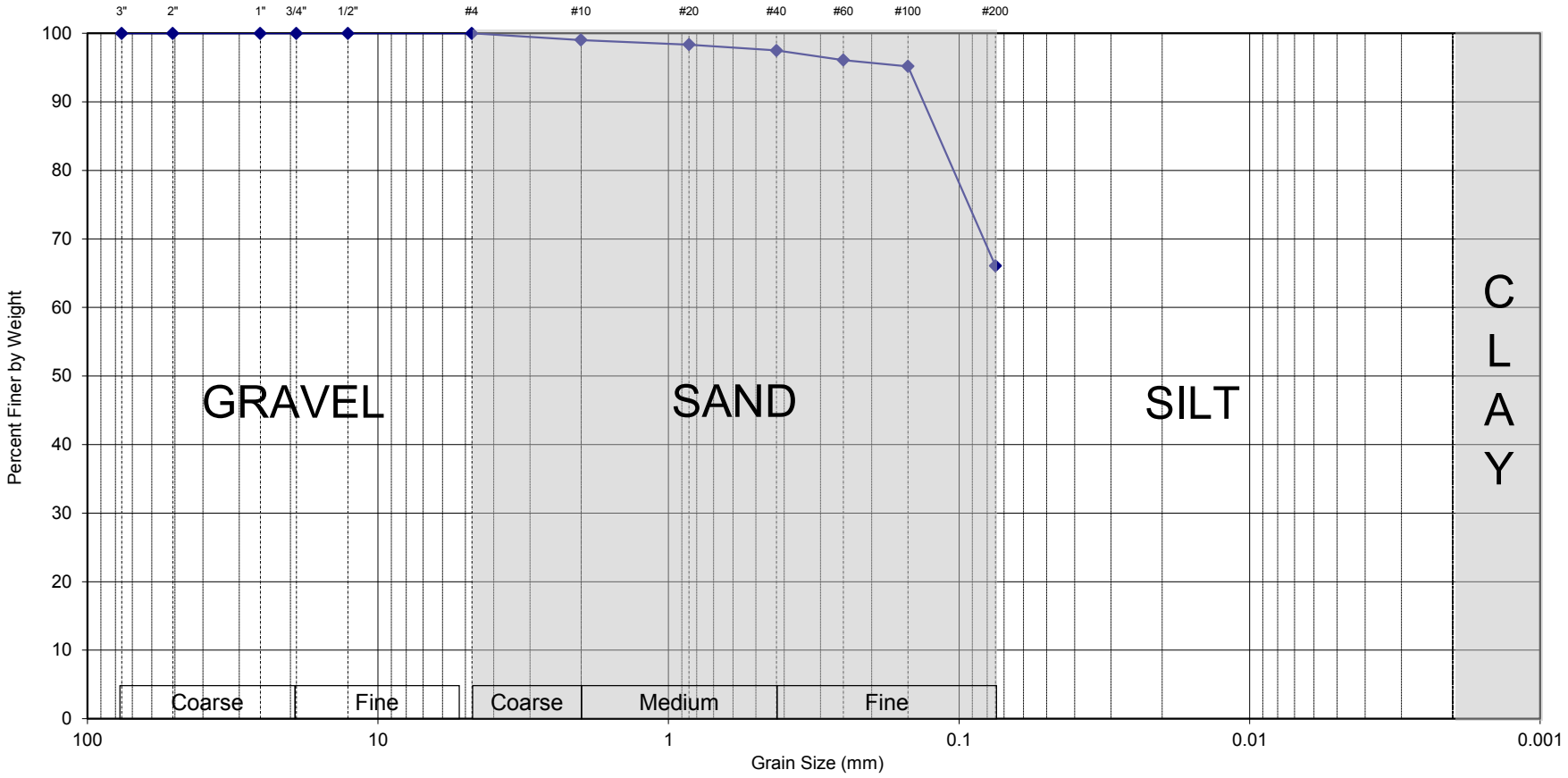
Sieve Size	% Passing
¾"	100.0
½"	100.0
#4	98.6
#10	96.6
#20	90.8
#40	81.3
#60	75.4
#100	69.3
#200	28.0

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U.S. STANDARD SIEVE AND HYDROMETER



Gravel	Sand	Fines
0.0%	33.9%	66.1%

Lab #	Exploration	Sample Depth	Sample Date	Description	WC	LL	PL	PI
57	GZ-137	0-2'	8/5/13	Gray Organic SILT, some fine Sand				

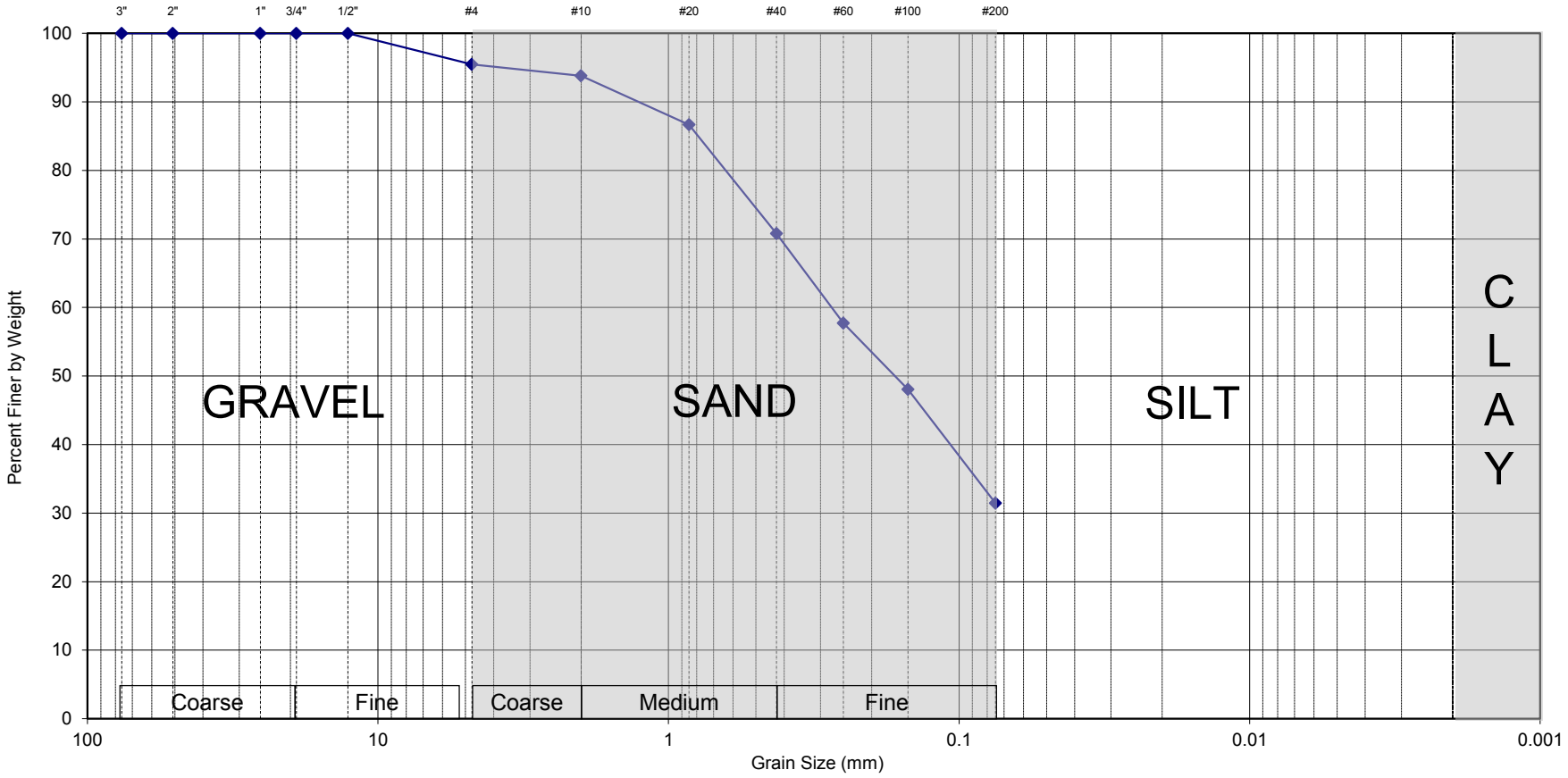
Sieve Size	% Passing
¾"	100.0
½"	100.0
#4	100.0
#10	99.0
#20	98.4
#40	97.5
#60	96.1
#100	95.2
#200	66.1

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U.S. STANDARD SIEVE AND HYDROMETER



Gravel	Sand	Fines
4.5%	64.0%	31.5%

Lab #	Exploration	Sample Depth	Sample Date	Description	WC	LL	PL	PI
58	GZ-137	3-5'	8/5/13	Gray f-m SAND, some Silt, trace Gravel				

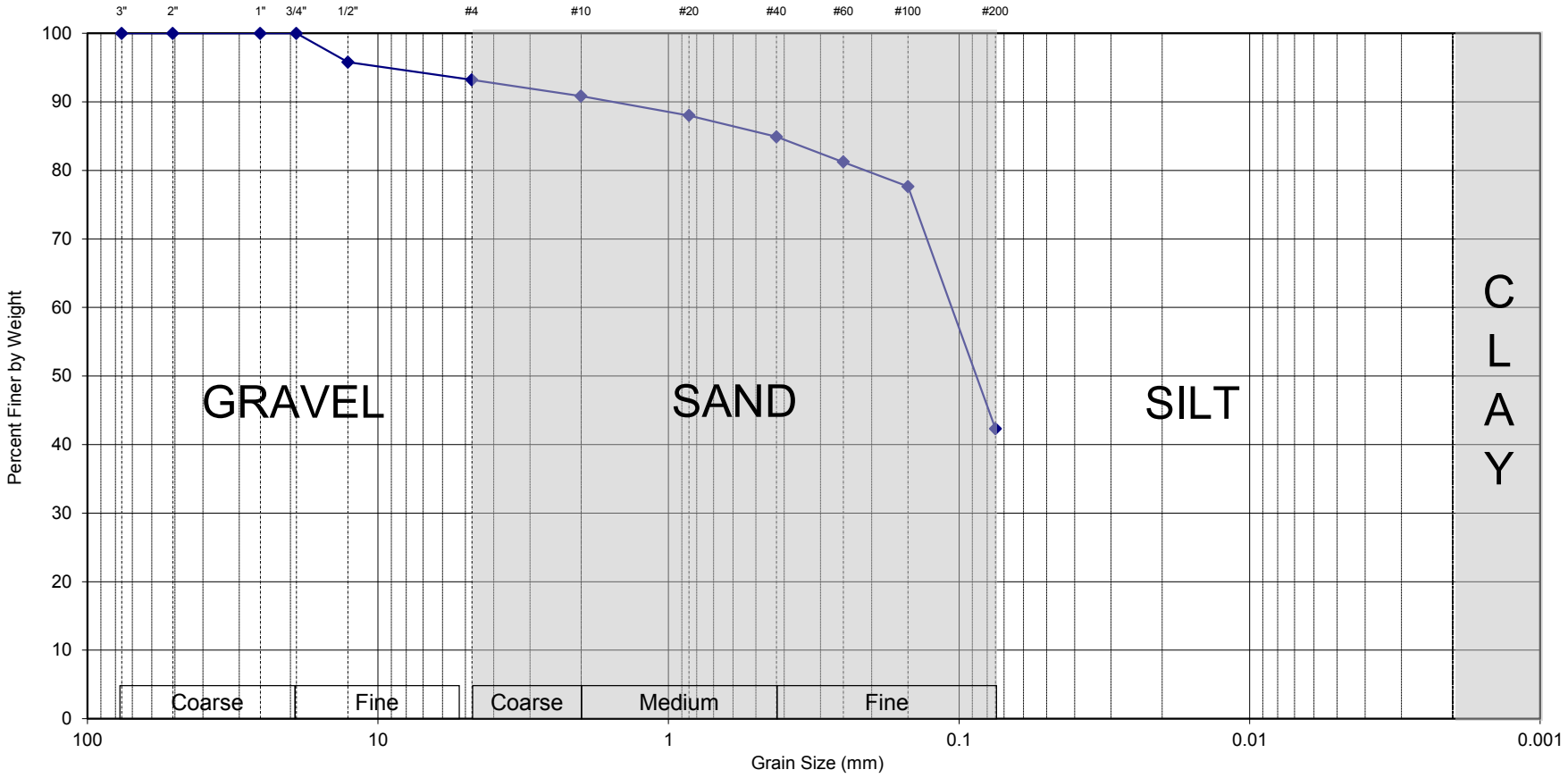
Sieve Size	% Passing
¾"	100.0
½"	100.0
#4	95.5
#10	93.8
#20	86.7
#40	70.8
#60	57.7
#100	48.0
#200	31.5

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CTS-74-13-0003
1 Horizon Way
Everett, MA
GZA File # 01.0171521.02

Tested by: LM Date: 8/19/13
Reviewed by: MBP Date: 8/19/13

U.S. STANDARD SIEVE AND HYDROMETER



Gravel	Sand	Fines
6.8%	50.9%	42.3%

Lab #	Exploration	Sample Depth	Sample Date	Description	WC	LL	PL	PI
59	GZ-133	0-2'	8/5/13	Dark brown f-m SAND and SILT, trace Gravel				

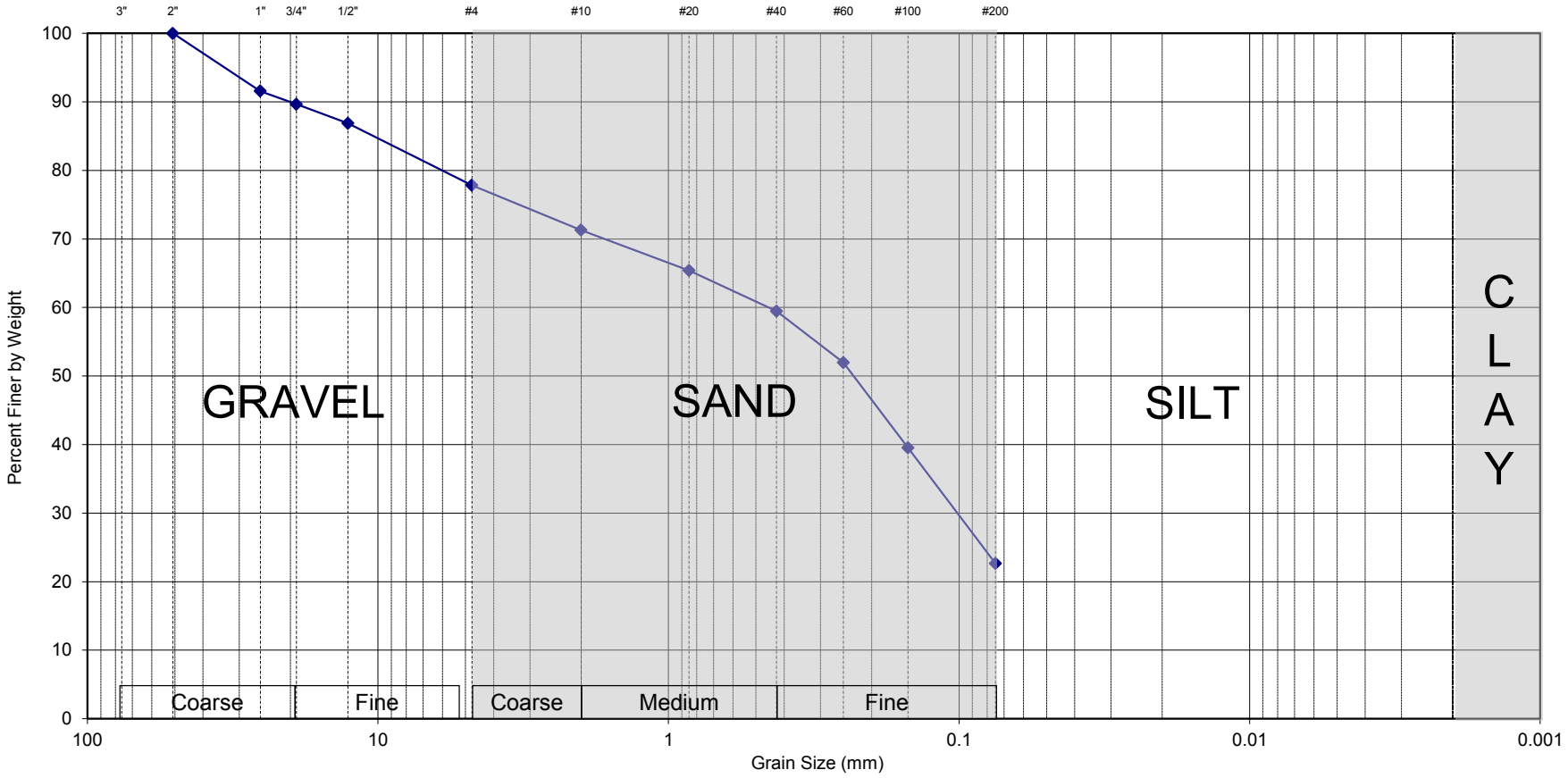
Sieve Size	% Passing
¾"	100.0
½"	95.8
#4	93.2
#10	90.8
#20	88.0
#40	84.9
#60	81.2
#100	77.6
#200	42.3

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U.S. STANDARD SIEVE AND HYDROMETER



Gravel	Sand	Fines
22.2%	55.2%	22.6%

Lab #	Exploration	Sample	Sample Date	Description	WC	LL	PL	PI
60	GZ-133	2-4'	8/5/13	Gray f-c SAND, some Silt, some f-c Gravel				

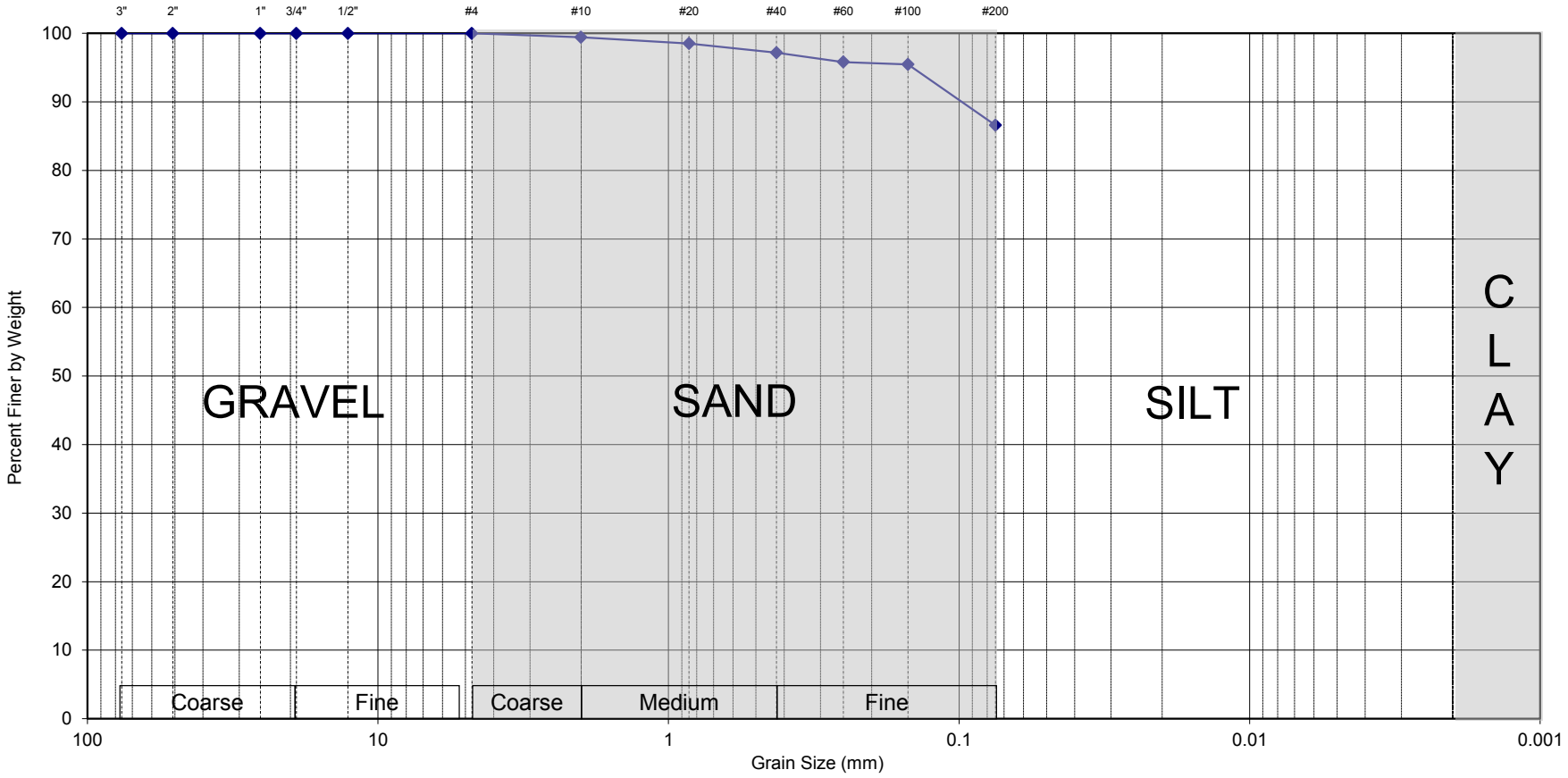
Sieve Size	% Passing
¾"	89.7
½"	86.9
#4	77.8
#10	71.3
#20	65.4
#40	59.5
#60	52.0
#100	39.5
#200	22.6

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195 Frances Ave., Cranston, RI 02109
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CTS-74-13-0003
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Tested by: LM/GG Date: 8/16/13
Reviewed by: MBP Date: 8/19/13

U.S. STANDARD SIEVE AND HYDROMETER



Gravel	Sand	Fines
0.0%	13.4%	86.6%

Lab #	Exploration	Sample Depth	Sample Date	Description	WC	LL	PL	PI
61	GZ-110B	2-6'	8/5/13	Gray Organic SILT, little f-m Sand				

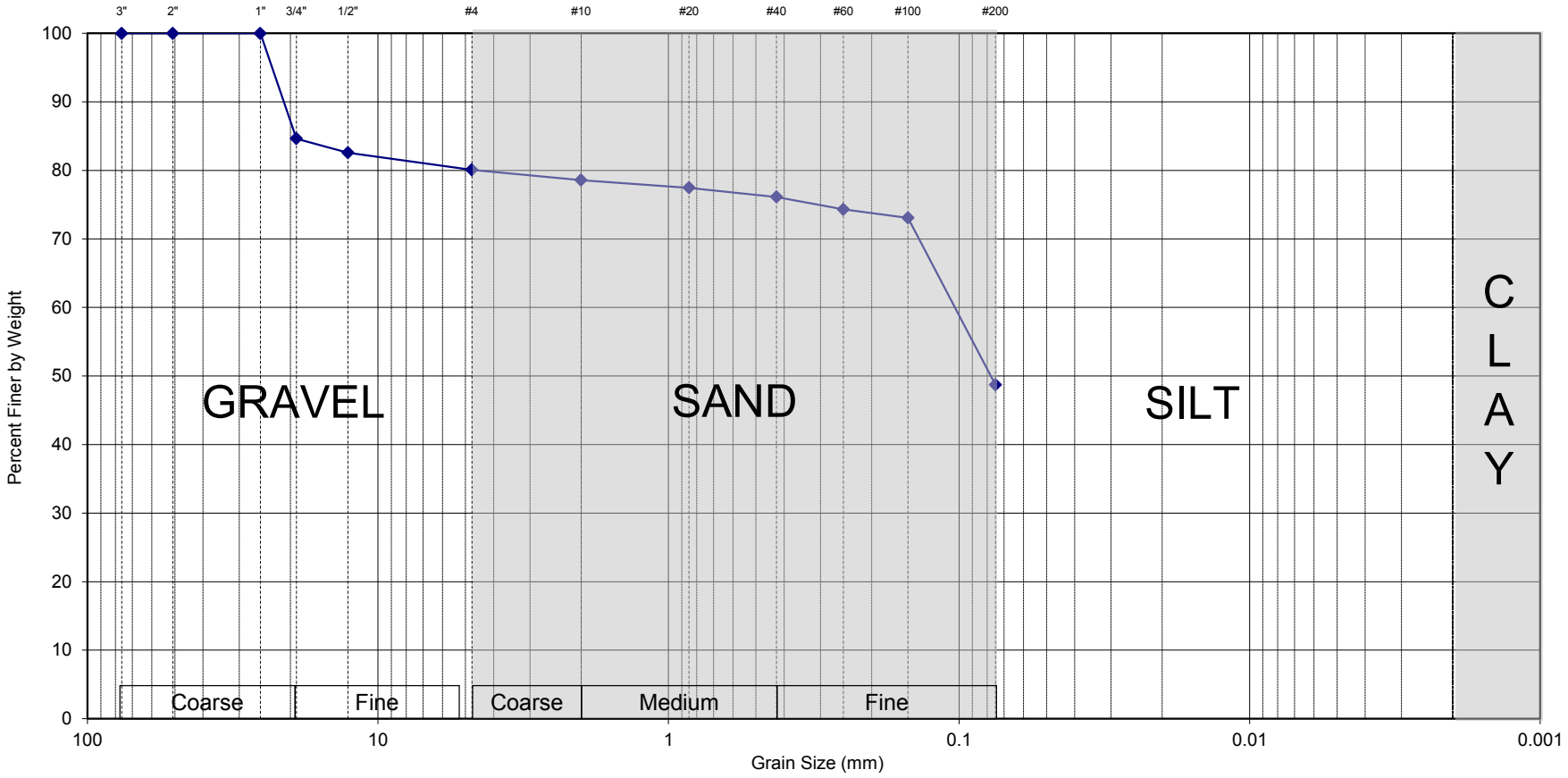
Sieve Size	% Passing
¾"	100.0
½"	100.0
#4	100.0
#10	99.4
#20	98.5
#40	97.2
#60	95.8
#100	95.5
#200	86.6

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195 Frances Ave., Cranston, RI 02910
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CTS-74-13-0003
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U.S. STANDARD SIEVE AND HYDROMETER



Gravel	Sand	Fines
19.9%	31.4%	48.7%

Lab #	Exploration	Sample Depth	Sample Date	Description	WC	LL	PL	PI
62	GZ-127	0-2'	8/5/13	Black & Gray Organic SILT, some f-m Sand, little f-c Gravel				

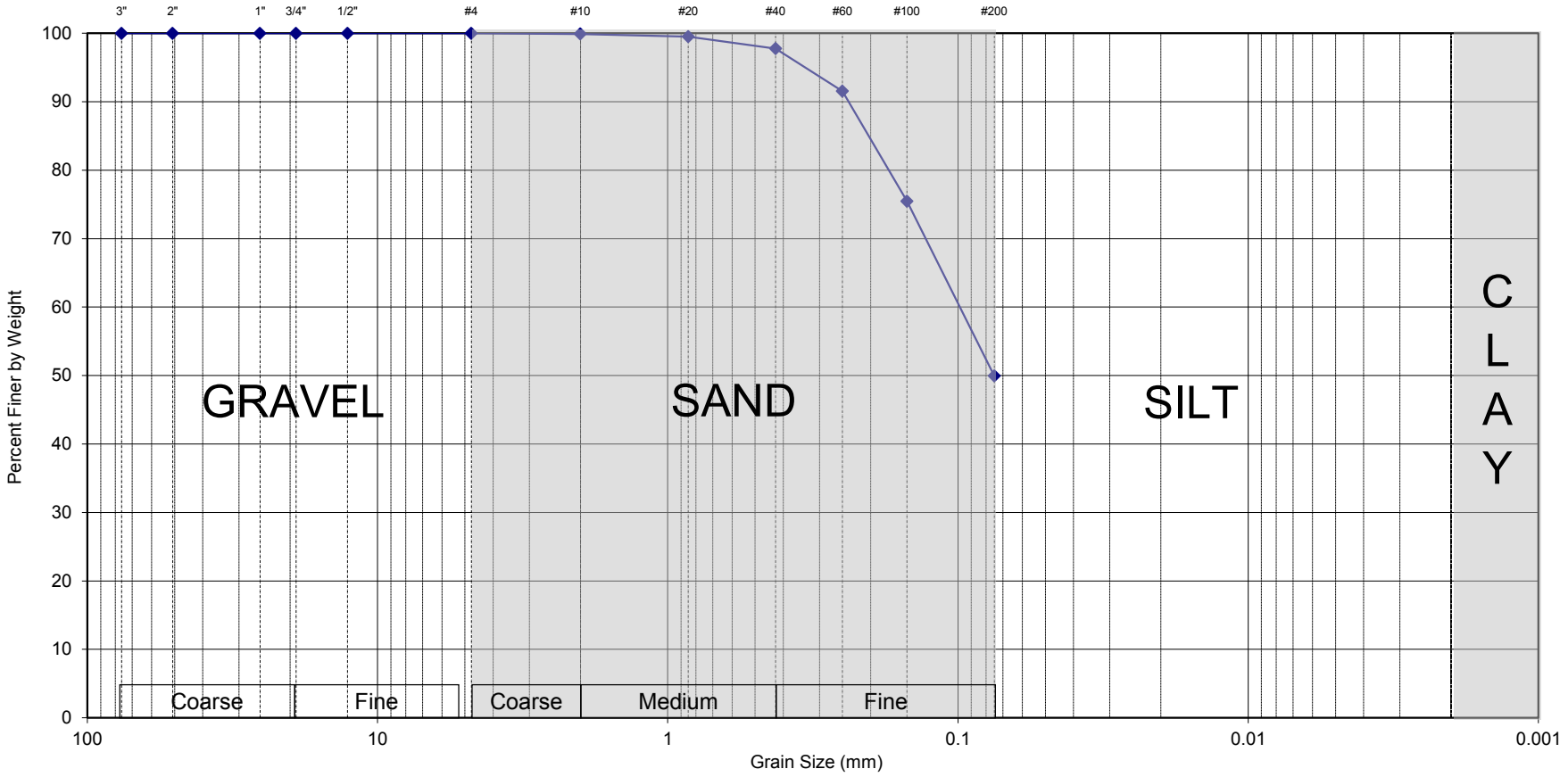
Sieve Size	% Passing
¾"	84.6
½"	82.6
#4	80.1
#10	78.6
#20	77.5
#40	76.1
#60	74.3
#100	73.1
#200	48.7

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CTS-74-13-0003
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U.S. STANDARD SIEVE AND HYDROMETER



Gravel	Sand	Fines
0.0%	50.1%	49.9%

Lab #	Exploration	Sample Depth	Sample Date	Description	WC	LL	PL	PI
63	GZ-127	3-5'	8/5/13	Brown-gray f-m SAND and SILT				

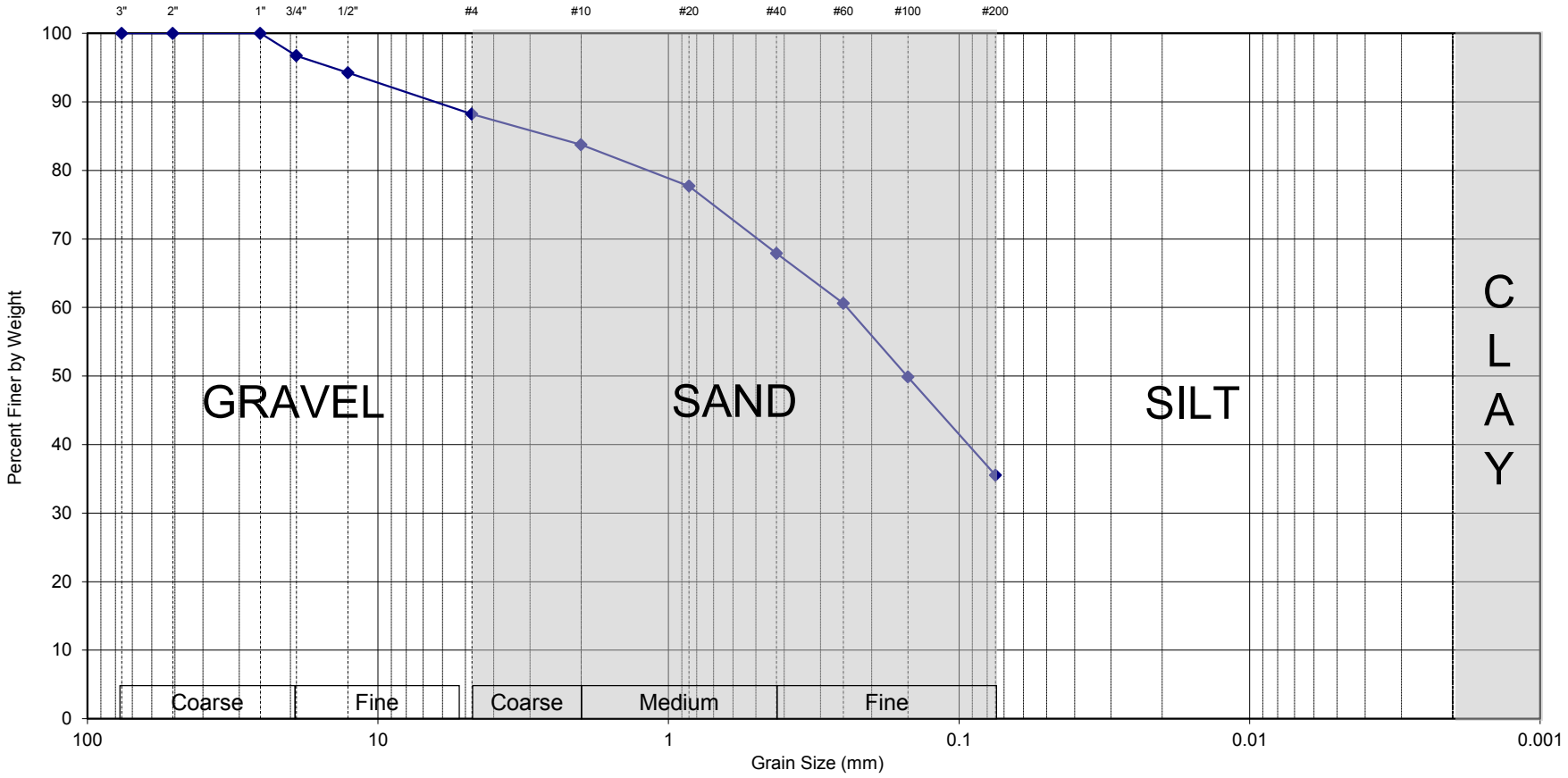
Sieve Size	% Passing
¾"	100.0
½"	100.0
#4	100.0
#10	99.9
#20	99.5
#40	97.8
#60	91.5
#100	75.5
#200	49.9

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401-467-6454

CTS-74-13-0003
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U.S. STANDARD SIEVE AND HYDROMETER



Gravel	Sand	Fines
11.8%	52.7%	35.5%

Lab #	Exploration	Sample Depth	Sample Date	Description	WC	LL	PL	PI
64	GZ-126	0-2'	8/5/13	Gray f-c SAND and SILT, little f-c Gravel				

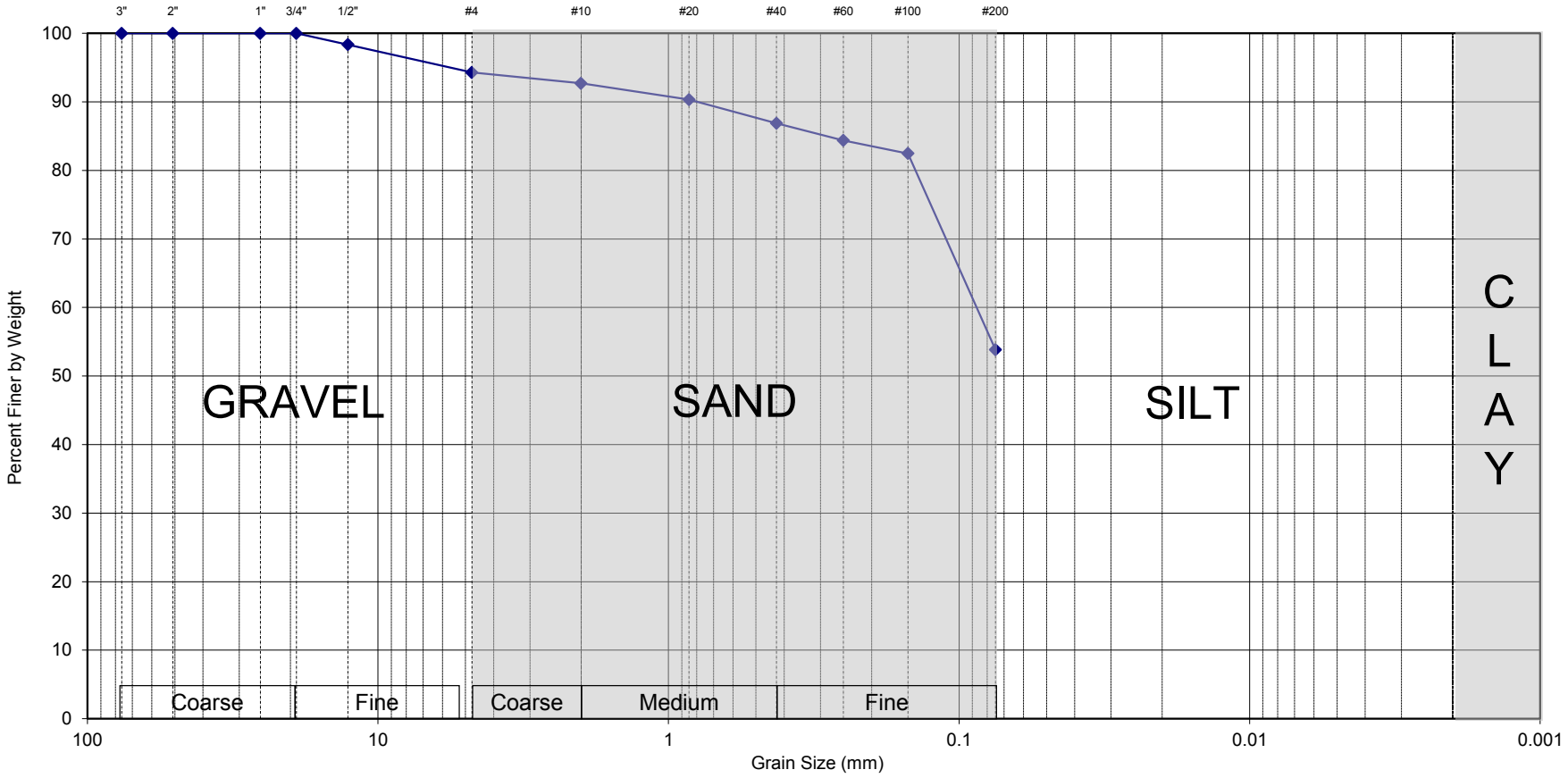
Sieve Size	% Passing
¾"	96.7
½"	94.2
#4	88.2
#10	83.7
#20	77.7
#40	67.9
#60	60.6
#100	49.9
#200	35.5

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U.S. STANDARD SIEVE AND HYDROMETER



Gravel	Sand	Fines
5.7%	40.5%	53.8%

Lab #	Exploration	Sample Depth	Sample Date	Description	WC	LL	PL	PI
65	GZ-126	2-4'	8/5/13	Gray SILT and f-m Sand, trace Gravel				

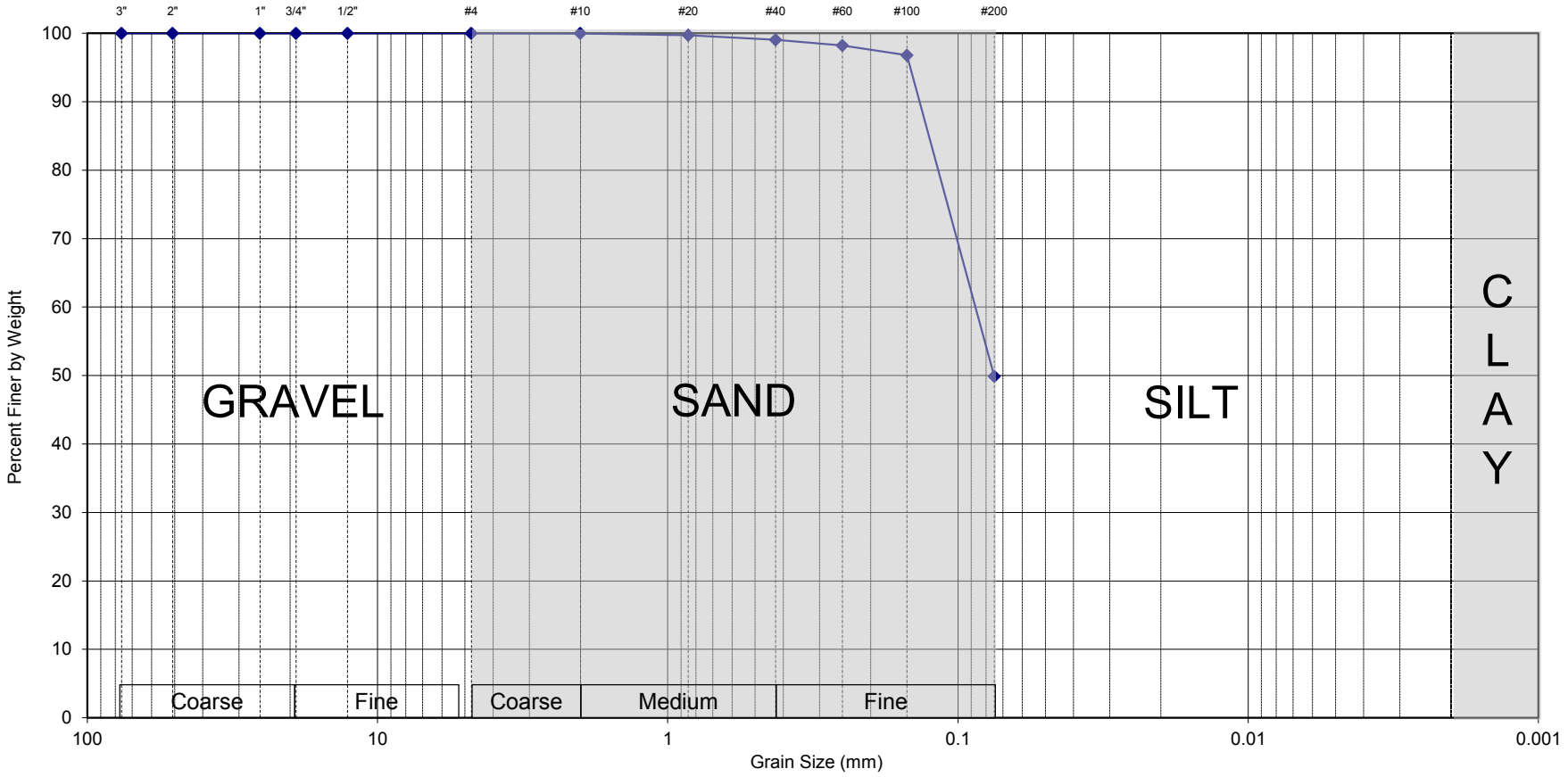
Sieve Size	% Passing
¾"	100.0
½"	98.4
#4	94.3
#10	92.7
#20	90.3
#40	86.9
#60	84.4
#100	82.5
#200	53.8

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U.S. STANDARD SIEVE AND HYDROMETER



Gravel	Sand	Fines
0.0%	50.2%	49.8%

Lab #	Exploration	Sample Depth	Sample Date	Description	WC	LL	PL	PI
66	GZ-125A	2-4'	8/5/13	Gray fine SAND and SILT				

Sieve Size	% Passing
¾"	100.0
½"	100.0
#4	100.0
#10	100.0
#20	99.7
#40	99.0
#60	98.2
#100	96.8
#200	49.8

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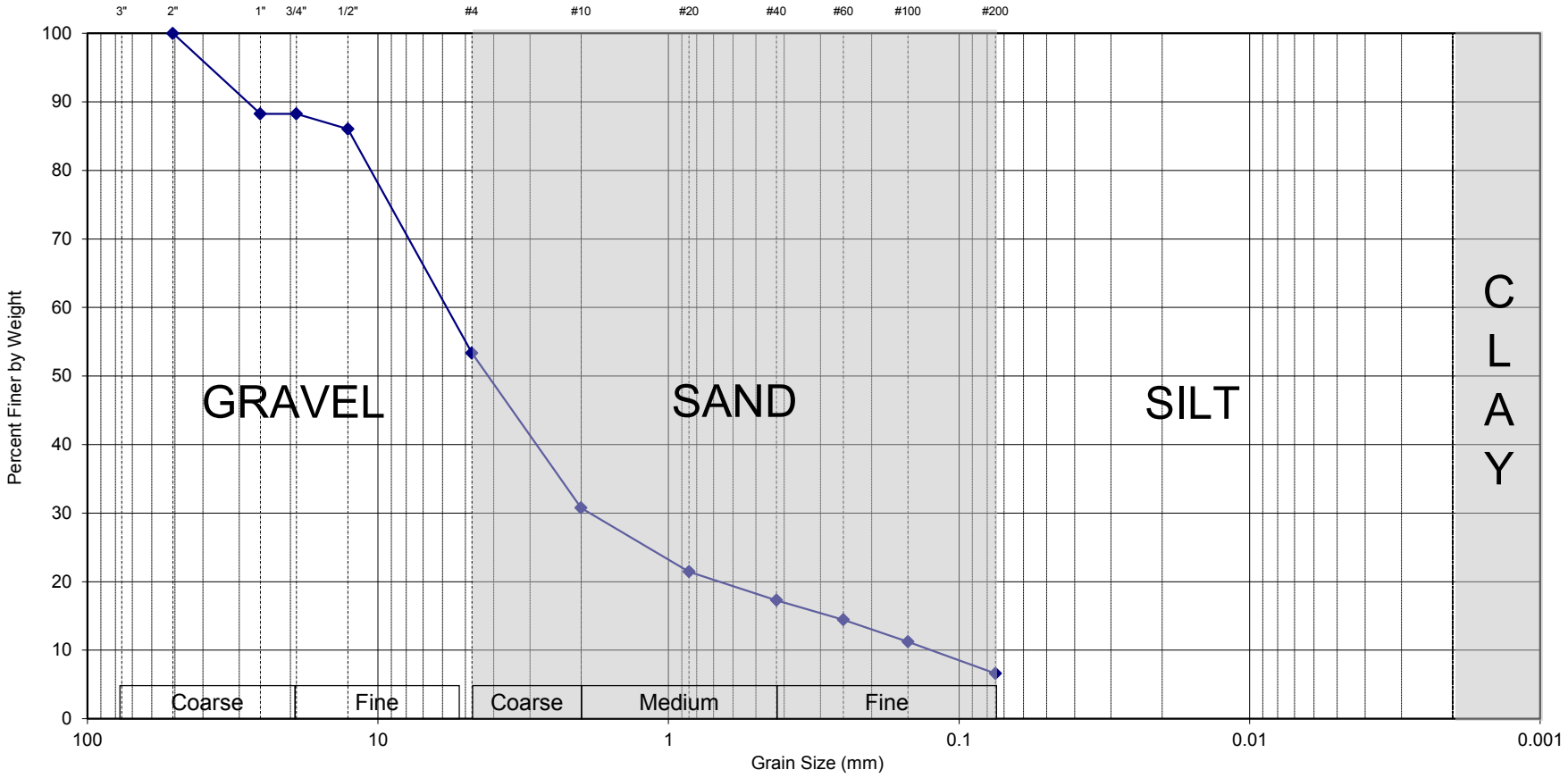
LABORATORY TESTING DATA SHEET

Project Name 1 Horizon Way
Project Location Everett, MA
Project No. 01.0171521.02
Report Date 8/20/2013
Project Engineer D. Leone
Date Reviewed 8/20/2013
Assigned By J. Chrzanowski
Reviewed By

Boring/ Test Pit No.	Depth (ft)	Sample Time	Lab No.	Identification Tests							Laboratory Log and Soil Description
				Water Content %	LL %	PL %	Sieve -200 %	Hyd -2μ %	Gs	ORG %	
GZ-118A	0-1	8/5/13	67				6.6				Brown f-c SAND and f-c GRAVEL, trace Silt
GZ-132	0-2	8/5/13	68				44.0				Black f-c SAND and SILT, little fine Gravel
GZ-LC1	2-4	8/5/13	69				85.4				Gray Organic SILT, little fine Sand
GZ-LC2	1-3	8/5/13	70				97.7				Black Organic SILT, trace Sand
GZ-LC3	0-3	8/5/13	71				56.3				Black Organic SILT and f-m SAND, trace Gravel
GZ-LC3	3-5	8/5/13	72				52.6				Black Organic SILT and f-m SAND, trace Gravel
GZ-LC4	0-2	8/5/13	73				82.5				Black Organic SILT, little f-m Sand
GZ-LC4	3-5	8/5/13	74				89.0				Black Organic SILT, little fine Sand
GZ-LC5	2-4	8/5/13	75				56.7				Black Organic SILT and f-m SAND, trace Gravel
GZ-LC6	1-3	8/5/13	76				99.4				Dark Gray Organic SILT
GZ-LC7	0-3	8/5/13	77				98.7				Black Organic SILT, trace Sand
GZ-LC8	2-4	8/5/13	78				99.0				Black Organic SILT, trace Sand
GZ-LC9	1-3	8/5/13	79				94.0				Gray Organic SILT, trace Sand
GZ-LC10	2-3	8/5/13	80				74.0				Gray Organic SILT, some fine Sand

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401-467-6454

U.S. STANDARD SIEVE AND HYDROMETER



Gravel	Sand	Fines
46.7%	46.7%	6.6%

Lab #	Exploration	Sample	Sample Date	Description	WC	LL	PL	PI
67	GZ-118A	0-1'	8/5/13	Brown f-c SAND and f-c GRAVEL, trace Silt				

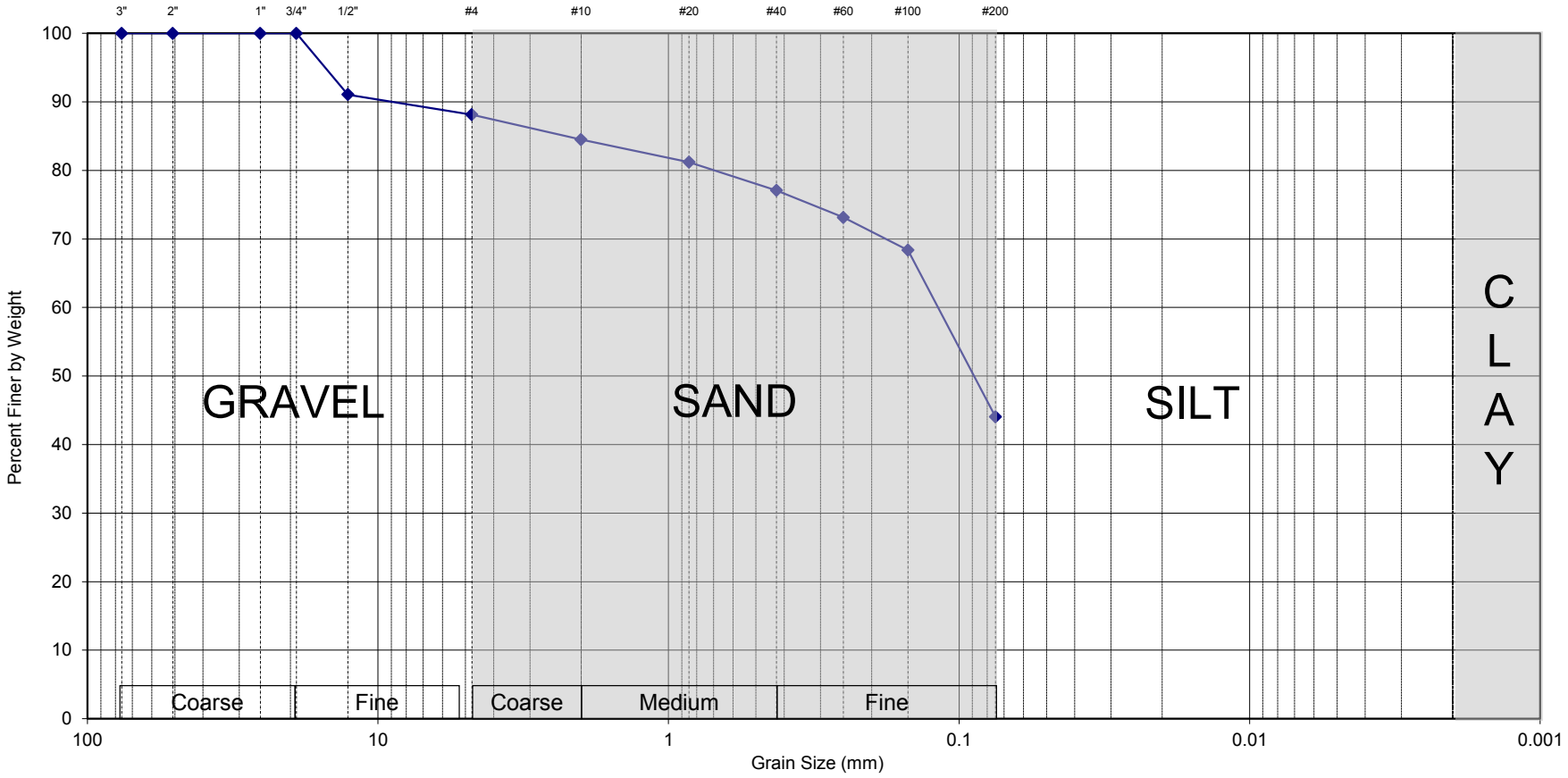
Sieve Size	% Passing
¾"	88.2
½"	86.1
#4	53.3
#10	30.8
#20	21.5
#40	17.3
#60	14.4
#100	11.2
#200	6.6

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U.S. STANDARD SIEVE AND HYDROMETER



Gravel	Sand	Fines
11.9%	44.1%	44.0%

Lab #	Exploration	Sample Depth	Sample Date	Description	WC	LL	PL	PI
68	GZ-132	0-2'	8/5/13	Black f-c SAND and SILT, little fine Gravel				

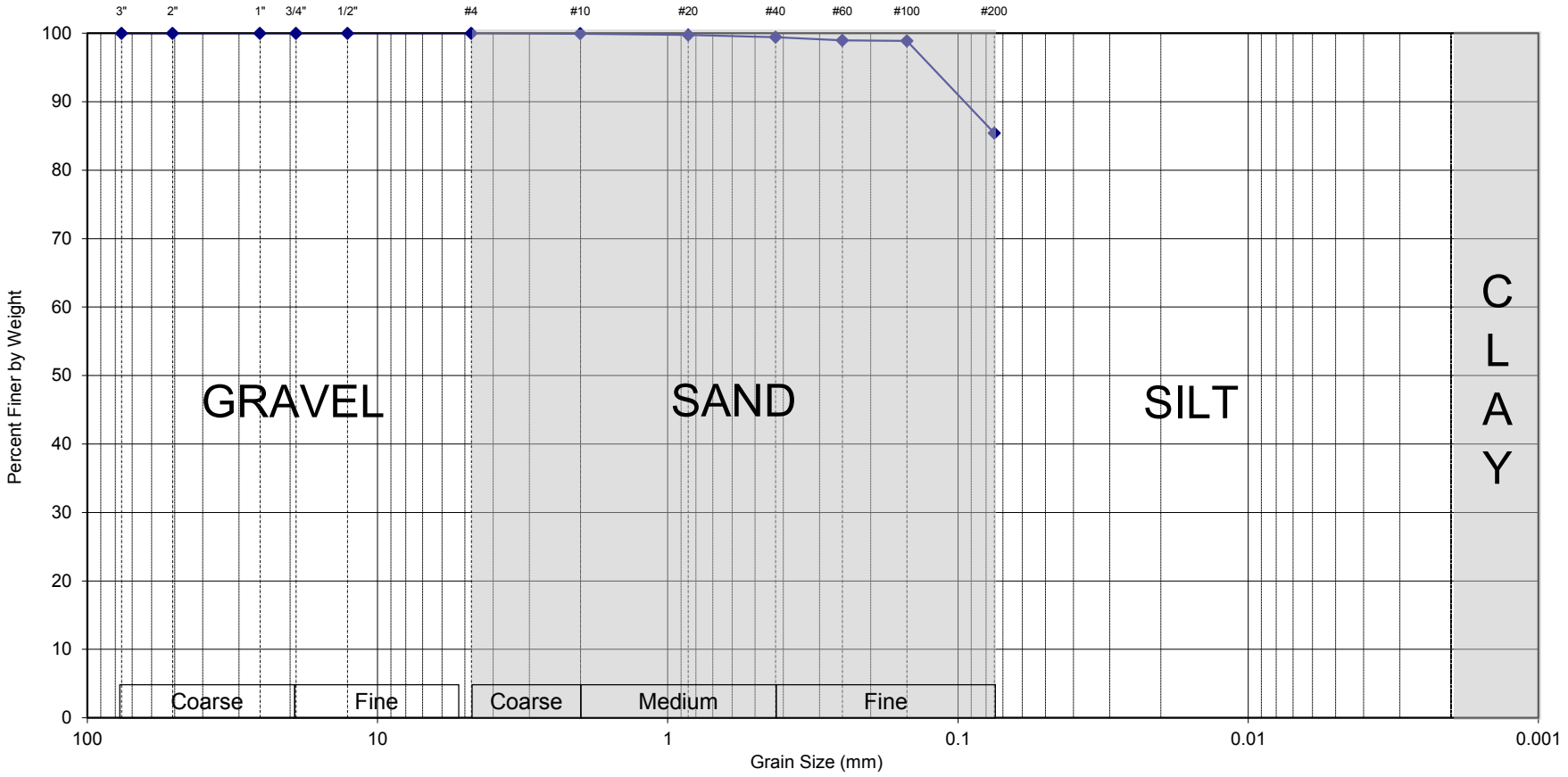
Sieve Size	% Passing
¾"	100.0
½"	91.1
#4	88.1
#10	84.5
#20	81.2
#40	77.1
#60	73.1
#100	68.4
#200	44.0

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401-467-6454

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U.S. STANDARD SIEVE AND HYDROMETER



Gravel	Sand	Fines
0.0%	14.6%	85.4%

Lab #	Exploration	Sample Depth	Sample Date	Description	WC	LL	PL	PI
69	GZ-LC1	2-4'	8/5/13	Gray Organic SILT, little fine Sand				

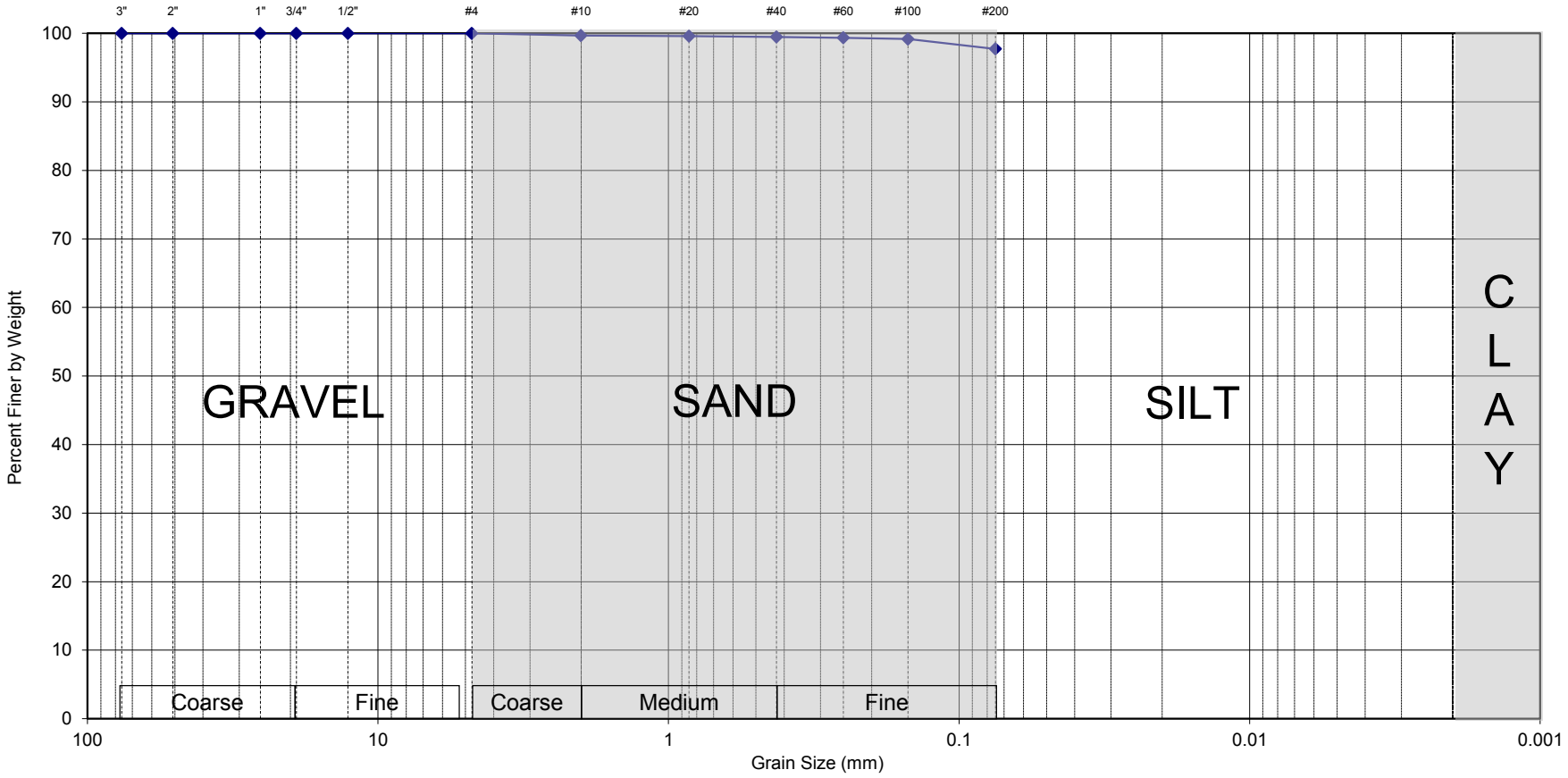
Sieve Size	% Passing
¾"	100.0
½"	100.0
#4	100.0
#10	99.9
#20	99.8
#40	99.4
#60	98.9
#100	98.9
#200	85.4

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U.S. STANDARD SIEVE AND HYDROMETER



Gravel	Sand	Fines
0.0%	2.3%	97.7%

Lab #	Exploration	Sample Depth	Sample Date	Description	WC	LL	PL	PI
70	GZ-LC2	1-3'	8/5/13	Black Organic SILT, trace Sand				

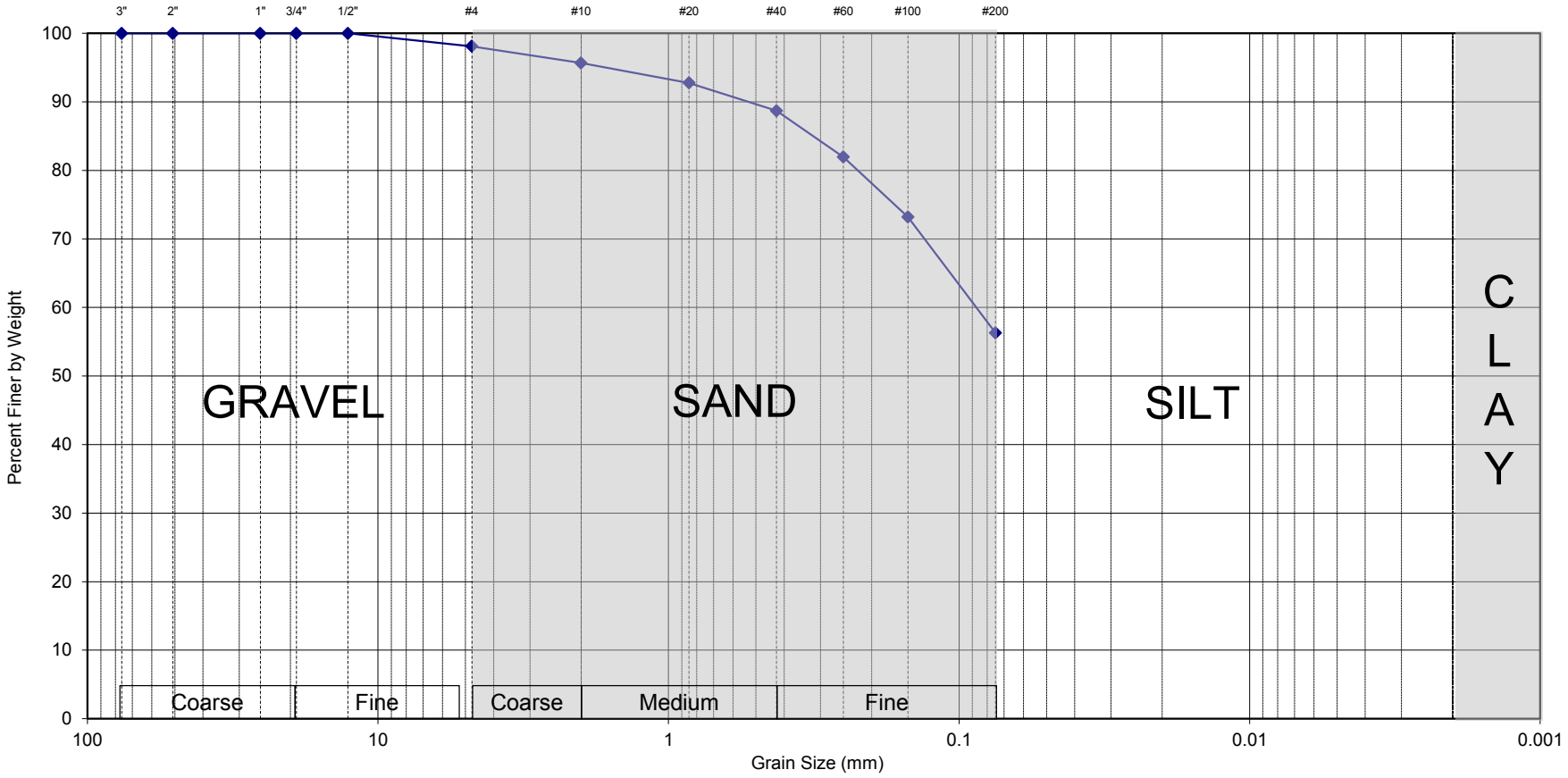
Sieve Size	% Passing
¾"	100.0
½"	100.0
#4	100.0
#10	99.7
#20	99.6
#40	99.5
#60	99.4
#100	99.2
#200	97.7

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U.S. STANDARD SIEVE AND HYDROMETER



Gravel	Sand	Fines
1.9%	41.8%	56.3%

Lab #	Exploration	Sample Depth	Sample Date	Description	WC	LL	PL	PI
71	GZ-LC3	0-3'	8/5/13	Black Organic SILT and f-m SAND, trace Gravel				

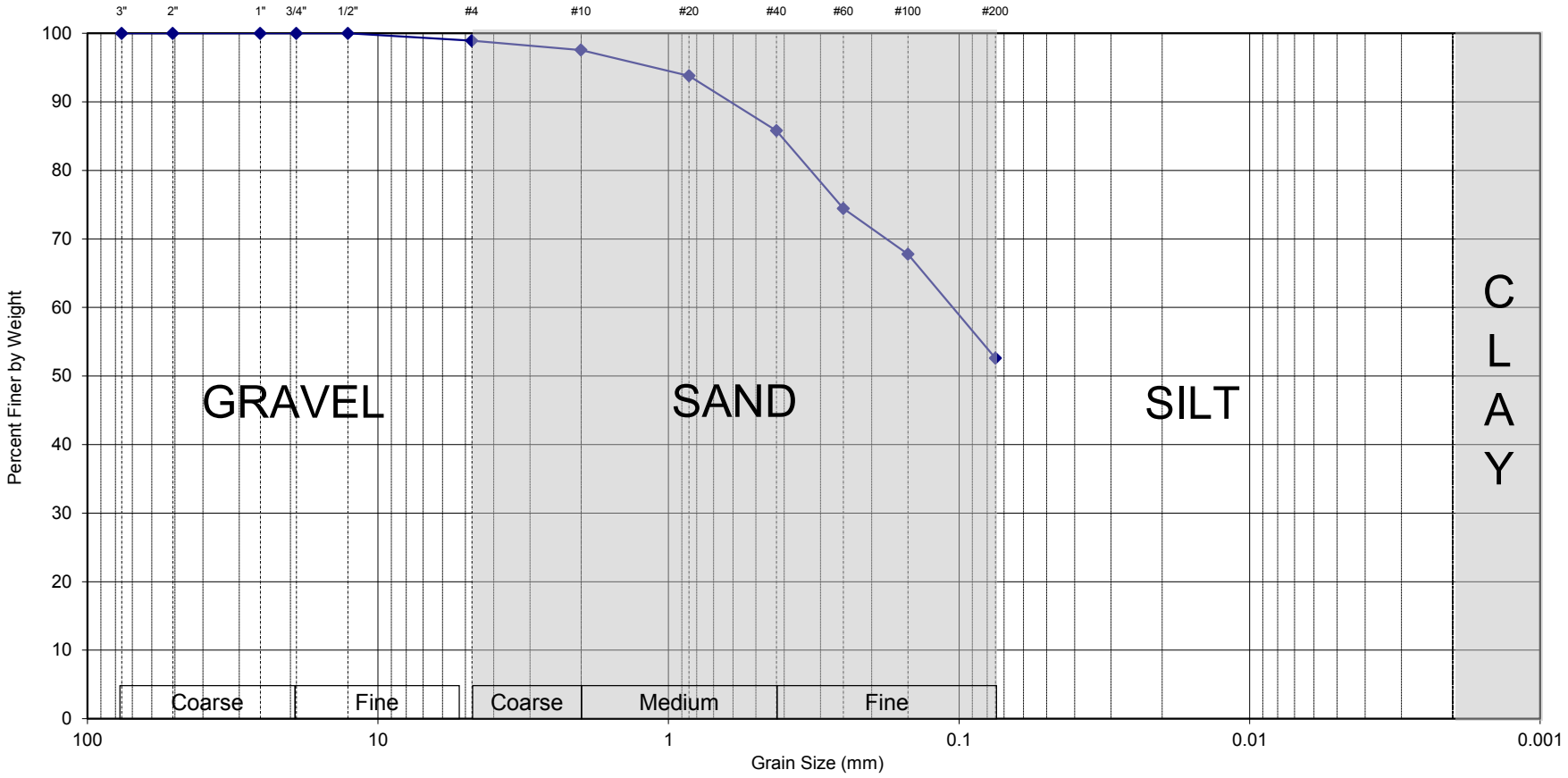
Sieve Size	% Passing
¾"	100.0
½"	100.0
#4	98.1
#10	95.7
#20	92.8
#40	88.7
#60	81.9
#100	73.2
#200	56.3

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U.S. STANDARD SIEVE AND HYDROMETER



Gravel	Sand	Fines
1.1%	46.3%	52.6%

Lab #	Exploration	Sample Depth	Sample Date	Description	WC	LL	PL	PI
72	GZ-LC4	3-5'	8/5/13	Black Organic SILT and f-m SAND, trace Gravel				

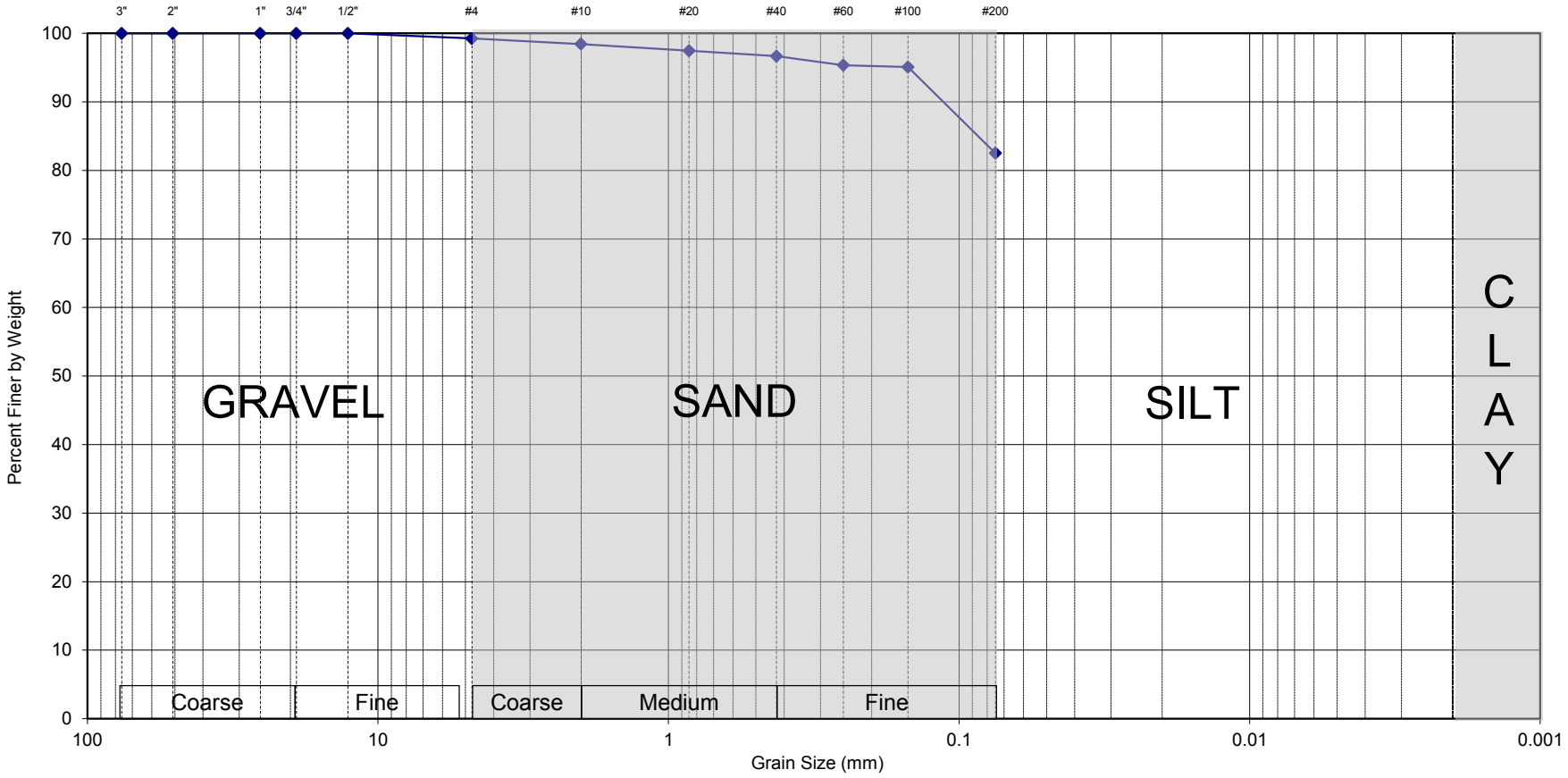
Sieve Size	% Passing
¾"	100.0
½"	100.0
#4	98.9
#10	97.6
#20	93.8
#40	85.8
#60	74.4
#100	67.8
#200	52.6

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U.S. STANDARD SIEVE AND HYDROMETER



Gravel	Sand	Fines
0.8%	16.8%	82.5%

Lab #	Exploration	Sample Depth	Sample Date	Description	WC	LL	PL	PI
73	GZ-LC4	0-2'	8/5/13	Black Organic SILT, little f-m Sand				

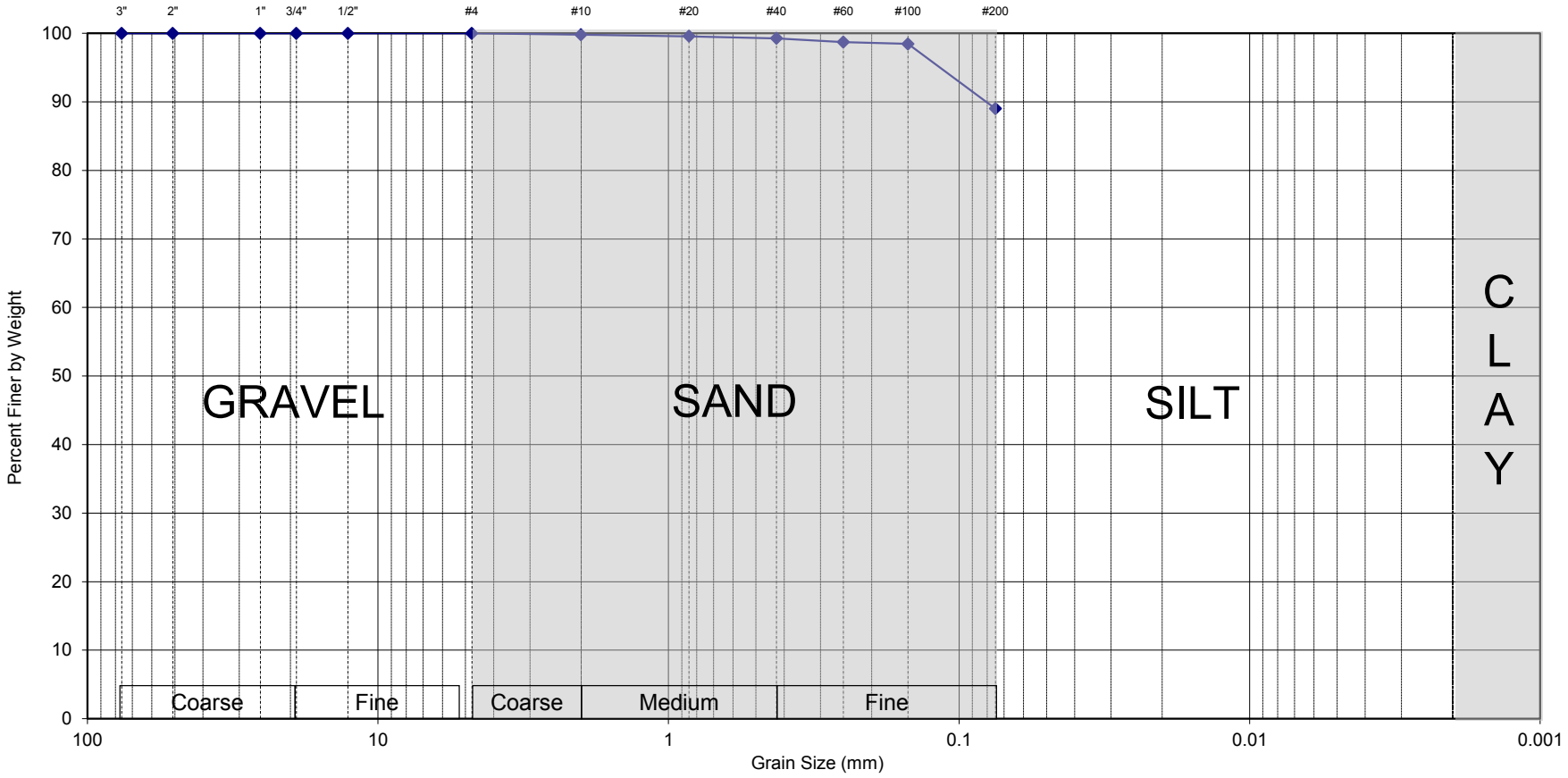
Sieve Size	% Passing
¾"	100.0
½"	100.0
#4	99.2
#10	98.4
#20	97.5
#40	96.7
#60	95.3
#100	95.1
#200	82.5

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U.S. STANDARD SIEVE AND HYDROMETER



Gravel	Sand	Fines
0.0%	11.0%	89.0%

Lab #	Exploration	Sample Depth	Sample Date	Description	WC	LL	PL	PI
74	GZ-LC4	3-5'	8/5/13	Black Organic SILT, little fine Sand				

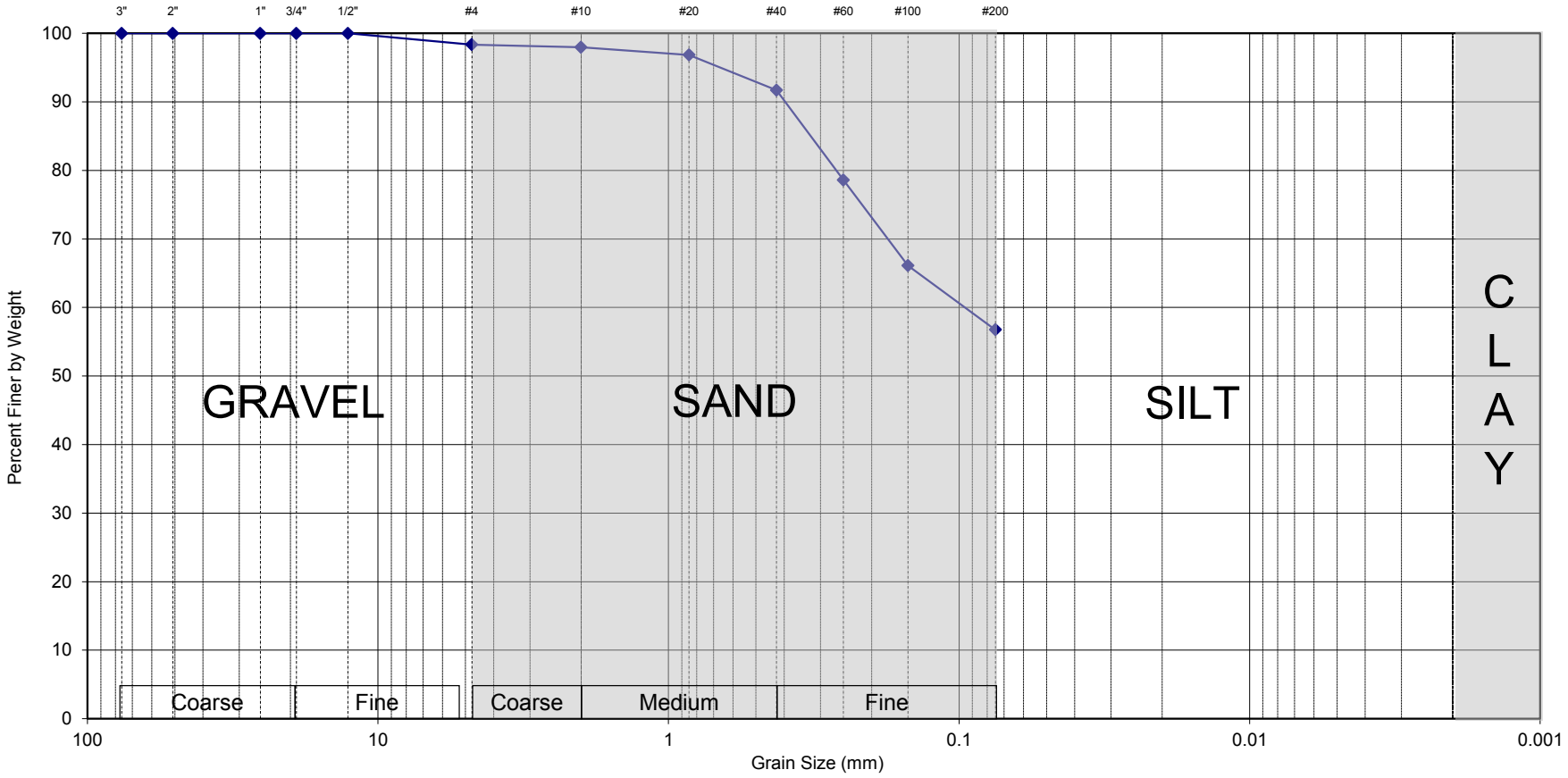
Sieve Size	% Passing
¾"	100.0
½"	100.0
#4	100.0
#10	99.8
#20	99.6
#40	99.3
#60	98.7
#100	98.4
#200	89.0

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U.S. STANDARD SIEVE AND HYDROMETER



Gravel	Sand	Fines
1.6%	41.6%	56.7%

Lab #	Exploration	Sample Depth	Sample Date	Description	WC	LL	PL	PI
75	GZ-LC5	2-4'	8/5/13	Black Organic SILT and f-m SAND, trace Gravel				

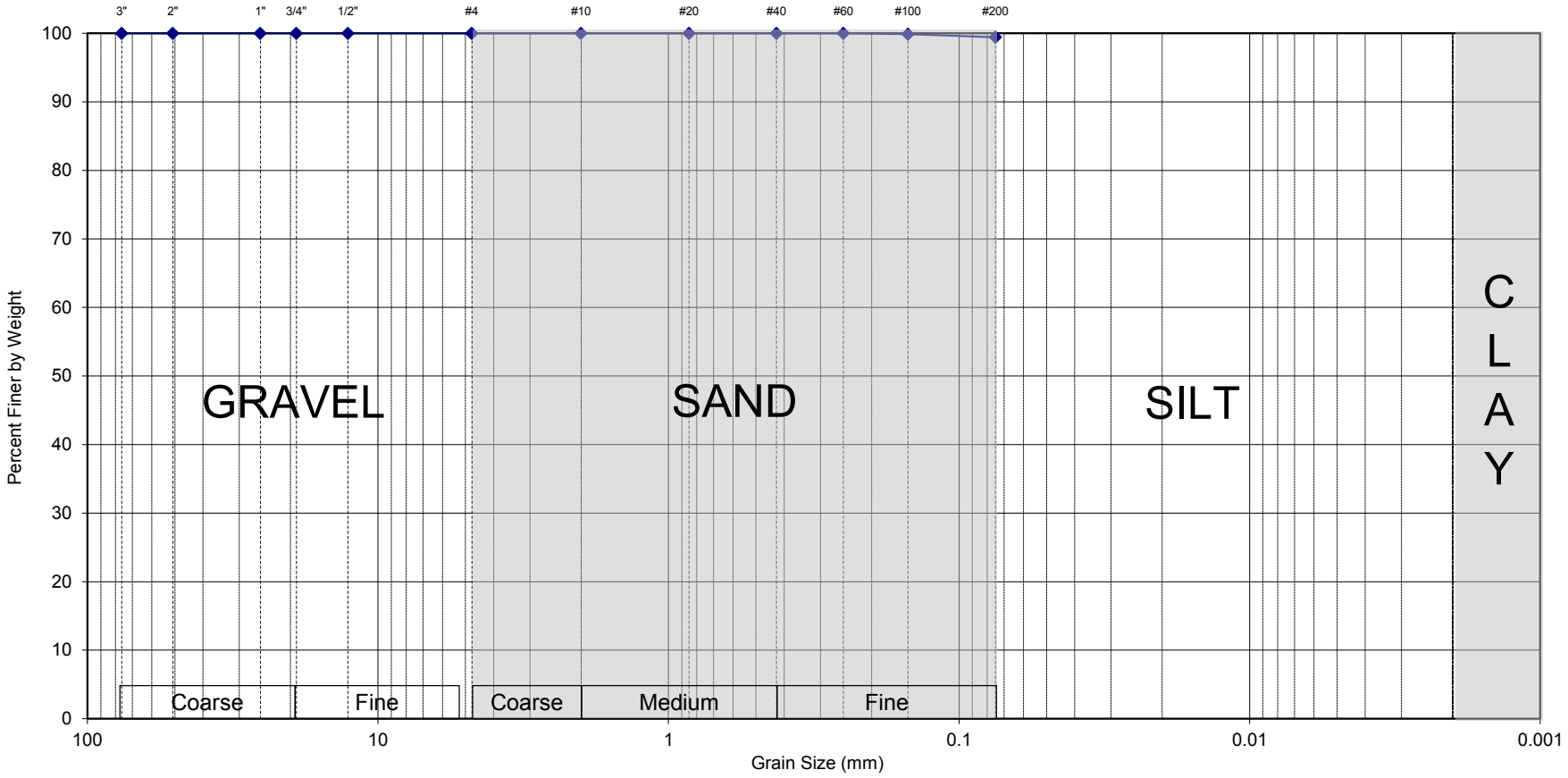
Sieve Size	% Passing
¾"	100.0
½"	100.0
#4	98.4
#10	98.0
#20	96.9
#40	91.7
#60	78.6
#100	66.1
#200	56.7

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U.S. STANDARD SIEVE AND HYDROMETER



Gravel	Sand	Fines
0.0%	0.6%	99.4%

Lab #	Exploration	Sample Depth	Sample Date	Description	WC	LL	PL	PI
76	GZ-LC6	1-3'	8/5/13	Dark Gray Organic SILT				

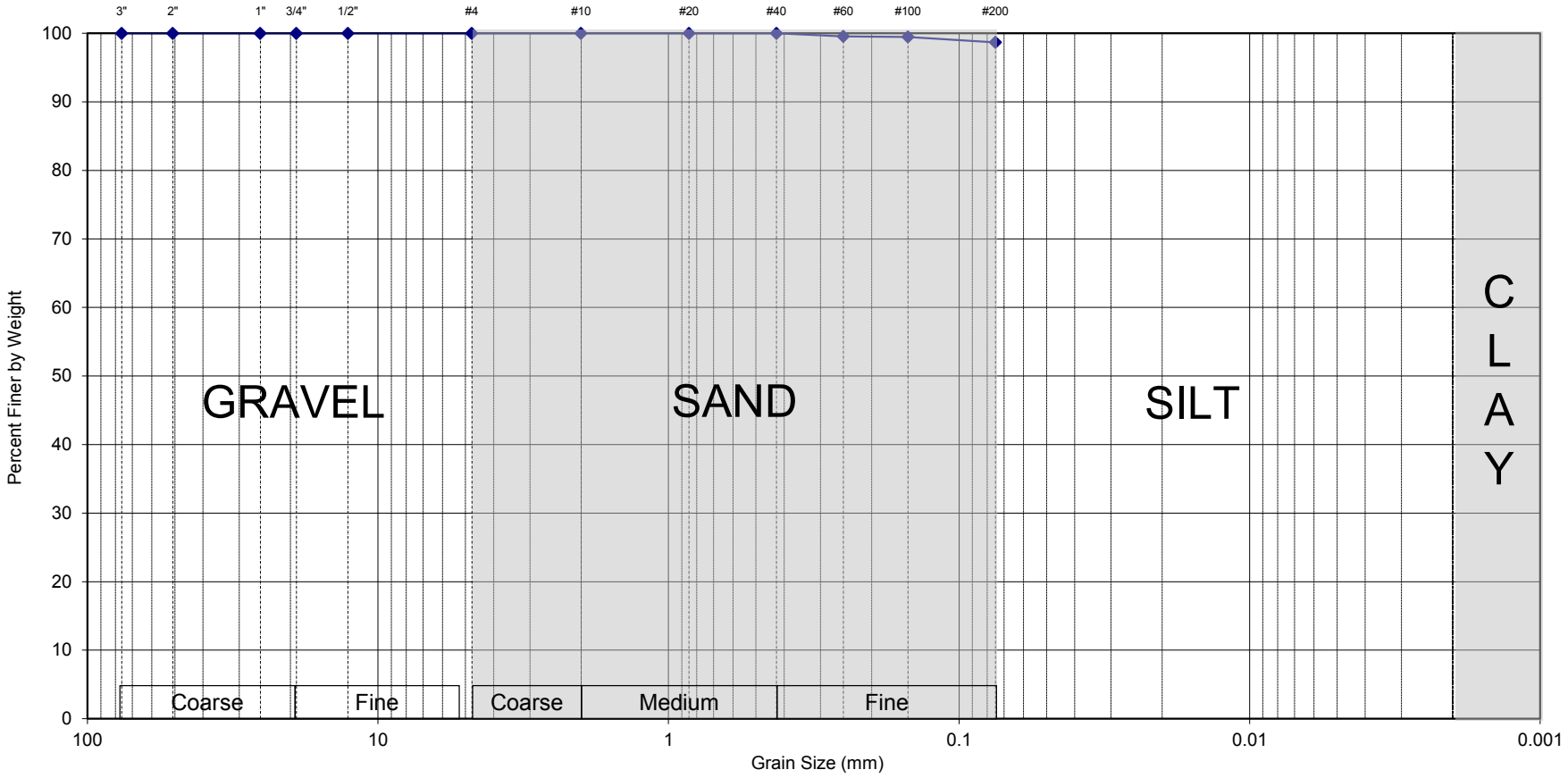
Sieve Size	% Passing
¾"	100.0
½"	100.0
#4	100.0
#10	100.0
#20	100.0
#40	100.0
#60	100.0
#100	99.9
#200	99.4

THIELSCH ENGINEERING
195 Frances Ave., Cranston, RI 02910
401-467-6454

CTS-74-13-0003
1 Horizon Way
Everett, MA
GZA File # 01.0171521.02

Tested by: LM Date: 8/20/13
Reviewed by: MBP Date: 8/20/13

U.S. STANDARD SIEVE AND HYDROMETER



Gravel	Sand	Fines
0.0%	1.3%	98.7%

Lab #	Exploration	Sample Depth	Sample Date	Description	WC	LL	PL	PI
77	GZ-LC7	0-3'	8/5/13	Black Organic SILT, trace Sand				

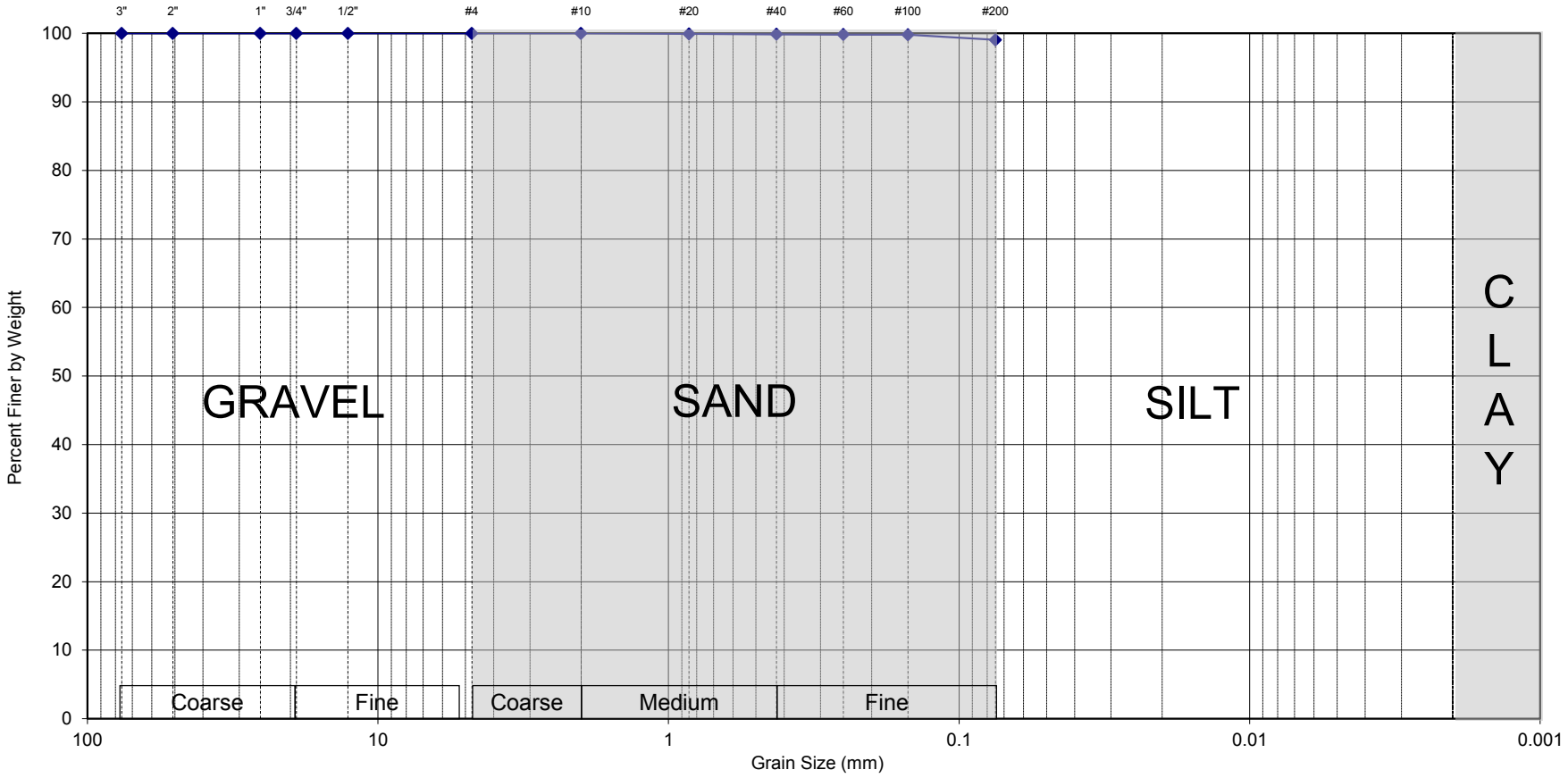
Sieve Size	% Passing
¾"	100.0
½"	100.0
#4	100.0
#10	100.0
#20	100.0
#40	100.0
#60	99.5
#100	99.5
#200	98.7

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U.S. STANDARD SIEVE AND HYDROMETER



Gravel	Sand	Fines
0.0%	1.0%	99.0%

Lab #	Exploration	Sample Depth	Sample Date	Description	WC	LL	PL	PI
78	GZ-LC8	2-4'	8/5/13	Black Organic SILT, trace Sand				

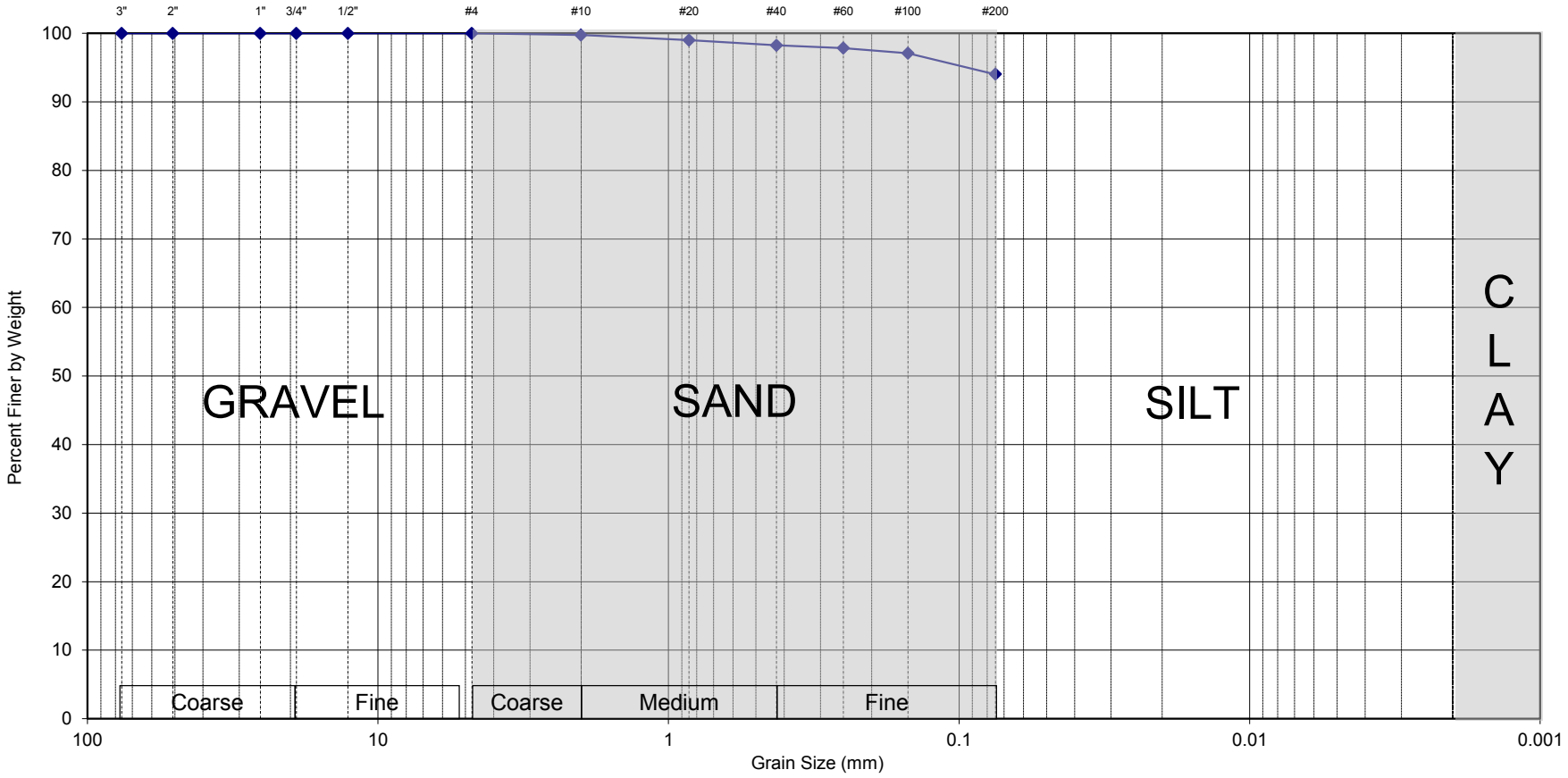
Sieve Size	% Passing
¾"	100.0
½"	100.0
#4	100.0
#10	100.0
#20	99.9
#40	99.9
#60	99.8
#100	99.8
#200	99.0

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U.S. STANDARD SIEVE AND HYDROMETER



Gravel	Sand	Fines
0.0%	6.0%	94.0%

Lab #	Exploration	Sample Depth	Sample Date	Description	WC	LL	PL	PI
79	GZ-LC9	1-3'	8/5/13	Gray Organic SILT, trace Sand				

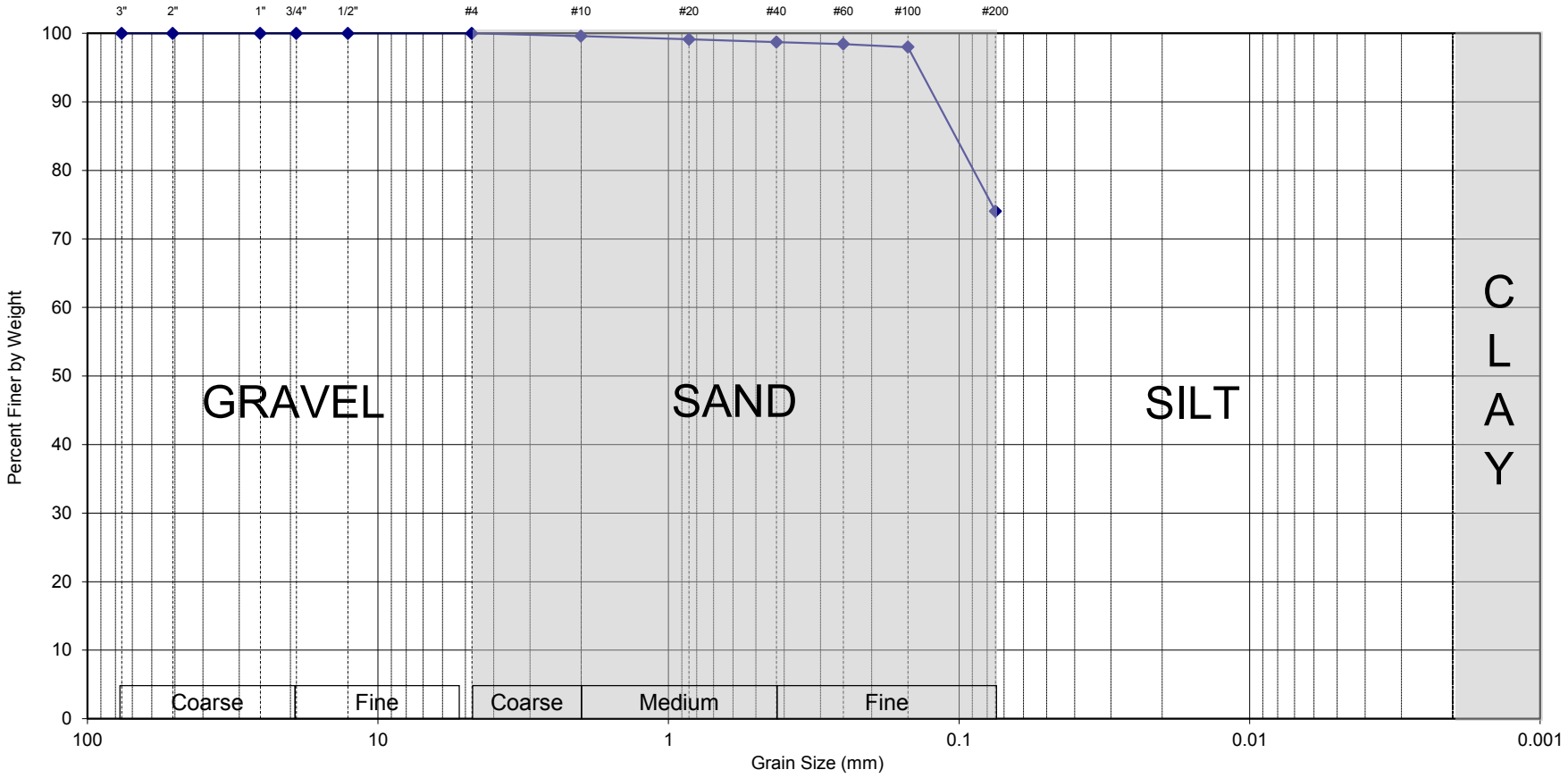
Sieve Size	% Passing
¾"	100.0
½"	100.0
#4	100.0
#10	99.7
#20	99.0
#40	98.3
#60	97.9
#100	97.1
#200	94.0

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U.S. STANDARD SIEVE AND HYDROMETER



Gravel	Sand	Fines
0.0%	26.0%	74.0%

Lab #	Exploration	Sample Depth	Sample Date	Description	WC	LL	PL	PI
80	GZ-LC10	2-3'	8/5/13	Gray Organic SILT, some fine Sand				

Sieve Size	% Passing
¾"	100.0
½"	100.0
#4	100.0
#10	99.6
#20	99.1
#40	98.7
#60	98.4
#100	98.0
#200	74.0

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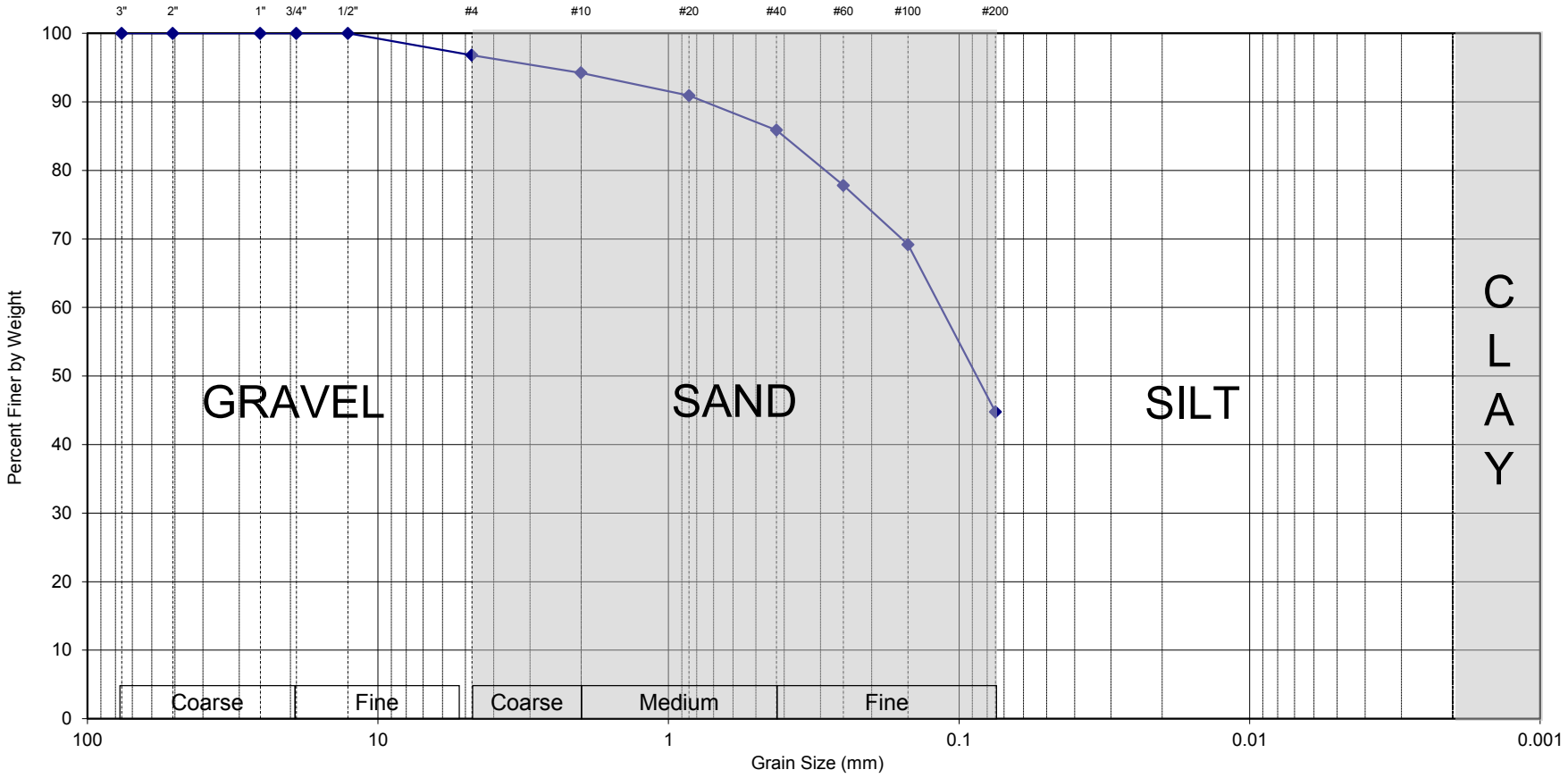
LABORATORY TESTING DATA SHEET

Project Name: 1 Horizon Way
Project Location: Everett, MA
Project No.: 01.0171521.02
Report Date: 8/13/2013
Project Engineer: D. Leone
Date Reviewed: 8/13/2013
Assigned By: J. Chrzanowski
Reviewed By:

Boring/ Test Pit No.	Depth (ft)	Sample Date	Lab No.	Identification Tests							Laboratory Log and Soil Description
				Water Content %	LL %	PL %	Sieve -200 %	Hyd -2µ %	Gs	ORG %	
GZ-109	1-2.4	8/2/13	7				44.7				Red-brown f-m SAND and SILT, trace Gravel
GZ-116	1-4	8/2/13	8				23.7				Red-brown f-m SAND, some Silt, little f-c Gravel
GZ-116	5-9	8/2/13	9				55.5				Gray Organic SILT and f-m SAND, trace gravel
GZ-120	0-4	8/2/13	10				65.6				Gray Organic SILT, some f-m Sand
GZ-122	1-4	8/2/13	11				71.6				Gray Organic SILT, some f-m Sand
GZ-124	0-3	8/2/13	12				54.0				Gray Organic SILT and f-m SAND, trace Gravel
GZ-124	5-9	8/2/13	13				42.9				Gray f-m SAND and Organic SILT, trace Gravel
GZ-130	0-1.4	8/2/13	14				52.0				Gray f-m Organic SILT and f-m SAND, trace Gravel
GZ-130	5-8	8/2/13	15				64.5				Gray f-m Organic SILT, some f-m Sand, trace Gravel
GZ-131	1-3	8/2/13	16				38.7				Gray fine SAND and Organic SILT
GZ-131	4-5	8/2/13	17				10.7				Gray f-c GRAVEL and f-c SAND, little Silt
GZ-129	0-4	8/2/13	18				55.4				Gray Organic SILT and fine SAND
GZ-134	0-1	8/2/13	19				71.4				Gray Organic SILT, some fine Sand
GZ-134	8-9	8/2/13	20				89.1				Gray Organic SILT, little fine Sand
GZ-135	1-3	8/2/13	21				26.0				Gray f-m SAND, some Organic Silt
GZ-135	0-9	8/2/13	22				63.2				Gray Organic SILT and f-m SAND
GZ-138	0-2	8/2/13	23				77.2				Gray Organic SILT, some f-m Sand

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U.S. STANDARD SIEVE AND HYDROMETER



Gravel	Sand	Fines
3.2%	52.1%	44.7%

Lab #	Exploration	Sample Depth	Sample Date	Description	WC	LL	PL	PI
7	GZ-109	1-2.4'	8/2/13	Red-brown f-m SAND and SILT, trace Gravel				

Sieve Size	% Passing
¾"	100.0
½"	100.0
#4	96.8
#10	94.2
#20	90.9
#40	85.9
#60	77.8
#100	69.2
#200	44.7

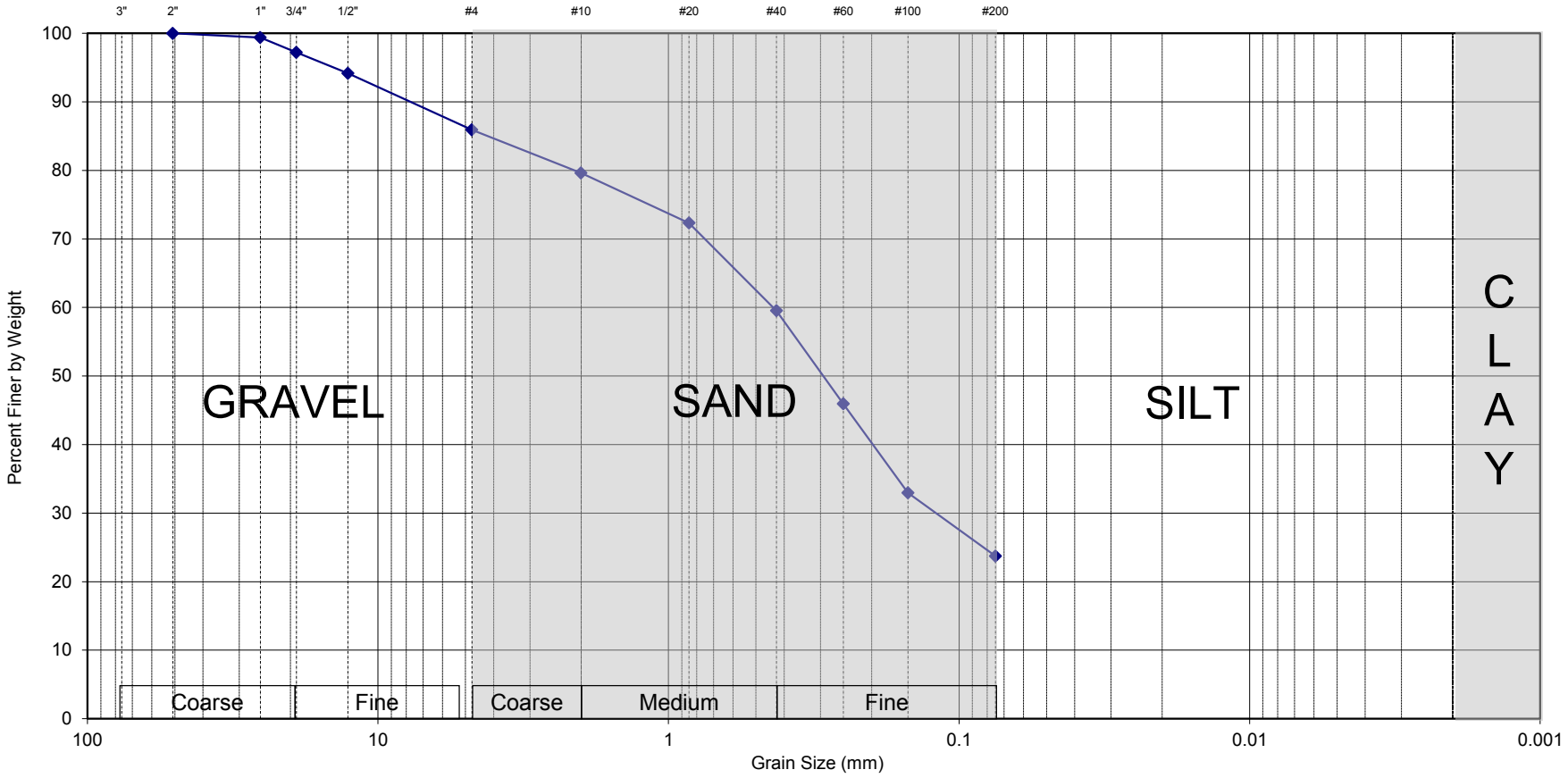
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ASTM D422

U.S. STANDARD SIEVE AND HYDROMETER



Gravel	Sand	Fines
14.1%	62.2%	23.7%

Lab #	Exploration	Sample Depth	Sample Date	Description	WC	LL	PL	PI
8	GZ-116	1-4'	8/2/13	Red-brown f-m SAND, some Silt, little f-c Gravel				

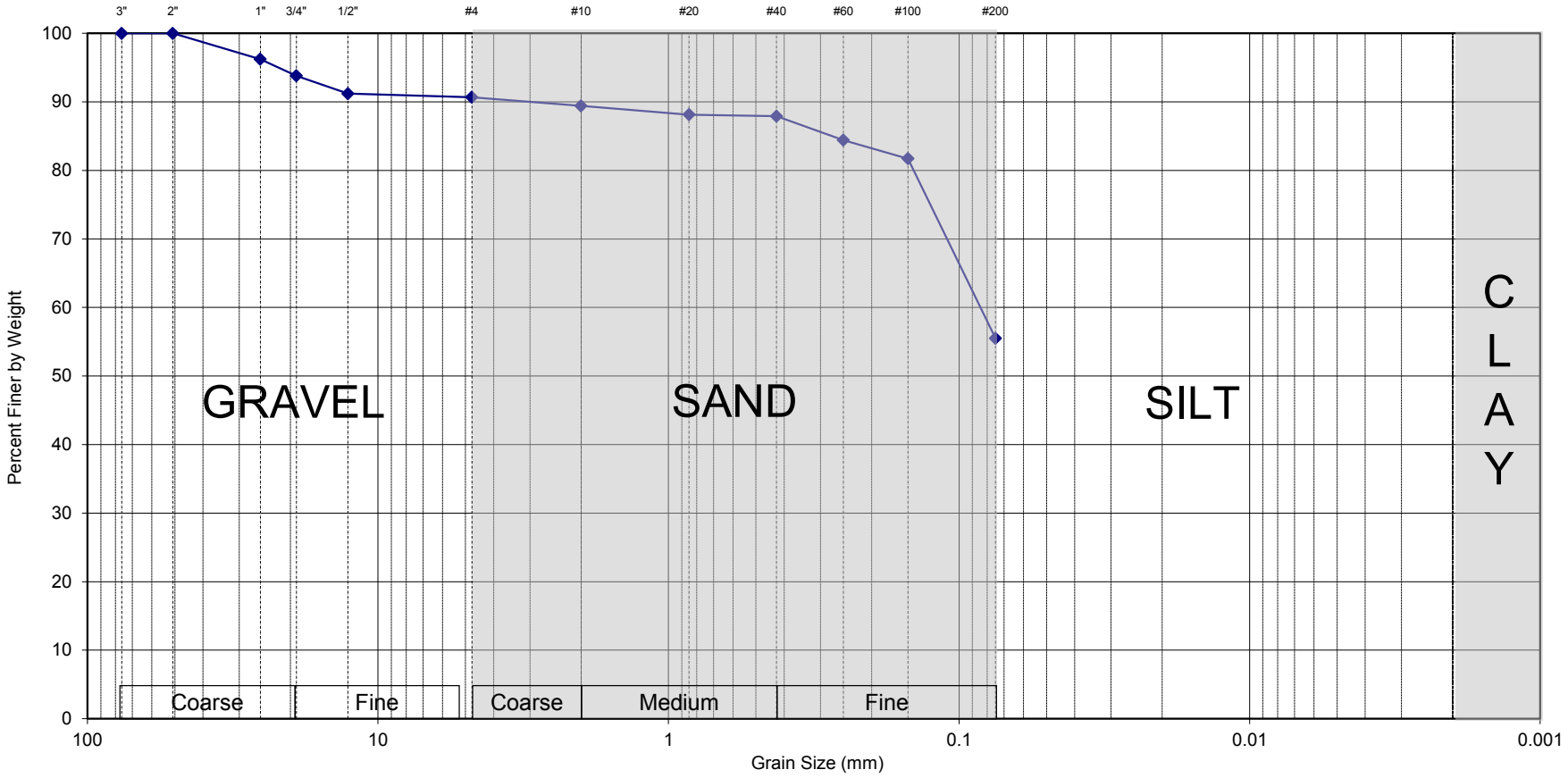
Sieve Size	% Passing
¾"	97.2
½"	94.2
#4	85.9
#10	79.6
#20	72.3
#40	59.5
#60	45.9
#100	33.0
#200	23.7

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U.S. STANDARD SIEVE AND HYDROMETER



Gravel	Sand	Fines
9.3%	35.1%	55.5%

Lab #	Exploration	Sample Depth	Sample Date	Description	WC	LL	PL	PI
9	GZ-116	5-9'	8/2/13	Gray Organic SILT and f-m SAND, trace gravel				

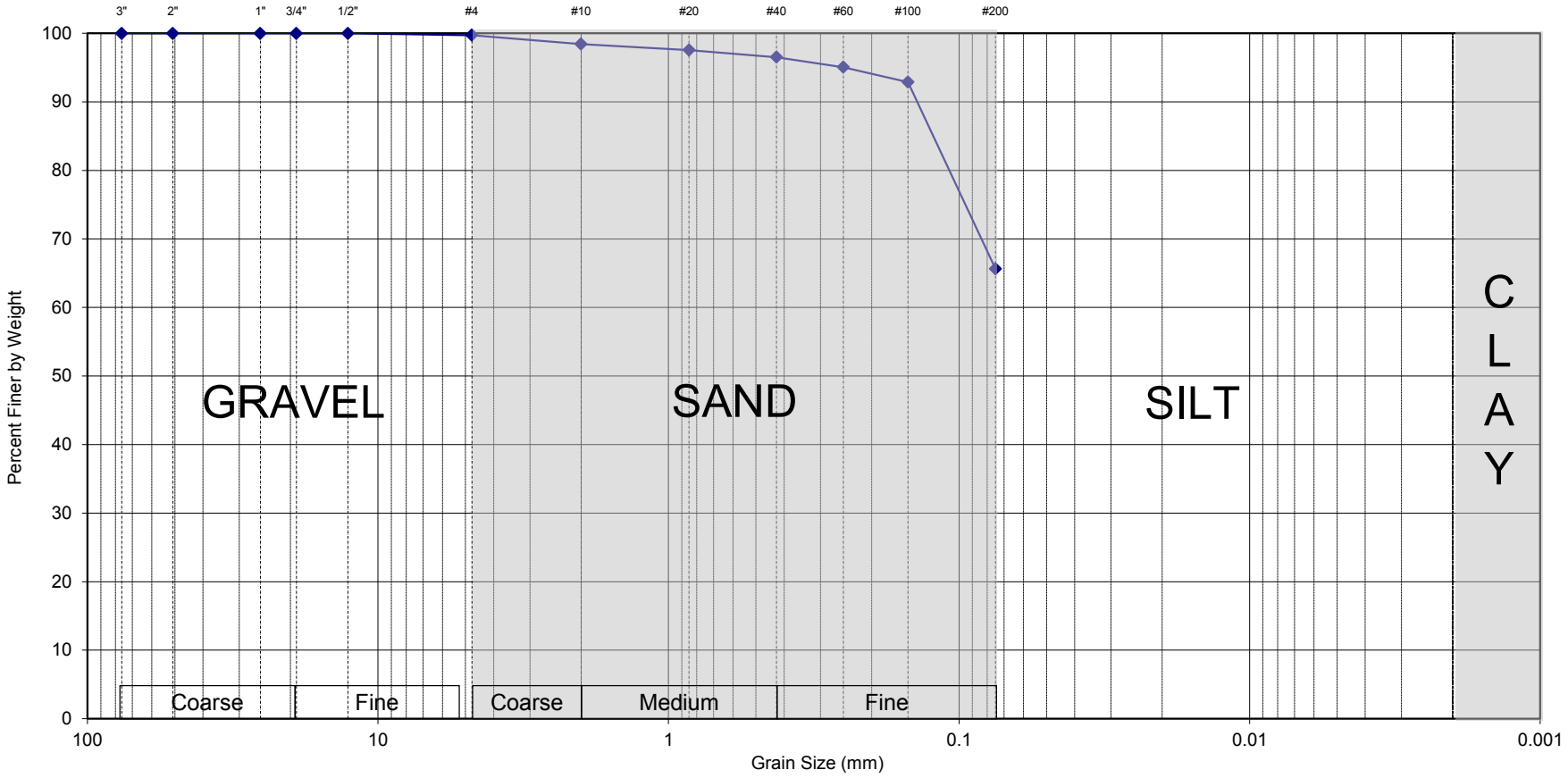
Sieve Size	% Passing
¾"	93.8
½"	91.2
#4	90.7
#10	89.4
#20	88.1
#40	87.9
#60	84.4
#100	81.7
#200	55.5

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U.S. STANDARD SIEVE AND HYDROMETER



Gravel	Sand	Fines
0.3%	34.1%	65.6%

Lab #	Exploration	Sample Depth	Sample Date	Description	WC	LL	PL	PI
10	GZ-120	0-4'	8/2/13	Gray Organic SILT, some f-m Sand				

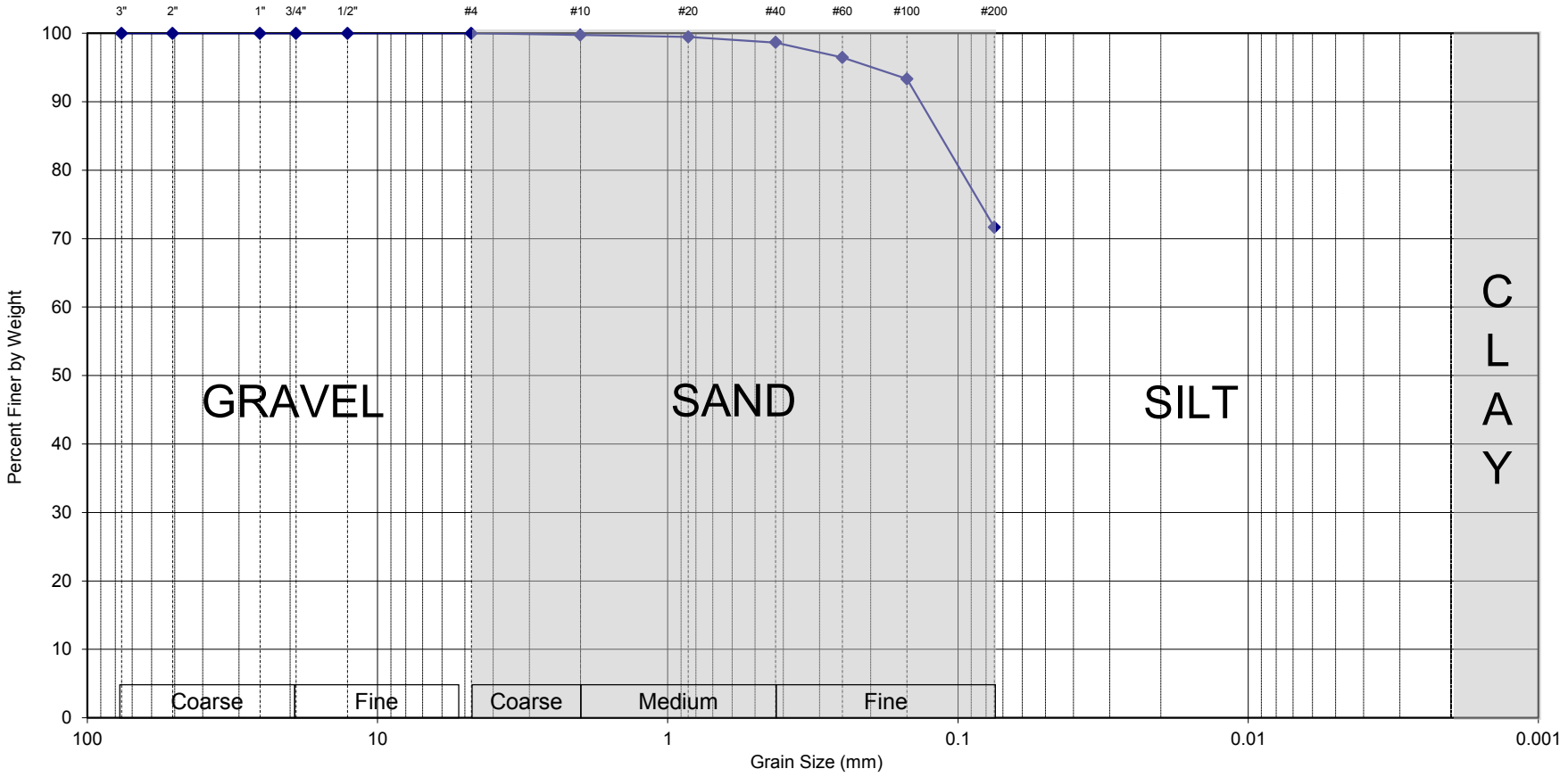
Sieve Size	% Passing
¾"	100.0
½"	100.0
#4	99.7
#10	98.4
#20	97.6
#40	96.5
#60	95.1
#100	92.9
#200	65.6

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U.S. STANDARD SIEVE AND HYDROMETER



Gravel	Sand	Fines
0.0%	28.4%	71.6%

Lab #	Exploration	Sample Depth	Sample Date	Description	WC	LL	PL	PI
11	GZ-122	1-4'	8/2/13	Gray Organic SILT, some f-m Sand				

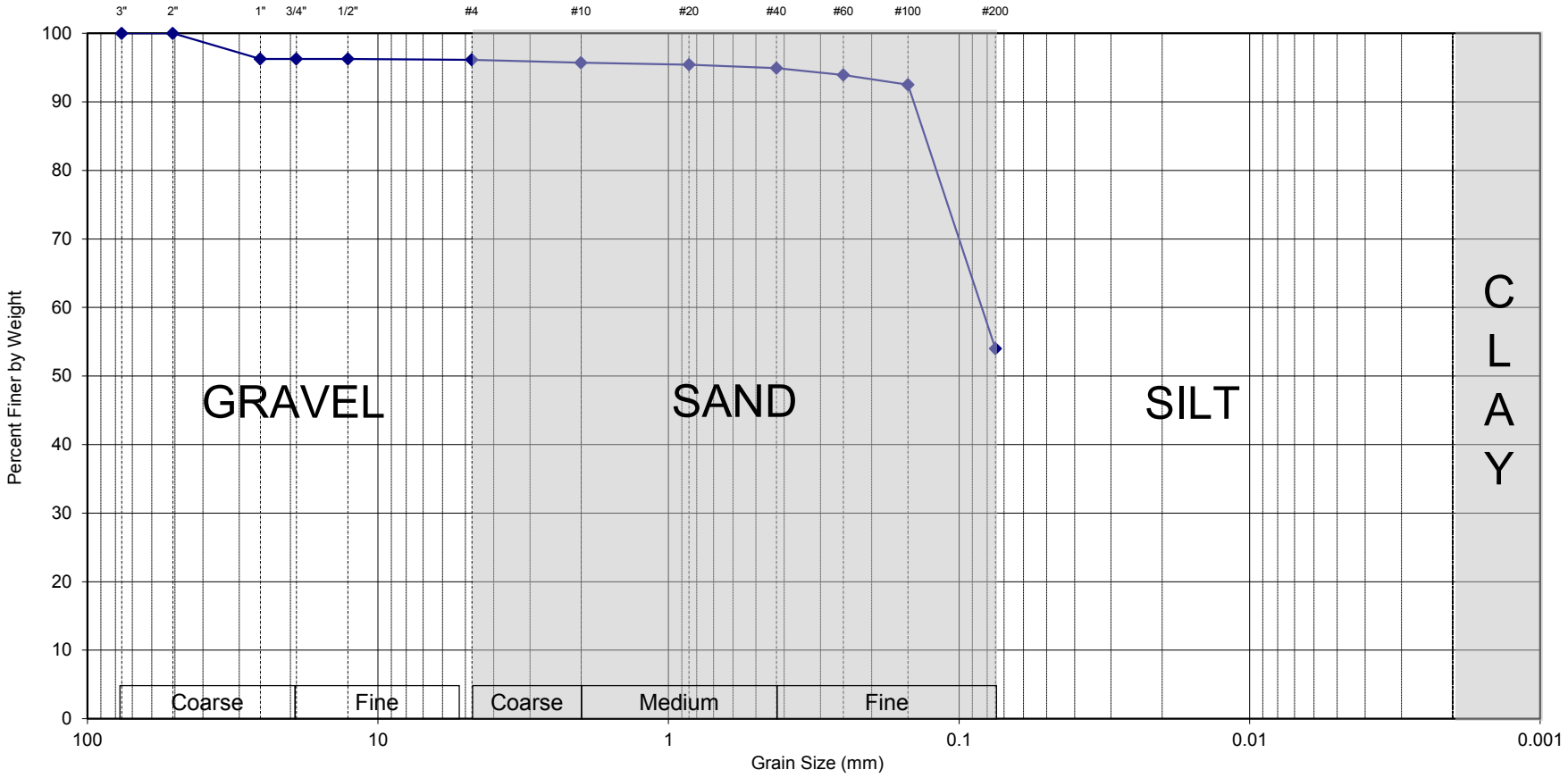
Sieve Size	% Passing
¾"	100.0
½"	100.0
#4	100.0
#10	99.8
#20	99.5
#40	98.7
#60	96.4
#100	93.3
#200	71.6

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U.S. STANDARD SIEVE AND HYDROMETER



Gravel	Sand	Fines
3.9%	42.2%	54.0%

Lab #	Exploration	Sample Depth	Sample Date	Description	WC	LL	PL	PI
12	GZ-124	0-3'	8/2/13	Gray Organic SILT and f-m SAND, trace Gravel				

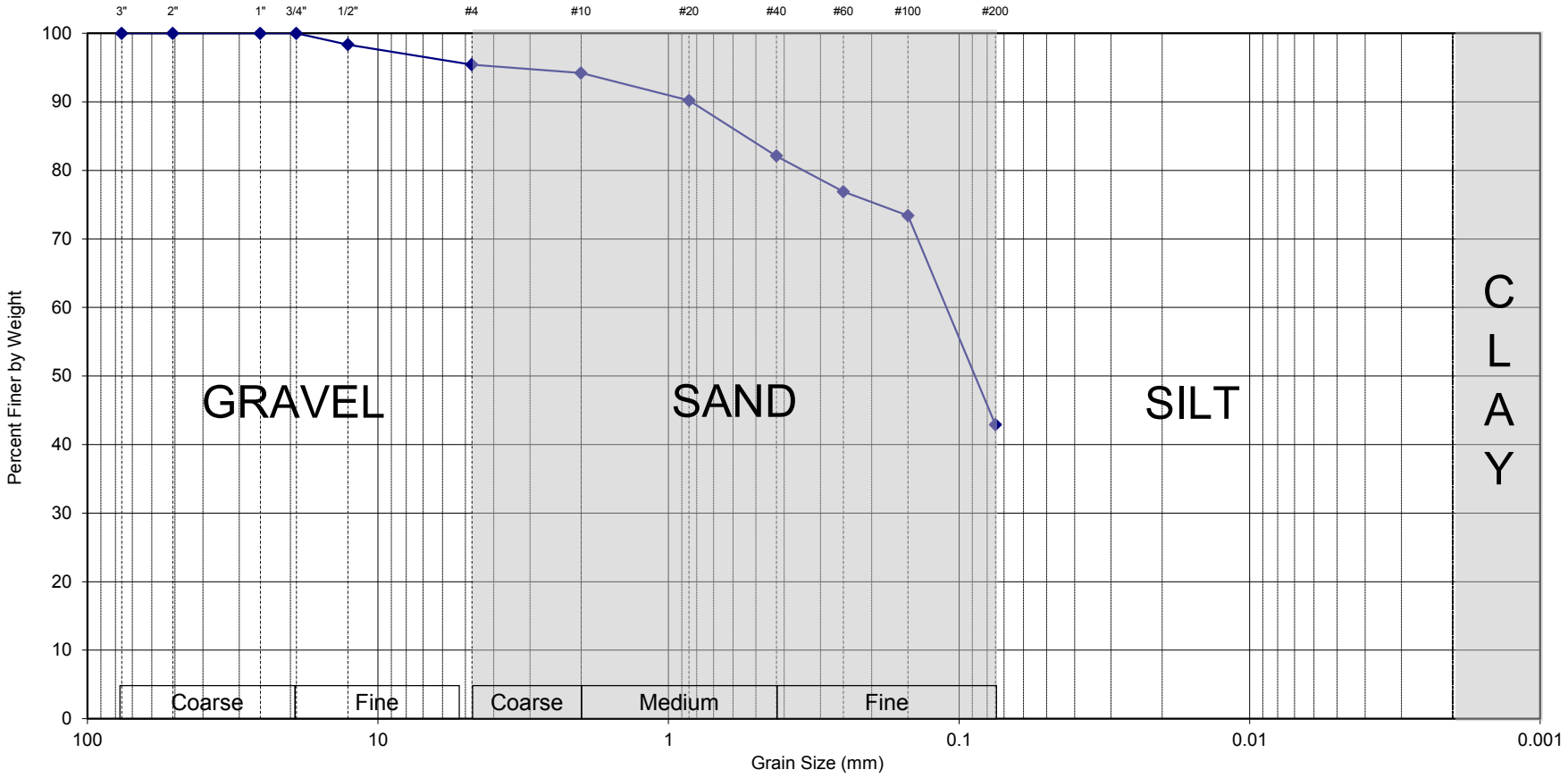
Sieve Size	% Passing
¾"	96.2
½"	96.2
#4	96.1
#10	95.7
#20	95.4
#40	94.9
#60	93.9
#100	92.5
#200	54.0

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U.S. STANDARD SIEVE AND HYDROMETER



Gravel	Sand	Fines
4.6%	52.6%	42.9%

Lab #	Exploration	Sample Depth	Sample Date	Description	WC	LL	PL	PI
13	GZ-124	5-9'	8/2/13	Gray f-m SAND and Organic SILT, trace Gravel				

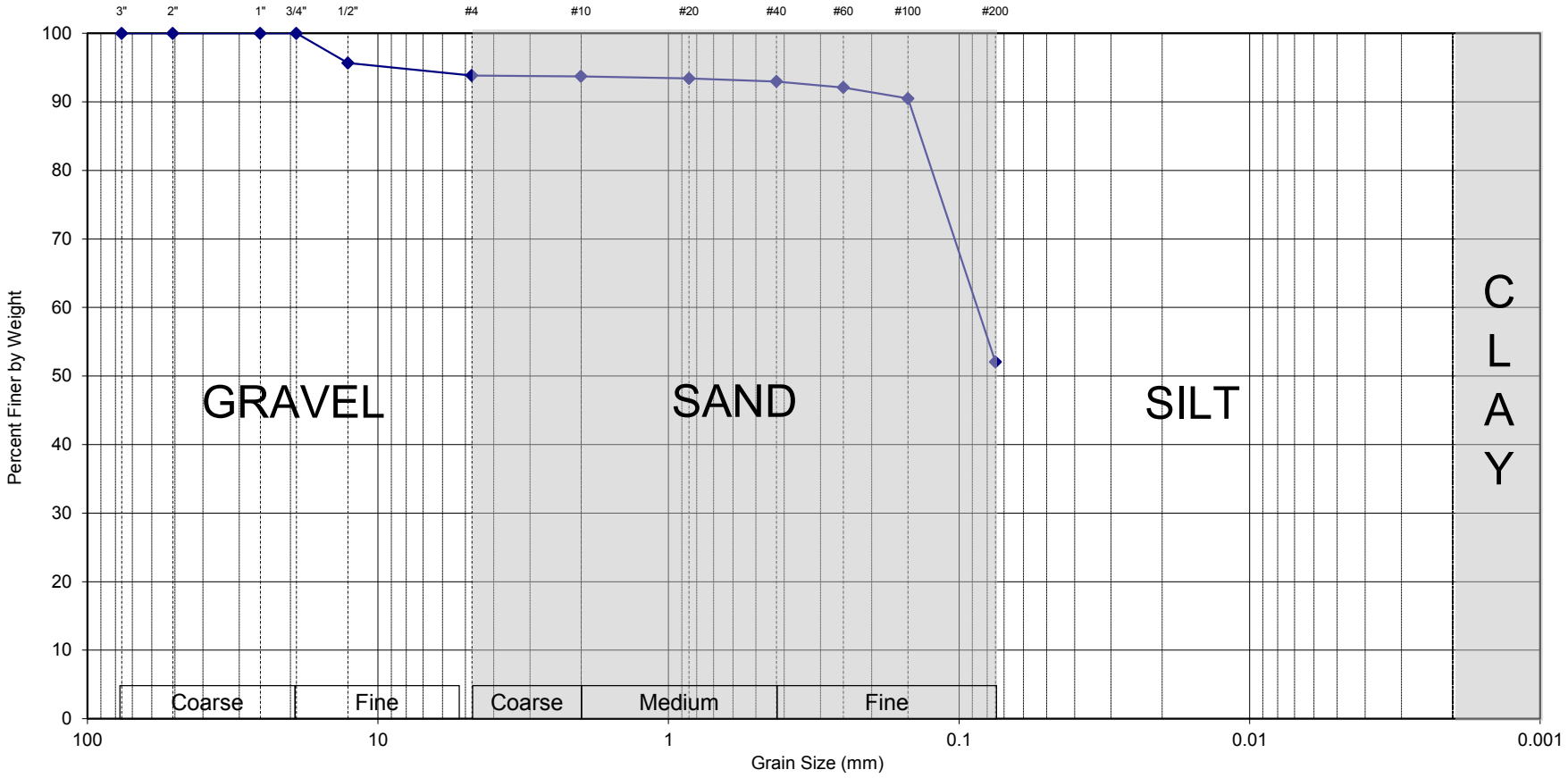
Sieve Size	% Passing
¾"	100.0
½"	98.3
#4	95.4
#10	94.2
#20	90.2
#40	82.1
#60	76.9
#100	73.4
#200	42.9

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U.S. STANDARD SIEVE AND HYDROMETER



Gravel	Sand	Fines
6.2%	41.8%	52.0%

Lab #	Exploration	Sample Depth	Sample Date	Description	WC	LL	PL	PI
14	GZ-130	0-1.4'	8/2/13	Gray f-m Organic SILT and f-m SAND, trace Gravel				

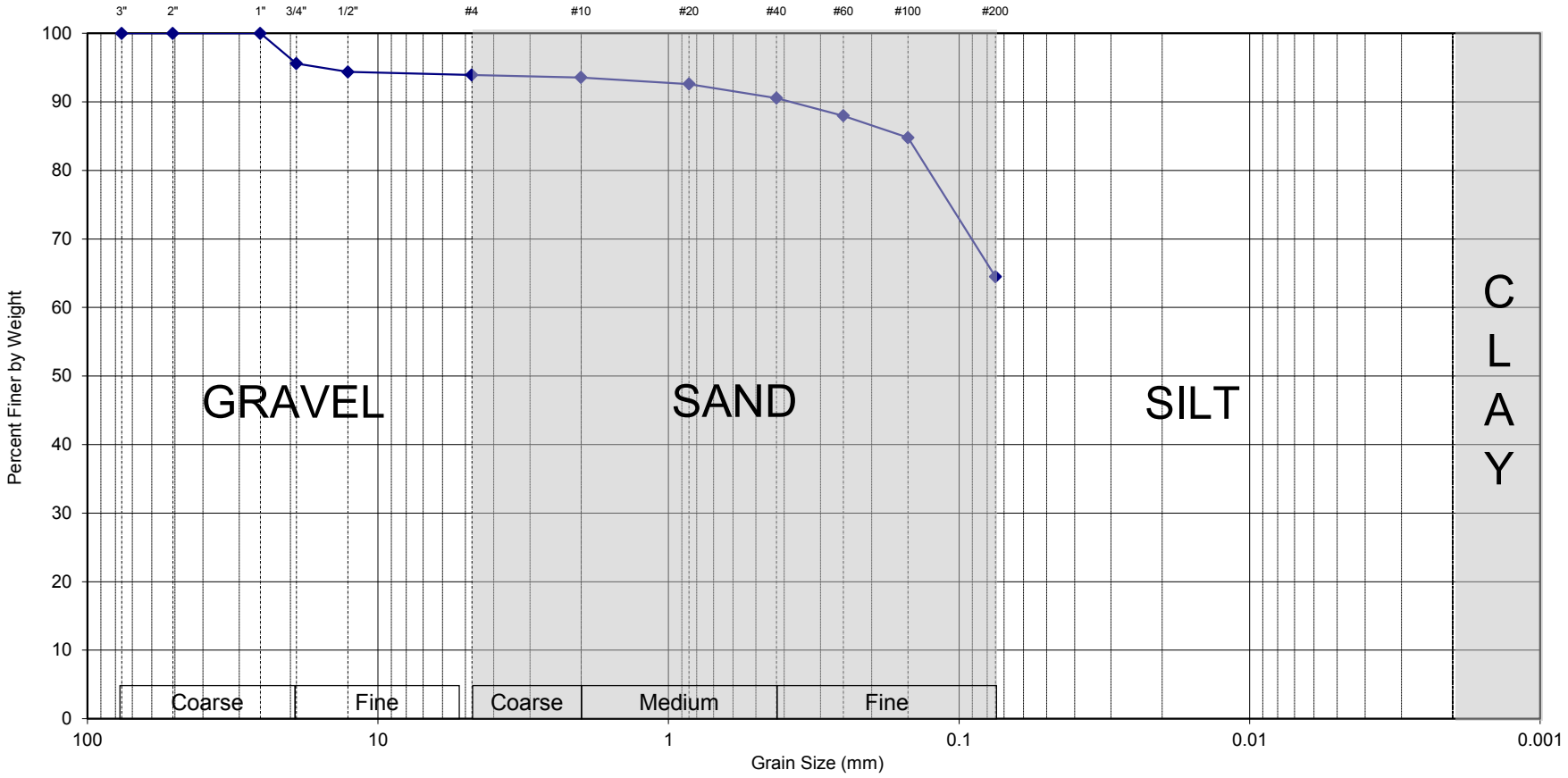
Sieve Size	% Passing
¾"	100.0
½"	95.7
#4	93.8
#10	93.7
#20	93.4
#40	93.0
#60	92.1
#100	90.5
#200	52.0

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U.S. STANDARD SIEVE AND HYDROMETER



Gravel	Sand	Fines
6.1%	29.4%	64.5%

Lab #	Exploration	Sample Depth	Sample Date	Description	WC	LL	PL	PI
15	GZ-130	5-8'	8/2/13	Gray f-m Organic SILT, some f-m Sand, trace Gravel				

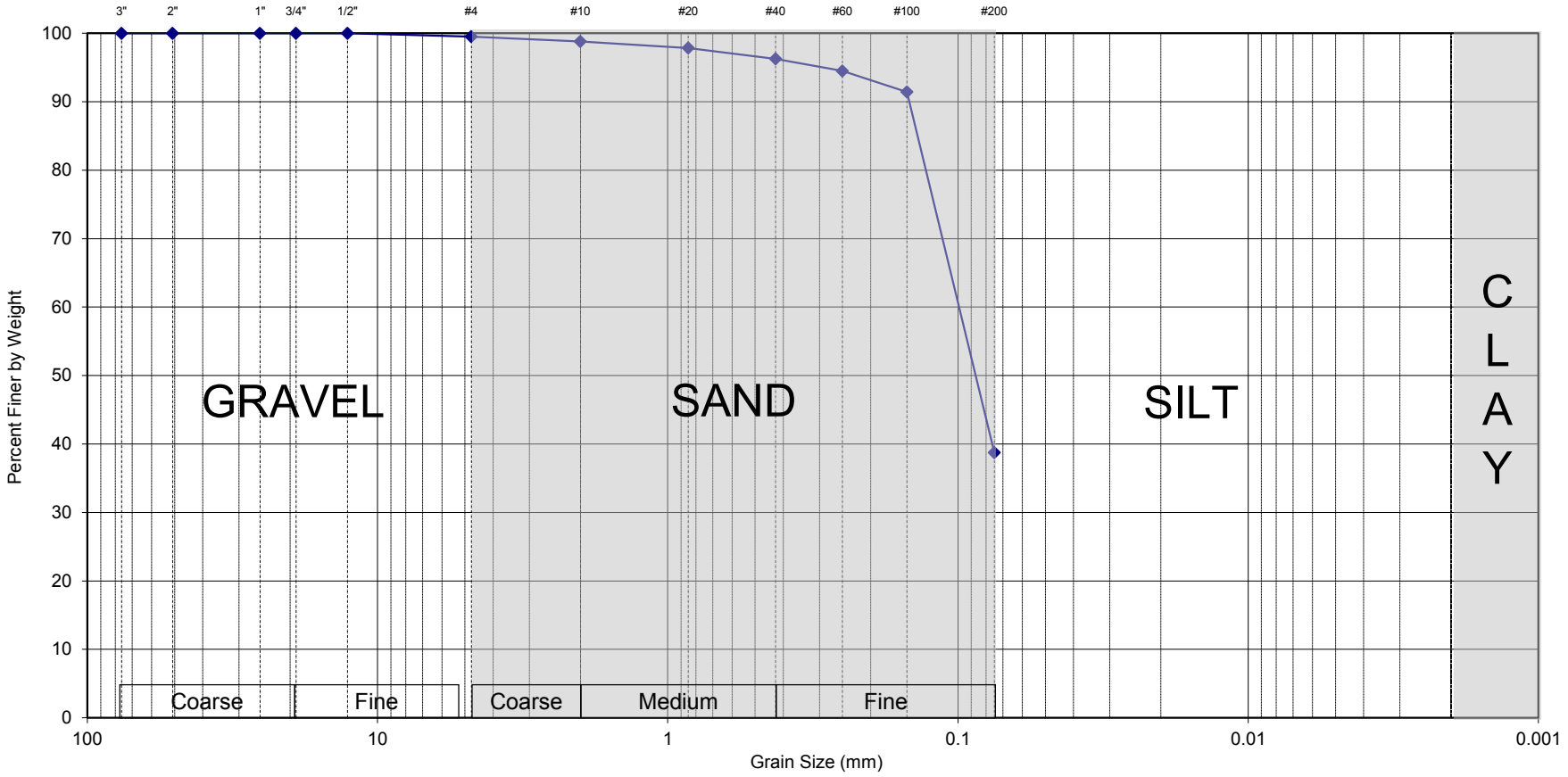
Sieve Size	% Passing
¾"	95.6
½"	94.4
#4	93.9
#10	93.5
#20	92.6
#40	90.6
#60	88.0
#100	84.8
#200	64.5

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U.S. STANDARD SIEVE AND HYDROMETER



Gravel	Sand	Fines
0.5%	60.8%	38.7%

Lab #	Exploration	Sample Depth	Sample Date	Description	WC	LL	PL	PI
16	GZ-131	1-3'	8/2/13	Gray fine SAND and Organic SILT				

Sieve Size	% Passing
¾"	100.0
½"	100.0
#4	99.5
#10	98.8
#20	97.8
#40	96.3
#60	94.5
#100	91.4
#200	38.7

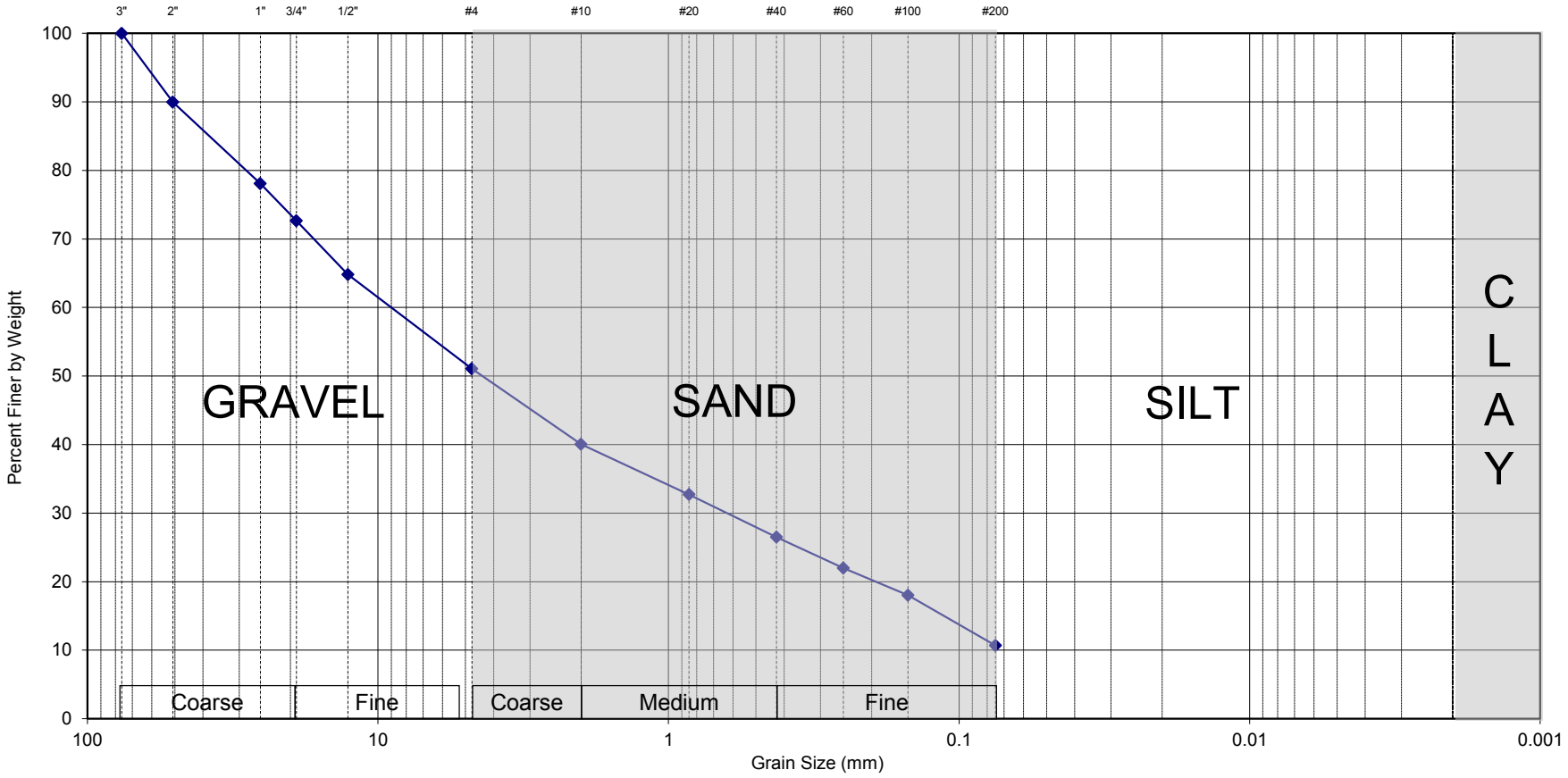
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ASTM D422

U.S. STANDARD SIEVE AND HYDROMETER



Gravel	Sand	Fines
49.0%	40.4%	10.7%

Lab #	Exploration	Sample Depth	Sample Date	Description	WC	LL	PL	PI
17	GZ-131	4-5'	8/2/13	Gray f-c GRAVEL and f-c SAND, little Silt				

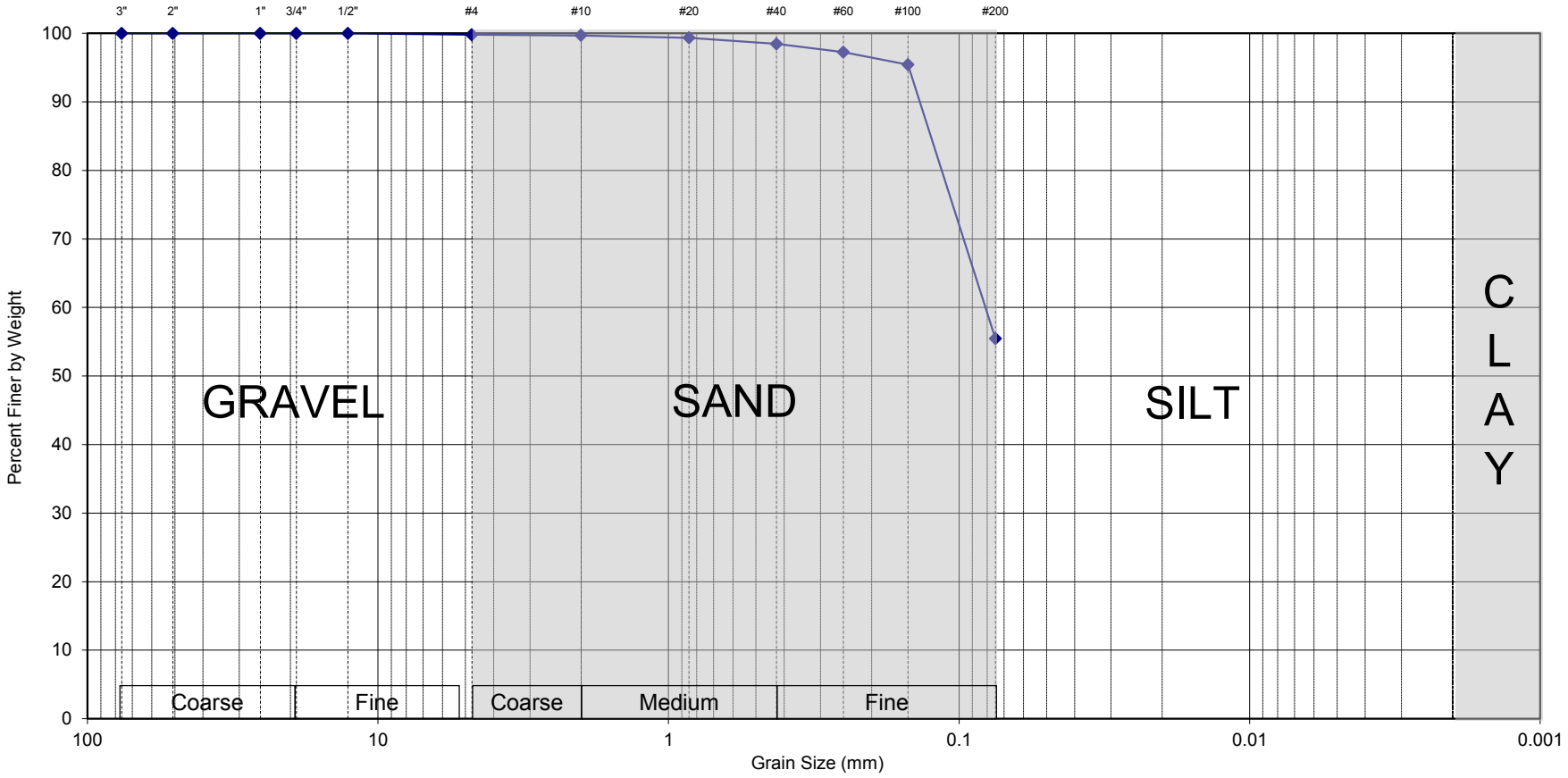
Sieve Size	% Passing
¾"	72.6
½"	64.8
#4	51.0
#10	40.0
#20	32.7
#40	26.5
#60	22.0
#100	18.0
#200	10.7

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U.S. STANDARD SIEVE AND HYDROMETER



Gravel	Sand	Fines
0.2%	44.4%	55.4%

Lab #	Exploration	Sample Depth	Sample Date	Description	WC	LL	PL	PI
18	GZ-129	0-4'	8/2/13	Gray Organic SILT and fine SAND				

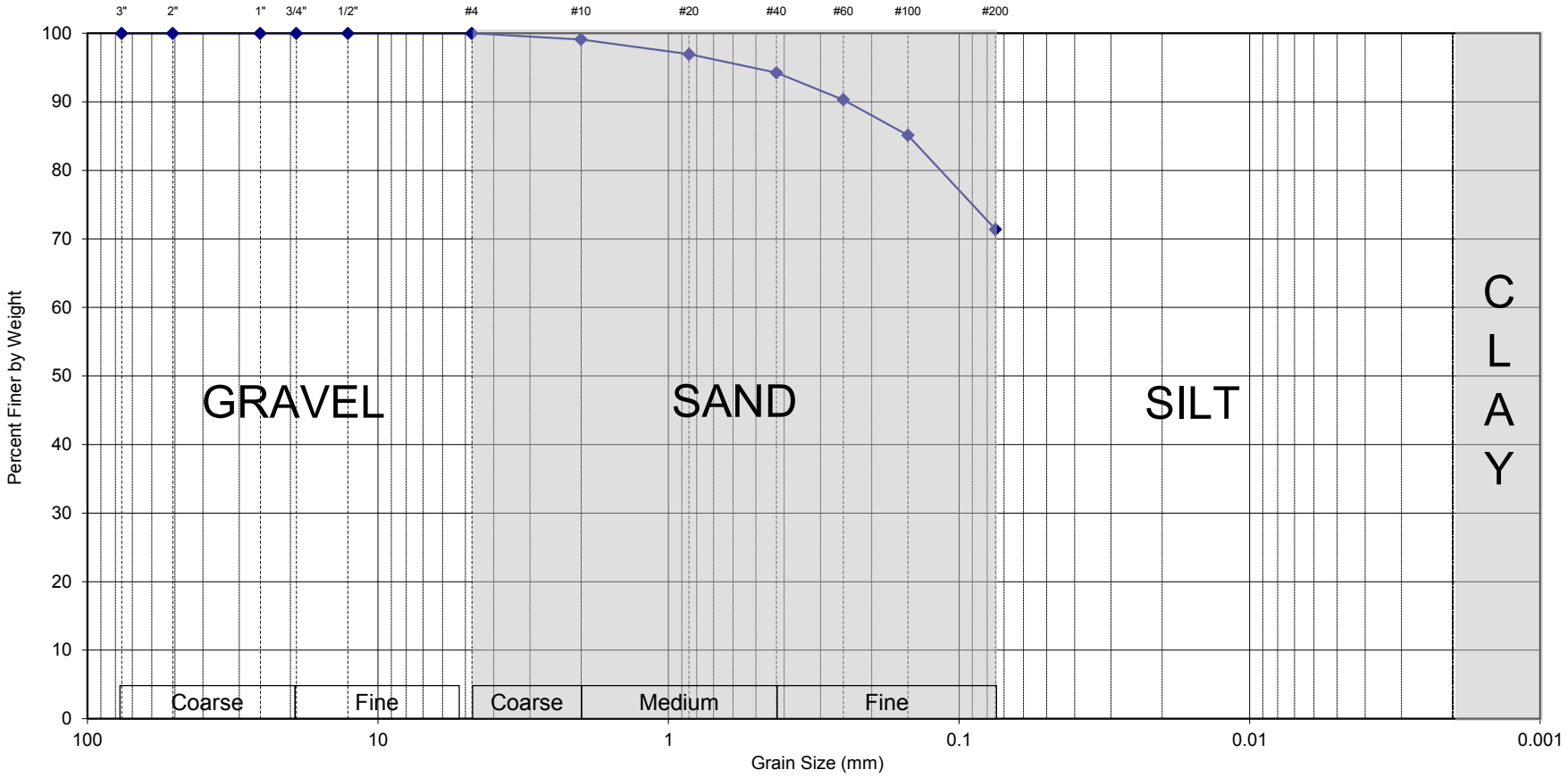
Sieve Size	% Passing
¾"	100.0
½"	100.0
#4	99.8
#10	99.7
#20	99.3
#40	98.5
#60	97.2
#100	95.4
#200	55.4

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U.S. STANDARD SIEVE AND HYDROMETER



Gravel	Sand	Fines
0.0%	28.6%	71.4%

Lab #	Exploration	Sample Depth	Sample Date	Description	WC	LL	PL	PI
19	GZ-134	0-1'	8/2/13	Gray Organic SILT, some fine Sand				

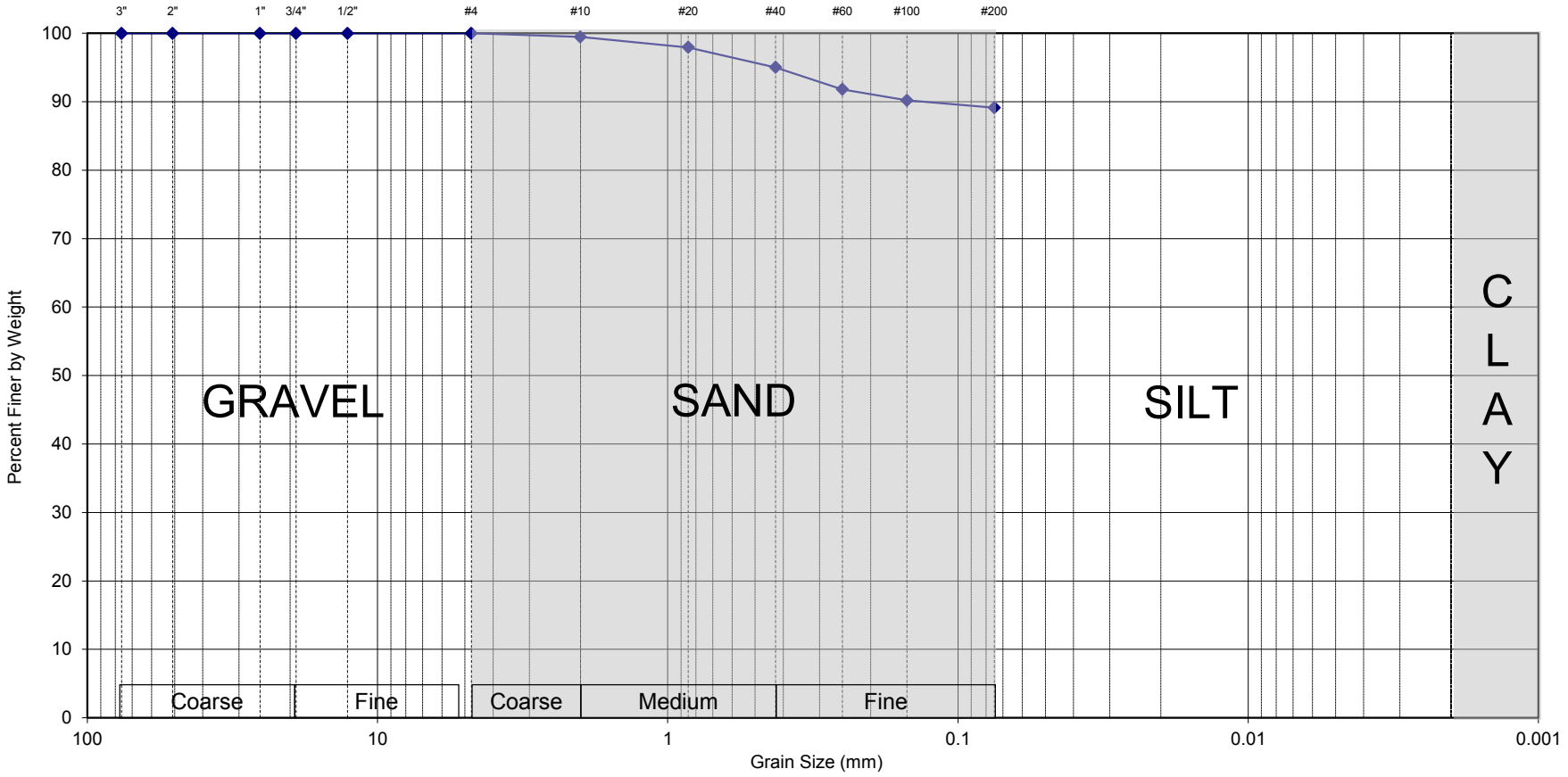
Sieve Size	% Passing
¾"	100.0
½"	100.0
#4	100.0
#10	99.1
#20	96.9
#40	94.3
#60	90.3
#100	85.1
#200	71.4

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U.S. STANDARD SIEVE AND HYDROMETER



Gravel	Sand	Fines
0.0%	10.9%	89.1%

Lab #	Exploration	Sample Depth	Sample Date	Description	WC	LL	PL	PI
20	GZ-134	8-9'	8/2/13	Gray Organic SILT, little fine Sand				

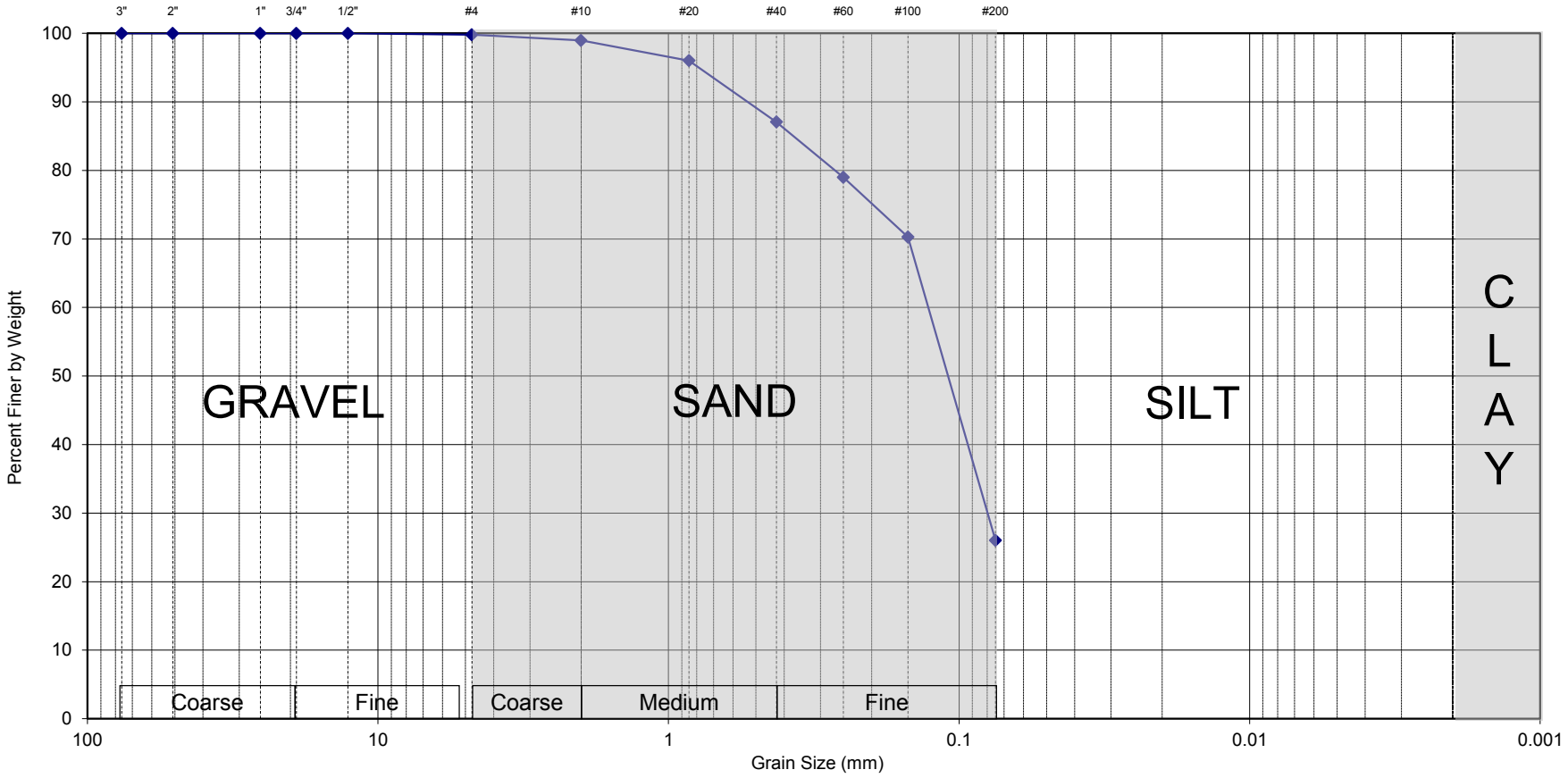
Sieve Size	% Passing
¾"	100.0
½"	100.0
#4	100.0
#10	99.5
#20	97.9
#40	95.0
#60	91.8
#100	90.2
#200	89.1

THIELSCH ENGINEERING
195 Frances Ave., Cranston, RI 02910
401-467-6454

CTS-74-13-0003
1 Horizon Way
Everett, MA
GZA File # 01.0171521.02

Tested by: LM Date: 8/12/13
Reviewed by: MBP Date: 8/13/13

U.S. STANDARD SIEVE AND HYDROMETER



Gravel	Sand	Fines
0.2%	73.8%	26.0%

Lab #	Exploration	Sample Depth	Sample Date	Description	WC	LL	PL	PI
21	GZ-135	1-3'	8/2/13	Gray f-m SAND, some Organic Silt				

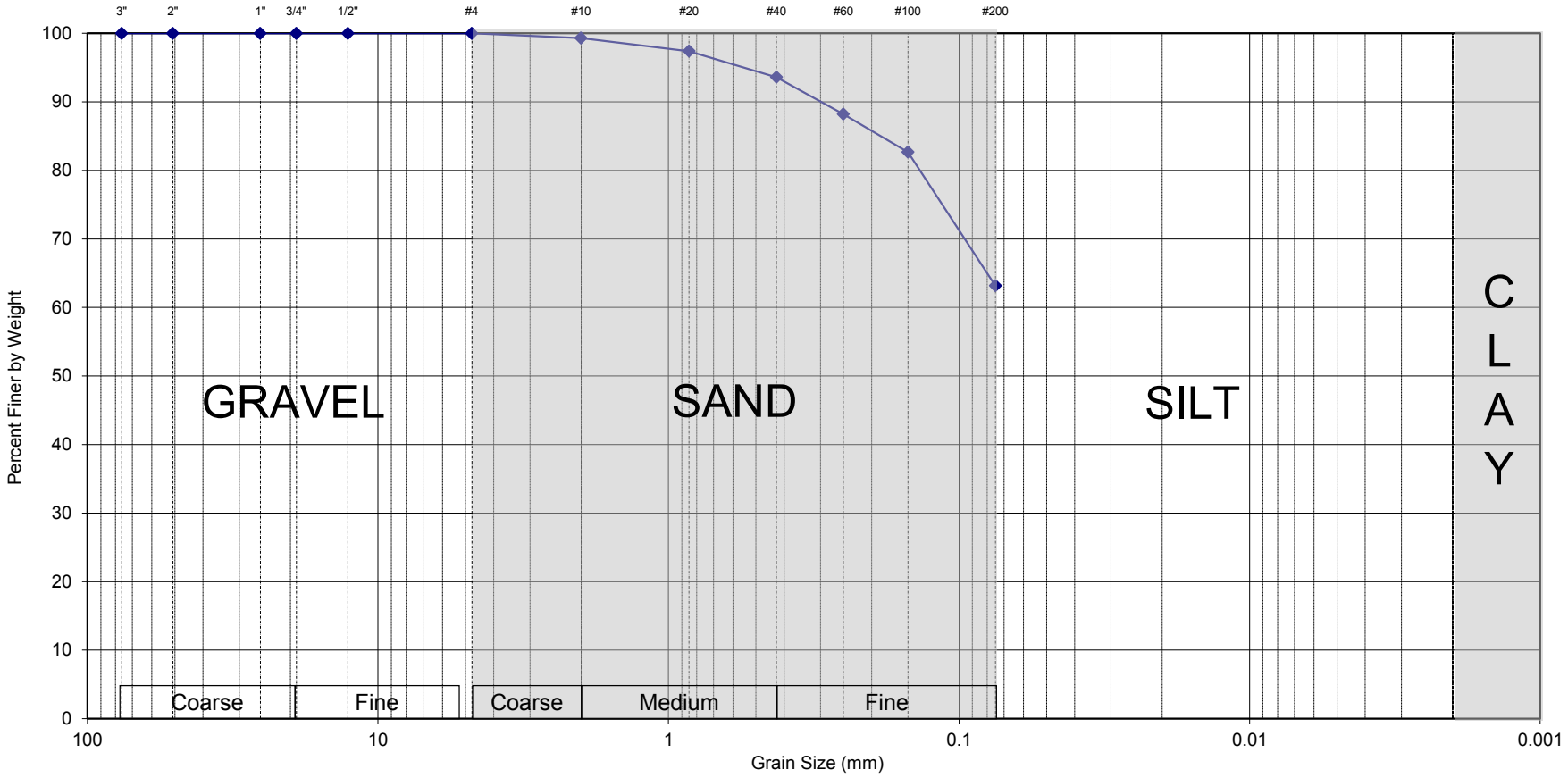
Sieve Size	% Passing
¾"	100.0
½"	100.0
#4	99.8
#10	99.0
#20	96.0
#40	87.0
#60	79.0
#100	70.3
#200	26.0

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195 Frances Ave., Cranston, RI 02910
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CTS-74-13-0003
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Everett, MA
GZA File # 01.0171521.02

Tested by: LM Date: 8/12/13
Reviewed by: MBP Date: 8/13/13

U.S. STANDARD SIEVE AND HYDROMETER



Gravel	Sand	Fines
0.0%	36.8%	63.2%

Lab #	Exploration	Sample Depth	Sample Date	Description	WC	LL	PL	PI
22	GZ-135	0-9'	8/2/13	Gray Organic SILT and f-m SAND				

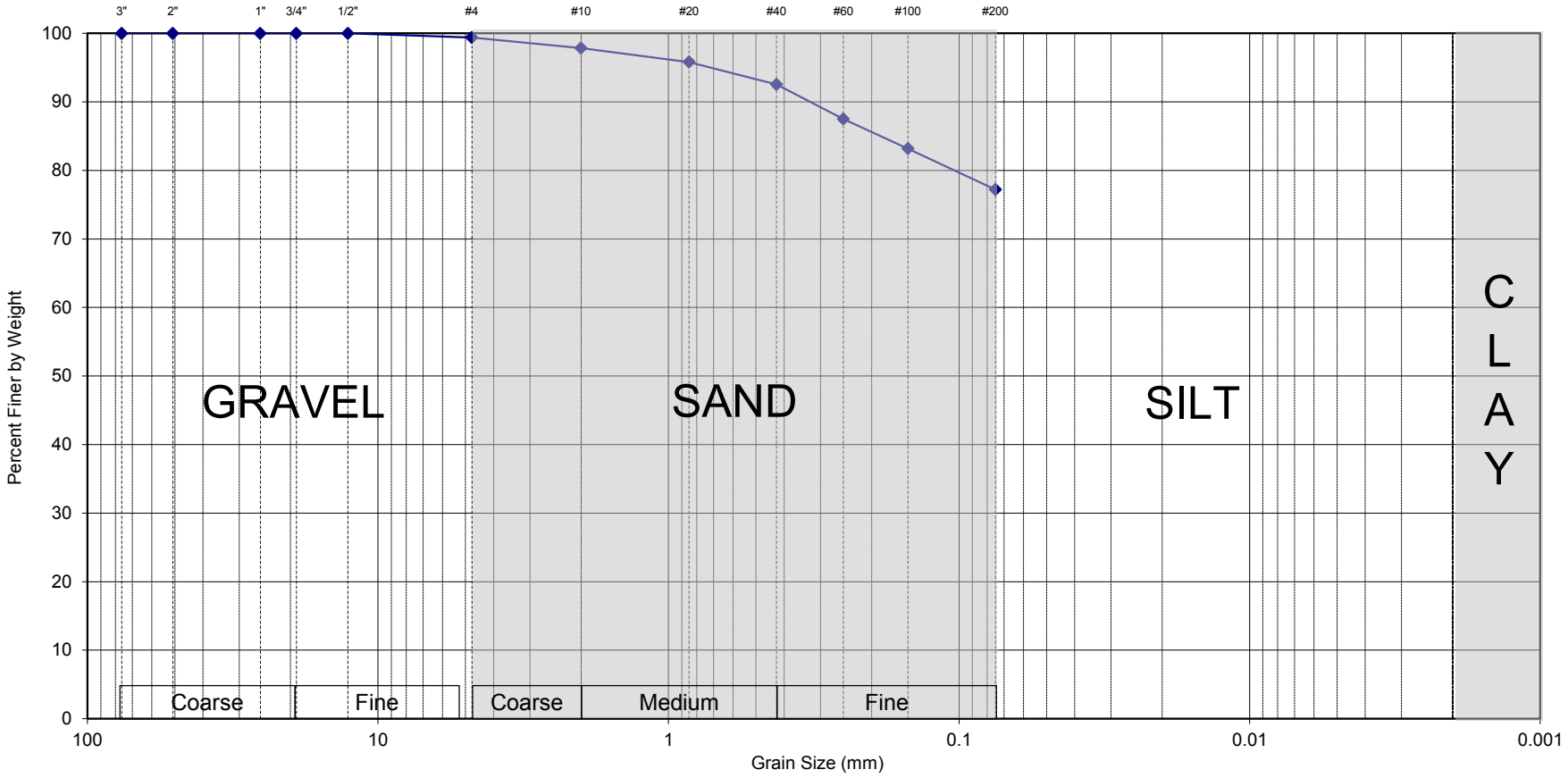
Sieve Size	% Passing
¾"	100.0
½"	100.0
#4	100.0
#10	99.3
#20	97.4
#40	93.6
#60	88.2
#100	82.7
#200	63.2

THIELSCH ENGINEERING
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CTS-74-13-0003
1 Horizon Way
Everett, MA
GZA File # 01.0171521.02

Tested by: LM Date: 8/12/13
Reviewed by: MBP Date: 8/13/13

U.S. STANDARD SIEVE AND HYDROMETER



Gravel	Sand	Fines
0.6%	22.2%	77.2%

Lab #	Exploration	Sample Depth	Sample Date	Description	WC	LL	PL	PI
23	GZ-138	0-2'	8/2/13	Gray Organic SILT, some f-m Sand				

Sieve Size	% Passing
¾"	100.0
½"	100.0
#4	99.4
#10	97.9
#20	95.8
#40	92.5
#60	87.5
#100	83.2
#200	77.2

THIELSCH ENGINEERING
195 Frances Ave., Cranston, RI 02910
401-467-6454

CTS-74-13-0003
1 Horizon Way
Everett, MA
GZA File # 01.0171521.02

Tested by: LM Date: 8/12/13
Reviewed by: MBP Date: 8/13/13

APPENDIX E

2013 UPSTREAM SAMPLES

Wynn Resort Casino
Everett, Massachusetts

Analyte	Sample No. / Sample Date: / Sample Time: / ClientSample: / Units	1308109-07 08/06/2013 11:20 GZ-LC1 T 0-0_5ft	1308109-08 08/05/2013 13:30 GZ-LC1 2-4ft	1308109-09 08/06/2013 11:26 GZ-LC2 T 0-0_5ft	1308109-10 08/05/2013 14:05 GZ-LC2 2-4ft	1308109-11 08/06/2013 11:36 GZ-LC3 T 0-0_5ft
Aroclor 1016	mg/kg dry	<0.0340	<0.0445	<5.02	<4.87	<0.0482
Aroclor 1221	mg/kg dry	<0.0340	<0.0445	<5.02	<4.87	<0.0482
Aroclor 1232	mg/kg dry	<0.0340	<0.0445	<5.02	<4.87	<0.0482
Aroclor 1242	mg/kg dry	<0.0340	<0.0445	<5.02	<4.87	<0.0482
Aroclor 1248	mg/kg dry	**0.166**	<0.0445	**11.9**	**43.5**	**0.699**
Aroclor 1254	mg/kg dry	**0.213**	<0.0445	**28.2**	**33.7**	**0.622**
Aroclor 1260	mg/kg dry	**0.0667**	<0.0445	<5.02	<4.87	**0.232**
Aroclor 1262	mg/kg dry	<0.0340	<0.0445	<5.02	<4.87	<0.0482
Aroclor 1268	mg/kg dry	<0.0340	<0.0445	<5.02	<4.87	<0.0482
1,2,4-Trichlorobenzene	mg/kg dry	<0.439	<0.567	<1.28	<12.7	<0.618
1,2-Dichlorobenzene	mg/kg dry	<0.439	<0.567	<1.28	<12.7	<0.618
1,3-Dichlorobenzene	mg/kg dry	<0.439	<0.567	<1.28	<12.7	<0.618
1,4-Dichlorobenzene	mg/kg dry	<0.439	<0.567	<1.28	<12.7	<0.618
2-Methylnaphthalene	mg/kg dry	<0.439	<0.567	<1.28	<12.7	<0.618
2-Methylphenol	mg/kg dry	<0.439	<0.567	<1.28	<12.7	<0.618
Acenaphthene	mg/kg dry	<0.439	<0.567	<1.28	<12.7	<0.618
Acenaphthylene	mg/kg dry	<0.439	<0.567	<1.28	<12.7	<0.618
Anthracene	mg/kg dry	<0.439	<0.567	<1.28	<12.7	<0.618
Benzo(a)anthracene	mg/kg dry	**0.711**	<0.567	<1.28	<12.7	**1.14**
Benzo(a)pyrene	mg/kg dry	**0.804**	<0.284	<0.643	<6.37	**1.22**
Benzo(b)fluoranthene	mg/kg dry	**0.854**	<0.567	<1.28	<12.7	**1.66**
Benzo(g,h,i)perylene	mg/kg dry	<0.439	<0.567	<1.28	<12.7	<0.618
Benzo(k)fluoranthene	mg/kg dry	**0.548**	<0.567	<1.28	<12.7	**0.791**
bis(2-Ethylhexyl)phthalate	mg/kg dry	**7.98**	<0.567	**1570**	**6160**	**13.7**
Butylbenzylphthalate	mg/kg dry	<0.439	<0.567	<1.28	**20.5**	<0.618
Carbazole	mg/kg dry	<0.439	<0.567	<1.28	<12.7	<0.618
Chrysene	mg/kg dry	**0.728**	<0.284	<0.643	<6.37	**1.34**
Dibenzo(a,h)Anthracene	mg/kg dry	<0.220	<0.284	<0.643	<6.37	<0.310
Dibenzofuran	mg/kg dry	<0.439	<0.567	<1.28	<12.7	**0.693**
Diethylphthalate	mg/kg dry	<0.439	<0.567	<1.28	<12.7	<0.618
Dimethylphthalate	mg/kg dry	<0.439	<0.567	<1.28	<12.7	<0.618
Di-n-butylphthalate	mg/kg dry	<0.439	<0.567	<1.28	<12.7	<0.618
Di-n-octylphthalate	mg/kg dry	<0.439	<0.567	**234**	**2730**	**1.06**
Fluoranthene	mg/kg dry	**0.945**	<0.567	**1.62**	<12.7	**2.61**
Fluorene	mg/kg dry	<0.439	<0.567	<1.28	<12.7	<0.618
Hexachlorobenzene	mg/kg dry	<0.439	<0.567	<1.28	<12.7	<0.618
Hexachlorocyclopentadiene	mg/kg dry	<2.20	<2.84	<6.43	<63.7	<3.10
Indeno(1,2,3-cd)Pyrene	mg/kg dry	<0.439	<0.567	<1.28	<12.7	<0.618
Naphthalene	mg/kg dry	<0.439	<0.567	<1.28	<12.7	**7.11**
Phenanthrene	mg/kg dry	<0.439	<0.567	<1.28	<12.7	**3.1**
Phenol	mg/kg dry	<0.439	<0.567	<1.28	<12.7	<0.618
Pyrene	mg/kg dry	**1.53**	<0.567	<1.28	<12.7	**2.01**
2-Methylnaphthalene	mg/kg dry	**0.064**	<0.015	<0.158	<1.25	<0.076
Acenaphthene	mg/kg dry	<0.055	<0.015	<0.158	<1.25	<0.076
Acenaphthylene	mg/kg dry	**0.192**	<0.015	<0.158	<1.25	**0.085**
Anthracene	mg/kg dry	**0.19**	<0.015	<0.158	<1.25	**0.147**
Benzo(a)anthracene	mg/kg dry	**0.462**	<0.015	<0.158	<1.25	**0.452**
Benzo(a)pyrene	mg/kg dry	**0.597**	<0.015	**0.19**	<1.25	**0.571**
Benzo(b)fluoranthene	mg/kg dry	**0.746**	<0.015	**0.456**	<1.25	**0.727**
Benzo(g,h,i)perylene	mg/kg dry	**0.35**	<0.015	**0.31**	<1.25	**0.36**
Benzo(k)fluoranthene	mg/kg dry	**0.208**	<0.015	**0.177**	<1.25	**0.287**
Chrysene	mg/kg dry	**0.533**	<0.015	**0.272**	<1.25	**0.513**
Dibenzo(a,h)Anthracene	mg/kg dry	**0.104**	<0.015	<0.158	<1.25	**0.107**
Fluoranthene	mg/kg dry	**0.69**	<0.015	**0.317**	<1.25	**0.815**
Fluorene	mg/kg dry	**0.06**	<0.015	<0.158	<1.25	<0.076
Indeno(1,2,3-cd)Pyrene	mg/kg dry	**0.385**	<0.015	**0.323**	<1.25	**0.415**
Naphthalene	mg/kg dry	**0.124**	<0.015	<0.158	<1.25	**0.174**
Phenanthrene	mg/kg dry	**0.352**	<0.015	<0.158	<1.25	**0.397**
Pyrene	mg/kg dry	**0.916**	<0.015	**0.367**	<1.25	**0.788**
Total Organic Carbon	mg/kg	**71800**	-	**58500**	-	**24500**
C11-C22 Aromatics1,2	mg/kg dry	**146**	<42.6	**8040**	**13000**	**353**
C11-C22 Unadjusted Aromatics1	mg/kg dry	**152**	<42.6	**8040**	**13000**	**360**
C19-C36 Aliphatics1	mg/kg dry	**194**	<42.6	**573**	**320**	**321**
C9-C18 Aliphatics1	mg/kg dry	<33.0	<42.6	**2320**	**1830**	**78.6**
Antimony	mg/kg dry	**1.4**	<1.7	<3.8	<3.8	**2.5**
Arsenic	mg/kg dry	**43**	**3.4**	**7.1**	**13**	**80.9**
Barium	mg/kg dry	**49.7**	**20.5**	**54.4**	**37.1**	**81.7**
Beryllium	mg/kg dry	**0.4**	**0.48**	**0.43**	**0.28**	<0.38
Cadmium	mg/kg dry	<1.24	**0.46**	**2.11**	**1.77**	<1.84
Chromium	mg/kg dry	**42.3**	**19.9**	**62.2**	**58.8**	**45.2**
Lead	mg/kg dry	**148**	<3.4	**217**	**177**	**211**
Mercury	mg/kg dry	**0.634**	<0.032	**0.895**	**0.748**	**0.48**
Nickel	mg/kg dry	**13.7**	**11.2**	**19.3**	**17.7**	**17.2**
Selenium	mg/kg dry	**1.32**	<1.69	<3.84	<3.84	**2.38**
Silver	mg/kg dry	**2.16**	<0.34	**1.96**	**1.49**	**5.23**
Thallium	mg/kg dry	<1.24	<1.69	<3.84	<3.84	<1.84
Vanadium	mg/kg dry	**39.6**	**25.6**	**126**	**128**	**68.6**
Zinc	mg/kg dry	**319**	**32.6**	**276**	**231**	**596**

Wynn Resort Casino
Everett, Massachusetts

Analyte	Sample No. / Sample Date: / Sample Time: / ClientSample: / Units	1308109-12 08/05/2013 14:15 GZ-LC-3 0_5-2ft	1308109-13 08/05/2013 14:15 GZ-LC-3 4-6ft	1308109-14 08/06/2013 11:42 GZ-LC4 T 0-0_5ft	1308109-15 08/05/2013 14:25 GZ-LC4 0_5-2ft	1308109-16 08/05/2013 14:25 GZ-LC4 2-4ft
Aroclor 1016	mg/kg dry	<0.0398	<1.78	<0.0684	<0.0579	<2.42
Aroclor 1221	mg/kg dry	<0.0398	<1.78	<0.0684	<0.0579	<2.42
Aroclor 1232	mg/kg dry	<0.0398	<1.78	<0.0684	<0.0579	<2.42
Aroclor 1242	mg/kg dry	<0.0398	<1.78	<0.0684	<0.0579	<2.42
Aroclor 1248	mg/kg dry	**0.629**	**9.44**	**1.11**	**7.75**	**14.3**
Aroclor 1254	mg/kg dry	**0.791**	**15.4**	**1.25**	**10.1**	**22.7**
Aroclor 1260	mg/kg dry	**0.237**	<1.78	**0.533**	<0.0579	<2.42
Aroclor 1262	mg/kg dry	<0.0398	<1.78	<0.0684	<0.0579	<2.42
Aroclor 1268	mg/kg dry	<0.0398	<1.78	<0.0684	<0.0579	<2.42
1,2,4-Trichlorobenzene	mg/kg dry	<0.510	<45.4	<4.43	<0.741	<8.11
1,2-Dichlorobenzene	mg/kg dry	<0.510	<45.4	<4.43	<0.741	<8.11
1,3-Dichlorobenzene	mg/kg dry	<0.510	<45.4	<4.43	<0.741	<8.11
1,4-Dichlorobenzene	mg/kg dry	<0.510	<45.4	<4.43	<0.741	<8.11
2-Methylnaphthalene	mg/kg dry	<0.510	<45.4	<4.43	<0.741	<8.11
2-Methylphenol	mg/kg dry	<0.510	<45.4	<4.43	<0.741	<8.11
Acenaphthene	mg/kg dry	<0.510	<45.4	<4.43	<0.741	<8.11
Acenaphthylene	mg/kg dry	<0.510	<45.4	<4.43	<0.741	<8.11
Anthracene	mg/kg dry	<0.510	<45.4	<4.43	<0.741	<8.11
Benzo(a)anthracene	mg/kg dry	<0.510	<45.4	<4.43	**0.799**	<8.11
Benzo(a)pyrene	mg/kg dry	**0.488**	<22.7	<2.22	**1.46**	<4.07
Benzo(b)fluoranthene	mg/kg dry	**0.743**	<45.4	<4.43	**2.38**	<8.11
Benzo(g,h,i)perylene	mg/kg dry	<0.510	<45.4	<4.43	<0.741	<8.11
Benzo(k)fluoranthene	mg/kg dry	<0.510	<45.4	<4.43	**1.43**	<8.11
bis(2-Ethylhexyl)phthalate	mg/kg dry	**31.8**	**7320**	**534**	**6190**	**4280**
Butylbenzylphthalate	mg/kg dry	<0.510	<45.4	<4.43	**2.03**	**118**
Carbazole	mg/kg dry	<0.510	<45.4	<4.43	<0.741	<8.11
Chrysene	mg/kg dry	**0.44**	<22.7	<2.22	**1.79**	<4.07
Dibenzo(a,h)Anthracene	mg/kg dry	<0.256	<22.7	<2.22	<0.371	<4.07
Dibenzofuran	mg/kg dry	<0.510	<45.4	<4.43	<0.741	<8.11
Diethylphthalate	mg/kg dry	<0.510	<45.4	<4.43	<0.741	<8.11
Dimethylphthalate	mg/kg dry	<0.510	<45.4	<4.43	<0.741	<8.11
Di-n-butylphthalate	mg/kg dry	<0.510	<45.4	<4.43	<0.741	<8.11
Di-n-octylphthalate	mg/kg dry	**1.45**	**1420**	**5.15**	**156**	**1080**
Fluoranthene	mg/kg dry	**0.868**	<45.4	<4.43	**2.56**	<8.11
Fluorene	mg/kg dry	<0.510	<45.4	<4.43	<0.741	<8.11
Hexachlorobenzene	mg/kg dry	<0.510	<45.4	<4.43	<0.741	<8.11
Hexachlorocyclopentadiene	mg/kg dry	<2.56	<227	<22.2	<3.71	<40.7
Indeno(1,2,3-cd)Pyrene	mg/kg dry	<0.510	<45.4	<4.43	<0.741	<8.11
Naphthalene	mg/kg dry	<0.510	<45.4	<4.43	**2.55**	**713**
Phenanthrene	mg/kg dry	<0.510	<45.4	<4.43	**1.24**	<8.11
Phenol	mg/kg dry	<0.510	<45.4	<4.43	<0.741	<8.11
Pyrene	mg/kg dry	**0.884**	<45.4	<4.43	**2.19**	<8.11
2-Methylnaphthalene	mg/kg dry	<0.063	<0.114	<0.107	**0.104**	**0.543**
Acenaphthene	mg/kg dry	<0.063	<0.114	<0.107	**0.126**	<0.485
Acenaphthylene	mg/kg dry	<0.063	<0.114	<0.107	**0.152**	<0.485
Anthracene	mg/kg dry	**0.145**	<0.114	**0.119**	**0.296**	<0.485
Benzo(a)anthracene	mg/kg dry	**0.315**	**0.119**	**0.282**	**0.204**	**1.03**
Benzo(a)pyrene	mg/kg dry	**0.32**	<0.114	**0.346**	**0.619**	<0.485
Benzo(b)fluoranthene	mg/kg dry	**0.408**	**0.197**	**0.444**	**0.974**	**1.22**
Benzo(g,h,i)perylene	mg/kg dry	**0.21**	<0.114	**0.29**	**0.541**	<0.485
Benzo(k)fluoranthene	mg/kg dry	**0.115**	<0.114	**0.171**	**0.341**	**1.38**
Chrysene	mg/kg dry	**0.313**	**0.201**	**0.35**	**0.611**	**2.06**
Dibenzo(a,h)Anthracene	mg/kg dry	<0.063	<0.114	**0.196**	**0.156**	<0.485
Fluoranthene	mg/kg dry	**0.633**	**0.512**	**0.538**	**0.908**	**1.94**
Fluorene	mg/kg dry	<0.063	<0.114	<0.107	**0.185**	<0.485
Indeno(1,2,3-cd)Pyrene	mg/kg dry	**0.23**	<0.114	**0.346**	**0.578**	<0.485
Naphthalene	mg/kg dry	**0.07**	**0.599**	**0.145**	**0.6**	**26.4**
Phenanthrene	mg/kg dry	**0.438**	**0.384**	**0.341**	**0.833**	**0.989**
Pyrene	mg/kg dry	**0.541**	**0.416**	**0.525**	**0.915**	**0.834**
Total Organic Carbon	mg/kg	**18600**	-	**58700**	-	-
C11-C22 Aromatics1,2	mg/kg dry	**147**	**6430**	**433**	**1850**	**2000**
C11-C22 Unadjusted Aromatics1	mg/kg dry	**147**	**6430**	**446**	**1850**	**2070**
C19-C36 Aliphatics1	mg/kg dry	**117**	**111**	**721**	**798**	**284**
C9-C18 Aliphatics1	mg/kg dry	<38.5	**975**	**81.6**	**263**	**1510**
Antimony	mg/kg dry	**2.6**	<1.4	<2.5	**3.2**	**2.5**
Arsenic	mg/kg dry	**75.4**	**31.1**	**57.3**	**70.8**	**32.1**
Barium	mg/kg dry	**73.6**	**48.5**	**97.6**	**84.2**	**62.5**
Beryllium	mg/kg dry	<0.31	<0.28	**0.79**	**0.54**	<0.51
Cadmium	mg/kg dry	**1.8**	<1.35	<2.48	**2.6**	<2.43
Chromium	mg/kg dry	**28.2**	**29.5**	**106**	**84.7**	**33.7**
Lead	mg/kg dry	**163**	**117**	**336**	**337**	**135**
Mercury	mg/kg dry	**0.274**	**0.159**	**0.803**	**1.08**	**0.533**
Nickel	mg/kg dry	**13.8**	**11.5**	**34.9**	**41.5**	**17**
Selenium	mg/kg dry	**2.19**	**2.18**	**3.08**	**3.79**	<2.43
Silver	mg/kg dry	**5.58**	**3.75**	**4.4**	**5.02**	**2.75**
Thallium	mg/kg dry	<1.49	<1.35	<2.48	<2.16	<2.43
Vanadium	mg/kg dry	**51.4**	**62.4**	**109**	**180**	**112**
Zinc	mg/kg dry	**884**	**297**	**648**	**611**	**321**

Wynn Resort Casino
Everett, Massachusetts

Analyte	Sample No. / Sample Date: / Sample Time: / ClientSample: / Units	1308109-17 08/05/2013 14:25 GZ-LC4 4-6ft	1308109-18 08/05/2013 14:50 GZ-LC5 0-0_5ft	1308109-19 08/05/2013 14:50 GZ-LC5 2-4ft	1308109-20 08/05/2013 15:05 GZ-LC6 0-0_5ft	1308110-01 08/05/2013 15:05 GZ-LC6 2-4ft
Aroclor 1016	mg/kg dry	<2.08	<0.166	<0.0944	<0.147	<0.0901
Aroclor 1221	mg/kg dry	<2.08	<0.166	<0.0944	<0.147	<0.0901
Aroclor 1232	mg/kg dry	<2.08	<0.166	<0.0944	<0.147	<0.0901
Aroclor 1242	mg/kg dry	<2.08	<0.166	<0.0944	<0.147	<0.0901
Aroclor 1248	mg/kg dry	**20.9**	<0.166	**1.12**	**0.386**	**1.19**
Aroclor 1254	mg/kg dry	**29.5**	**0.915**	**1.21**	**0.767**	**1.45**
Aroclor 1260	mg/kg dry	<2.08	**1.01**	**0.924**	**0.749**	**1.21**
Aroclor 1262	mg/kg dry	<2.08	<0.166	<0.0944	<0.147	<0.0901
Aroclor 1268	mg/kg dry	<2.08	<0.166	<0.0944	<0.147	<0.0901
1,2,4-Trichlorobenzene	mg/kg dry	<13.2	<1.59	<0.905	<1.40	<1.16
1,2-Dichlorobenzene	mg/kg dry	<13.2	<1.59	<0.905	<1.40	<1.16
1,3-Dichlorobenzene	mg/kg dry	<13.2	<1.59	<0.905	<1.40	<1.16
1,4-Dichlorobenzene	mg/kg dry	<13.2	<1.59	<0.905	<1.40	<1.16
2-Methylnaphthalene	mg/kg dry	<13.2	<1.59	<0.905	<1.40	<1.16
2-Methylphenol	mg/kg dry	<13.2	<1.59	<0.905	<1.40	<1.16
Acenaphthene	mg/kg dry	<13.2	<1.59	<0.905	<1.40	<1.16
Acenaphthylene	mg/kg dry	<13.2	<1.59	<0.905	<1.40	<1.16
Anthracene	mg/kg dry	<13.2	<1.59	<0.905	<1.40	<1.16
Benzo(a)anthracene	mg/kg dry	<13.2	**1.64**	**1.19**	<1.40	<1.16
Benzo(a)pyrene	mg/kg dry	<6.60	**1.8**	**1.04**	**1.49**	<0.580
Benzo(b)fluoranthene	mg/kg dry	<13.2	**2.6**	**1.3**	**2.35**	<1.16
Benzo(g,h,i)perylene	mg/kg dry	<13.2	<1.59	<0.905	<1.40	<1.16
Benzo(k)fluoranthene	mg/kg dry	<13.2	<1.59	<0.905	<1.40	<1.16
bis(2-Ethylhexyl)phthalate	mg/kg dry	**15400**	**85.2**	**408**	**27.1**	**39.9**
Butylbenzylphthalate	mg/kg dry	**14.3**	<1.59	<0.905	<1.40	<1.16
Carbazole	mg/kg dry	<13.2	<1.59	<0.905	<1.40	<1.16
Chrysene	mg/kg dry	<6.60	**1.76**	**1.48**	**1.65**	<0.580
Dibenzo(a,h)Anthracene	mg/kg dry	<6.60	<0.796	<0.454	<0.704	<0.580
Dibenzofuran	mg/kg dry	<13.2	<1.59	<0.905	<1.40	<1.16
Diethylphthalate	mg/kg dry	<13.2	<1.59	<0.905	<1.40	<1.16
Dimethylphthalate	mg/kg dry	<13.2	<1.59	<0.905	<1.40	<1.16
Di-n-butylphthalate	mg/kg dry	<13.2	<1.59	<0.905	<1.40	<1.16
Di-n-octylphthalate	mg/kg dry	**4370**	<1.59	**5.02**	<1.40	<1.16
Fluoranthene	mg/kg dry	<13.2	**3.59**	**2.63**	**3.55**	<1.16
Fluorene	mg/kg dry	<13.2	<1.59	<0.905	<1.40	<1.16
Hexachlorobenzene	mg/kg dry	<13.2	<1.59	<0.905	<1.40	<1.16
Hexachlorocyclopentadiene	mg/kg dry	<66.0	<7.96	<4.54	<7.04	<5.80
Indeno(1,2,3-cd)Pyrene	mg/kg dry	<13.2	<1.59	<0.905	<1.40	<1.16
Naphthalene	mg/kg dry	<13.2	**1.85**	**1.22**	<1.40	<1.16
Phenanthrene	mg/kg dry	<13.2	<1.59	<0.905	<1.40	<1.16
Phenol	mg/kg dry	<13.2	<1.59	<0.905	<1.40	<1.16
Pyrene	mg/kg dry	<13.2	**3**	**2.52**	**2.9**	<1.16
2-Methylnaphthalene	mg/kg dry	**0.372**	<0.524	<0.149	<0.238	<0.144
Acenaphthene	mg/kg dry	<0.169	<0.524	<0.149	<0.238	<0.144
Acenaphthylene	mg/kg dry	<0.169	<0.524	<0.149	<0.238	**0.19**
Anthracene	mg/kg dry	<0.169	<0.524	**0.196**	<0.238	**0.195**
Benzo(a)anthracene	mg/kg dry	<0.169	**0.535**	**0.25**	**0.647**	**0.322**
Benzo(a)pyrene	mg/kg dry	<0.169	**0.66**	**0.256**	**0.923**	**0.351**
Benzo(b)fluoranthene	mg/kg dry	**0.169**	**0.933**	**0.309**	**1.45**	**0.437**
Benzo(g,h,i)perylene	mg/kg dry	<0.169	**0.619**	**0.238**	**0.904**	**0.299**
Benzo(k)fluoranthene	mg/kg dry	<0.169	<0.524	<0.149	**0.4**	**0.149**
Chrysene	mg/kg dry	**0.203**	**0.629**	**0.303**	**0.933**	**0.379**
Dibenzo(a,h)Anthracene	mg/kg dry	<0.169	<0.524	<0.149	**0.657**	<0.144
Fluoranthene	mg/kg dry	**0.298**	**1.01**	**0.487**	**1.52**	**0.546**
Fluorene	mg/kg dry	**0.169**	<0.524	<0.149	<0.238	<0.144
Indeno(1,2,3-cd)Pyrene	mg/kg dry	<0.169	**0.65**	**0.202**	**0.923**	**0.253**
Naphthalene	mg/kg dry	**4.37**	**0.608**	**0.262**	<0.238	**0.425**
Phenanthrene	mg/kg dry	**0.379**	<0.524	**0.22**	**0.39**	**0.184**
Pyrene	mg/kg dry	**0.264**	**1.04**	**0.612**	**1.32**	**0.736**
Total Organic Carbon	mg/kg	**-**	**150000**	**-**	**155000**	**-**
C11-C22 Aromatics1,2	mg/kg dry	<521	**583**	**875**	**498**	**617**
C11-C22 Unadjusted Aromatics1	mg/kg dry	<521	**583**	**875**	**503**	**617**
C19-C36 Aliphatics1	mg/kg dry	<521	**1130**	**1110**	**950**	**1010**
C9-C18 Aliphatics1	mg/kg dry	**3090**	<160	**286**	<147	**247**
Antimony	mg/kg dry	<4.0	<6.3	<3.4	<5.7	<3.5
Arsenic	mg/kg dry	**10.4**	**19.6**	**27**	**18.2**	**42.8**
Barium	mg/kg dry	**55.4**	**84.9**	**86.9**	**91.1**	**96.5**
Beryllium	mg/kg dry	**0.25**	**1.06**	**0.91**	**1.05**	**0.8**
Cadmium	mg/kg dry	**1.48**	**4.51**	**5.91**	**4.21**	**5.34**
Chromium	mg/kg dry	**60.3**	**92.5**	**128**	**96.2**	**141**
Lead	mg/kg dry	**180**	**326**	**391**	**312**	**473**
Mercury	mg/kg dry	**0.695**	**1.05**	**0.914**	**0.911**	**1.27**
Nickel	mg/kg dry	**17.8**	**36.1**	**48.2**	**32.7**	**53.3**
Selenium	mg/kg dry	<3.98	<6.27	<3.38	<5.68	<3.46
Silver	mg/kg dry	**1.41**	**1.92**	**1.77**	**1.73**	**2.31**
Thallium	mg/kg dry	<3.98	<6.27	<3.38	<5.68	<3.46
Vanadium	mg/kg dry	**159**	**77.1**	**94.2**	**65.6**	**106**
Zinc	mg/kg dry	<4.0	**672**	**1200**	**726**	**1290**

Wynn Resort Casino
Everett, Massachusetts

Analyte	Sample No. / Sample Date: / Sample Time: / ClientSample: / Units	1308110-02 08/05/2013 15:15 GZ-LC7 0-0_5ft	1308110-03 08/05/2013 15:15 GZ-LC7 2-4ft	1308110-04 08/05/2013 15:15 GZ-LC7 4-5ft4in	1308110-05 08/05/2013 15:25 GZ-LC8 0-0_5ft	1308110-06 08/05/2013 15:25 GZ-LC8 2-4ft
Aroclor 1016	mg/kg dry	<0.156	<0.0979	<0.0649	<0.165	<0.110
Aroclor 1221	mg/kg dry	<0.156	<0.0979	<0.0649	<0.165	<0.110
Aroclor 1232	mg/kg dry	<0.156	<0.0979	<0.0649	<0.165	<0.110
Aroclor 1242	mg/kg dry	<0.156	**7.76**	<0.0649	<0.165	<0.110
Aroclor 1248	mg/kg dry	**0.341**	<0.0979	**2.33**	**0.434**	**1.41**
Aroclor 1254	mg/kg dry	**0.826**	**3.79**	**2.06**	**0.74**	**1.71**
Aroclor 1260	mg/kg dry	**0.864**	**1.38**	**0.728**	**0.644**	**1.31**
Aroclor 1262	mg/kg dry	<0.156	<0.0979	<0.0649	<0.165	<0.110
Aroclor 1268	mg/kg dry	<0.156	<0.0979	<0.0649	<0.165	<0.110
1,2,4-Trichlorobenzene	mg/kg dry	<1.50	<1.25	<0.829	<2.07	<1.41
1,2-Dichlorobenzene	mg/kg dry	<1.50	<1.25	<0.829	<2.07	<1.41
1,3-Dichlorobenzene	mg/kg dry	<1.50	<1.25	<0.829	<2.07	<1.41
1,4-Dichlorobenzene	mg/kg dry	<1.50	<1.25	<0.829	<2.07	<1.41
2-Methylnaphthalene	mg/kg dry	<1.50	<1.25	<0.829	<2.07	<1.41
2-Methylphenol	mg/kg dry	<1.50	<1.25	<0.829	<2.07	<1.41
Acenaphthene	mg/kg dry	<1.50	<1.25	<0.829	<2.07	<1.41
Acenaphthylene	mg/kg dry	<1.50	<1.25	**1.15**	<2.07	<1.41
Anthracene	mg/kg dry	<1.50	<1.25	**1.19**	<2.07	<1.41
Benzo(a)anthracene	mg/kg dry	**2.02**	**3.42**	**3**	**2.39**	<1.41
Benzo(a)pyrene	mg/kg dry	**2.34**	**2.59**	**2.91**	**2.92**	**1.16**
Benzo(b)fluoranthene	mg/kg dry	**4.1**	**3.05**	**3.11**	**4.6**	**1.46**
Benzo(g,h,i)perylene	mg/kg dry	<1.50	<1.25	**1.58**	**2.87**	<1.41
Benzo(k)fluoranthene	mg/kg dry	**1.79**	**1.7**	**1.29**	<2.07	<1.41
bis(2-Ethylhexyl)phthalate	mg/kg dry	**32.8**	**689**	**417**	**32.4**	**173**
Butylbenzylphthalate	mg/kg dry	<1.50	<1.25	<0.829	<2.07	<1.41
Carbazole	mg/kg dry	<1.50	<1.25	<0.829	<2.07	<1.41
Chrysene	mg/kg dry	**2.57**	**3.47**	**3.56**	**4.03**	**1.49**
Dibenzo(a,h)Anthracene	mg/kg dry	<0.751	<0.626	**0.736**	**1.37**	<0.708
Dibenzofuran	mg/kg dry	<1.50	<1.25	<0.829	<2.07	<1.41
Diethylphthalate	mg/kg dry	<1.50	<1.25	<0.829	<2.07	<1.41
Dimethylphthalate	mg/kg dry	<1.50	<1.25	<0.829	<2.07	<1.41
Di-n-butylphthalate	mg/kg dry	<1.50	<1.25	<0.829	<2.07	<1.41
Di-n-octylphthalate	mg/kg dry	<1.50	**6.29**	**6.86**	<2.07	**1.52**
Fluoranthene	mg/kg dry	**5.09**	**6.45**	**5.97**	**8.07**	**2.39**
Fluorene	mg/kg dry	<1.50	<1.25	<0.829	<2.07	<1.41
Hexachlorobenzene	mg/kg dry	<1.50	<1.25	<0.829	<2.07	<1.41
Hexachlorocyclopentadiene	mg/kg dry	<7.51	<6.26	<4.16	<10.4	<7.08
Indeno(1,2,3-cd)Pyrene	mg/kg dry	<1.50	<1.25	**1.14**	**2.18**	<1.41
Naphthalene	mg/kg dry	<1.50	**1.37**	**0.879**	<2.07	<1.41
Phenanthrene	mg/kg dry	<1.50	**1.97**	**1.78**	<2.07	<1.41
Phenol	mg/kg dry	<1.50	<1.25	<0.829	<2.07	<1.41
Pyrene	mg/kg dry	**3.72**	**7.58**	**6.31**	**6.01**	**2.54**
2-Methylnaphthalene	mg/kg dry	<0.245	<0.154	**0.221**	<0.256	<0.177
Acenaphthene	mg/kg dry	<0.245	<0.154	**0.172**	<0.256	<0.177
Acenaphthylene	mg/kg dry	**0.274**	**0.277**	**0.832**	**0.767**	**0.304**
Anthracene	mg/kg dry	**0.255**	**0.339**	**0.844**	**0.829**	**0.325**
Benzo(a)anthracene	mg/kg dry	**0.686**	**0.549**	**1.65**	**3.08**	**0.551**
Benzo(a)pyrene	mg/kg dry	**0.98**	**0.653**	**1.63**	**4.18**	**0.692**
Benzo(b)fluoranthene	mg/kg dry	**1.48**	**0.752**	**2.2**	**6.51**	**0.953**
Benzo(g,h,i)perylene	mg/kg dry	**0.99**	**0.505**	**1.03**	**3.14**	**0.523**
Benzo(k)fluoranthene	mg/kg dry	**0.431**	**0.37**	**0.709**	**2.36**	**0.297**
Chrysene	mg/kg dry	**0.951**	**0.659**	**1.76**	**4.63**	**0.741**
Dibenzo(a,h)Anthracene	mg/kg dry	<0.245	<0.154	**0.34**	**0.829**	<0.177
Fluoranthene	mg/kg dry	**1.48**	**0.998**	**2.68**	**7.49**	**1.07**
Fluorene	mg/kg dry	<0.245	<0.154	**0.197**	<0.256	<0.177
Indeno(1,2,3-cd)Pyrene	mg/kg dry	**1**	**0.487**	**1.13**	**3.56**	**0.508**
Naphthalene	mg/kg dry	**0.245**	**0.376**	**0.836**	**0.389**	**0.346**
Phenanthrene	mg/kg dry	**0.402**	**0.419**	**0.84**	**1.52**	**0.417**
Pyrene	mg/kg dry	**1.36**	**1.2**	**3.48**	**6.59**	**1.25**
Total Organic Carbon	mg/kg	**160000**	**-**	**-**	**163000**	**105000**
C11-C22 Aromatics1,2	mg/kg dry	**317**	**643**	**1330**	**457**	**398**
C11-C22 Unadjusted Aromatics1	mg/kg dry	**317**	**643**	**1350**	**475**	**398**
C19-C36 Aliphatics1	mg/kg dry	**646**	**1130**	**944**	**1050**	**665**
C9-C18 Aliphatics1	mg/kg dry	<150	**182**	**458**	<162	**124**
Antimony	mg/kg dry	<5.9	<3.7	<2.3	<6.4	<4.1
Arsenic	mg/kg dry	**30.4**	**33**	**48.4**	**32.7**	**39.6**
Barium	mg/kg dry	**83**	**92.9**	**101**	**101**	**96.3**
Beryllium	mg/kg dry	**0.8**	**0.84**	**0.69**	**0.97**	**0.99**
Cadmium	mg/kg dry	**3.37**	**4.47**	**4.28**	**3.53**	**5.35**
Chromium	mg/kg dry	**89.8**	**109**	**96.4**	**96.7**	**153**
Lead	mg/kg dry	**321**	**415**	**318**	**362**	**554**
Mercury	mg/kg dry	**0.972**	**1.85**	**1.4**	**1.05**	**1.52**
Nickel	mg/kg dry	**31.6**	**43.1**	**23.3**	**33**	**60.7**
Selenium	mg/kg dry	<5.89	<3.69	**2.39**	<6.37	<4.11
Silver	mg/kg dry	**1.82**	**2.31**	**2.1**	**1.96**	**2.68**
Thallium	mg/kg dry	<5.89	<3.69	<2.34	<6.37	<4.11
Vanadium	mg/kg dry	**63.1**	**87.7**	**86.6**	**74.3**	**114**
Zinc	mg/kg dry	**743**	**854**	**743**	**884**	**1640**

Wynn Resort Casino
Everett, Massachusetts

Analyte	Sample No. / Sample Date: / Sample Time: / ClientSample: / Units	1308110-07 08/05/2013 15:25 GZ-LC8 4-6ft	1308110-08 08/05/2013 15:25 GZ-LC8 6-7ft3in	1308110-09 08/05/2013 15:35 GZ-LC9 0-0_5ft	1308110-10 08/05/2013 15:35 GZ-LC9 2-4ft	1308110-11 08/05/2013 15:35 GZ-LC9 4-5ft2in
Aroclor 1016	mg/kg dry	<0.0565	<0.0350	<0.154	<0.0899	<0.0524
Aroclor 1221	mg/kg dry	<0.0565	<0.0350	<0.154	<0.0899	<0.0524
Aroclor 1232	mg/kg dry	<0.0565	<0.0350	<0.154	<0.0899	<0.0524
Aroclor 1242	mg/kg dry	<0.0565	<0.0350	<0.154	<0.0899	<0.0524
Aroclor 1248	mg/kg dry	**2.75**	<0.0350	**0.319**	**3.4**	**1.25**
Aroclor 1254	mg/kg dry	**1.01**	<0.0350	**0.732**	**2.74**	**1.41**
Aroclor 1260	mg/kg dry	**0.449**	<0.0350	**0.672**	**1.09**	**0.456**
Aroclor 1262	mg/kg dry	<0.0565	<0.0350	<0.154	<0.0899	<0.0524
Aroclor 1268	mg/kg dry	<0.0565	<0.0350	<0.154	<0.0899	<0.0524
1,2,4-Trichlorobenzene	mg/kg dry	<0.710	<0.436	<1.96	<1.17	<0.654
1,2-Dichlorobenzene	mg/kg dry	<0.710	<0.436	<1.96	<1.17	<0.654
1,3-Dichlorobenzene	mg/kg dry	<0.710	<0.436	<1.96	<1.17	<0.654
1,4-Dichlorobenzene	mg/kg dry	<0.710	<0.436	<1.96	<1.17	<0.654
2-Methylnaphthalene	mg/kg dry	<0.710	<0.436	<1.96	<1.17	<0.654
2-Methylphenol	mg/kg dry	<0.710	<0.436	<1.96	<1.17	<0.654
Acenaphthene	mg/kg dry	<0.710	<0.436	<1.96	<1.17	<0.654
Acenaphthylene	mg/kg dry	**0.93**	<0.436	<1.96	<1.17	<0.654
Anthracene	mg/kg dry	<0.710	<0.436	<1.96	<1.17	<0.654
Benzo(a)anthracene	mg/kg dry	**1.55**	<0.436	<1.96	<1.17	**1.29**
Benzo(a)pyrene	mg/kg dry	**1.22**	<0.219	**1.61**	<0.585	**1.14**
Benzo(b)fluoranthene	mg/kg dry	**1.43**	<0.436	**3.2**	<1.17	**1.34**
Benzo(g,h,i)perylene	mg/kg dry	<0.710	<0.436	<1.96	<1.17	<0.654
Benzo(k)fluoranthene	mg/kg dry	<0.710	<0.436	**3.71**	<1.17	<0.654
bis(2-Ethylhexyl)phthalate	mg/kg dry	**344**	**55**	**21.5**	**102**	**232**
Butylbenzylphthalate	mg/kg dry	<0.710	<0.436	<1.96	<1.17	<0.654
Carbazole	mg/kg dry	<0.710	<0.436	<1.96	<1.17	<0.654
Chrysene	mg/kg dry	**1.91**	<0.219	**2.07**	<0.585	**1.35**
Dibenzo(a,h)Anthracene	mg/kg dry	<0.356	<0.219	<0.985	<0.585	<0.328
Dibenzofuran	mg/kg dry	<0.710	<0.436	<1.96	<1.17	<0.654
Diethylphthalate	mg/kg dry	<0.710	<0.436	<1.96	<1.17	<0.654
Dimethylphthalate	mg/kg dry	<0.710	<0.436	<1.96	<1.17	<0.654
Di-n-butylphthalate	mg/kg dry	<0.710	<0.436	<1.96	<1.17	<0.654
Di-n-octylphthalate	mg/kg dry	**5.17**	**0.632**	<1.96	**1.29**	**3.17**
Fluoranthene	mg/kg dry	**3**	<0.436	**3.43**	<1.17	**2.61**
Fluorene	mg/kg dry	<0.710	<0.436	<1.96	<1.17	<0.654
Hexachlorobenzene	mg/kg dry	<0.710	<0.436	<1.96	<1.17	<0.654
Hexachlorocyclopentadiene	mg/kg dry	<3.56	<2.19	<9.85	<5.85	<3.28
Indeno(1,2,3-cd)Pyrene	mg/kg dry	<0.710	<0.436	<1.96	<1.17	<0.654
Naphthalene	mg/kg dry	<0.710	<0.436	<1.96	<1.17	**0.702**
Phenanthrene	mg/kg dry	<0.710	<0.436	<1.96	<1.17	<0.654
Phenol	mg/kg dry	<0.710	<0.436	<1.96	<1.17	<0.654
Pyrene	mg/kg dry	**2.99**	<0.436	**2.5**	<1.17	**2.68**
2-Methylnaphthalene	mg/kg dry	<0.089	<0.011	<0.238	<0.143	<0.083
Acenaphthene	mg/kg dry	<0.089	<0.011	<0.238	<0.143	<0.083
Acenaphthylene	mg/kg dry	**0.222**	<0.011	**0.638**	**0.332**	**0.318**
Anthracene	mg/kg dry	**0.186**	<0.011	**0.59**	**0.378**	**0.325**
Benzo(a)anthracene	mg/kg dry	**0.34**	**0.012**	**1.66**	**0.578**	**0.554**
Benzo(a)pyrene	mg/kg dry	**0.386**	**0.012**	**2.37**	**0.629**	**0.557**
Benzo(b)fluoranthene	mg/kg dry	**0.436**	**0.013**	**3.82**	**0.778**	**0.663**
Benzo(g,h,i)perylene	mg/kg dry	**0.218**	<0.011	**1.79**	**0.429**	**0.292**
Benzo(k)fluoranthene	mg/kg dry	**0.125**	<0.011	**1.05**	**0.257**	**0.196**
Chrysene	mg/kg dry	**0.379**	**0.013**	**2.5**	**0.704**	**0.62**
Dibenzo(a,h)Anthracene	mg/kg dry	<0.089	<0.011	**0.476**	<0.143	**0.093**
Fluoranthene	mg/kg dry	**0.55**	**0.021**	**3.79**	**1.07**	**0.948**
Fluorene	mg/kg dry	<0.089	<0.011	<0.238	<0.143	<0.083
Indeno(1,2,3-cd)Pyrene	mg/kg dry	**0.222**	<0.011	**2.02**	**0.389**	**0.308**
Naphthalene	mg/kg dry	**0.264**	**0.013**	**0.438**	**0.349**	**0.288**
Phenanthrene	mg/kg dry	**0.193**	<0.011	**0.905**	**0.389**	**0.312**
Pyrene	mg/kg dry	**0.765**	**0.027**	**3.63**	**1.46**	**1.22**
Total Organic Carbon	mg/kg	**-**	**-**	**145000**	**-**	**-**
C11-C22 Aromatics1,2	mg/kg dry	**368**	<33.8	**403**	**1350**	**872**
C11-C22 Unadjusted Aromatics1	mg/kg dry	**368**	<33.8	**403**	**1370**	**887**
C19-C36 Aliphatics1	mg/kg dry	**296**	<33.8	**755**	**1730**	**658**
C9-C18 Aliphatics1	mg/kg dry	**132**	<33.8	<153	**557**	**309**
Antimony	mg/kg dry	<2.2	<1.3	<6.0	<3.5	<1.9
Arsenic	mg/kg dry	**29.2**	**10.8**	**33.6**	**52.6**	**36.4**
Barium	mg/kg dry	**66.1**	**25.6**	**92.7**	**119**	**78.4**
Beryllium	mg/kg dry	**0.56**	**0.31**	**0.85**	**0.86**	**0.6**
Cadmium	mg/kg dry	**4.83**	**0.47**	**3.47**	**6.01**	**2.89**
Chromium	mg/kg dry	**93.9**	**24.4**	**90.6**	**137**	**79**
Lead	mg/kg dry	**260**	**39.2**	**341**	**403**	**232**
Mercury	mg/kg dry	**1.01**	<0.018	**1**	**1.63**	**0.971**
Nickel	mg/kg dry	**30.6**	**10.3**	**32.2**	**40.1**	**20.6**
Selenium	mg/kg dry	<2.20	<1.27	<6.05	<3.49	<1.88
Silver	mg/kg dry	**1.55**	**0.45**	**1.85**	**2.66**	**1.66**
Thallium	mg/kg dry	<2.20	<1.27	<6.05	<3.49	<1.88
Vanadium	mg/kg dry	**74.8**	**28.5**	**68.3**	**122**	**75.2**
Zinc	mg/kg dry	**1440**	**99.9**	**804**	**1720**	**483**

Wynn Resort Casino
Everett, Massachusetts

Analyte	Sample No. Sample Date: Sample Time: ClientSample: Units	1308110-12 08/05/2013 15:45 GZ-LC10 0-0_5ft	1308110-13 08/05/2013 15:45 GZ-LC10 2-4ft
Aroclor 1016	mg/kg dry	<0.0955	<0.0356
Aroclor 1221	mg/kg dry	<0.0955	<0.0356
Aroclor 1232	mg/kg dry	<0.0955	<0.0356
Aroclor 1242	mg/kg dry	<0.0955	<0.0356
Aroclor 1248	mg/kg dry	**0.391**	<0.0356
Aroclor 1254	mg/kg dry	**0.67**	<0.0356
Aroclor 1260	mg/kg dry	**0.608**	<0.0356
Aroclor 1262	mg/kg dry	<0.0955	<0.0356
Aroclor 1268	mg/kg dry	<0.0955	<0.0356
1,2,4-Trichlorobenzene	mg/kg dry	<1.16	<0.446
1,2-Dichlorobenzene	mg/kg dry	<1.16	<0.446
1,3-Dichlorobenzene	mg/kg dry	<1.16	<0.446
1,4-Dichlorobenzene	mg/kg dry	<1.16	<0.446
2-Methylnaphthalene	mg/kg dry	<1.16	<0.446
2-Methylphenol	mg/kg dry	<1.16	<0.446
Acenaphthene	mg/kg dry	<1.16	<0.446
Acenaphthylene	mg/kg dry	<1.16	<0.446
Anthracene	mg/kg dry	<1.16	<0.446
Benzo(a)anthracene	mg/kg dry	<1.16	<0.446
Benzo(a)pyrene	mg/kg dry	**1.54**	<0.224
Benzo(b)fluoranthene	mg/kg dry	**2.54**	<0.446
Benzo(g,h,i)perylene	mg/kg dry	**1.24**	<0.446
Benzo(k)fluoranthene	mg/kg dry	<1.16	<0.446
bis(2-Ethylhexyl)phthalate	mg/kg dry	**27.2**	<0.446
Butylbenzylphthalate	mg/kg dry	<1.16	<0.446
Carbazole	mg/kg dry	<1.16	<0.446
Chrysene	mg/kg dry	**1.54**	<0.224
Dibenzo(a,h)Anthracene	mg/kg dry	<0.580	<0.224
Dibenzofuran	mg/kg dry	<1.16	<0.446
Diethylphthalate	mg/kg dry	<1.16	<0.446
Dimethylphthalate	mg/kg dry	<1.16	<0.446
Di-n-butylphthalate	mg/kg dry	<1.16	<0.446
Di-n-octylphthalate	mg/kg dry	<1.16	<0.446
Fluoranthene	mg/kg dry	**1.81**	<0.446
Fluorene	mg/kg dry	<1.16	<0.446
Hexachlorobenzene	mg/kg dry	<1.16	<0.446
Hexachlorocyclopentadiene	mg/kg dry	<5.80	<2.24
Indeno(1,2,3-cd)Pyrene	mg/kg dry	<1.16	<0.446
Naphthalene	mg/kg dry	<1.16	<0.446
Phenanthrene	mg/kg dry	<1.16	<0.446
Phenol	mg/kg dry	<1.16	<0.446
Pyrene	mg/kg dry	**2.06**	<0.446
2-Methylnaphthalene	mg/kg dry	<0.147	<0.012
Acenaphthene	mg/kg dry	<0.147	<0.012
Acenaphthylene	mg/kg dry	**0.593**	<0.012
Anthracene	mg/kg dry	**0.452**	<0.012
Benzo(a)anthracene	mg/kg dry	**0.886**	<0.012
Benzo(a)pyrene	mg/kg dry	**1.26**	<0.012
Benzo(b)fluoranthene	mg/kg dry	**1.86**	<0.012
Benzo(g,h,i)perylene	mg/kg dry	**0.915**	<0.012
Benzo(k)fluoranthene	mg/kg dry	**0.499**	<0.012
Chrysene	mg/kg dry	**1.17**	<0.012
Dibenzo(a,h)Anthracene	mg/kg dry	**0.252**	<0.012
Fluoranthene	mg/kg dry	**1.63**	<0.012
Fluorene	mg/kg dry	<0.147	<0.012
Indeno(1,2,3-cd)Pyrene	mg/kg dry	**0.962**	<0.012
Naphthalene	mg/kg dry	**0.464**	<0.012
Phenanthrene	mg/kg dry	**0.569**	<0.012
Pyrene	mg/kg dry	**1.71**	<0.012
Total Organic Carbon	mg/kg	**111000**	-
C11-C22 Aromatics1,2	mg/kg dry	**229**	<34.9
C11-C22 Unadjusted Aromatics1	mg/kg dry	**229**	<34.9
C19-C36 Aliphatics1	mg/kg dry	**390**	<34.9
C9-C18 Aliphatics1	mg/kg dry	<92.7	<34.9
Antimony	mg/kg dry	<3.7	<1.4
Arsenic	mg/kg dry	**27.2**	**4.1**
Barium	mg/kg dry	**77**	**11.1**
Beryllium	mg/kg dry	**0.65**	**0.21**
Cadmium	mg/kg dry	**3.42**	<0.28
Chromium	mg/kg dry	**73.2**	**11.6**
Lead	mg/kg dry	**275**	<2.8
Mercury	mg/kg dry	**0.89**	<0.018
Nickel	mg/kg dry	**31.5**	**6.9**
Selenium	mg/kg dry	<3.66	<1.40
Silver	mg/kg dry	**1.62**	<0.28
Thallium	mg/kg dry	<3.66	<1.40
Vanadium	mg/kg dry	**58.4**	**14.7**
Zinc	mg/kg dry	**709**	**21**

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LEGEND

⊗ 2013 SEDIMENT SAMPLE LOCATION

APPROXIMATE PROPERTY BOUNDS

SOURCE

1) THIS MAP CONTAINS THE ESRI ArcGIS ONLINE BING MAPS AERIAL LAYER PACKAGE, PUBLISHED DECEMBER 1, 2010 BY ESRI ARCIMS SERVICES AND UPDATED MONTHLY. THIS SERVICE USES UNIFORM NATIONALLY RECOGNIZED DATUM AND CARTOGRAPHY STANDARDS AND A VARIETY OF AVAILABLE SOURCES FROM SEVERAL DATA PROVIDERS. esri

2) THE SAMPLE LOCATIONS AND ELEVATIONS WERE APPROXIMATELY DETERMINED BY GPS. THIS DATA SHOULD BE CONSIDERED ACCURATE ONLY TO THE DEGREE IMPLIED BY THE METHOD USED

0 100 200 400

SCALE IN FEET

UNLESS SPECIFICALLY STATED BY WRITTEN AGREEMENT, THIS DRAWING IS THE SOLE PROPERTY OF GZA GEOENVIRONMENTAL, INC. (GZA). THE INFORMATION SHOWN ON THE DRAWING IS SOLELY FOR THE USE BY GZA'S CLIENT OR THE CLIENT'S DESIGNATED REPRESENTATIVE FOR THE SPECIFIC PROJECT AND LOCATION IDENTIFIED ON THE DRAWING. THE DRAWING SHALL NOT BE TRANSFERRED, REUSED, COPIED, OR ALTERED IN ANY MANNER FOR USE AT ANY OTHER LOCATION OR FOR ANY OTHER PURPOSE WITHOUT THE PRIOR WRITTEN CONSENT OF GZA, ANY TRANSFER, REUSE, OR MODIFICATION TO THE DRAWING BY THE CLIENT OR OTHERS, WITHOUT THE PRIOR WRITTEN EXPRESS CONSENT OF GZA, WILL BE AT THE USER'S SOLE RISK AND WITHOUT ANY RISK OR LIABILITY TO GZA.

WYNN EVERETT

EVERETT, MA

2013 MYSTIC RIVER UPSTREAM SEDIMENT SAMPLE LOCATIONS

PREPARED BY:		PREPARED FOR:	
GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		WYNN MA, LLC.	
PROJ MGR: DEL	REVIEWED BY: DEL	CHECKED BY: DEL	FIGURE E-1
DESIGNED BY: TLB	DRAWN BY: JAI	SCALE: 1 " = 200 FEET	
DATE: 09/15/2015	PROJECT NO. 01.0171521.13	REVISION NO.	

APPENDIX F

CORE LOGS

SEDIMENT CORE LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Wynn Everett
Horizon Way
Everett, Massachusetts

CORE NO.: GZ-1
SHEET: 1 of 1
PROJECT NO: 171521.02
REVIEWED BY:

Drilling Co.: C.R. Environmental	**Type of Rig:** Vibracore	**Core Location:** See Plan	**H. Datum:**
Foreman: Ken Thompson	**Rig Model:** N/A	**Ground Surface Elev. (ft.):**	**V. Datum:**
Logged By: Jason Chrzanowski	**Drilling Method:** Direct-Push	**Final Core Depth (ft.):** 12	
		Date Start - Finish: 7/31/2013 - 7/31/2013	

Auger/Casing Type:	**Sampler Type:** 12' Core Barrel	
I.D/O.D.(in):	**I.D./O.D. (in.):** 4"	
Hammer Weight (lb.):	**Sampler Hmr Wt (lb):**	
Hammer Fall (in.):	**Sampler Hmr Fall (in):**	
Other:	**Other:**	

Groundwater Depth (ft.)

Date	Time	Water Depth	Casing	Stab. Time

Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Sample Pen. (ft)	Sample Rec. (ft)	Sample Blows (per 6 in.)	Sample SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Stratum Depth (ft.)	Stratum Description	Stratum Elev. (ft.)
				12	9			0'-6'2": Black MUCK, Silty Clay, trace-little Gravel, trace fine Sand				MUCK	
5											6.17'		
								6'2"-9': Gray Organic SILT & CLAY, Hydrogen Sulfide odor				ORGANIC SILT & CLAY	
10											9'		
								Bottom of core at 12 feet.					
15													
20													
25													
30													

REMARKS

See Log Key for explanation of sample description and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

Core No.: GZ-1

171521.02 WYNN EVERETT.GPJ; WYNN-CORE; 9/29/2015

SEDIMENT CORE LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Wynn Everett
Horizon Way
Everett, Massachusetts

CORE NO.: GZ-10
SHEET: 1 of 1
PROJECT NO: 171521.02
REVIEWED BY:

Drilling Co.: C.R. Environmental	**Type of Rig:** Vibracore	**Core Location:** See Plan	**H. Datum:**
Foreman: Ken Thompson	**Rig Model:** N/A	**Ground Surface Elev. (ft.):**	**V. Datum:**
Logged By: Jason Chrzanowski	**Drilling Method:** Direct-Push	**Final Core Depth (ft.):** 12	
		Date Start - Finish: 7/31/2013 - 7/31/2013	

		Groundwater Depth (ft.)				
Auger/Casing Type:	**Sampler Type:** 12' Core Barrel	**Date**	**Time**	**Water Depth**	**Casing**	**Stab. Time**
I.D/O.D.(in):	**I.D./O.D. (in.):** 4"					
Hammer Weight (lb.):	**Sampler Hmr Wt (lb):**					
Hammer Fall (in.):	**Sampler Hmr Fall (in):**					
Other:	**Other:**					

Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Sample Pen. (ft)	Sample Rec. (ft)	Sample Blows (per 6 in.)	Sample SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Stratum Depth (ft.)	Stratum Description	Stratum Elev. (ft.)
				12	5.67			0-5'8": Black, mucky SILT & CLAY, little gravel, trace Organic fibers, Hydrogen Sulfide odor				MUCKY SILT & CLAY	
5											5.67'		
10													
								Bottom of core at 12 feet.					
15													
20													
25													
30													

REMARKS

See Log Key for explanation of sample description and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

Core No.: GZ-10

SEDIMENT CORE LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Wynn Everett
Horizon Way
Everett, Massachusetts

CORE NO.: GZ-101
SHEET: 1 of 1
PROJECT NO: 171521.02
REVIEWED BY:

Drilling Co.: C.R. Environmental	**Type of Rig:** Vibracore	**Core Location:** See Plan	**H. Datum:**
Foreman: Ken Thompson	**Rig Model:** N/A	**Ground Surface Elev. (ft.):**	**V. Datum:**
Logged By: Jason Chrzanowski	**Drilling Method:** Direct-Push	**Final Core Depth (ft.):** 12	
		Date Start - Finish: 8/1/2013 - 8/1/2013	

Auger/Casing Type:	**Sampler Type:** 12' Core Barrel	**Groundwater Depth (ft.)**			
I.D/O.D.(in):	**I.D./O.D. (in.):** 4"	**Date**	**Time**	**Water Depth**	**Casing**	**Stab. Time**
Hammer Weight (lb.):	**Sampler Hmr Wt (lb):**					
Hammer Fall (in.):	**Sampler Hmr Fall (in):**					
Other:	**Other:**					

Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Sample Pen. (ft)	Sample Rec. (ft)	Sample Blows (per 6 in.)	Sample SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Stratum Depth (ft.)	Stratum Description	Stratum Elev. (ft.)
				12	9			0'-3'10": Black MUCK, Silt & Clay, trace Organic fibers & wood fragments				MUCK	
											3.83'		'
5								3'10"-7'5": Dark gray, Organic SILT & CLAY, trace Organic fibers, Hydrogen Sulfide odor, few patches of white paste-like material, 1" band at 5'11"-6'				ORGANIC SILT & CLAY	
								7'5"-9': Dark gray Organic SILT & CLAY, trace fine Sand lenses (brown), trace Organic fibers			9'		'
10													
								Bottom of core at 12 feet.					
15													
20													
25													
30													

REMARKS

See Log Key for explanation of sample description and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

Core No.: GZ-101

171521.02 WYNN EVERETT.GPJ; WYNN-CORE; 9/29/2015

SEDIMENT CORE LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Wynn Everett
Horizon Way
Everett, Massachusetts

CORE NO.: GZ-102
SHEET: 1 of 1
PROJECT NO: 171521.02
REVIEWED BY:

Drilling Co.: C.R. Environmental	**Type of Rig:** Vibracore	**Core Location:** See Plan	**H. Datum:**
Foreman: Ken Thompson	**Rig Model:** N/A	**Ground Surface Elev. (ft.):**	**V. Datum:**
Logged By: Jason Chrzanowski	**Drilling Method:** Direct-Push	**Final Core Depth (ft.):** 12	
		Date Start - Finish: 8/1/2013 - 8/1/2013	

Auger/Casing Type:	**Sampler Type:** 12' Core Barrel	
I.D/O.D.(in):	**I.D./O.D. (in.):** 4"	
Hammer Weight (lb.):	**Sampler Hmr Wt (lb):**	
Hammer Fall (in.):	**Sampler Hmr Fall (in):**	
Other:	**Other:**	

Groundwater Depth (ft.)

Date	Time	Water Depth	Casing	Stab. Time

Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Sample Pen. (ft)	Sample Rec. (ft)	Sample Blows (per 6 in.)	Sample SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Stratum Depth (ft.)	Stratum Description	Stratum Elev. (ft.)
				12	10.17			0'-4'4.5": Black mucky SILT & CLAY, trace wood fragment				MUCKY SILT & CLAY	
5								4'4.5"-10'2": Dark gray Organic SILT & CLAY, trace fine Sand lenses, few patches white pastelike material and 3" band at 6'2"-6'5", Hydrogen Sulfide odor			4.38'		'
10												ORGANIC SILT & CLAY	
											10.17'		'
								Bottom of core at 12 feet.					
15													
20													
25													
30													

REMARKS

See Log Key for explanation of sample description and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

Core No.: GZ-102

171521.02 WYNN EVERETT.GPJ; WYNN-CORE; 9/29/2015

SEDIMENT CORE LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Wynn Everett
Horizon Way
Everett, Massachusetts

CORE NO.: GZ-103
SHEET: 1 of 1
PROJECT NO: 171521.02
REVIEWED BY:

Drilling Co.: C.R. Environmental	**Type of Rig:** Vibracore	**Core Location:** See Plan	**H. Datum:**
Foreman: Ken Thompson	**Rig Model:** N/A	**Ground Surface Elev. (ft.):**	**V. Datum:**
Logged By: Jason Chrzanowski	**Drilling Method:** Direct-Push	**Final Core Depth (ft.):** 10	
		Date Start - Finish: 8/1/2013 - 8/1/2013	

Auger/Casing Type:	**Sampler Type:** 12' Core Barrel	
I.D/O.D.(in):	**I.D./O.D. (in.):** 4"	
Hammer Weight (lb.):	**Sampler Hmr Wt (lb):**	
Hammer Fall (in.):	**Sampler Hmr Fall (in):**	
Other:	**Other:**	

Groundwater Depth (ft.)

Date	Time	Water Depth	Casing	Stab. Time

Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Sample Pen. (ft)	Sample Rec. (ft)	Sample Blows (per 6 in.)	Sample SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Stratum Depth (ft.)	Stratum Description	Stratum Elev. (ft.)
				10	7.5			0'-3'6": Black MUCK, Silt & Clay, Hydrogen Sulfide odor				MUCK	
											3.5'		'
5								3'6"-7'6": Dark gray Organic SILT & CLAY, trace fine Sand, alternating dark gray-brown bands from 3'6"-5', small 1/4" or less white paste-like bands, intermittent, 1/2" band at 6'7"				ORGANIC SILT & CLAY	
											7.5'		'
10								Bottom of core at 10 feet.					
15													
20													
25													
30													

REMARKS

See Log Key for explanation of sample description and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

Core No.: GZ-103

SEDIMENT CORE LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Wynn Everett
Horizon Way
Everett, Massachusetts

CORE NO.: GZ-104
SHEET: 1 of 1
PROJECT NO: 171521.02
REVIEWED BY:

Drilling Co.: C.R. Environmental	**Type of Rig:** Vibracore	**Core Location:** See Plan	**H. Datum:**
Foreman: Ken Thompson	**Rig Model:** N/A	**Ground Surface Elev. (ft.):**	**V. Datum:**
Logged By: Jason Chrzanowski	**Drilling Method:** Direct-Push	**Final Core Depth (ft.):** 12	
		Date Start - Finish: 8/1/2013 - 8/1/2013	

		Groundwater Depth (ft.)				
Auger/Casing Type:	**Sampler Type:** 12' Core Barrel	**Date**	**Time**	**Water Depth**	**Casing**	**Stab. Time**
I.D/O.D.(in):	**I.D./O.D. (in.):** 4"					
Hammer Weight (lb.):	**Sampler Hmr Wt (lb):**					
Hammer Fall (in.):	**Sampler Hmr Fall (in):**					
Other:	**Other:**					

Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Sample Pen. (ft)	Sample Rec. (ft)	Sample Blows (per 6 in.)	Sample SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Stratum Depth (ft.)	Stratum Description	Stratum Elev. (ft.)
				12	7.92			0'-0'6": Black MUCK 0'6"-3'5": Black SILT & CLAY, trace shells, trace Organic fibers 3'5"-5'5": Gray Organic SILT, little-some fine Sand, trace shells, trace fine-coarse gravel, Hydrogen Sulfide odor 5'5"-7'11": Gray, Organic, clayey SILT, trace fine Sand, trace shells, (2) lg shells (~1.5-2") at 6'7"-6'10", Hydrogen Sulfide odor			0.5'	MUCK	'
												SILT & CLAY	
											3.42'		'
5												ORGANIC SILT	
											5.42'		'
												ORGANIC CLAYEY SILT	
10											7.92'		'
								Bottom of core at 12 feet.					
15													
20													
25													
30													

REMARKS

See Log Key for explanation of sample description and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

Core No.: GZ-104

171521.02 WYNN EVERETT.GPJ; WYNN-CORE; 9/29/2015

SEDIMENT CORE LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Wynn Everett
Horizon Way
Everett, Massachusetts

CORE NO.: GZ-105
SHEET: 1 of 1
PROJECT NO: 171521.02
REVIEWED BY:

Drilling Co.: C.R. Environmental	**Type of Rig:** Vibracore	**Core Location:** See Plan	**H. Datum:**
Foreman: Ken Thompson	**Rig Model:** N/A	**Ground Surface Elev. (ft.):**	**V. Datum:**
Logged By: Jason Chrzanowski	**Drilling Method:** Direct-Push	**Final Core Depth (ft.):** 12	
		Date Start - Finish: 8/1/2013 - 8/1/2013	

		Groundwater Depth (ft.)				
Auger/Casing Type:	**Sampler Type:** 12' Core Barrel	**Date**	**Time**	**Water Depth**	**Casing**	**Stab. Time**
I.D/O.D.(in):	**I.D./O.D. (in.):** 4"					
Hammer Weight (lb.):	**Sampler Hmr Wt (lb):**					
Hammer Fall (in.):	**Sampler Hmr Fall (in):**					
Other:	**Other:**					

Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Sample Pen. (ft)	Sample Rec. (ft)	Sample Blows (per 6 in.)	Sample SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Stratum Depth (ft.)	Stratum Description	Stratum Elev. (ft.)
0				12	8.5			0'-0'6": Black MUCK 0'6"-6'9": Black SILT & CLAY, moderate petroleum-like odor, 3-4 faint sheen spots at 5'			0.5'	MUCK	'
5												SILT & CLAY	
								6'9"-8'6": Dark gray Organic SILT & CLAY, trace Organic fibers, faint petroleum-like odor			6.75'		'
10												ORGANIC SILT & CLAY	
											8.5'		'
								Bottom of core at 12 feet.					
15													
20													
25													
30													

REMARKS

See Log Key for explanation of sample description and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

Core No.: GZ-105

171521.02 WYNN EVERETT.GPJ; WYNN-CORE; 9/29/2015

SEDIMENT CORE LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Wynn Everett
Horizon Way
Everett, Massachusetts

CORE NO.: GZ-106
SHEET: 1 of 1
PROJECT NO: 171521.02
REVIEWED BY:

Drilling Co.: C.R. Environmental	**Type of Rig:** Vibracore	**Core Location:** See Plan	**H. Datum:**
Foreman: Ken Thompson	**Rig Model:** N/A	**Ground Surface Elev. (ft.):**	**V. Datum:**
Logged By: Jason Chrzanowski	**Drilling Method:** Direct-Push	**Final Core Depth (ft.):** 12	
		Date Start - Finish: 8/1/2013 - 8/1/2013	

		Groundwater Depth (ft.)				
Auger/Casing Type:	**Sampler Type:** 12' Core Barrel	**Date**	**Time**	**Water Depth**	**Casing**	**Stab. Time**
I.D/O.D.(in):	**I.D./O.D. (in.):** 4"					
Hammer Weight (lb.):	**Sampler Hmr Wt (lb):**					
Hammer Fall (in.):	**Sampler Hmr Fall (in):**					
Other:	**Other:**					

Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Sample Pen. (ft)	Sample Rec. (ft)	Sample Blows (per 6 in.)	Sample SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Stratum Depth (ft.)	Stratum Description	Stratum Elev. (ft.)
				12	8.5			0'-0'6": Black MUCK 0'6"-4'3.5": Black SILT & CLAY, trace shells, faint petroleum-like odor 4'3.5"-8'6": Dark gray, Organic SILT & CLAY; 7'-8' has alternating banding dark gray-olive gray; 1" band white paste-like material at 6'1"			0.5'	MUCK	'
												SILT & CLAY	
											4.25'		'
												ORGANIC SILT & CLAY	
											8.5'		'
								Bottom of core at 12 feet.					

5
10
15
20
25
30

REMARKS

See Log Key for explanation of sample description and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

Core No.: GZ-106

171521.02 WYNN EVERETT.GPJ; WYNN-CORE; 9/29/2015

SEDIMENT CORE LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Wynn Everett
Horizon Way
Everett, Massachusetts

CORE NO.: GZ-107
SHEET: 1 of 1
PROJECT NO: 171521.02
REVIEWED BY:

Drilling Co.: C.R. Environmental	**Type of Rig:** Vibracore	**Core Location:** See Plan	**H. Datum:**
Foreman: Ken Thompson	**Rig Model:** N/A	**Ground Surface Elev. (ft.):**	**V. Datum:**
Logged By: Jason Chrzanowski	**Drilling Method:** Direct-Push	**Final Core Depth (ft.):** 12	
		Date Start - Finish: 8/1/2013 - 8/1/2013	

		Groundwater Depth (ft.)				
Auger/Casing Type:	**Sampler Type:** 12' Core Barrel	**Date**	**Time**	**Water Depth**	**Casing**	**Stab. Time**
I.D/O.D.(in):	**I.D./O.D. (in.):** 4"					
Hammer Weight (lb.):	**Sampler Hmr Wt (lb):**					
Hammer Fall (in.):	**Sampler Hmr Fall (in):**					
Other:	**Other:**					

Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Sample Pen. (ft)	Sample Rec. (ft)	Sample Blows (per 6 in.)	Sample SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Stratum Depth (ft.)	Stratum Description	Stratum Elev. (ft.)
				12	9.42			0'-0'4": Black MUCK 0'4"-9'5": Dark gray Organic SILT & CLAY, trace Organic fibers. Black staining 7'-7'9" with moderate petroleum-like odor			0.33'	MUCK	
5												ORGANIC SILT & CLAY	
10											9.42'		
								Bottom of core at 12 feet.					
15													
20													
25													
30													

REMARKS

See Log Key for explanation of sample description and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

Core No.: GZ-107

171521.02 WYNN EVERETT.GPJ; WYNN-CORE; 9/29/2015

SEDIMENT CORE LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Wynn Everett
Horizon Way
Everett, Massachusetts

CORE NO.: GZ-108
SHEET: 1 of 1
PROJECT NO: 171521.02
REVIEWED BY:

Drilling Co.: C.R. Environmental	**Type of Rig:** Vibracore	**Core Location:** See Plan	**H. Datum:**
Foreman: Ken Thompson	**Rig Model:** N/A	**Ground Surface Elev. (ft.):**	**V. Datum:**
Logged By: Jason Chrzanowski	**Drilling Method:** Direct-Push	**Final Core Depth (ft.):** 10	
		Date Start - Finish: 8/1/2013 - 8/1/2013	

Auger/Casing Type:	**Sampler Type:** 12' Core Barrel	
I.D/O.D.(in):	**I.D./O.D. (in.):** 4"	
Hammer Weight (lb.):	**Sampler Hmr Wt (lb):**	
Hammer Fall (in.):	**Sampler Hmr Fall (in):**	
Other:	**Other:**	

Groundwater Depth (ft.)

Date	Time	Water Depth	Casing	Stab. Time

Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Sample Pen. (ft)	Sample Rec. (ft)	Sample Blows (per 6 in.)	Sample SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Stratum Depth (ft.)	Stratum Description	Stratum Elev. (ft.)
				10	10.17			0'-0'9": Black MUCK & SILT 0'9"-2'5": Black SILT & CLAY, trace shale 2'5"-8'5": Dark gray Organic SILT & CLAY, trace Organic fibers, patches white paste-like material alternating from 4'-8'5" 8'5"-10'2": Dark gray-black CLAY & SILT, faint Hydrogen Sulfide odor			0.75'	MUCK & SILT	
											2.42'	SILT & CLAY	
											8.42'	ORGANIC SILT & CLAY	
											10.17'	CLAY & SILT	
								Bottom of core at 10 feet.					

5 10 15 20 25 30

REMARKS

See Log Key for explanation of sample description and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

Core No.: GZ-108

171521.02 WYNN EVERETT.GPJ; WYNN-CORE; 9/29/2015

SEDIMENT CORE LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Wynn Everett
Horizon Way
Everett, Massachusetts

CORE NO.: GZ-109
SHEET: 1 of 1
PROJECT NO: 171521.02
REVIEWED BY:

Drilling Co.: C.R. Environmental	**Type of Rig:** Vibracore	**Core Location:** See Plan	**H. Datum:**
Foreman: Ken Thompson	**Rig Model:** N/A	**Ground Surface Elev. (ft.):**	**V. Datum:**
Logged By: Jason Chrzanowski	**Drilling Method:** Direct-Push	**Final Core Depth (ft.):** 7.42	
		Date Start - Finish: 8/2/2013 - 8/2/2013	

		Groundwater Depth (ft.)				
Auger/Casing Type:	**Sampler Type:** 12' Core Barrel	**Date**	**Time**	**Water Depth**	**Casing**	**Stab. Time**
I.D/O.D.(in):	**I.D./O.D. (in.):** 4"					
Hammer Weight (lb.):	**Sampler Hmr Wt (lb):**					
Hammer Fall (in.):	**Sampler Hmr Fall (in):**					
Other:	**Other:**					

Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Sample Pen. (ft)	Sample Rec. (ft)	Sample Blows (per 6 in.)	Sample SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Stratum Depth (ft.)	Stratum Description	Stratum Elev. (ft.)
				7.42	2.33			0'-1': Dark gray, fine-medium SAND & SILT, some Gravel, trace Shells, sheen at top 1'-2'4": Gray fine SAND & SILT, trace organics, red bands of staining from 1'-1'10", yellow sand-like grains from 1'-1'10"			2.33'	SAND & SILT	
5													
								Bottom of core at 7.42 feet.					
10													
15													
20													
25													
30													

REMARKS

See Log Key for explanation of sample description and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

Core No.: GZ-109

171521.02 WYNN EVERETT.GPJ; WYNN-CORE; 9/29/2015

SEDIMENT CORE LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Wynn Everett
Horizon Way
Everett, Massachusetts

CORE NO.: GZ-11
SHEET: 1 of 1
PROJECT NO: 171521.02
REVIEWED BY:

Drilling Co.: C.R. Environmental	**Type of Rig:** Vibracore	**Core Location:** See Plan	**H. Datum:**
Foreman: Ken Thompson	**Rig Model:** N/A	**Ground Surface Elev. (ft.):**	**V. Datum:**
Logged By: Jason Chrzanowski	**Drilling Method:** Direct-Push	**Final Core Depth (ft.):** 12	
		Date Start - Finish: 7/31/2013 - 7/31/2013	

Auger/Casing Type:	**Sampler Type:** 12' Core Barrel	
I.D/O.D.(in):	**I.D./O.D. (in.):** 4"	
Hammer Weight (lb.):	**Sampler Hmr Wt (lb):**	
Hammer Fall (in.):	**Sampler Hmr Fall (in):**	
Other:	**Other:**	

Groundwater Depth (ft.)

Date	Time	Water Depth	Casing	Stab. Time

Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Sample Pen. (ft)	Sample Rec. (ft)	Sample Blows (per 6 in.)	Sample SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Stratum Depth (ft.)	Stratum Description	Stratum Elev. (ft.)
				12	9			0'-3': Black MUCK, Silt & Clay, little Gravel, trace Organic fibers				MUCK	
											3'		
								3'-3'5": Medium-coarse SAND & Ash			3.42'	SAND	
5								3'5"-9': Dark gray Organic SILT & CLAY, trace Gravel, trace Organic fibers	1				
												SILT & CLAY	
											9'		
10													
								Bottom of core at 12 feet.					
15													
20													
25													
30													

REMARKS

1. White paste-like bands throughout; 4'3"-4'6", 5'7"-5'10", then smaller intermittent bands to end

See Log Key for explanation of sample description and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

Core No.: GZ-11

SEDIMENT CORE LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Wynn Everett
Horizon Way
Everett, Massachusetts

CORE NO.: GZ-110B
SHEET: 1 of 1
PROJECT NO: 171521.02
REVIEWED BY:

Drilling Co.: C.R. Environmental	**Type of Rig:** Vibracore	**Core Location:** See Plan	**H. Datum:**
Foreman: Ken Thompson	**Rig Model:** N/A	**Ground Surface Elev. (ft.):**	**V. Datum:**
Logged By: Daniel Scanlon	**Drilling Method:** Direct-Push	**Final Core Depth (ft.):** 10.4	
		Date Start - Finish: 8/5/2013 - 8/5/2013	

		Groundwater Depth (ft.)				
Auger/Casing Type:	**Sampler Type:** 12' Core Barrel	**Date**	**Time**	**Water Depth**	**Casing**	**Stab. Time**
I.D/O.D.(in):	**I.D./O.D. (in.):** 4"					
Hammer Weight (lb.):	**Sampler Hmr Wt (lb):**					
Hammer Fall (in.):	**Sampler Hmr Fall (in):**					
Other:	**Other:**					

Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Sample Pen. (ft)	Sample Rec. (ft)	Sample Blows (per 6 in.)	Sample SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Stratum Depth (ft.)	Stratum Description	Stratum Elev. (ft.)
				10.42	7			0'-1': Brown-gray, fine-medium SAND, little Silt, little shells, trace fine Gravel, slight Hydrogen Sulfide odor 1'-7': Grayish brown, Organic SILT, trace fine Sand, trace Organics, trace shells, moderate-strong Hydrogen Sulfide odor			1'	SAND	'
5												ORGANIC SILT	
											7'		'
10								Bottom of core at 10.4 feet.					
15													
20													
25													
30													

REMARKS

See Log Key for explanation of sample description and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

Core No.: GZ-110B

171521.02 WYNN EVERETT.GPJ; WYNN-CORE; 9/29/2015

SEDIMENT CORE LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Wynn Everett
Horizon Way
Everett, Massachusetts

CORE NO.: GZ-111
SHEET: 1 of 1
PROJECT NO: 171521.02
REVIEWED BY:

Drilling Co.: C.R. Environmental	**Type of Rig:** Vibracore	**Core Location:** See Plan	**H. Datum:**
Foreman: Ken Thompson	**Rig Model:** N/A	**Ground Surface Elev. (ft.):**	**V. Datum:**
Logged By: Jason Chrzanowski	**Drilling Method:** Direct-Push	**Final Core Depth (ft.):** 12	
		Date Start - Finish: 8/1/2013 - 8/1/2013	

Auger/Casing Type:	**Sampler Type:** 12' Core Barrel	
I.D/O.D.(in):	**I.D./O.D. (in.):** 4"	
Hammer Weight (lb.):	**Sampler Hmr Wt (lb):**	
Hammer Fall (in.):	**Sampler Hmr Fall (in):**	
Other:	**Other:**	

Groundwater Depth (ft.)

Date	Time	Water Depth	Casing	Stab. Time

Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Sample Pen. (ft)	Sample Rec. (ft)	Sample Blows (per 6 in.)	Sample SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Stratum Depth (ft.)	Stratum Description	Stratum Elev. (ft.)
				12	7.92			0'-0'7": Black MUCK			0.58'	MUCK	'
								0'7"-6'9": Dark gray Organic SILT & CLAY, trace Organic fibers, black staining from 3'4"-6'9" with moderate petroleum-like odor				SILT & CLAY	
5											6.75'		'
								6'9"-7'11": Olive gray fine SAND, little silt, little shells			7.92'	SAND	'
10													
								Bottom of core at 12 feet.					
15													
20													
25													
30													

REMARKS

See Log Key for explanation of sample description and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

Core No.: GZ-111

SEDIMENT CORE LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Wynn Everett
Horizon Way
Everett, Massachusetts

CORE NO.: GZ-112
SHEET: 1 of 1
PROJECT NO: 171521.02
REVIEWED BY:

Drilling Co.: C.R. Environmental	**Type of Rig:** Vibracore	**Core Location:** See Plan	**H. Datum:**
Foreman: Ken Thompson	**Rig Model:** N/A	**Ground Surface Elev. (ft.):**	**V. Datum:**
Logged By: Jason Chrzanowski	**Drilling Method:** Direct-Push	**Final Core Depth (ft.):** 12	
		Date Start - Finish: 8/1/2013 - 8/1/2013	

		Groundwater Depth (ft.)				
Auger/Casing Type:	**Sampler Type:** 12' Core Barrel	**Date**	**Time**	**Water Depth**	**Casing**	**Stab. Time**
I.D/O.D.(in):	**I.D./O.D. (in.):** 4"					
Hammer Weight (lb.):	**Sampler Hmr Wt (lb):**					
Hammer Fall (in.):	**Sampler Hmr Fall (in):**					
Other:	**Other:**					

Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Sample Pen. (ft)	Sample Rec. (ft)	Sample Blows (per 6 in.)	Sample SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Stratum Depth (ft.)	Stratum Description	Stratum Elev. (ft.)
				12	9			0'-2': Black, mucky SILT & CLAY				MUCKY SILT & CLAY	
								2'-5'4": Dark gray, Organic SILT & CLAY, Hydrogen Sulfide odor, white paste-like material at 4'			2'		
5								5'4"-8': Dark gray Organic SILT & CLAY, alternating dark gray/white layers with trace organic fibers				ORGANIC SILT & CLAY	
								8'-9': Black SILT & CLAY, moderate petroleum-like odor			8'		
10											9'	SILT & CLAY	
								Bottom of core at 12 feet.					
15													
20													
25													
30													

REMARKS

See Log Key for explanation of sample description and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

Core No.: GZ-112

171521.02 WYNN EVERETT.GPJ; WYNN-CORE; 9/29/2015

SEDIMENT CORE LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Wynn Everett
Horizon Way
Everett, Massachusetts

CORE NO.: GZ-113
SHEET: 1 of 1
PROJECT NO: 171521.02
REVIEWED BY:

Drilling Co.: C.R. Environmental	**Type of Rig:** Vibracore	**Core Location:** See Plan	**H. Datum:**
Foreman: Ken Thompson	**Rig Model:** N/A	**Ground Surface Elev. (ft.):**	**V. Datum:**
Logged By: Jason Chrzanowski	**Drilling Method:** Direct-Push	**Final Core Depth (ft.):** 12	
		Date Start - Finish: 8/1/2013 - 8/1/2013	

		Groundwater Depth (ft.)				
Auger/Casing Type:	**Sampler Type:** 12' Core Barrel	**Date**	**Time**	**Water Depth**	**Casing**	**Stab. Time**
I.D/O.D.(in):	**I.D./O.D. (in.):** 4"					
Hammer Weight (lb.):	**Sampler Hmr Wt (lb):**					
Hammer Fall (in.):	**Sampler Hmr Fall (in):**					
Other:	**Other:**					

Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Sample Pen. (ft)	Sample Rec. (ft)	Sample Blows (per 6 in.)	Sample SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Stratum Depth (ft.)	Stratum Description	Stratum Elev. (ft.)
				12	9			0'-0'9": Black mucky SILT 0'9"-2': Dark gray SILT & CLAY, little Organic fibers 2'-4'3": Dark gray, Organic SILT, little-some Organic fibers, trace gravel, trace green-yellow sand-like material lens at 2'7" 4'3"-9': Gray fine SAND & SILT, some shells 5'-6'6", Hydrogen Sulfide-like odor			0.75'	SILT	'
											2'	SILT & CLAY	'
											4.25'	ORGANIC SILT	'
											9'	SAND & SILT	'
								Bottom of core at 12 feet.					

REMARKS

See Log Key for explanation of sample description and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

Core No.: GZ-113

SEDIMENT CORE LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Wynn Everett
Horizon Way
Everett, Massachusetts

CORE NO.: GZ-114
SHEET: 1 of 1
PROJECT NO: 171521.02
REVIEWED BY:

Drilling Co.: C.R. Environmental	**Type of Rig:** Vibracore	**Core Location:** See Plan	**H. Datum:**
Foreman: Ken Thompson	**Rig Model:** N/A	**Ground Surface Elev. (ft.):**	**V. Datum:**
Logged By: Jason Chrzanowski	**Drilling Method:** Direct-Push	**Final Core Depth (ft.):** 11.5	
		Date Start - Finish: 8/1/2013 - 8/1/2013	

		Groundwater Depth (ft.)				
Auger/Casing Type:	**Sampler Type:** 12' Core Barrel	**Date**	**Time**	**Water Depth**	**Casing**	**Stab. Time**
I.D/O.D.(in):	**I.D./O.D. (in.):** 4"					
Hammer Weight (lb.):	**Sampler Hmr Wt (lb):**					
Hammer Fall (in.):	**Sampler Hmr Fall (in):**					
Other:	**Other:**					

Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Sample Pen. (ft)	Sample Rec. (ft)	Sample Blows (per 6 in.)	Sample SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Stratum Depth (ft.)	Stratum Description	Stratum Elev. (ft.)
				11.5	8			0'-0'6": Dark gray MUCK & SILT 0'6"-2'6": Dark gray Organic SILT & CLAY 2'6"-5': Black SILT & CLAY with faint to moderate petroleum-like odor 5'-7': Gray, fine SAND, some Silt			0.5'	MUCK & SILT	'
											2.5'	ORGANIC SILT & CLAY	'
5											5'	SILT & CLAY	'
											7'	SAND	'
10													
								Bottom of core at 11.5 feet.					
15													
20													
25													
30													

REMARKS

See Log Key for explanation of sample description and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

Core No.: GZ-114

SEDIMENT CORE LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Wynn Everett
Horizon Way
Everett, Massachusetts

CORE NO.: GZ-115
SHEET: 1 of 1
PROJECT NO: 171521.02
REVIEWED BY:

Drilling Co.: C.R. Environmental	**Type of Rig:** Vibracore	**Core Location:** See Plan	**H. Datum:**
Foreman: Ken Thompson	**Rig Model:** N/A	**Ground Surface Elev. (ft.):**	**V. Datum:**
Logged By: Jason Chrzanowski	**Drilling Method:** Direct-Push	**Final Core Depth (ft.):** 12	
		Date Start - Finish: 8/1/2013 - 8/1/2013	

Auger/Casing Type:	**Sampler Type:** 12' Core Barrel
I.D/O.D.(in):	**I.D./O.D. (in.):** 4"
Hammer Weight (lb.):	**Sampler Hmr Wt (lb):**
Hammer Fall (in.):	**Sampler Hmr Fall (in):**
Other:	**Other:**

Groundwater Depth (ft.)

Date	Time	Water Depth	Casing	Stab. Time

Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Sample Pen. (ft)	Sample Rec. (ft)	Sample Blows (per 6 in.)	Sample SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Stratum Depth (ft.)	Stratum Description	Stratum Elev. (ft.)
				12	9.83			0'-0'10": Black mucky SILT			0.83'	MUCKY SILT	'
								0'10"-4'9": Dark gray-black SILT & CLAY, trace Organic fibers, moderate petroleum-like odor				SILT & CLAY	
5											4.75'		'
								4'9"-9'10": Gray Organic SILT & CLAY, trace Organic fibers, alternating bands of white paste-like material				ORGANIC SILT & CLAY	
10											9.83'		'
								Bottom of core at 12 feet.					
15													
20													
25													
30													

REMARKS

See Log Key for explanation of sample description and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

Core No.: GZ-115

SEDIMENT CORE LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Wynn Everett
Horizon Way
Everett, Massachusetts

CORE NO.: GZ-116
SHEET: 1 of 1
PROJECT NO: 171521.02
REVIEWED BY:

Drilling Co.: C.R. Environmental	**Type of Rig:** Vibracore	**Core Location:** See Plan	**H. Datum:**
Foreman: Ken Thompson	**Rig Model:** N/A	**Ground Surface Elev. (ft.):**	**V. Datum:**
Logged By: Jason Chrzanowski	**Drilling Method:** Direct-Push	**Final Core Depth (ft.):** 12	
		Date Start - Finish: 8/2/2013 - 8/2/2013	

Auger/Casing Type:	**Sampler Type:** 12' Core Barrel	
I.D/O.D.(in):	**I.D./O.D. (in.):** 4"	
Hammer Weight (lb.):	**Sampler Hmr Wt (lb):**	
Hammer Fall (in.):	**Sampler Hmr Fall (in):**	
Other:	**Other:**	

Groundwater Depth (ft.)

Date	Time	Water Depth	Casing	Stab. Time

Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Sample Pen. (ft)	Sample Rec. (ft)	Sample Blows (per 6 in.)	Sample SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Stratum Depth (ft.)	Stratum Description	Stratum Elev. (ft.)
				12	9			0'-4'4": Dark brown, fine-coarse SAND, little Silt, trace Gravel, trace Shells; red staining on outside, white & gray paste-like material 1'2"-1'7". Yellow-green sand-like grains 1'7"-2'2" and 3'8"-4'4". Red staining inside & out from 2'1"-4'4"				SAND	
5								4'4"-9': Gray, fine SAND & SILT, red staining on outside, trace large Shells			4.33'		
												SAND & SILT	
10											9'		
								Bottom of core at 12 feet.					
15													
20													
25													
30													

REMARKS

See Log Key for explanation of sample description and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

Core No.: GZ-116

171521.02 WYNN EVERETT.GPJ; WYNN-CORE; 9/29/2015

SEDIMENT CORE LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Wynn Everett
Horizon Way
Everett, Massachusetts

CORE NO.: GZ-117
SHEET: 1 of 1
PROJECT NO: 171521.02
REVIEWED BY:

Drilling Co.: C.R. Environmental	**Type of Rig:** Vibracore	**Core Location:** See Plan	**H. Datum:**
Foreman: Ken Thompson	**Rig Model:** N/A	**Ground Surface Elev. (ft.):**	**V. Datum:**
Logged By: Jason Chrzanowski	**Drilling Method:** Direct-Push	**Final Core Depth (ft.):** 12	
		Date Start - Finish: 8/1/2013 - 8/1/2013	

		Groundwater Depth (ft.)				
Auger/Casing Type:	**Sampler Type:** 12' Core Barrel	**Date**	**Time**	**Water Depth**	**Casing**	**Stab. Time**
I.D/O.D.(in):	**I.D./O.D. (in.):** 4"					
Hammer Weight (lb.):	**Sampler Hmr Wt (lb):**					
Hammer Fall (in.):	**Sampler Hmr Fall (in):**					
Other:	**Other:**					

Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Sample Pen. (ft)	Sample Rec. (ft)	Sample Blows (per 6 in.)	Sample SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Stratum Depth (ft.)	Stratum Description	Stratum Elev. (ft.)
				12	8.92			0'-0'7": Black MUCK, Silt & Clay 0'7"-4': Dark gray-black Organic SILT & CLAY, moderate petroleum-like odor 4'-8'11": Dark gray-gray Organic SILT & CLAY, trace Organic fibers, very fine alternating bands of white paste-like material from 4'-8'11"			0.58'	MUCK	'
												ORGANIC SILT & CLAY	
											8.92'		'
								Bottom of core at 12 feet.					

5
10
15
20
25
30

REMARKS

See Log Key for explanation of sample description and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

Core No.: GZ-117

171521.02 WYNN EVERETT.GPJ; WYNN-CORE; 9/29/2015

SEDIMENT CORE LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Wynn Everett
Horizon Way
Everett, Massachusetts

CORE NO.: GZ-118A
SHEET: 1 of 1
PROJECT NO: 171521.02
REVIEWED BY:

Drilling Co.: C.R. Environmental	**Type of Rig:** Vibracore	**Core Location:** See Plan	**H. Datum:**
Foreman: Ken Thompson	**Rig Model:** N/A	**Ground Surface Elev. (ft.):**	**V. Datum:**
Logged By: Daniel Scanlon	**Drilling Method:** Direct-Push	**Final Core Depth (ft.):** 4	
		Date Start - Finish: 8/5/2013 - 8/5/2013	

Auger/Casing Type:	**Sampler Type:** 12' Core Barrel	
I.D/O.D.(in):	**I.D./O.D. (in.):** 4"	
Hammer Weight (lb.):	**Sampler Hmr Wt (lb):**	
Hammer Fall (in.):	**Sampler Hmr Fall (in):**	
Other:	**Other:**	

Groundwater Depth (ft.)

Date	Time	Water Depth	Casing	Stab. Time

Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Sample Pen. (ft)	Sample Rec. (ft)	Sample Blows (per 6 in.)	Sample SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Stratum Depth (ft.)	Stratum Description	Stratum Elev. (ft.)
				4	1			0'-1': Brown & black, fine-coarse SAND, little Silt, little fine Gravel, trace shells, no odor			1'	SAND	'
5								Bottom of core at 4 feet.					
10													
15													
20													
25													
30													

REMARKS

See Log Key for explanation of sample description and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

Core No.: GZ-118A

171521.02 WYNN EVERETT.GPJ; WYNN-CORE; 9/29/2015

SEDIMENT CORE LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Wynn Everett
Horizon Way
Everett, Massachusetts

CORE NO.: GZ-119
SHEET: 1 of 1
PROJECT NO: 171521.02
REVIEWED BY:

Drilling Co.: C.R. Environmental	**Type of Rig:** Vibracore	**Core Location:** See Plan	**H. Datum:**
Foreman: Ken Thompson	**Rig Model:** N/A	**Ground Surface Elev. (ft.):**	**V. Datum:**
Logged By: Jason Chrzanowski	**Drilling Method:** Direct-Push	**Final Core Depth (ft.):** 12	
		Date Start - Finish: 8/1/2013 - 8/1/2013	

		Groundwater Depth (ft.)				
Auger/Casing Type:	**Sampler Type:** 12' Core Barrel	**Date**	**Time**	**Water Depth**	**Casing**	**Stab. Time**
I.D/O.D.(in):	**I.D./O.D. (in.):** 4"					
Hammer Weight (lb.):	**Sampler Hmr Wt (lb):**					
Hammer Fall (in.):	**Sampler Hmr Fall (in):**					
Other:	**Other:**					

Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Sample Pen. (ft)	Sample Rec. (ft)	Sample Blows (per 6 in.)	Sample SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Stratum Depth (ft.)	Stratum Description	Stratum Elev. (ft.)
0				12	7.25			0'-0'11":Dark gray MUCK & SILT 0'11"-7'3": Dark gray-black Organic SILT & CLAY, trace-little organic fibers, intermittent bands of white paste-like material, moderate-strong petroleum-like odor from 5'-7'			0.92'	MUCK & SILT	
												ORGANIC SILT & CLAY	
											7.25'		
								Bottom of core at 12 feet.					

5
10
15
20
25
30

REMARKS

See Log Key for explanation of sample description and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

Core No.: GZ-119

171521.02 WYNN EVERETT.GPJ; WYNN-CORE; 9/29/2015

SEDIMENT CORE LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Wynn Everett
Horizon Way
Everett, Massachusetts

CORE NO.: GZ-12
SHEET: 1 of 1
PROJECT NO: 171521.02
REVIEWED BY:

Drilling Co.: C.R. Environmental	**Type of Rig:** Vibracore	**Core Location:** See Plan	**H. Datum:**
Foreman: Ken Thompson	**Rig Model:** N/A	**Ground Surface Elev. (ft.):**	**V. Datum:**
Logged By: Jason Chrzanowski	**Drilling Method:** Direct-Push	**Final Core Depth (ft.):** 12	
		Date Start - Finish: 7/31/2013 - 7/31/2013	

Auger/Casing Type:	**Sampler Type:** 12' Core Barrel	
I.D/O.D.(in):	**I.D./O.D. (in.):** 4"	
Hammer Weight (lb.):	**Sampler Hmr Wt (lb):**	
Hammer Fall (in.):	**Sampler Hmr Fall (in):**	
Other:	**Other:**	

Groundwater Depth (ft.)

Date	Time	Water Depth	Casing	Stab. Time

Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Sample Pen. (ft)	Sample Rec. (ft)	Sample Blows (per 6 in.)	Sample SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Stratum Depth (ft.)	Stratum Description	Stratum Elev. (ft.)
				12	10			0'-2'10": Black-dark gray MUCK, Silt & Clay				MUCK	
											2.83'		'
5								2'10"-10': Dark gray Organic SILT, trace Organic fibers, white paste-like material at 3'5"-3'6"	1			ORGANIC SILT	
10											10'		'
								Bottom of core at 12 feet.					
15													
20													
25													
30													

REMARKS

1. Patch of white paste-like material at 3'5"-3'6"

See Log Key for explanation of sample description and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

Core No.: GZ-12

171521.02 WYNN EVERETT.GPJ; WYNN-CORE; 9/29/2015

SEDIMENT CORE LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Wynn Everett
Horizon Way
Everett, Massachusetts

CORE NO.: GZ-120
SHEET: 1 of 1
PROJECT NO: 171521.02
REVIEWED BY:

Drilling Co.: C.R. Environmental	**Type of Rig:** Vibracore	**Core Location:** See Plan	**H. Datum:**
Foreman: Ken Thompson	**Rig Model:** N/A	**Ground Surface Elev. (ft.):**	**V. Datum:**
Logged By: Jason Chrzanowski	**Drilling Method:** Direct-Push	**Final Core Depth (ft.):** 11	
		Date Start - Finish: 8/2/2013 - 8/2/2013	

		Groundwater Depth (ft.)				
Auger/Casing Type:	**Sampler Type:** 12' Core Barrel	**Date**	**Time**	**Water Depth**	**Casing**	**Stab. Time**
I.D/O.D.(in):	**I.D./O.D. (in.):** 4"					
Hammer Weight (lb.):	**Sampler Hmr Wt (lb):**					
Hammer Fall (in.):	**Sampler Hmr Fall (in):**					
Other:	**Other:**					

Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Sample Pen. (ft)	Sample Rec. (ft)	Sample Blows (per 6 in.)	Sample SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Stratum Depth (ft.)	Stratum Description	Stratum Elev. (ft.)
0				11	8.08			0'-0'4": Gray, fine-coarse SAND & GRAVEL, little Silt, little Organics 0'4"-7'10": Fine SAND, little Silt, trace Organic fibers, faint Hydrogen Sulfide odor			0.33'	SAND & GRAVEL	
5												SAND	
10								7'10"-8'1": Fine-medium SAND, trace gravel			8.08'		
								Bottom of core at 11 feet.					
15													
20													
25													
30													

REMARKS

See Log Key for explanation of sample description and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

Core No.: GZ-120

171521.02 WYNN EVERETT.GPJ; WYNN-CORE; 9/29/2015

SEDIMENT CORE LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Wynn Everett
Horizon Way
Everett, Massachusetts

CORE NO.: GZ-121
SHEET: 1 of 1
PROJECT NO: 171521.02
REVIEWED BY:

Drilling Co.: C.R. Environmental	**Type of Rig:** Vibracore	**Core Location:** See Plan	**H. Datum:**
Foreman: Ken Thompson	**Rig Model:** N/A	**Ground Surface Elev. (ft.):**	**V. Datum:**
Logged By: Jason Chrzanowski	**Drilling Method:** Direct-Push	**Final Core Depth (ft.):** 12	
		Date Start - Finish: 8/1/2013 - 8/1/2013	

Auger/Casing Type:	**Sampler Type:** 12' Core Barrel	
I.D/O.D.(in):	**I.D./O.D. (in.):** 4"	
Hammer Weight (lb.):	**Sampler Hmr Wt (lb):**	
Hammer Fall (in.):	**Sampler Hmr Fall (in):**	
Other:	**Other:**	

Groundwater Depth (ft.)

Date	Time	Water Depth	Casing	Stab. Time

Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Sample Pen. (ft)	Sample Rec. (ft)	Sample Blows (per 6 in.)	Sample SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Stratum Depth (ft.)	Stratum Description	Stratum Elev. (ft.)
				12	10.08			0'-3'4": Gray, SILT & CLAY; alternating white paste-like bands at 3'-3'4"				SILT & CLAY	
											3.33'		'
5								3'4"-10'1": Black Organic clayey SILT, trace-little Organic fibers, moderate petroleum-like odor				ORGANIC CLAYEY SILT	
10											10.08'		'
								Bottom of core at 12 feet.					
15													
20													
25													
30													

REMARKS

See Log Key for explanation of sample description and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

Core No.: GZ-121

171521.02 WYNN EVERETT.GPJ; WYNN-CORE; 9/29/2015

SEDIMENT CORE LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Wynn Everett
Horizon Way
Everett, Massachusetts

CORE NO.: GZ-122
SHEET: 1 of 1
PROJECT NO: 171521.02
REVIEWED BY:

Drilling Co.: C.R. Environmental	**Type of Rig:** Vibracore	**Core Location:** See Plan	**H. Datum:**
Foreman: Ken Thompson	**Rig Model:** N/A	**Ground Surface Elev. (ft.):**	**V. Datum:**
Logged By: Jason Chrzanowski	**Drilling Method:** Direct-Push	**Final Core Depth (ft.):** 10	
		Date Start - Finish: 8/2/2013 - 8/2/2013	

Auger/Casing Type:	**Sampler Type:** 12' Core Barrel	
I.D/O.D.(in):	**I.D./O.D. (in.):** 4"	
Hammer Weight (lb.):	**Sampler Hmr Wt (lb):**	
Hammer Fall (in.):	**Sampler Hmr Fall (in):**	
Other:	**Other:**	

Groundwater Depth (ft.)

Date	Time	Water Depth	Casing	Stab. Time

Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Sample Pen. (ft)	Sample Rec. (ft)	Sample Blows (per 6 in.)	Sample SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Stratum Depth (ft.)	Stratum Description	Stratum Elev. (ft.)
				11.5	10			0'-0'10": Dark gray MUCK, fine-coarse Sand, fine-coarse Gravel, some Silt 0'10"-10': Gray fine SAND, trace Silt, trace Organic fibers. 1" lens of Organics at 6'1", trace shells at 7'8". 4" lens of fine-medium Sand at 8'7"-8'11"			0.83'	MUCK	'
5												SAND	
10											10'		'
								Bottom of core at 10 feet.					
15													
20													
25													
30													

REMARKS

See Log Key for explanation of sample description and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

Core No.: GZ-122

SEDIMENT CORE LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Wynn Everett
Horizon Way
Everett, Massachusetts

CORE NO.: GZ-123
SHEET: 1 of 1
PROJECT NO: 171521.02
REVIEWED BY:

Drilling Co.: C.R. Environmental	**Type of Rig:** Vibracore	**Core Location:** See Plan	**H. Datum:**
Foreman: Ken Thompson	**Rig Model:** N/A	**Ground Surface Elev. (ft.):**	**V. Datum:**
Logged By: Jason Chrzanowski	**Drilling Method:** Direct-Push	**Final Core Depth (ft.):** 12	
		Date Start - Finish: 8/1/2013 - 8/1/2013	

		Groundwater Depth (ft.)				
Auger/Casing Type:	**Sampler Type:** 12' Core Barrel	**Date**	**Time**	**Water Depth**	**Casing**	**Stab. Time**
I.D/O.D.(in):	**I.D./O.D. (in.):** 4"					
Hammer Weight (lb.):	**Sampler Hmr Wt (lb):**					
Hammer Fall (in.):	**Sampler Hmr Fall (in):**					
Other:	**Other:**					

Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Sample Pen. (ft)	Sample Rec. (ft)	Sample Blows (per 6 in.)	Sample SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Stratum Depth (ft.)	Stratum Description	Stratum Elev. (ft.)
0				12	8.33			0'-3'10": Soft, dark gray SILT & CLAY, trace sheen, trace white paste-like material				SILT & CLAY	
											3.83'		
5								3'10"-8': Black Organic CLAYEY SILT, little Organic fibers, moderate petroleum-like odor				ORGANIC CLAYEY SILT	
											8'		
10								8'-8'4": Black CLAY, moderate petroleum-like odor			8.33'	CLAY	
								Bottom of core at 12 feet.					
15													
20													
25													
30													

REMARKS

See Log Key for explanation of sample description and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

Core No.: GZ-123

171521.02 WYNN EVERETT.GPJ; WYNN-CORE; 9/29/2015

SEDIMENT CORE LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Wynn Everett
Horizon Way
Everett, Massachusetts

CORE NO.: GZ-124
SHEET: 1 of 1
PROJECT NO: 171521.02
REVIEWED BY:

Drilling Co.: C.R. Environmental	**Type of Rig:** Vibracore	**Core Location:** See Plan	**H. Datum:**
Foreman: Ken Thompson	**Rig Model:** N/A	**Ground Surface Elev. (ft.):**	**V. Datum:**
Logged By: Jason Chrzanowski	**Drilling Method:** Direct-Push	**Final Core Depth (ft.):** 11.58	
		Date Start - Finish: 8/2/2013 - 8/2/2013	

Auger/Casing Type:	**Sampler Type:** 12' Core Barrel	
I.D/O.D.(in):	**I.D./O.D. (in.):** 4"	
Hammer Weight (lb.):	**Sampler Hmr Wt (lb):**	
Hammer Fall (in.):	**Sampler Hmr Fall (in):**	
Other:	**Other:**	

Groundwater Depth (ft.)

Date	Time	Water Depth	Casing	Stab. Time

Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Sample Pen. (ft)	Sample Rec. (ft)	Sample Blows (per 6 in.)	Sample SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Stratum Depth (ft.)	Stratum Description	Stratum Elev. (ft.)
				11.58	8.75			0'-0'4": Gray fine SAND, some Silt, little shells 0'4"-8'9": Gray fine SAND, little-trace Silt, trace Organics (thin, compressed lenses)				SAND	
5											8.75'		
10													
								Bottom of core at 11.58 feet.					
15													
20													
25													
30													

REMARKS

See Log Key for explanation of sample description and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

Core No.: GZ-124

171521.02 WYNN EVERETT.GPJ; WYNN-CORE; 9/29/2015

SEDIMENT CORE LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Wynn Everett
Horizon Way
Everett, Massachusetts

CORE NO.: GZ-125A
SHEET: 1 of 1
PROJECT NO: 171521.02
REVIEWED BY:

Drilling Co.: C.R. Environmental	**Type of Rig:** Vibracore	**Core Location:** See Plan	**H. Datum:**
Foreman: Ken Thompson	**Rig Model:** N/A	**Ground Surface Elev. (ft.):**	**V. Datum:**
Logged By: Daniel Scanlon	**Drilling Method:** Direct-Push	**Final Core Depth (ft.):** 11.5	
		Date Start - Finish: 8/5/2013 - 8/5/2013	

Auger/Casing Type:	**Sampler Type:** 12' Core Barrel	
I.D/O.D.(in):	**I.D./O.D. (in.):** 4"	
Hammer Weight (lb.):	**Sampler Hmr Wt (lb):**	
Hammer Fall (in.):	**Sampler Hmr Fall (in):**	
Other:	**Other:**	

Groundwater Depth (ft.)

Date	Time	Water Depth	Casing	Stab. Time

Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Sample Pen. (ft)	Sample Rec. (ft)	Sample Blows (per 6 in.)	Sample SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Stratum Depth (ft.)	Stratum Description	Stratum Elev. (ft.)
				11.5	9			0'-0'6": Black-gray, Silty fine SAND, trace shells, trace Organics 0'6"-4': Gray-brown, fine SAND, little Silt, trace shells, faint Hydrogen Sulfide odor 4'-4'4": Gray SAND and SILT, layer of small clams 4'4"-7': Grayish brown, fine SAND, little Silt, trace shells, slight Hydrogen Sulfide odor 7'-9': Brown, Clayey SILT, trace fine Sand, moderate Hydrogen Sulfide odor			0.5'	SILTY SAND	
											4'	SAND	
5											4.33'	SAND & SILT	
											7'	SAND	
											9'	CLAYEY SILT	
10													
								Bottom of core at 11.5 feet.					
15													
20													
25													
30													

REMARKS

See Log Key for explanation of sample description and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

Core No.: GZ-125A

171521.02 WYNN EVERETT.GPJ; WYNN-CORE; 9/29/2015

SEDIMENT CORE LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Wynn Everett
Horizon Way
Everett, Massachusetts

CORE NO.: GZ-126
SHEET: 1 of 1
PROJECT NO: 171521.02
REVIEWED BY:

Drilling Co.: C.R. Environmental	**Type of Rig:** Vibracore	**Core Location:** See Plan	**H. Datum:**
Foreman: Ken Thompson	**Rig Model:** N/A	**Ground Surface Elev. (ft.):**	**V. Datum:**
Logged By: Daniel Scanlon	**Drilling Method:** Direct-Push	**Final Core Depth (ft.):** 4.6	
		Date Start - Finish: 8/5/2013 - 8/5/2013	

Auger/Casing Type:	**Sampler Type:** 12' Core Barrel	
I.D/O.D.(in):	**I.D./O.D. (in.):** 4"	
Hammer Weight (lb.):	**Sampler Hmr Wt (lb):**	
Hammer Fall (in.):	**Sampler Hmr Fall (in):**	
Other:	**Other:**	

Groundwater Depth (ft.)

Date	Time	Water Depth	Casing	Stab. Time

Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Sample Pen. (ft)	Sample Rec. (ft)	Sample Blows (per 6 in.)	Sample SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Stratum Depth (ft.)	Stratum Description	Stratum Elev. (ft.)
				4.58	3.83			0'-1': Brown, Clayey SILT, trace fine Sand, trace Organics 1'-2'6": Brown-gray, fine-coarse SAND, trace shells, moderate Hydrogen Sulfide odor 2'6"-3'10": Brown-gray, fine SAND, little Silt, trace shells, faint-moderate Hydrogen Sulfide odor			1'	CLAYEY SILT	'
												SAND	
											3.83'		'
5								Bottom of core at 4.6 feet.					
10													
15													
20													
25													
30													

REMARKS

See Log Key for explanation of sample description and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

Core No.: GZ-126

171521.02 WYNN EVERETT.GPJ; WYNN-CORE; 9/29/2015

SEDIMENT CORE LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Wynn Everett
Horizon Way
Everett, Massachusetts

CORE NO.: GZ-127
SHEET: 1 of 1
PROJECT NO: 171521.02
REVIEWED BY:

Drilling Co.: C.R. Environmental	**Type of Rig:** Vibracore	**Core Location:** See Plan	**H. Datum:**
Foreman: Ken Thompson	**Rig Model:** N/A	**Ground Surface Elev. (ft.):**	**V. Datum:**
Logged By: Daniel Scanlon	**Drilling Method:** Direct-Push	**Final Core Depth (ft.):** 6	
		Date Start - Finish: 8/5/2013 - 8/5/2013	

Auger/Casing Type:	**Sampler Type:** 12' Core Barrel	
I.D/O.D.(in):	**I.D./O.D. (in.):** 4"	
Hammer Weight (lb.):	**Sampler Hmr Wt (lb):**	
Hammer Fall (in.):	**Sampler Hmr Fall (in):**	
Other:	**Other:**	

Groundwater Depth (ft.)

Date	Time	Water Depth	Casing	Stab. Time

Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Sample Pen. (ft)	Sample Rec. (ft)	Sample Blows (per 6 in.)	Sample SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Stratum Depth (ft.)	Stratum Description	Stratum Elev. (ft.)
				6	4.83			0'-0'6": Dark brown, loose, fine SAND & SILT (muck) 0'6"-1': Gray-pink, fine SAND & Organic Silt, trace Organic fibers, trace fine Gravel 1'-2'6": Gray-brown, fine SAND, little Silt, no odor 2'6"-3'6": Gray & brown, fine SAND, trace Silt, no odor 3'6"-4'10": Gray CLAY, trace Silt, trace fine Sand			0.5'	SAND & SILT	'
												SAND	
											3.5'		'
5											4.83'	CLAY	'
								Bottom of core at 6 feet.					
10													
15													
20													
25													
30													

REMARKS

See Log Key for explanation of sample description and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

Core No.: GZ-127

171521.02 WYNN EVERETT.GPJ; WYNN-CORE; 9/29/2015

SEDIMENT CORE LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Wynn Everett
Horizon Way
Everett, Massachusetts

CORE NO.: GZ-128
SHEET: 1 of 1
PROJECT NO: 171521.02
REVIEWED BY:

Drilling Co.: C.R. Environmental	**Type of Rig:** Vibracore	**Core Location:** See Plan	**H. Datum:**
Foreman: Ken Thompson	**Rig Model:** N/A	**Ground Surface Elev. (ft.):**	**V. Datum:**
Logged By: Jason Chrzanowski	**Drilling Method:** Direct-Push	**Final Core Depth (ft.):** 12	
		Date Start - Finish: 8/1/2013 - 8/1/2013	

		Groundwater Depth (ft.)				
Auger/Casing Type:	**Sampler Type:** 12' Core Barrel	**Date**	**Time**	**Water Depth**	**Casing**	**Stab. Time**
I.D/O.D.(in):	**I.D./O.D. (in.):** 4"					
Hammer Weight (lb.):	**Sampler Hmr Wt (lb):**					
Hammer Fall (in.):	**Sampler Hmr Fall (in):**					
Other:	**Other:**					

Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Sample Pen. (ft)	Sample Rec. (ft)	Sample Blows (per 6 in.)	Sample SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Stratum Depth (ft.)	Stratum Description	Stratum Elev. (ft.)
				12	10			0'-3'3": Dark gray CLAY & SILT, little Organic fibers, Hydrogen Sulfide odor				CLAY & SILT	
								3'3"-10': Dark gray-black Organic CLAYEY SILT, trace-little Organic fibers, faint petroleum-like odor			3.25'		'
5												ORGANIC CLAYEY SILT	
10											10'		'
								Bottom of core at 12 feet.					
15													
20													
25													
30													

REMARKS

See Log Key for explanation of sample description and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

Core No.: GZ-128

171521.02 WYNN EVERETT.GPJ; WYNN-CORE; 9/29/2015

SEDIMENT CORE LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Wynn Everett
Horizon Way
Everett, Massachusetts

CORE NO.: GZ-129
SHEET: 1 of 1
PROJECT NO: 171521.02
REVIEWED BY:

Drilling Co.: C.R. Environmental	**Type of Rig:** Vibracore	**Core Location:** See Plan	**H. Datum:**
Foreman: Ken Thompson	**Rig Model:** N/A	**Ground Surface Elev. (ft.):**	**V. Datum:**
Logged By: Jason Chrzanowski	**Drilling Method:** Direct-Push	**Final Core Depth (ft.):** 12	
		Date Start - Finish: 8/2/2013 - 8/2/2013	

		Groundwater Depth (ft.)				
Auger/Casing Type:	**Sampler Type:** 12' Core Barrel	**Date**	**Time**	**Water Depth**	**Casing**	**Stab. Time**
I.D/O.D.(in):	**I.D./O.D. (in.):** 4"					
Hammer Weight (lb.):	**Sampler Hmr Wt (lb):**					
Hammer Fall (in.):	**Sampler Hmr Fall (in):**					
Other:	**Other:**					

Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Sample Pen. (ft)	Sample Rec. (ft)	Sample Blows (per 6 in.)	Sample SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Stratum Depth (ft.)	Stratum Description	Stratum Elev. (ft.)
				12	9.33			0'-9'4": Gray CLAYEY SILT and fine Sand, trace shells, compressed Organic fiber lenses throughout, Hydrogen Sulfide odor				CLAYEY SILT AND SAND	
5													
											9.33'		
10								Bottom of core at 12 feet.					
15													
20													
25													
30													

REMARKS

See Log Key for explanation of sample description and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

Core No.: GZ-129

171521.02 WYNN EVERETT.GPJ; WYNN-CORE; 9/29/2015

SEDIMENT CORE LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Wynn Everett
Horizon Way
Everett, Massachusetts

CORE NO.: GZ-13
SHEET: 1 of 1
PROJECT NO: 171521.02
REVIEWED BY:

Drilling Co.: C.R. Environmental	**Type of Rig:** Vibracore	**Core Location:** See Plan	**H. Datum:**
Foreman: Ken Thompson	**Rig Model:** N/A	**Ground Surface Elev. (ft.):**	**V. Datum:**
Logged By: Jason Chrzanowski	**Drilling Method:** Direct-Push	**Final Core Depth (ft.):** 10	
		Date Start - Finish: 7/31/2013 - 7/31/2013	

		Groundwater Depth (ft.)				
Auger/Casing Type:	**Sampler Type:** 12' Core Barrel	**Date**	**Time**	**Water Depth**	**Casing**	**Stab. Time**
I.D/O.D.(in):	**I.D./O.D. (in.):** 4"					
Hammer Weight (lb.):	**Sampler Hmr Wt (lb):**					
Hammer Fall (in.):	**Sampler Hmr Fall (in):**					
Other:	**Other:**					

Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Sample Pen. (ft)	Sample Rec. (ft)	Sample Blows (per 6 in.)	Sample SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Stratum Depth (ft.)	Stratum Description	Stratum Elev. (ft.)
				10	8.33			0'-5'3": Black-dark gray MUCK, little shells, trace sticks				MUCK	
5								5'3"-8'4": Dark gray Organic SILT & CLAY, Hydrogen Sulfide odor			5.25'		
												ORGANIC SILT & CLAY	
10								Bottom of core at 10 feet.			8.33'		
15													
20													
25													
30													

REMARKS

See Log Key for explanation of sample description and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

Core No.: GZ-13

SEDIMENT CORE LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Wynn Everett
Horizon Way
Everett, Massachusetts

CORE NO.: GZ-130
SHEET: 1 of 1
PROJECT NO: 171521.02
REVIEWED BY:

Drilling Co.: C.R. Environmental	**Type of Rig:** Vibracore	**Core Location:** See Plan	**H. Datum:**
Foreman: Ken Thompson	**Rig Model:** N/A	**Ground Surface Elev. (ft.):**	**V. Datum:**
Logged By: Jason Chrzanowski	**Drilling Method:** Direct-Push	**Final Core Depth (ft.):** 10.5	
		Date Start - Finish: 8/2/2013 - 8/2/2013	

Auger/Casing Type:	**Sampler Type:** 12' Core Barrel	
I.D/O.D.(in):	**I.D./O.D. (in.):** 4"	
Hammer Weight (lb.):	**Sampler Hmr Wt (lb):**	
Hammer Fall (in.):	**Sampler Hmr Fall (in):**	
Other:	**Other:**	

Groundwater Depth (ft.)

Date	Time	Water Depth	Casing	Stab. Time

Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Sample Pen. (ft)	Sample Rec. (ft)	Sample Blows (per 6 in.)	Sample SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Stratum Depth (ft.)	Stratum Description	Stratum Elev. (ft.)
				10.5	8.17			0'-1'5": Gray Organic CLAYEY SILT, trace Organic fibers, trace fine Sand 1'5"-4': Gray fine SAND, trace Silt, trace shells 4'-8'2": Gray Organic CLAYEY SILT, trace Organic fibers, trace shell fragments, Hydrogen Sulfide odor			1.42'	ORGANIC CLAYEY SILT	'
											4'	SAND	'
											8.17'	ORGANIC CLAYEY SILT	'
								Bottom of core at 10.5 feet.					

5
10
15
20
25
30

REMARKS

See Log Key for explanation of sample description and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

Core No.: GZ-130

171521.02 WYNN EVERETT.GPJ; WYNN-CORE; 9/29/2015

SEDIMENT CORE LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Wynn Everett
Horizon Way
Everett, Massachusetts

CORE NO.: GZ-131
SHEET: 1 of 1
PROJECT NO: 171521.02
REVIEWED BY:

Drilling Co.: C.R. Environmental	**Type of Rig:** Vibracore	**Core Location:** See Plan	**H. Datum:**
Foreman: Ken Thompson	**Rig Model:** N/A	**Ground Surface Elev. (ft.):**	**V. Datum:**
Logged By: Jason Chrzanowski	**Drilling Method:** Direct-Push	**Final Core Depth (ft.):** 6.5	
		Date Start - Finish: 8/2/2013 - 8/2/2013	

Auger/Casing Type:	**Sampler Type:** 12' Core Barrel	
I.D/O.D.(in):	**I.D./O.D. (in.):** 4"	
Hammer Weight (lb.):	**Sampler Hmr Wt (lb):**	
Hammer Fall (in.):	**Sampler Hmr Fall (in):**	
Other:	**Other:**	

Groundwater Depth (ft.)

Date	Time	Water Depth	Casing	Stab. Time

Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Sample Pen. (ft)	Sample Rec. (ft)	Sample Blows (per 6 in.)	Sample SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Stratum Depth (ft.)	Stratum Description	Stratum Elev. (ft.)
				6.5	5			0'-0'6": Dark gray MUCK, Silt & Clay, trace shells, trace Gravel 0'6"-1': Dark gray CLAYEY SILT, trace medium-coarse Sand, trace shell fragments 1'-3'9": Gray fine SAND, trace shells, trace Silt 3'9"-5': Gray fine-coarse SAND, little Silt, trace Gravel			0.5' 1'	MUCK CLAYEY SILT	
												SAND	
5											5'		
								Bottom of core at 6.5 feet.					
10													
15													
20													
25													
30													

REMARKS

See Log Key for explanation of sample description and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

Core No.: GZ-131

171521.02 WYNN EVERETT.GPJ; WYNN-CORE; 9/29/2015

SEDIMENT CORE LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Wynn Everett
Horizon Way
Everett, Massachusetts

CORE NO.: GZ-132
SHEET: 1 of 1
PROJECT NO: 171521.02
REVIEWED BY:

Drilling Co.: C.R. Environmental	**Type of Rig:** Vibracore	**Core Location:** See Plan	**H. Datum:**
Foreman: Ken Thompson	**Rig Model:** N/A	**Ground Surface Elev. (ft.):**	**V. Datum:**
Logged By: Daniel Scanlon	**Drilling Method:** Direct-Push	**Final Core Depth (ft.):** 4	
		Date Start - Finish: 8/5/2013 - 8/5/2013	

Auger/Casing Type:	**Sampler Type:** 12' Core Barrel	
I.D/O.D.(in):	**I.D./O.D. (in.):** 4"	
Hammer Weight (lb.):	**Sampler Hmr Wt (lb):**	
Hammer Fall (in.):	**Sampler Hmr Fall (in):**	
Other:	**Other:**	

Groundwater Depth (ft.)

Date	Time	Water Depth	Casing	Stab. Time

Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Sample Pen. (ft)	Sample Rec. (ft)	Sample Blows (per 6 in.)	Sample SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Stratum Depth (ft.)	Stratum Description	Stratum Elev. (ft.)
				4	2			0'-1'6": Dark gray, fine SAND, little Silt, trace shells 1'6"-2': Gray, Silty fine SAND, trace Clay			1.5' 2'	SAND SILTY SAND	
5								Bottom of core at 4 feet.					
10													
15													
20													
25													
30													

REMARKS

See Log Key for explanation of sample description and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

Core No.: GZ-132

171521.02 WYNN EVERETT.GPJ; WYNN-CORE; 9/29/2015

SEDIMENT CORE LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Wynn Everett
Horizon Way
Everett, Massachusetts

CORE NO.: GZ-133
SHEET: 1 of 1
PROJECT NO: 171521.02
REVIEWED BY:

Drilling Co.: C.R. Environmental	**Type of Rig:** Vibracore	**Core Location:** See Plan	**H. Datum:**
Foreman: Ken Thompson	**Rig Model:** N/A	**Ground Surface Elev. (ft.):**	**V. Datum:**
Logged By: Daniel Scanlon	**Drilling Method:** Direct-Push	**Final Core Depth (ft.):** 5.5	
		Date Start - Finish: 8/5/2013 - 8/5/2013	

Auger/Casing Type:	**Sampler Type:** 12' Core Barrel	
I.D/O.D.(in):	**I.D./O.D. (in.):** 4"	
Hammer Weight (lb.):	**Sampler Hmr Wt (lb):**	
Hammer Fall (in.):	**Sampler Hmr Fall (in):**	
Other:	**Other:**	

Groundwater Depth (ft.)

Date	Time	Water Depth	Casing	Stab. Time

Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Sample Pen. (ft)	Sample Rec. (ft)	Sample Blows (per 6 in.)	Sample SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Stratum Depth (ft.)	Stratum Description	Stratum Elev. (ft.)
				5.5	4.33			0'-0'6": Black, Organic SILT (muck) & fine Sand 0'6"-2'6": Black, fine SAND, some Silt, trace coarse Sand, trace shells, very faint petroleum-like odor 2'6"-4'4": Brown-gray, Silty fine SAND, trace coarse Sand, trace fine Gravel, no odor			0.5'	SILT & SAND	'
											2.5'	SAND	'
											4.33'	SILTY SAND	'
5								Bottom of core at 5.5 feet.					
10													
15													
20													
25													
30													

REMARKS

See Log Key for explanation of sample description and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

Core No.: GZ-133

171521.02 WYNN EVERETT.GPJ; WYNN-CORE; 9/29/2015

SEDIMENT CORE LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Wynn Everett
Horizon Way
Everett, Massachusetts

CORE NO.: GZ-134
SHEET: 1 of 1
PROJECT NO: 171521.02
REVIEWED BY:

Drilling Co.: C.R. Environmental	**Type of Rig:** Vibracore	**Core Location:** See Plan	**H. Datum:**
Foreman: Ken Thompson	**Rig Model:** N/A	**Ground Surface Elev. (ft.):**	**V. Datum:**
Logged By: Jason Chrzanowski	**Drilling Method:** Direct-Push	**Final Core Depth (ft.):** 12	
		Date Start - Finish: 8/2/2013 - 8/2/2013	

Auger/Casing Type:	**Sampler Type:** 12' Core Barrel	
I.D/O.D.(in):	**I.D./O.D. (in.):** 4"	
Hammer Weight (lb.):	**Sampler Hmr Wt (lb):**	
Hammer Fall (in.):	**Sampler Hmr Fall (in):**	
Other:	**Other:**	

Groundwater Depth (ft.)

Date	Time	Water Depth	Casing	Stab. Time

Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Sample Pen. (ft)	Sample Rec. (ft)	Sample Blows (per 6 in.)	Sample SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Stratum Depth (ft.)	Stratum Description	Stratum Elev. (ft.)
				12	9.25			0'-1'5": Dark gray CLAY 1'5"-3'5": Dark gray CLAY, some Organics, trace NAPL, moderate-strong petroleum-like odor 3'5"-6'6": Black CLAY, little Organics, strong petroleum-like odor 6'6"-9'3": Black CLAY, strong petroleum-like odor				CLAY	
5													
											9.25'		
10													
								Bottom of core at 12 feet.					
15													
20													
25													
30													

REMARKS

See Log Key for explanation of sample description and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

Core No.: GZ-134

171521.02 WYNN EVERETT.GPJ; WYNN-CORE; 9/29/2015

SEDIMENT CORE LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Wynn Everett
Horizon Way
Everett, Massachusetts

CORE NO.: GZ-135
SHEET: 1 of 1
PROJECT NO: 171521.02
REVIEWED BY:

Drilling Co.: C.R. Environmental	**Type of Rig:** Vibracore	**Core Location:** See Plan	**H. Datum:**
Foreman: Ken Thompson	**Rig Model:** N/A	**Ground Surface Elev. (ft.):**	**V. Datum:**
Logged By: Jason Chrzanowski	**Drilling Method:** Direct-Push	**Final Core Depth (ft.):** 12	
		Date Start - Finish: 8/2/2013 - 8/2/2013	

Auger/Casing Type:	**Sampler Type:** 12' Core Barrel	
I.D/O.D.(in):	**I.D./O.D. (in.):** 4"	
Hammer Weight (lb.):	**Sampler Hmr Wt (lb):**	
Hammer Fall (in.):	**Sampler Hmr Fall (in):**	
Other:	**Other:**	

Groundwater Depth (ft.)

Date	Time	Water Depth	Casing	Stab. Time

Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Sample Pen. (ft)	Sample Rec. (ft)	Sample Blows (per 6 in.)	Sample SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Stratum Depth (ft.)	Stratum Description	Stratum Elev. (ft.)
				12	9.42			0'-0'3": Fine SAND & CLAYEY SILT 0'3"-3'1": Gray fine SAND, little-some Silt, trace shell fragments, trace Organic fibers, Hydrogen Sulfide odor 3'1"-9'5": Gray fine SAND, some Clayey Silt, trace shell fragments, trace Organic deposits, Hydrogen Sulfide odor			0.25'	SAND & CLAYEY SILT	
5												SAND	
10											9.42'		
								Bottom of core at 12 feet.					
15													
20													
25													
30													

REMARKS

See Log Key for explanation of sample description and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

Core No.: GZ-135

171521.02 WYNN EVERETT.GPJ; WYNN-CORE; 9/29/2015

SEDIMENT CORE LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Wynn Everett
Horizon Way
Everett, Massachusetts

CORE NO.: GZ-136
SHEET: 1 of 1
PROJECT NO: 171521.02
REVIEWED BY:

Drilling Co.: C.R. Environmental	**Type of Rig:** Vibracore	**Core Location:** See Plan	**H. Datum:**
Foreman: Ken Thompson	**Rig Model:** N/A	**Ground Surface Elev. (ft.):**	**V. Datum:**
Logged By: Daniel Scanlon	**Drilling Method:** Direct-Push	**Final Core Depth (ft.):** 12	
		Date Start - Finish: 8/5/2013 - 8/5/2013	

Auger/Casing Type:	**Sampler Type:** 12' Core Barrel	
I.D/O.D.(in):	**I.D./O.D. (in.):** 4"	
Hammer Weight (lb.):	**Sampler Hmr Wt (lb):**	
Hammer Fall (in.):	**Sampler Hmr Fall (in):**	
Other:	**Other:**	

Groundwater Depth (ft.)

Date	Time	Water Depth	Casing	Stab. Time

Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Sample Pen. (ft)	Sample Rec. (ft)	Sample Blows (per 6 in.)	Sample SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Stratum Depth (ft.)	Stratum Description	Stratum Elev. (ft.)
				12	10.83			0'-1': Dark brown-black, Silty fine SAND, trace shells, trace fine Gravel 1'-3': Brown-gray, Silty fine SAND, moderate-strong Hydrogen Sulfide odor 3'-3'3": Medium-coarse SAND and shells 3'3"-7'6": Brown-gray, Silty fine SAND, moderate Hydrogen Sulfide odor 7'6"-9': Brown-gray, Silty fine SAND and medium-coarse Sand and shells 9'-10'10": Gray-brown, Silty fine SAND				SILTY SAND	
											3'		
											3.25'	SAND	
5												SILTY SAND	
10													10.83'
								Bottom of core at 12 feet.					
15													
20													
25													
30													

REMARKS

See Log Key for explanation of sample description and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

Core No.: GZ-136

SEDIMENT CORE LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Wynn Everett
Horizon Way
Everett, Massachusetts

CORE NO.: GZ-137
SHEET: 1 of 1
PROJECT NO: 171521.02
REVIEWED BY:

Drilling Co.: C.R. Environmental	**Type of Rig:** Vibracore	**Core Location:** See Plan	**H. Datum:**
Foreman: Ken Thompson	**Rig Model:** N/A	**Ground Surface Elev. (ft.):**	**V. Datum:**
Logged By: Daniel Scanlon	**Drilling Method:** Direct-Push	**Final Core Depth (ft.):** 5.5	
		Date Start - Finish: 8/5/2013 - 8/5/2013	

Auger/Casing Type:	**Sampler Type:** 12' Core Barrel	
I.D/O.D.(in):	**I.D./O.D. (in.):** 4"	
Hammer Weight (lb.):	**Sampler Hmr Wt (lb):**	
Hammer Fall (in.):	**Sampler Hmr Fall (in):**	
Other:	**Other:**	

Groundwater Depth (ft.)

Date	Time	Water Depth	Casing	Stab. Time

Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Sample Pen. (ft)	Sample Rec. (ft)	Sample Blows (per 6 in.)	Sample SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Stratum Depth (ft.)	Stratum Description	Stratum Elev. (ft.)
				5.5	5.08			0'-2'2": Dark gray, loose, Organic SILT, trace fine Sand, slight Hydrogen Sulfide odor 2'2"-5'1": Brown, fine-medium SAND, some Silt, trace shells, moderate Hydrogen Sulfide odor				ORGANIC SILT	
											2.17'		'
												SAND	
5											5.08'		'
								Bottom of core at 5.5 feet.					
10													
15													
20													
25													
30													

REMARKS

See Log Key for explanation of sample description and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

Core No.: GZ-137

SEDIMENT CORE LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Wynn Everett
Horizon Way
Everett, Massachusetts

CORE NO.: GZ-138
SHEET: 1 of 1
PROJECT NO: 171521.02
REVIEWED BY:

Drilling Co.: C.R. Environmental	**Type of Rig:** Vibracore	**Core Location:** See Plan	**H. Datum:**
Foreman: Ken Thompson	**Rig Model:** N/A	**Ground Surface Elev. (ft.):**	**V. Datum:**
Logged By: Jason Chrzanowski	**Drilling Method:** Direct-Push	**Final Core Depth (ft.):** 12	
		Date Start - Finish: 8/2/2013 - 8/2/2013	

Auger/Casing Type:	**Sampler Type:** 12' Core Barrel	
I.D/O.D.(in):	**I.D./O.D. (in.):** 4"	
Hammer Weight (lb.):	**Sampler Hmr Wt (lb):**	
Hammer Fall (in.):	**Sampler Hmr Fall (in):**	
Other:	**Other:**	

Groundwater Depth (ft.)

Date	Time	Water Depth	Casing	Stab. Time

Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Sample Pen. (ft)	Sample Rec. (ft)	Sample Blows (per 6 in.)	Sample SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Stratum Depth (ft.)	Stratum Description	Stratum Elev. (ft.)
				12	8.25			0'-0'6": Black MUCKY SILT 0'6"-2'6": Dark gray Organic SILT, trace organics (sedges) 2'6"-3': Black SILT & CLAY, trace fine Sand, moderate petroleum-like odor 3'-5'6": Dark gray SILTY CLAY, faint petroleum-like odor 5'6"-8'3": Black SILTY CLAY, trace Organics, fine Sand lens (1") at 7'6", faint-moderate petroleum-like odor			0.5'	SILT	
											2.5'	ORGANIC SILT	
											3'	SILT & CLAY	
												SILTY CLAY	
											8.25'		
								Bottom of core at 12 feet.					

5
10
15
20
25
30

REMARKS

See Log Key for explanation of sample description and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

Core No.: GZ-138

171521.02 WYNN EVERETT.GPJ; WYNN-CORE; 9/29/2015

SEDIMENT CORE LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Wynn Everett
Horizon Way
Everett, Massachusetts

CORE NO.: GZ-139
SHEET: 1 of 1
PROJECT NO: 171521.02
REVIEWED BY:

Drilling Co.: C.R. Environmental	**Type of Rig:** Vibracore	**Core Location:** See Plan	**H. Datum:**
Foreman: Ken Thompson	**Rig Model:** N/A	**Ground Surface Elev. (ft.):**	**V. Datum:**
Logged By: Daniel Scanlon	**Drilling Method:** Direct-Push	**Final Core Depth (ft.):** 12.17	
		Date Start - Finish: 8/5/2013 - 8/5/2013	

Auger/Casing Type:	**Sampler Type:** 12' Core Barrel	
I.D/O.D.(in):	**I.D./O.D. (in.):** 4"	
Hammer Weight (lb.):	**Sampler Hmr Wt (lb):**	
Hammer Fall (in.):	**Sampler Hmr Fall (in):**	
Other:	**Other:**	

Groundwater Depth (ft.)

Date	Time	Water Depth	Casing	Stab. Time

Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Sample Pen. (ft)	Sample Rec. (ft)	Sample Blows (per 6 in.)	Sample SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Stratum Depth (ft.)	Stratum Description	Stratum Elev. (ft.)
				12.17	8.5			0'-1': Dark gray MUCK and Organic Silt, faint Hydrogen Sulfide odor 1'-8'6": Gray/brown, silty fine SAND, trace shells, moderate Hydrogen Sulfide odor			1'	MUCK	'
5												SILTY SAND	
											8.5'		'
10													
								Bottom of core at 12.17 feet.					
15													
20													
25													
30													

REMARKS

See Log Key for explanation of sample description and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

Core No.: GZ-139

171521.02 WYNN EVERETT.GPJ; WYNN-CORE; 9/29/2015

SEDIMENT CORE LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Wynn Everett
Horizon Way
Everett, Massachusetts

CORE NO.: GZ-14
SHEET: 1 of 1
PROJECT NO: 171521.02
REVIEWED BY:

Drilling Co.: C.R. Environmental	**Type of Rig:** Vibracore	**Core Location:** See Plan	**H. Datum:**
Foreman: Ken Thompson	**Rig Model:** N/A	**Ground Surface Elev. (ft.):**	**V. Datum:**
Logged By: Jason Chrzanowski	**Drilling Method:** Direct-Push	**Final Core Depth (ft.):** 10	
		Date Start - Finish: 7/31/2013 - 7/31/2013	

Auger/Casing Type:	**Sampler Type:** 12' Core Barrel	
I.D/O.D.(in):	**I.D./O.D. (in.):** 4"	
Hammer Weight (lb.):	**Sampler Hmr Wt (lb):**	
Hammer Fall (in.):	**Sampler Hmr Fall (in):**	
Other:	**Other:**	

Groundwater Depth (ft.)

Date	Time	Water Depth	Casing	Stab. Time

Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Sample Pen. (ft)	Sample Rec. (ft)	Sample Blows (per 6 in.)	Sample SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Stratum Depth (ft.)	Stratum Description	Stratum Elev. (ft.)
				10	7.75			0'-7'9": Black-dark gray, mucky Organic SILT, trace Gravel, Hydrogen Sulfide odor	1 2			ORGANIC SILT	
5											7.75'		
10								Bottom of core at 10 feet.					
15													
20													
25													
30													

REMARKS

1. Top 2' of recovery more mucky, with sticks & shells`
2. Trace Gravel at 3'

See Log Key for explanation of sample description and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

Core No.: GZ-14

SEDIMENT CORE LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Wynn Everett
Horizon Way
Everett, Massachusetts

CORE NO.: GZ-140A
SHEET: 1 of 1
PROJECT NO: 171521.02
REVIEWED BY:

Drilling Co.: C.R. Environmental	**Type of Rig:** Vibracore	**Core Location:** See Plan	**H. Datum:**
Foreman: Ken Thompson	**Rig Model:** N/A	**Ground Surface Elev. (ft.):**	**V. Datum:**
Logged By: Daniel Scanlon	**Drilling Method:** Direct-Push	**Final Core Depth (ft.):** 4	
		Date Start - Finish: 8/5/2013 - 8/5/2013	

Auger/Casing Type:	**Sampler Type:** 12' Core Barrel	
I.D/O.D.(in):	**I.D./O.D. (in.):** 4"	
Hammer Weight (lb.):	**Sampler Hmr Wt (lb):**	
Hammer Fall (in.):	**Sampler Hmr Fall (in):**	
Other:	**Other:**	

Groundwater Depth (ft.)

Date	Time	Water Depth	Casing	Stab. Time

Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Sample Pen. (ft)	Sample Rec. (ft)	Sample Blows (per 6 in.)	Sample SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Stratum Depth (ft.)	Stratum Description	Stratum Elev. (ft.)
				4	3			0'-0'6": Dark brown-black, Organic SILT (Muck) 0'6"-2': Dark gray, Organic SILT, trace fine SAND 2'-3': Dark gray-brown, fine-coarse SAND, little Silt. Faint-moderate petroleum-like odor				ORGANIC SILT	
											2'		
											3'	SAND	
5								Bottom of core at 4 feet.					
10													
15													
20													
25													
30													

REMARKS

See Log Key for explanation of sample description and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

Core No.: GZ-140A

171521.02 WYNN EVERETT.GPJ; WYNN-CORE; 9/29/2015

SEDIMENT CORE LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Wynn Everett
Horizon Way
Everett, Massachusetts

CORE NO.: GZ-15
SHEET: 1 of 1
PROJECT NO: 171521.02
REVIEWED BY:

Drilling Co.: C.R. Environmental	**Type of Rig:** Vibracore	**Core Location:** See Plan	**H. Datum:**
Foreman: Ken Thompson	**Rig Model:** N/A	**Ground Surface Elev. (ft.):**	**V. Datum:**
Logged By: Jason Chrzanowski	**Drilling Method:** Direct-Push	**Final Core Depth (ft.):** 10	
		Date Start - Finish: 7/31/2013 - 7/31/2013	

Auger/Casing Type:	**Sampler Type:** 12' Core Barrel	
I.D/O.D.(in):	**I.D./O.D. (in.):** 4"	
Hammer Weight (lb.):	**Sampler Hmr Wt (lb):**	
Hammer Fall (in.):	**Sampler Hmr Fall (in):**	
Other:	**Other:**	

Groundwater Depth (ft.)

Date	Time	Water Depth	Casing	Stab. Time

Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Sample Pen. (ft)	Sample Rec. (ft)	Sample Blows (per 6 in.)	Sample SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Stratum Depth (ft.)	Stratum Description	Stratum Elev. (ft.)
				10	7.67			0'-2'6": Black, mucky SILT & CLAY, trace sticks/reeds				MUCKY SILT & CLAY	
								2'6"-5'10": Dark gray Organic SILT & CLAY, strong Hydrogen Sulfide odor, with white paste-like bands 1" thick, intermittently spaced			2.5'	ORGANIC SILT & CLAY	
5								5'10"-7'8": Gray Organic SILT, trace Organic fibers, trace fine Sand			5.83'	ORGANIC SILT	
10								Bottom of core at 10 feet.			7.67'		
15													
20													
25													
30													

REMARKS

See Log Key for explanation of sample description and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

Core No.: GZ-15

SEDIMENT CORE LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Wynn Everett
Horizon Way
Everett, Massachusetts

CORE NO.: GZ-16
SHEET: 1 of 1
PROJECT NO: 171521.02
REVIEWED BY:

Drilling Co.: C.R. Environmental	**Type of Rig:** Vibracore	**Core Location:** See Plan	**H. Datum:**
Foreman: Ken Thompson	**Rig Model:** N/A	**Ground Surface Elev. (ft.):**	**V. Datum:**
Logged By: Jason Chrzanowski	**Drilling Method:** Direct-Push	**Final Core Depth (ft.):** 10	
		Date Start - Finish: 7/31/2013 - 7/31/2013	

Auger/Casing Type:	**Sampler Type:** 12' Core Barrel	
I.D/O.D.(in):	**I.D./O.D. (in.):** 4"	
Hammer Weight (lb.):	**Sampler Hmr Wt (lb):**	
Hammer Fall (in.):	**Sampler Hmr Fall (in):**	
Other:	**Other:**	

Groundwater Depth (ft.)

Date	Time	Water Depth	Casing	Stab. Time

Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Sample Pen. (ft)	Sample Rec. (ft)	Sample Blows (per 6 in.)	Sample SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Stratum Depth (ft.)	Stratum Description	Stratum Elev. (ft.)
				10	8.5			0'-4': Black, mucky SILT & CLAY				MUCKY SILT & CLAY	
											4'		
5								4'-4'8": Dark gray SILT & CLAY 4'8"-8'4": Black SILT & CLAY				SILT & CLAY	
											8.33'		
								8'4"-8'6": Gray CLAY, moderate petroleum-like odor			8.5'	CLAY	
10								Bottom of core at 10 feet.					
15													
20													
25													
30													

REMARKS

See Log Key for explanation of sample description and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

Core No.: GZ-16

SEDIMENT CORE LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Wynn Everett
Horizon Way
Everett, Massachusetts

CORE NO.: GZ-17
SHEET: 1 of 1
PROJECT NO: 171521.02
REVIEWED BY:

Drilling Co.: C.R. Environmental	**Type of Rig:** Vibracore	**Core Location:** See Plan	**H. Datum:**
Foreman: Ken Thompson	**Rig Model:** N/A	**Ground Surface Elev. (ft.):**	**V. Datum:**
Logged By: Jason Chrzanowski	**Drilling Method:** Direct-Push	**Final Core Depth (ft.):** 10	
		Date Start - Finish: 7/31/2013 - 7/31/2013	

Auger/Casing Type:	**Sampler Type:** 12' Core Barrel	
I.D/O.D.(in):	**I.D./O.D. (in.):** 4"	
Hammer Weight (lb.):	**Sampler Hmr Wt (lb):**	
Hammer Fall (in.):	**Sampler Hmr Fall (in):**	
Other:	**Other:**	

Groundwater Depth (ft.)

Date	Time	Water Depth	Casing	Stab. Time

Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Sample Pen. (ft)	Sample Rec. (ft)	Sample Blows (per 6 in.)	Sample SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Stratum Depth (ft.)	Stratum Description	Stratum Elev. (ft.)
				10	8.33			0'-2'6": Dark gray-black mucky SILT & CLAY, strong Hydrogen Sulfide odor				MUCKY SILT & CLAY	
								2'6"-6'10": Dark gray Organic SILT & CLAY, trace Organic fibers, strong Hydrogen Sulfide odor			2.5'	ORGANIC SILT & CLAY	
5											6.83'		
								6'10"-8'4": Black Organic SILT, strong Hydrogen Sulfide odor				ORGANIC SILT	
10											8.33'		
								Bottom of core at 10 feet.					
15													
20													
25													
30													

REMARKS

See Log Key for explanation of sample description and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

Core No.: GZ-17

171521.02 WYNN EVERETT.GPJ; WYNN-CORE; 9/29/2015

SEDIMENT CORE LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Wynn Everett
Horizon Way
Everett, Massachusetts

CORE NO.: GZ-18
SHEET: 1 of 1
PROJECT NO: 171521.02
REVIEWED BY:

Drilling Co.: C.R. Environmental	**Type of Rig:** Vibracore	**Core Location:** See Plan	**H. Datum:**
Foreman: Ken Thompson	**Rig Model:** N/A	**Ground Surface Elev. (ft.):**	**V. Datum:**
Logged By: Jason Chrzanowski	**Drilling Method:** Direct-Push	**Final Core Depth (ft.):** 10	
		Date Start - Finish: 7/31/2013 - 7/31/2013	

Auger/Casing Type:	**Sampler Type:** 12' Core Barrel	
I.D/O.D.(in):	**I.D./O.D. (in.):** 4"	
Hammer Weight (lb.):	**Sampler Hmr Wt (lb):**	
Hammer Fall (in.):	**Sampler Hmr Fall (in):**	
Other:	**Other:**	

Groundwater Depth (ft.)

Date	Time	Water Depth	Casing	Stab. Time

Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Sample Pen. (ft)	Sample Rec. (ft)	Sample Blows (per 6 in.)	Sample SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Stratum Depth (ft.)	Stratum Description	Stratum Elev. (ft.)
				10	7			0'-1': Black, mucky SILT & CLAY 1'-1'2": Coarse SAND & GRAVEL 1'2"-5'4": Dark gray Organic SILT, strong Hydrogen Sulfide odor, with intermittent band of white, paste-like material; 3" band at 4'1"-4'3" 5'4"-7': Black Organic SILT, trace fine Sand, burnt odor			1'	MUCKY SILT & CLAY	
											1.17'	SAND & GRAVEL	
												ORGANIC SILT	
											7'		
								Bottom of core at 10 feet.					

5
10
15
20
25
30

REMARKS

See Log Key for explanation of sample description and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

Core No.: GZ-18

171521.02 WYNN EVERETT.GPJ; WYNN-CORE; 9/29/2015

SEDIMENT CORE LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Wynn Everett
Horizon Way
Everett, Massachusetts

CORE NO.: GZ-2
SHEET: 1 of 1
PROJECT NO: 171521.02
REVIEWED BY:

Drilling Co.: C.R. Environmental	**Type of Rig:** Vibracore	**Core Location:** See Plan	**H. Datum:**
Foreman: Ken Thompson	**Rig Model:** N/A	**Ground Surface Elev. (ft.):**	**V. Datum:**
Logged By: Jason Chrzanowski	**Drilling Method:** Direct-Push	**Final Core Depth (ft.):** 12	
		Date Start - Finish: 7/31/2013 - 7/31/2013	

		Groundwater Depth (ft.)				
Auger/Casing Type:	**Sampler Type:** 12' Core Barrel	**Date**	**Time**	**Water Depth**	**Casing**	**Stab. Time**
I.D/O.D.(in):	**I.D./O.D. (in.):** 4"					
Hammer Weight (lb.):	**Sampler Hmr Wt (lb):**					
Hammer Fall (in.):	**Sampler Hmr Fall (in):**					
Other:	**Other:**					

Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Sample Pen. (ft)	Sample Rec. (ft)	Sample Blows (per 6 in.)	Sample SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Stratum Depth (ft.)	Stratum Description	Stratum Elev. (ft.)
				12	7.5			0'-3'2": Black, mucky SILT & CLAY				MUCKY SILT & CLAY	
								3'2"-7'6": Gray, Organic, SILT & CLAY			3.17'		
5												ORGANIC SILT & CLAY	
											7.5'		
10													
								Bottom of core at 12 feet.					
15													
20													
25													
30													

REMARKS

See Log Key for explanation of sample description and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

Core No.: GZ-2

SEDIMENT CORE LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Wynn Everett
Horizon Way
Everett, Massachusetts

CORE NO.: GZ-3B
SHEET: 1 of 1
PROJECT NO: 171521.02
REVIEWED BY:

Drilling Co.: C.R. Environmental	**Type of Rig:** Vibracore	**Core Location:** See Plan	**H. Datum:**
Foreman: Ken Thompson	**Rig Model:** N/A	**Ground Surface Elev. (ft.):**	**V. Datum:**
Logged By: Jason Chrzanowski	**Drilling Method:** Direct-Push	**Final Core Depth (ft.):** 12	
		Date Start - Finish: 7/31/2013 - 7/31/2013	

Auger/Casing Type:	**Sampler Type:** 12' Core Barrel	
I.D/O.D.(in):	**I.D./O.D. (in.):** 4"	
Hammer Weight (lb.):	**Sampler Hmr Wt (lb):**	
Hammer Fall (in.):	**Sampler Hmr Fall (in):**	
Other:	**Other:**	

Groundwater Depth (ft.)

Date	Time	Water Depth	Casing	Stab. Time

Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Sample Pen. (ft)	Sample Rec. (ft)	Sample Blows (per 6 in.)	Sample SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Stratum Depth (ft.)	Stratum Description	Stratum Elev. (ft.)
				12	7			0'-1'5": Black MUCK, Silt & Clay, trace Gravel 1'5"-7': Gray-black Organic SILT & CLAY	1		1.4'	MUCK	'
											7'	ORGANIC SILT & CLAY	'
								Bottom of core at 12 feet.					

REMARKS

1. Small, dime-size patch of white paste-like material at 3'6"

See Log Key for explanation of sample description and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

Core No.: GZ-3B

171521.02 WYNN EVERETT.GPJ; WYNN-CORE; 9/29/2015

SEDIMENT CORE LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Wynn Everett
Horizon Way
Everett, Massachusetts

CORE NO.: GZ-4
SHEET: 1 of 1
PROJECT NO: 171521.02
REVIEWED BY:

Drilling Co.: C.R. Environmental	**Type of Rig:** Vibracore	**Core Location:** See Plan	**H. Datum:**
Foreman: Ken Thompson	**Rig Model:** N/A	**Ground Surface Elev. (ft.):**	**V. Datum:**
Logged By: Jason Chrzanowski	**Drilling Method:** Direct-Push	**Final Core Depth (ft.):** 12	
		Date Start - Finish: 7/31/2013 - 7/31/2013	

		Groundwater Depth (ft.)				
Auger/Casing Type:	**Sampler Type:** 12' Core Barrel	**Date**	**Time**	**Water Depth**	**Casing**	**Stab. Time**
I.D/O.D.(in):	**I.D./O.D. (in.):** 4"					
Hammer Weight (lb.):	**Sampler Hmr Wt (lb):**					
Hammer Fall (in.):	**Sampler Hmr Fall (in):**					
Other:	**Other:**					

Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Sample Pen. (ft)	Sample Rec. (ft)	Sample Blows (per 6 in.)	Sample SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Stratum Depth (ft.)	Stratum Description	Stratum Elev. (ft.)
				12	9			0'-4'2": Black MUCK, silty Clay, Hydrogen Sulfide odor				MUCK	
											4.17'		'
5								4'2"-8'5": Gray SILT & CLAY				SILT & CLAY	
											8.42'		'
								8'5"-9': Gray SILT, little-some fine-medium Sand, trace Gravel			9'	SILT	'
10													
								Bottom of core at 12 feet.					
15													
20													
25													
30													

REMARKS

See Log Key for explanation of sample description and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

Core No.: GZ-4

171521.02 WYNN EVERETT.GPJ; WYNN-CORE; 9/29/2015

SEDIMENT CORE LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Wynn Everett
Horizon Way
Everett, Massachusetts

CORE NO.: GZ-5A
SHEET: 1 of 1
PROJECT NO: 171521.02
REVIEWED BY:

Drilling Co.: C.R. Environmental	**Type of Rig:** Vibracore	**Core Location:** See Plan	**H. Datum:**
Foreman: Ken Thompson	**Rig Model:** N/A	**Ground Surface Elev. (ft.):**	**V. Datum:**
Logged By: Jason Chrzanowski	**Drilling Method:** Direct-Push	**Final Core Depth (ft.):** 4.75	
		Date Start - Finish: 7/31/2013 - 7/31/2013	

Auger/Casing Type:	**Sampler Type:** 12' Core Barrel
I.D/O.D.(in):	**I.D./O.D. (in.):** 4"
Hammer Weight (lb.):	**Sampler Hmr Wt (lb):**
Hammer Fall (in.):	**Sampler Hmr Fall (in):**
Other:	**Other:**

Groundwater Depth (ft.)

Date	Time	Water Depth	Casing	Stab. Time

Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Sample Pen. (ft)	Sample Rec. (ft)	Sample Blows (per 6 in.)	Sample SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Stratum Depth (ft.)	Stratum Description	Stratum Elev. (ft.)
				4.75	2.83			0'-1' MUCK			1'	MUCK	
								1'-2'10" SAND & GRAVEL	1			SAND & GRAVEL	
5											2.83'		
								Bottom of core at 4.75 feet.					
10													
15													
20													
25													
30													

REMARKS

1. Make attempt #2 totry to advance deeper. See GZ-5B.

See Log Key for explanation of sample description and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

Core No.: GZ-5A

SEDIMENT CORE LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Wynn Everett
Horizon Way
Everett, Massachusetts

CORE NO.: GZ-5B
SHEET: 1 of 1
PROJECT NO: 171521.02
REVIEWED BY:

Drilling Co.: C.R. Environmental	**Type of Rig:** Vibracore	**Core Location:** See Plan	**H. Datum:**
Foreman: Ken Thompson	**Rig Model:** N/A	**Ground Surface Elev. (ft.):**	**V. Datum:**
Logged By: Jason Chrzanowski	**Drilling Method:** Direct-Push	**Final Core Depth (ft.):** 12	
		Date Start - Finish: 7/31/2013 - 7/31/2013	

Auger/Casing Type:	**Sampler Type:** 12' Core Barrel	
I.D/O.D.(in):	**I.D./O.D. (in.):** 4"	
Hammer Weight (lb.):	**Sampler Hmr Wt (lb):**	
Hammer Fall (in.):	**Sampler Hmr Fall (in):**	
Other:	**Other:**	

Groundwater Depth (ft.)

Date	Time	Water Depth	Casing	Stab. Time

Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Sample Pen. (ft)	Sample Rec. (ft)	Sample Blows (per 6 in.)	Sample SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Stratum Depth (ft.)	Stratum Description	Stratum Elev. (ft.)
				12	10			0'-2': Black MUCK, Silty Clay, trace Wood fragments				MUCK	
											2'		
								2'-3': Black, Fine to coarse SAND, little Silt, trace Shells				SAND	
											3'		
								3'-9': Black-gray Organic SILT, trace Reeds					
5												ORGANIC SILT	
10								9'-10': Dark gray Organic SILT, little fine Sand, trace Gravel			10'		
								Bottom of core at 12 feet.					
15													
20													
25													
30													

REMARKS

See Log Key for explanation of sample description and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

Core No.: GZ-5B

171521.02 WYNN EVERETT.GPJ; WYNN-CORE; 9/29/2015

SEDIMENT CORE LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Wynn Everett
Horizon Way
Everett, Massachusetts

CORE NO.: GZ-6
SHEET: 1 of 1
PROJECT NO: 171521.02
REVIEWED BY:

Drilling Co.: C.R. Environmental	**Type of Rig:** Vibracore	**Core Location:** See Plan	**H. Datum:**
Foreman: Ken Thompson	**Rig Model:** N/A	**Ground Surface Elev. (ft.):**	**V. Datum:**
Logged By: Jason Chrzanowski	**Drilling Method:** Direct-Push	**Final Core Depth (ft.):** 12.5	
		Date Start - Finish: 7/31/2013 - 7/31/2013	

		Groundwater Depth (ft.)				
Auger/Casing Type:	**Sampler Type:** 12' Core Barrel	**Date**	**Time**	**Water Depth**	**Casing**	**Stab. Time**
I.D/O.D.(in):	**I.D./O.D. (in.):** 4"					
Hammer Weight (lb.):	**Sampler Hmr Wt (lb):**					
Hammer Fall (in.):	**Sampler Hmr Fall (in):**					
Other:	**Other:**					

Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Sample Pen. (ft)	Sample Rec. (ft)	Sample Blows (per 6 in.)	Sample SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Stratum Depth (ft.)	Stratum Description	Stratum Elev. (ft.)
0				12	12			0'-12': Black, mucky SILT & CLAY, trace shells, trace slag	1		12'	MUCKY SILT & CLAY	
								Bottom of core at 12.5 feet.					

REMARKS

1. Gray-Black alternating striations at 7'10" - 7'11"

See Log Key for explanation of sample description and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

Core No.: GZ-6

171521.02 WYNN EVERETT.GPJ; WYNN-CORE; 9/29/2015

SEDIMENT CORE LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Wynn Everett
Horizon Way
Everett, Massachusetts

CORE NO.: GZ-7
SHEET: 1 of 1
PROJECT NO: 171521.02
REVIEWED BY:

Drilling Co.: C.R. Environmental	**Type of Rig:** Vibracore	**Core Location:** See Plan	**H. Datum:**
Foreman: Ken Thompson	**Rig Model:** N/A	**Ground Surface Elev. (ft.):**	**V. Datum:**
Logged By: Jason Chrzanowski	**Drilling Method:** Direct-Push	**Final Core Depth (ft.):** 12	
		Date Start - Finish: 7/31/2013 - 7/31/2013	

Auger/Casing Type:	**Sampler Type:** 12' Core Barrel	
I.D/O.D.(in):	**I.D./O.D. (in.):** 4"	
Hammer Weight (lb.):	**Sampler Hmr Wt (lb):**	
Hammer Fall (in.):	**Sampler Hmr Fall (in):**	
Other:	**Other:**	

Groundwater Depth (ft.)

Date	Time	Water Depth	Casing	Stab. Time

Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Sample Pen. (ft)	Sample Rec. (ft)	Sample Blows (per 6 in.)	Sample SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Stratum Depth (ft.)	Stratum Description	Stratum Elev. (ft.)
				12	10.5			0'-6'6": Black, Mucky SILT & CLAY, trace shells, trace Gravel				MUCK	
5											6.5'		
								6'6"-10'6": Dark gray-black Organic SILT & CLAY, white paste-like bands from 6'7"-6'10" and 7'5"-7'11"	1			ORGANIC SILT & CLAY	
10											10.5'		
								Bottom of core at 12 feet.					
15													
20													
25													
30													

REMARKS

1. White paste-like bands at 6'7"-6'10", 7'5"-7'11"

See Log Key for explanation of sample description and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

Core No.: GZ-7

171521.02 WYNN EVERETT.GPJ; WYNN-CORE; 9/29/2015

SEDIMENT CORE LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Wynn Everett
Horizon Way
Everett, Massachusetts

CORE NO.: GZ-8
SHEET: 1 of 1
PROJECT NO: 171521.02
REVIEWED BY:

Drilling Co.: C.R. Environmental	**Type of Rig:** Vibracore	**Core Location:** See Plan	**H. Datum:**
Foreman: Ken Thompson	**Rig Model:** N/A	**Ground Surface Elev. (ft.):**	**V. Datum:**
Logged By: Jason Chrzanowski	**Drilling Method:** Direct-Push	**Final Core Depth (ft.):** 12	
		Date Start - Finish: 7/31/2013 - 7/31/2013	

Auger/Casing Type:	**Sampler Type:** 12' Core Barrel	
I.D/O.D.(in):	**I.D./O.D. (in.):** 4"	
Hammer Weight (lb.):	**Sampler Hmr Wt (lb):**	
Hammer Fall (in.):	**Sampler Hmr Fall (in):**	
Other:	**Other:**	

Groundwater Depth (ft.)

Date	Time	Water Depth	Casing	Stab. Time

Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Sample Pen. (ft)	Sample Rec. (ft)	Sample Blows (per 6 in.)	Sample SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Stratum Depth (ft.)	Stratum Description	Stratum Elev. (ft.)
				12	8.25			0'-3'6": Black MUCK, Organic fibers, trace Gravel, trace coarse Sand, strong Hydrogen Sulfide odor				MUCK	
											3.5'		'
5								3'6"-8'3": Dark Gray-Gray Organic SILT & CLAY, trace shells, trace Organic fibers, white paste-like material from 5'9"-5'10" and 6'-7'3"	1			ORGANIC SILT & CLAY	
											8.25'		'
10													
								Bottom of core at 12 feet.					
15													
20													
25													
30													

REMARKS

1. Observed paste-like striations at 3'7", 5'9"-5'10", intermittent 6'-7'3"

See Log Key for explanation of sample description and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

Core No.: GZ-8

171521.02 WYNN EVERETT.GPJ; WYNN-CORE; 9/29/2015

SEDIMENT CORE LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Wynn Everett
Horizon Way
Everett, Massachusetts

CORE NO.: GZ-9
SHEET: 1 of 1
PROJECT NO: 171521.02
REVIEWED BY:

Drilling Co.: C.R. Environmental	**Type of Rig:** Vibracore	**Core Location:** See Plan	**H. Datum:**
Foreman: Ken Thompson	**Rig Model:** N/A	**Ground Surface Elev. (ft.):**	**V. Datum:**
Logged By: Jason Chrzanowski	**Drilling Method:** Direct-Push	**Final Core Depth (ft.):** 12	
		Date Start - Finish: 7/31/2013 - 7/31/2013	

		Groundwater Depth (ft.)				
Auger/Casing Type:	**Sampler Type:** 12' Core Barrel	**Date**	**Time**	**Water Depth**	**Casing**	**Stab. Time**
I.D/O.D.(in):	**I.D./O.D. (in.):** 4"					
Hammer Weight (lb.):	**Sampler Hmr Wt (lb):**					
Hammer Fall (in.):	**Sampler Hmr Fall (in):**					
Other:	**Other:**					

Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Sample Pen. (ft)	Sample Rec. (ft)	Sample Blows (per 6 in.)	Sample SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Stratum Depth (ft.)	Stratum Description	Stratum Elev. (ft.)
				12	9.25			0'-4': Black, mucky SILT & CLAY, trace shells				MUCKY SILT & CLAY	
											4'		'
5								4'-9'3": Dark gray-gray Organic SILT & CLAY, white paste-like material at 4'1"-4'2"	1			ORGANIC SILT & CLAY	
											9.25'		'
10													
								Bottom of core at 12 feet.					
15													
20													
25													
30													

REMARKS

1. White paste-like material at 4'1"-4'-2"

See Log Key for explanation of sample description and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

Core No.: GZ-9

171521.02 WYNN EVERETT.GPJ; WYNN-CORE; 9/29/2015

SEDIMENT CORE LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Wynn Everett
Horizon Way
Everett, Massachusetts

CORE NO.: GZ-LC1
SHEET: 1 of 1
PROJECT NO: 171521.02
REVIEWED BY:

Drilling Co.: C.R. Environmental	**Type of Rig:** Vibracore	**Core Location:** See Plan	**H. Datum:**
Foreman: Ken Thompson	**Rig Model:** N/A	**Ground Surface Elev. (ft.):**	**V. Datum:**
Logged By: Daniel Scanlon	**Drilling Method:** Direct-Push	**Final Core Depth (ft.):** 9.6	
		Date Start - Finish: 8/5/2013 - 8/5/2013	

Auger/Casing Type:	**Sampler Type:** 12' Core Barrel	
I.D/O.D.(in):	**I.D./O.D. (in.):** 4"	
Hammer Weight (lb.):	**Sampler Hmr Wt (lb):**	
Hammer Fall (in.):	**Sampler Hmr Fall (in):**	
Other:	**Other:**	

Groundwater Depth (ft.)

Date	Time	Water Depth	Casing	Stab. Time

Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Sample Pen. (ft)	Sample Rec. (ft)	Sample Blows (per 6 in.)	Sample SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Stratum Depth (ft.)	Stratum Description	Stratum Elev. (ft.)
				9.58	8			0'-0'6": Black, Organic SILT & fine SAND, trace shells 0'6"-8': Brown-gray, Clayey SILT, trace fine Sand, trace Organic fibers, moderate Hydrogen Sulfide odor			0.5	ORGANIC SILT & SAND	
5												CLAYEY SILT	
											8'		
10								Bottom of core at 9.6 feet.					
15													
20													
25													
30													

REMARKS

See Log Key for explanation of sample description and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

Core No.: GZ-LC1

SEDIMENT CORE LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Wynn Everett
Horizon Way
Everett, Massachusetts

CORE NO.: GZ-LC10
SHEET: 1 of 1
PROJECT NO: 171521.02
REVIEWED BY:

Drilling Co.: C.R. Environmental	**Type of Rig:** Vibracore	**Core Location:** See Plan	**H. Datum:**
Foreman: Ken Thompson	**Rig Model:** N/A	**Ground Surface Elev. (ft.):**	**V. Datum:**
Logged By: Daniel Scanlon	**Drilling Method:** Direct-Push	**Final Core Depth (ft.):** 5	
		Date Start - Finish: 8/5/2013 - 8/5/2013	

Auger/Casing Type:	**Sampler Type:** 12' Core Barrel	
I.D/O.D.(in):	**I.D./O.D. (in.):** 4"	
Hammer Weight (lb.):	**Sampler Hmr Wt (lb):**	
Hammer Fall (in.):	**Sampler Hmr Fall (in):**	
Other:	**Other:**	

Groundwater Depth (ft.)

Date	Time	Water Depth	Casing	Stab. Time

Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Sample Pen. (ft)	Sample Rec. (ft)	Sample Blows (per 6 in.)	Sample SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Stratum Depth (ft.)	Stratum Description	Stratum Elev. (ft.)
				5	3.67			0'-1': Black, Mucky SILT, faint Hydrogen Sulfide odor 1'-1'8": Dark gray, Clayey SILT, trace fine-medium Sand 1'8"-3'8": Brownish gray, Silty fine SAND, trace shells, faint Hydrogen Sulfide odor			1'	MUCK	'
											1.67'	CLAYEY SILT	'
												SILTY SAND	
											3.67'		'
5								Bottom of core at 5 feet.					
10													
15													
20													
25													
30													

REMARKS

See Log Key for explanation of sample description and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

Core No.: GZ-LC10

171521.02 WYNN EVERETT.GPJ; WYNN-CORE; 9/29/2015

SEDIMENT CORE LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Wynn Everett
Horizon Way
Everett, Massachusetts

CORE NO.: GZ-LC2
SHEET: 1 of 1
PROJECT NO: 171521.02
REVIEWED BY:

Drilling Co.: C.R. Environmental	**Type of Rig:** Vibracore	**Core Location:** See Plan	**H. Datum:**
Foreman: Ken Thompson	**Rig Model:** N/A	**Ground Surface Elev. (ft.):**	**V. Datum:**
Logged By: Daniel Scanlon	**Drilling Method:** Direct-Push	**Final Core Depth (ft.):** 8	
		Date Start - Finish: 8/5/2013 - 8/5/2013	

Auger/Casing Type:	**Sampler Type:** 12' Core Barrel	
I.D/O.D.(in):	**I.D./O.D. (in.):** 4"	
Hammer Weight (lb.):	**Sampler Hmr Wt (lb):**	
Hammer Fall (in.):	**Sampler Hmr Fall (in):**	
Other:	**Other:**	

Groundwater Depth (ft.)

Date	Time	Water Depth	Casing	Stab. Time

Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Sample Pen. (ft)	Sample Rec. (ft)	Sample Blows (per 6 in.)	Sample SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Stratum Depth (ft.)	Stratum Description	Stratum Elev. (ft.)
				8	3.83			0'-1': Light gray, Silty MUCK 1'-3'10": Dark gray, Silty MUCK, faint petroleum-like odor				MUCK	
5											3.83'		
								Bottom of core at 8 feet.					
10													
15													
20													
25													
30													

REMARKS

See Log Key for explanation of sample description and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

Core No.: GZ-LC2

SEDIMENT CORE LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Wynn Everett
Horizon Way
Everett, Massachusetts

CORE NO.: GZ-LC3
SHEET: 1 of 1
PROJECT NO: 171521.02
REVIEWED BY:

Drilling Co.: C.R. Environmental	**Type of Rig:** Vibracore	**Core Location:** See Plan	**H. Datum:**
Foreman: Ken Thompson	**Rig Model:** N/A	**Ground Surface Elev. (ft.):**	**V. Datum:**
Logged By: Daniel Scanlon	**Drilling Method:** Direct-Push	**Final Core Depth (ft.):** 7	
		Date Start - Finish: 8/5/2013 - 8/5/2013	

Auger/Casing Type:	**Sampler Type:** 12' Core Barrel	
I.D/O.D.(in):	**I.D./O.D. (in.):** 4"	
Hammer Weight (lb.):	**Sampler Hmr Wt (lb):**	
Hammer Fall (in.):	**Sampler Hmr Fall (in):**	
Other:	**Other:**	

Groundwater Depth (ft.)

Date	Time	Water Depth	Casing	Stab. Time

Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Sample Pen. (ft)	Sample Rec. (ft)	Sample Blows (per 6 in.)	Sample SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data
				7	6			0'-1': Dark brown, Silty fine SAND, trace medium Sand, trace shells 1'-1'5": Dark brown, fine-medium SAND, some SIlt, faint petroleum-like odor 1'5"-3': Dark brown Organic SILT, little fine Sand, faint petroleum-like odor 3'-4': Dark brown fine-medium SAND, some Silt, trace shells, moderate petroleum-like odor 4'-5'3": Gray, Organic Clayey SILT, faint petroleum-like odor 5'3"-6': Gray-black, fine-medium SAND, little Silt, faint petroleum-like odor		
								Bottom of core at 7 feet.		

Depth (ft.)	Stratum Description	Elev. (ft.)
1'	SILTY SAND	
1.42'	SAND	
3'	ORGANIC SILT	
4'	SAND	
5.25'	ORGANIC CLAYEY SILT	
6'	SAND	

REMARKS

See Log Key for explanation of sample description and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

Core No.: GZ-LC3

171521.02 WYNN EVERETT.GPJ; WYNN-CORE; 9/29/2015

SEDIMENT CORE LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Wynn Everett
Horizon Way
Everett, Massachusetts

CORE NO.: GZ-LC4
SHEET: 1 of 1
PROJECT NO: 171521.02
REVIEWED BY:

Drilling Co.: C.R. Environmental	**Type of Rig:** Vibracore	**Core Location:** See Plan	**H. Datum:**
Foreman: Ken Thompson	**Rig Model:** N/A	**Ground Surface Elev. (ft.):**	**V. Datum:**
Logged By: Daniel Scanlon	**Drilling Method:** Direct-Push	**Final Core Depth (ft.):** 12	
		Date Start - Finish: 8/5/2013 - 8/5/2013	

Auger/Casing Type:	**Sampler Type:** 12' Core Barrel	
I.D/O.D.(in):	**I.D./O.D. (in.):** 4"	
Hammer Weight (lb.):	**Sampler Hmr Wt (lb):**	
Hammer Fall (in.):	**Sampler Hmr Fall (in):**	
Other:	**Other:**	

Groundwater Depth (ft.)

Date	Time	Water Depth	Casing	Stab. Time

Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Sample Pen. (ft)	Sample Rec. (ft)	Sample Blows (per 6 in.)	Sample SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Stratum Depth (ft.)	Stratum Description	Stratum Elev. (ft.)
				12	5.83			0'-1'6": Dark brown, Silty MUCK, trace fine Sand, faint Hydrogen Sulfide odor 1'6"-2': Dark-brown-gray, Silty fine SAND, faint unknown odor 2'-2'2": Gray fine SAND with small sand-like grains of white granular material, very strong unknown odor 2'2"-5'10": Gray, Clayey SILT, very strong unknown chemical odor			1.5'	MUCK	
											2'	SILTY SAND	
											2.17'	SAND	
												CLAYEY SILT	
											5.83'		
								Bottom of core at 12 feet.					

5
10
15
20
25
30

REMARKS

See Log Key for explanation of sample description and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

Core No.: GZ-LC4

171521.02 WYNN EVERETT.GPJ; WYNN-CORE; 9/29/2015

SEDIMENT CORE LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Wynn Everett
Horizon Way
Everett, Massachusetts

CORE NO.: GZ-LC5
SHEET: 1 of 1
PROJECT NO: 171521.02
REVIEWED BY:

Drilling Co.: C.R. Environmental	**Type of Rig:** Vibracore	**Core Location:** See Plan	**H. Datum:**
Foreman: Ken Thompson	**Rig Model:** N/A	**Ground Surface Elev. (ft.):**	**V. Datum:**
Logged By: Daniel Scanlon	**Drilling Method:** Direct-Push	**Final Core Depth (ft.):** 6.8	
		Date Start - Finish: 8/5/2013 - 8/5/2013	

Auger/Casing Type:	**Sampler Type:** 12' Core Barrel	
I.D/O.D.(in):	**I.D./O.D. (in.):** 4"	
Hammer Weight (lb.):	**Sampler Hmr Wt (lb):**	
Hammer Fall (in.):	**Sampler Hmr Fall (in):**	
Other:	**Other:**	

Groundwater Depth (ft.)

Date	Time	Water Depth	Casing	Stab. Time

Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Sample Pen. (ft)	Sample Rec. (ft)	Sample Blows (per 6 in.)	Sample SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Stratum Depth (ft.)	Stratum Description	Stratum Elev. (ft.)
				6.83	4			0'-4': Dark brown-black, Silty MUCK, trace fine Sand, slight-moderate petroleum-like odor				MUCK	
5											4'		
								Bottom of core at 6.8 feet.					
10													
15													
20													
25													
30													

REMARKS

See Log Key for explanation of sample description and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

Core No.: GZ-LC5

171521.02 WYNN EVERETT.GPJ; WYNN-CORE; 9/29/2015

SEDIMENT CORE LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Wynn Everett
Horizon Way
Everett, Massachusetts

CORE NO.: GZ-LC6
SHEET: 1 of 1
PROJECT NO: 171521.02
REVIEWED BY:

Drilling Co.: C.R. Environmental	**Type of Rig:** Vibracore	**Core Location:** See Plan	**H. Datum:**
Foreman: Ken Thompson	**Rig Model:** N/A	**Ground Surface Elev. (ft.):**	**V. Datum:**
Logged By: Daniel Scanlon	**Drilling Method:** Direct-Push	**Final Core Depth (ft.):** 6	
		Date Start - Finish: 8/5/2013 - 8/5/2013	

Auger/Casing Type:	**Sampler Type:** 12' Core Barrel	
I.D/O.D.(in):	**I.D./O.D. (in.):** 4"	
Hammer Weight (lb.):	**Sampler Hmr Wt (lb):**	
Hammer Fall (in.):	**Sampler Hmr Fall (in):**	
Other:	**Other:**	

Groundwater Depth (ft.)

Date	Time	Water Depth	Casing	Stab. Time

Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Sample Pen. (ft)	Sample Rec. (ft)	Sample Blows (per 6 in.)	Sample SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Stratum Depth (ft.)	Stratum Description	Stratum Elev. (ft.)
				6	5			0'-2': Black, Silty MUCK, trace fine Sand, slight Hydrogen Sulfide odor 2'-5': Dark gray, Silty MUCK, trace Clay, trace fine sand, moderate petroleum-like odor				MUCK	
5											5'		'
								Bottom of core at 6 feet.					
10													
15													
20													
25													
30													

REMARKS

See Log Key for explanation of sample description and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

Core No.: GZ-LC6

171521.02 WYNN EVERETT.GPJ; WYNN-CORE; 9/29/2015

SEDIMENT CORE LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Wynn Everett
Horizon Way
Everett, Massachusetts

CORE NO.: GZ-LC7
SHEET: 1 of 1
PROJECT NO: 171521.02
REVIEWED BY:

Drilling Co.: C.R. Environmental	**Type of Rig:** Vibracore	**Core Location:** See Plan	**H. Datum:**
Foreman: Ken Thompson	**Rig Model:** N/A	**Ground Surface Elev. (ft.):**	**V. Datum:**
Logged By: Daniel Scanlon	**Drilling Method:** Direct-Push	**Final Core Depth (ft.):** 8	
		Date Start - Finish: 8/5/2013 - 8/5/2013	

Auger/Casing Type:	**Sampler Type:** 12' Core Barrel	
I.D/O.D.(in):	**I.D./O.D. (in.):** 4"	
Hammer Weight (lb.):	**Sampler Hmr Wt (lb):**	
Hammer Fall (in.):	**Sampler Hmr Fall (in):**	
Other:	**Other:**	

Groundwater Depth (ft.)

Date	Time	Water Depth	Casing	Stab. Time

Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Sample Pen. (ft)	Sample Rec. (ft)	Sample Blows (per 6 in.)	Sample SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Stratum Depth (ft.)	Stratum Description	Stratum Elev. (ft.)
				8	5.33			0'-4': Black, Silty MUCK				MUCK	
5								4'-5'4": Black, Silty MUCK, little fine-coarse sand, little shells			5.33'		
								Bottom of core at 8 feet.					
10													
15													
20													
25													
30													

REMARKS

See Log Key for explanation of sample description and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

Core No.: GZ-LC7

171521.02 WYNN EVERETT.GPJ; WYNN-CORE; 9/29/2015

SEDIMENT CORE LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Wynn Everett
Horizon Way
Everett, Massachusetts

CORE NO.: GZ-LC8
SHEET: 1 of 1
PROJECT NO: 171521.02
REVIEWED BY:

Drilling Co.: C.R. Environmental	**Type of Rig:** Vibracore	**Core Location:** See Plan	**H. Datum:**
Foreman: Ken Thompson	**Rig Model:** N/A	**Ground Surface Elev. (ft.):**	**V. Datum:**
Logged By: Daniel Scanlon	**Drilling Method:** Direct-Push	**Final Core Depth (ft.):** 9	
		Date Start - Finish: 8/5/2013 - 8/5/2013	

		Groundwater Depth (ft.)				
Auger/Casing Type:	**Sampler Type:** 12' Core Barrel	**Date**	**Time**	**Water Depth**	**Casing**	**Stab. Time**
I.D/O.D.(in):	**I.D./O.D. (in.):** 4"					
Hammer Weight (lb.):	**Sampler Hmr Wt (lb):**					
Hammer Fall (in.):	**Sampler Hmr Fall (in):**					
Other:	**Other:**					

Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Sample Pen. (ft)	Sample Rec. (ft)	Sample Blows (per 6 in.)	Sample SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Stratum Depth (ft.)	Stratum Description	Stratum Elev. (ft.)
				9	7			0'-4'10": Dark brown-black, Silty MUCK, trace fine sand, trace Organic fibers				MUCK	
5								4'10"-6'2": Dark gray, Organic SILT & CLAY, trace fine Sand, trace Organic fibers			4.83'		
								6'2"-7': Brown-gray, Silty fine SAND, trace shells, faint Hydrogen Sulfide odor			6.17'	ORGANIC SILT & CLAY	
											7'	SILTY SAND	
10								Bottom of core at 9 feet.					
15													
20													
25													
30													

REMARKS

See Log Key for explanation of sample description and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

Core No.: GZ-LC8

SEDIMENT CORE LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Wynn Everett
Horizon Way
Everett, Massachusetts

CORE NO.: GZ-LC9
SHEET: 1 of 1
PROJECT NO: 171521.02
REVIEWED BY:

Drilling Co.: C.R. Environmental	**Type of Rig:** Vibracore	**Core Location:** See Plan	**H. Datum:**
Foreman: Ken Thompson	**Rig Model:** N/A	**Ground Surface Elev. (ft.):**	**V. Datum:**
Logged By: Daniel Scanlon	**Drilling Method:** Direct-Push	**Final Core Depth (ft.):** 8.2	
		Date Start - Finish: 8/5/2013 - 8/5/2013	

Auger/Casing Type:	**Sampler Type:** 12' Core Barrel	**Groundwater Depth (ft.)**			
I.D/O.D.(in):	**I.D./O.D. (in.):** 4"	**Date**	**Time**	**Water Depth**	**Casing**	**Stab. Time**
Hammer Weight (lb.):	**Sampler Hmr Wt (lb):**					
Hammer Fall (in.):	**Sampler Hmr Fall (in):**					
Other:	**Other:**					

Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Sample Pen. (ft)	Sample Rec. (ft)	Sample Blows (per 6 in.)	Sample SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Stratum Depth (ft.)	Stratum Description	Stratum Elev. (ft.)
				8.17	5.17			0'-2'6": Black, Silty MUCK, moderate Hydrogen Sulfide odor 2'6"-4'5": Dark brown, Silty MUCK, trace Clay, trace fine Sand, faint Hydrogen Sulfide odor 4'5"-5'2": Gray-brown, fine SAND & SILT, trace shells, moderate Hydrogen Sulfide odor				MUCK	
5											4.42'		'
											5.17'	SAND & SILT	'
								Bottom of core at 8.2 feet.					
10													
15													
20													
25													
30													

REMARKS

See Log Key for explanation of sample description and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

Core No.: GZ-LC9

APPENDIX G

TOXICITY TEST REPORTS



New England Bioassay
a Division of GZA GeoEnvironmental, Inc.

77 Batson Drive
Manchester, CT
06042
860-643-9560
FAX 860-646-7169

28-DAY TOXICITY TESTS WITH THE AMPHIPOD, LEPTOCHEIRUS PLUMULOSUS, USING WHOLE-SEDIMENT SAMPLES COLLECTED ON AUGUST 6, 2013 FROM THE WYNN MA, LLC EVERETT STAGING YARD IN EVERETT, MA

October 16, 2013

Performed For:

GZA GeoEnvironmental, Inc.
1 Edgewater Drive
Norwood, MA 02062

Performed by:

New England Bioassay
77 Batson Drive
Manchester, Connecticut 06042

SUMMARY

Client:	GZA GeoEnvironmental, Inc.
Site:	Wynn MA, LLC's staging yard Everett, MA
GZA Job Number:	01.171521.02 Task 6
Test Materials:	Whole Sediment Samples (Estuarine)
Sample Date:	August 6, 2013 (9 Whole Sediment Samples)
Delivery Date:	August 22, 2013
Test Type:	28-day Single Concentration Survival & Growth Toxicity Tests with the Amphipod, *Leptocheirus plumulosus*
Test Endpoint:	28-day survival & growth
Test Dates:	August 28, 2013 – September 25, 2013



New England Bioassay
a Division of GZA GeoEnvironmental, Inc.

77 Batson Drive
Manchester, CT
06042
860-643-9560
FAX 860-646-7169

28-DAY TOXICITY TESTS WITH THE AMPHIPOD, LEPTOCHEIRUS PLUMULOSUS, USING WHOLE-SEDIMENT SAMPLES COLLECTED ON AUGUST 6, 2013 FROM THE WYNN MA, LLC EVERETT STAGING YARD IN EVERETT, MA

October 16, 2013

INTRODUCTION

This report contains results of toxicity tests performed using grab samples of nine estuarine sediments collected on August 6, 2013 from the Wynn MA, LLC's staging yard in Everett, MA. Toxicity tests with the whole sediment samples were conducted by exposing the saltwater amphipod, *Leptocheirus plumulosus*, to each of the nine sediment samples for 28 days in a static-renewal test system. All toxicity test work reported here was performed at New England Bioassay (NEB) in Manchester, CT.

MATERIALS AND METHODS

Sample Collection and Handling

Grab samples of nine estuarine sediments for toxicity screening were collected on August 6, 2013 from the Wynn MA, LLC's staging yard in Everett, MA. The samples were picked up from the GZA office in Norwood, MA and delivered to NEB by NEB courier on August 22, 2013 at 1400 h; the whole sediment samples were then stored refrigerated in their original containers until test set-up. Copies of chain of custody documentation are found in Appendix B.

Upon receipt at NEB, the sediment samples (1-gallon HDPE plastic containers) were logged into the laboratory (Table 1). The sediment samples were then stored in the dark in a cold room (4° ± 2°C) until testing. Free-standing water found in the original sample containers was used to represent pore water; the pore water was collected and then analyzed for salinity and total ammonia (Attachment 1). Before testing, the nine sediment samples were removed from the cold room and then manually stirred in their original containers to ensure homogeneity.

TABLE 1. DESCRIPTION OF ESTUARINE WHOLE SEDIMENT SAMPLES COLLECTED FROM EVERETT, MA

Sample Description	Sample Date	Sample Type	NEB COC Nos.
	Whole Sediments		
GZ-104T	8/6/13	Grab	C33-3574
GZ-114T	8/6/13	Grab	C33-3575
GZ-116T	8/6/13	Grab	C33-3576
GZ-126T	8/6/13	Grab	C33-3577
GZ-135T	8/6/13	Grab	C33-3578
GZ-137T	8/6/13	Grab	C33-3579
GZ-LC1T	8/6/13	Grab	C33-3580
GZ-LC2T	8/6/13	Grab	C33-3581
GZ-LC3T	8/6/13	Grab	C33-3582

Observations on gross physical characteristics of sediment samples were then made. A description of each sample before test set-up can be found in Attachment 2.

In addition to testing site sediment samples, an artificial control sediment was evaluated as a quality-control check to determine adequacy of organisms and test system. The artificial control sediment was created based on EPA recommendations and consisted of natural sand and composted cow manure (Attachment 3). Control sediments were handled similarly to the site sediments.

After homogenization and characterization, between 2 cm and 5 cm of wet sediment was measured into 1L Pyrex glass beakers; a total of five beakers were prepared in this manner for each site sediment and the control sediment. Remaining sediment from each site was then stored in a cold room at 4° ± 2°.

Overlying water was added to each replicate beaker; gentle aeration of the overlying water was then initiated in all test and control beakers. After settling for about 4 h at the test temperature, aliquots of overlying water were removed from each sediment for total ammonia analysis; about 75% of the test solution was then removed and replaced with fresh overlying water. After test solution renewal, initial water quality measurements were performed; beakers containing the sediment and overlying water were then ready for introduction of test organisms.

Test Organisms

Leptocheirus plumulosus

Leptocheirus plumulosus, (Crustacea, Amphipoda) is an infaunal sediment-burrowing amphipod recommended as a test species for sediment tests (COE/EPA, 1994a, 1994b, 1995, 1998). This species is widely distributed in the estuarine and mesohaline portions of the Atlantic coast. Amphipods required for testing were obtained from an in-house culture. The amphipods were sorted by size through various sieves on August 27th to obtain the size needed for the sediment tests. The tests were initiated by loading 20 amphipods into each of the test and control beakers. A subsample of 40 amphipods was set aside for length measurements (Appendix A).

Test Water

Overlying water used in the whole-sediment toxicity tests was artificial saltwater (ASW) prepared using deionized water and Instant Ocean sea salts to a salinity of 20 ppt ± 2. The water preparation log can be found in Attachment 4.

Test Systems

L. plumulosus Whole-Sediment 28-Day Toxicity Tests

The amphipod toxicity test procedures are primarily based on recommendations in EPA/COE Inland Testing Manual (ITM) guidance documents (1994a; updated 1998); additional EPA guidance was also consulted (1994b, 2001). Immature amphipods were continuously exposed for 28 days under static-renewal conditions to sediment samples from each site. An artificial control sediment was evaluated similarly to the nine site sediments. Immature amphipods were exposed in groups of 20 animals in 1L Pyrex glass beakers containing 2-5 cm of sediment and filled with approximately 825 mls overlying laboratory-prepared saltwater, with five beakers per concentration (100 animals per sediment).

The test beakers for each sediment were placed in a controlled environmental chamber under the ITM specified test conditions (temperature 25° ± 2°C; photoperiod 16 h light and 8 h dark). After adding amphipods to the test chambers, the chambers were loosely covered to reduce evaporation.

All replicates received a change of the overlying water every Monday, Wednesday and Friday until test termination. Beakers were fed 2mls of crushed Tetramin flake three times a week after water renewal. To maintain adequate dissolved oxygen levels in the overlying water during testing, test and control beakers were continuously aerated (single bubble aeration) throughout the 28-day tests. At regular intervals, temperature, dissolved oxygen, pH, and salinity were measured in each sample and control (Appendix A). Samples of overlying water were taken on days 0 and 28 and sent to Phoenix Environmental Laboratories to monitor ammonia levels (Appendix B). Ammonia levels were also monitored on day 2 and day 14 in the lab using a salicylate-based color indicator to ensure they were not above the acceptable range (Attachment 1).

At test termination, the contents of each test chamber are sieved to isolate the test organisms. The mesh sizes for sieving the contents of the test chambers are 0.5 – 0.6 mm for adults and 0.25 mm for offspring. The sieved material from the large mesh sieve, which will include the adult amphipods, is rinsed into plexi-glass sorting trays and survival counts are performed. Amphipods and residual sediment retained on the 0.25mm sieve are rinsed into a labeled sample container using 70% isopropyl alcohol and a funnel supported by a ring stand. Approximately 3 ml of rose bengal solution is added to stain the organisms. If any young are observed while counting the adults in the sorting tray, the contents of the sorting tray are sieved again and added to the alcohol preserved container. The preserved young are counted within 2 weeks of test termination.

All live adult amphipods within a replicate were placed in pre-weighed drying pans and kept in a drying oven overnight (70°C). The following day, the weigh pans containing the dried amphipods were removed from the drying oven and placed in a desiccator. Amphipods were subsequently reweighed as a group using a 5-place balance. Total dry weight per replicate was then divided by number of amphipods weighed to obtain an average dry weight per surviving amphipod (Appendix A).

Reference Toxicant Test

An acute reference toxicant test (potassium chloride; KCl) was conducted with the same group of *L. plumulosus* collected for use in the sediment tests. The 96-h survival data were used to calculate an LC_{50} for *L. plumulosus*. The KCl test consisted of six nominal concentrations (125, 250, 500, 1000, 1500, and 2000 mg/L KCl) and a dilution-water control (ASW). The reference toxicant data can be found in Appendix B.

Statistical Analysis

Toxicity data from the amphipod tests were used to determine if the sediment samples exhibited significant effects on survival, growth and reproduction when compared with the test endpoints in laboratory control sediment (EPA, 1993, 1994c). Statistical analyses were run using the Comprehensive Environmental Toxicity Information System (CETIS v1.8.7.7), which uses an automated decision tree based on the EPA's flowchart for statistical analysis. Copies of data sheets and statistical summary printouts for the *L. plumulosus* toxicity tests are located in Appendix A.

RESULTS

Leptocheirus plumulosus 28-Day Toxicity Tests

Results of the *L. plumulosus* 28-day screening toxicity tests (test dates: August 28, 2013 – September 25, 2013) are summarized in Table 2. Survival of *L. plumulosus* in the NEB artificial control sediment was 91% after 28 days. Site sediment GZ-LC2T exhibited a statistically-significant reduction (Steel's many-one rank test; $P < 0.05$) in survival of *L. plumulosus* when compared with the survival in the artificial control. Survival in the eight remaining site sediments did not exhibit a statistically-significant reduction when compared with the artificial control. Survival in the site sediment samples ranged from 0% to 94% after a 28-day exposure.

Average weight of the *L.plumulosus* was 1.395 mg after 28 days in the artificial control. When the average weight of the nine site sediments was compared with the artificial control, a statistically-significant reduction was found in samples GZ-104T, GZ-114T, GZ-126T, GZ-137T, GZ-LC2T and GZ-LC3T (Dunnett Multiple Comparison Test; $P < 0.05$). There was no statistically-significant reduction in weight between the site samples GZ-116T, GZ-135T and GZ-LC1T when compared with the artificial control. Average weight in the site sediment samples ranged from 0 mg to 0.899 mg after a 28-day exposure.

Amphipods exposed to the artificial control sediment increased in dry weight by approximately 17.7-fold during the 28-day exposure. For the nine site sediments, dry weight increases over initial dry weights ranged from 4.1-fold for sample GZ-104T to 11.3-fold for GZ-LC1T.

There was a statistically-significant reduction in all of the site sediment samples for reproduction when compared against the artificial control, which had 382 young. However, the observations made on total number of offspring seem to correlate closely with the mean weights at 28-days. The three site sediment samples that did not have a statistically-significant reduction in weight compared with the artificial control, GZ-116T, GZ-135T and GZ-LC1T, also had the highest number of young at test termination; 115, 150 and 148, respectively. These three samples each had an average weight of $\geq$ 0.875mg. The remaining six site sediment samples, which were all found to have average weights that were significantly reduced from the control, had a noticeably smaller amount of young (Table 2).

TABLE 2. 28-DAY SURVIVAL, WEIGHTS & OFFSPRING FOR *L.PLUMULOSUS*

Test Dates: 8/28/13 – 9/25/13

Sample Description	28-day Survival (%)	Sig[a]	28-day Weight (mg)	Sig[a]	28-day # of Offspring	Sig[a]
Artificial Control	91.0		1.395		382	
GZ-104T	54.0	NS	0.326	*	48	*
GZ-114T	64.0	NS	0.355	*	55	*
GZ-116T	86.0	NS	0.883	NS	115	*
GZ-126T	84.0	NS	0.337	*	0	*
GZ-135T	94.0	NS	0.875	NS	150	*
GZ-137T	82.0	NS	0.450	*	26	*
GZ-LC1T	83.0	NS	0.899	NS	148	*
GZ-LC2T	0.0	*	0.0	*	0	*
GZ-LC3T	77.0	NS	0.577	*	38	*

[a]Sig: NS: not significant at 0.05; *: significant at 0.05

TABLE 3.WATER QUALITY MEASUREMENTS FOR L.PLUMULOSUS
28-DAY TOXICITY TESTS
Test Dates: 8/28/13 – 9/25/13

Sample	D.O. (mg/L)	Temperature (°C)	pH (SU)	Salinity (ppt)
		NEB LAB CONTROL SEDIMENT		
Artificial Control	6.6-8.0	24.4-25.7	7.7-8.2	20-21
		SITE TEST SEDIMENTS		
GZ-104T	6.2-8.1	24.3-25.7	7.8-8.5	20-22
GZ-114T	6.5-7.9	24.4-25.7	7.7-8.4	20-22
GZ-116T	6.0-8.2	24.3-25.3	7.6-8.4	20-21
GZ-126T	6.3-8.2	24.2-25.3	7.7-8.4	20-21
GZ-135T	6.0-7.9	24.1-25.3	7.7-8.3	20-21
GZ-137T	5.1-8.1	24.1-25.3	7.6-8.4	20-21
GZ-LC1T	6.2-8.0	24.1-24.6	7.6-8.3	20-22
GZ-LC2T	6.3-8.1	24.2-24.9	7.7-8.5	20-21
GZ-LC3T	6.4-8.0	24.2-25.3	7.7-8.6	20-22
Test Summary	**5.1-8.2**	**24.1-25.7**	**7.6-8.6**	**20-22**

Reference Toxicant Testing

The SDS 96-h LC_{50} was estimated for *L. plumulosus* using survival data generated from an acute reference toxicant test with the same cohort of amphipods used in sediment testing (test dates: 8/28/13 – 9/1/13). The 96-h LC_{50} for *L. plumulosus* was estimated at 12.074 mg/L SDS (Spearman method; confidence limits of 10.349 to 14.087 mg/L SDS). Survival of control amphipods was 100% at test completion (96 h).

SUMMARY

The least toxic samples appear to be GZ-116T, GZ-135T and GZ-LC1T. These three samples had the highest survival rate (≥ 83%), the highest average weights (≥ 0.875 mg) and the highest number of offspring (≥ 115). They did not exhibit any statistically-significant survival or weight reductions when compared with the control. The most toxic sample was GZ-LC2T, which had 0% survival at 28 days and produced no offspring. The remaining five site samples (GZ-104T, GZ-114T, GZ-126T, GZ-137T and GZ-LC3T) showed moderate toxicity. Their survival at 28-days was not significantly reduced when compared with the control, however their average weight at 28-days was significantly lower. They also produced lower amounts of offspring (≤ 55). A description of the overall test observations made by the technicians can be found in Attachment 5.

CERTIFICATION

I certify that the toxicity test data presented in this report were obtained under my direction or supervision in accordance with protocols of the U.S. Environmental Protection Agency, where applicable. The information is, to the best of my knowledge and belief, true, accurate, and complete.

Kimberly Wills
Laboratory Manager
New England Bioassay

10/16/13
Date

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APPENDIX A

28-DAY TOXICITY DATA SHEETS

STATISTICAL ANALYSES PRINTOUTS

ATTACHMENT 1

28-Day Saltwater Sediment Testing - Additional Chemical Measurements

Client: **GZA GeoEnvironmental, Inc.**

Project: **Everett, MA (01.171521.02 Task 6)**

Test pre-set date: **8-27-13**

Test set-up date: **8-28-13** *(Day 0)*

Pore water salinity & pH: * **(ppt. / S.U.)** 8-27-13					
Artificial Control:	**24 / 7.9**		GZ-135 T	**33 / 8.0**	
GZ-104 T	**30 / 7.9**		GZ-137 T	**32 / 7.8**	
GZ-114 T	**32 / 7.9**		GZ-LC 1 T	**30 / 7.9**	
GZ-116 T	**30 / 7.2**		GZ-LC 2 T	**30 / 8.1**	
GZ-126 T	**31 / 7.7**		GZ-LC 3 T	**30 / 7.9**	

Pore water ammonia: * **(mg/L)** 8-27-13 (by salicylate-based color indicator)					
Artificial Control:	**≤ 4**		GZ-135 T	**≤ 16**	
GZ-104 T	**≤ 16**		GZ-137 T	**≤ 4**	
GZ-114 T	**≤ 16**		GZ-LC 1 T	**≤ 16**	
GZ-116 T	**≤ 16**		GZ-LC 2 T	**≤ 8**	
GZ-126 T	**≤ 16**		GZ-LC 3 T	**≤ 16**	

* Free-standing water found in the original sample containers was used to represent "pore water."

Overlying Test Water Ammonia:

In order to determine the ammonia levels within the overlying water of each sediment test, samples of overlying water were collected on days 0 and 28, and sent to Phoenix Environmental Laboratories, Inc., in Manchester, CT.

Additional ammonia measurements were conducted at NEB using a salicylate-based color indicator. This was done to insure that the ammonia levels within the test chambers were not above the acceptable range. Otherwise, water changes would have been performed to reduce these ammonia levels (not found to be necessary in this case). See below:

Total Ammonia: (In **mg/L**, using a salicylate-based color indicator.)

	Day 2	**Day 14**
Date:	8-30-13	9-11-13
Artificial Control	**≤ 4**	**≤ 4**
GZ-104 T	**≤ 2**	**≤ 1**
GZ-114 T	**≤ 4**	**≤ 1**
GZ-116 T	**≤ 2**	**≤ 1**
GZ-126 T	**≤ 2**	**≤ 1**

	Day 2	**Day 14**
Date:	8-30-13	9-11-13
GZ-135 T	**≤ 4**	**≤ 1**
GZ-137 T	**≤ 2**	**≤ 1**
GZ-LC 1 T	**≤ 2**	**≤ 1**
GZ-LC 2 T	**≤ 1**	**≤ 1**
GZ-LC 3 T	**≤ 2**	**≤ 1**

ATTACHMENT 2

Descriptions of Sediment Samples

(At time of test pre-set)

Client: GZA GeoEnvironmental, Inc. Pre-set date: 8-27-13

Project: Everett, MA (01.171521.02 Task 6) Start date: 8-28-13

GZ-104 T / C33-3574: Black in color; smooth texture, fine-grained, with small stones and small snail shells; strong odor of petroleum.

GZ-114 T / C33-3575: Black in color; smooth texture, fine-grained, "pudding-like" consistency; shells of mussels and shells of oysters; faint odor of petroleum.

GZ-116 T / C33-3576: Black in color; sticky, but gritty, with small stones and clam shell fragments; faint odor of petroleum.

GZ-126 T / C33-3577: Dark gray in color; sticky, but gritty, with clam shell fragments; only natural odor detected.

GZ-135 T / C33-3578: Grayish black in color; sticky, heavy clay with sand, less fluid than the other samples; a razor clam shell was observed; only natural odor detected.

GZ-137 T / C33-3579: Black in color; smooth texture, fine grained, sticky; small clam shells observed; odor of petroleum noticeable.

GZ-LC 1 T / C33-3580: Dark gray in color; smooth, sticky and clay-like, with clam shells; small, live worms seen; faint odor of petroleum.

GZ-LC 2 T / C33-3581: Gray in color (lighter than the other samples); "fluffy" consistency, not dense or heavy; a few rocks were present, as well as shells of slipper-shell mollusks; strong odor of petroleum.

GZ-LC 3 T / C33-3582: Black in color; smooth, slippery texture, fine-grained, with a few small stones or shell fragments; odor of petroleum noticeable.

ATTACHMENT 3

Preparation of Artificial Control Sediment

(Saltwater version for *Leptocheirus plumulosus*)

Client: **GZA GeoEnvironmental, Inc.**

Project: **Everett, MA (01.171521.02 Task 6)**

Date prepared: **8-27-13**

Test pre-set date: **8-27-13**

Test setup date: **8-28-13**

Ingredients: Natural sand, sterilized natural marine sediment, and redart clay.
Artificial salt water (Instant Ocean™) used to increase pore water salinity.

Natural fine-grain sand was collected from a clean site in Huntington, MA. Portions of sand were rinsed through a 300 micron mesh. Sand grains small enough to pass through the mesh were further rinsed. The rinsed sand was stirred into artificial salt water, to provide the final product with increased pore-water salinity. The sand was allowed to settle, and the excess salt water was decanted.

Natural marine sediment was collected (7-30-13) from the Barn Island Wildlife Management Area in Stonington, CT. A portion of this sediment was sieved, then sterilized by microwaves in order to remove and/or destroy indigenous organisms. The sterilized sediment was allowed to cool.

Redart clay was obtained from Sheffield Pottery, Inc., in Sheffield, MA.

All ingredients were thoroughly blended together, and re-homogenized before use.

Amounts added:

Natural sand, ≤ 300 µm:	**660 ml**	(55% by volume)
Sterilized natural marine sediment:	**480**	(40% by volume)
Redart clay:	**60**	(5% by volume)

New England Bioassay

ATTACHMENT 4

Water Preparation for Marine Sediment Testing

Client: GZA GeoEnvironmental, Inc.

Project: Everett, MA (01.171521.02 Task 6)

Marine sediment

Testing start date: 8/28/13

Test type: 28-day, whole sediment

Test species: *Leptocheirus plumulosus*

Date Prepared	Dates Used	Type	Salinity (ppt.)	pH (S.U.)	Alkalinity (mg/L as $CaCO_3$)
8-27-13	8-27-13 → 9-6-13	D.I. w/ Instant Ocean™	20	8.1	95
9-6-13	9-9-13 → 9-23-13	↓	19	8.2	100
	- last renewal date				

ATTACHMENT 5

Marine Sediment - Overall Test Observations

Client: GZA GeoEnvironmental, Inc. Start date: 8-28-13

Project: Everett, MA (01.171521.02 Task 6) End date: 9-25-13

At test initiation (Day 0), test organisms were added to all replicate beakers. For all samples (and the control sediment), the amphipods quickly swam downward through the overlying water, and entered the sediment almost immediately.

One day after test initiation, small tunnel entrances (holes) were clearly visible on the surface of the control sediment, and short tunnels (burrows) could be seen against the glass on the side of the beakers, near the bottom. All but one of the test samples exhibited this type of burrowing by Day 1. These burrows remained visible throughout the duration of the test, slowly becoming longer and more branched.

For sample sediment **GZ-LC 2 T,** no burrows or tunnel entrances were ever observed. In fact, the organisms disappeared on day zero, and were never seen again. There was absolutely no indication of life or activity in the beakers containing sample GZ-LC 2 T throughout the test period. This is in stark contrast with all other samples, (and the control sediment), where borrows were obvious, and organisms could occasionally be seen roaming the surface of the sediment (an activity that increased as the organisms became mature).

All tests were fed on a normal schedule, after a 40% water change occurring on Mondays, Wednesdays, and Fridays. Salinity increases (due to evaporation) were controlled thru these water changes.

No indigenous organisms were observed during the test period.

At test breakdown:

Visual observation of recovered test organisms:

The surviving test amphipods recovered from the **control sediment** (on day 28) appeared healthy, and relatively consistent in size. They also appeared larger than some of those that were recovered from the various sample sediments.

The following size descriptions were made visually, and should not be considered to be as reliable or precise as the (more objective) dry-weight data:

Artificial control: organisms larger, generally consistent in size.

GZ-104 T: Mixed sizes, some organisms larger, others small and weak-looking. The largest organisms were found in replicate **D** (survival = 17), while the smallest organisms were found in replicate **A** (survival = 1) and in replicate **E** (survival = 6).

GZ-114 T: Most organisms were smaller than the control organisms, but to varying degrees. Those that appeared the most similar in size to the control organisms were found in the replicate having the highest survival (replicate **C**, survival = 18); however, smaller organisms were found in replicate **D**, were the survival was nearly as high (replicate **D,** survival = 17).

GZ-116 T: Organisms appeared only somewhat smaller than those found in the control sediment.

GZ-126 T: Organisms appeared noticeably smaller than those found in the control sediment.

Marine Sediment - Overall Test Observations (Page 2)

Client: GZA GeoEnvironmental, Inc. Start date: 8-28-13

Project: Everett, MA (01.171521.02 Task 6) End date: 9-25-13

GZ-135 T: Organisms in replicate **E** appeared smaller than those in the other replicates (survival was high in all replicates).

GZ-137 T: Organisms in replicate **C** appeared larger than those in the other replicates (survival in replicate **C** = 19). The organisms appeared smaller in all other replicates (besides replicate **C**); however, survival was equally as high in replicate **D** (survival = 19). So, the size difference did not appear to correspond with any particular difference in survival.

GZ-LC 1 T: Organisms appeared bigger in replicates **C**, **D**, and **E**, but were moderately smaller in replicates **A** and **B**. (Survival was generally high, except in replicate **B**, where survival = 6.)

GZ-LC 2 T: Absolutely no organisms were ever seen in sample **GZ-LC 2 T** after they were added on Day 0.

GZ-LC 3 T: The organisms recovered from replicate **A** were larger, while those found in the other replicates appeared smaller.

Additional Observations:

One live sand worm (2-3 inches long) was found in replicate **B** of sediment **GZ-116 T**. Another live sand worm (appx. 1.5 inches) was found in replicate **D** of sediment **GZ-126 T**.

A **very strong, undefined, chemical odor** was given off by the process of seiving sediment **GZ-LC 2 T** at test breakdown.

Initial Length and Weight Data - *Leptocheirus plumulosus*

Client: GZA GeoEnvironmental, Inc.

Project: Everett, MA (01.171521.02 Task 6)

Organism Lot #: Lp13(8-28)ME

Source: NEB

Date sampled / preserved: 8-28-13

Date of length measurement: 9-5-13

Four groups of ten organisms, selected randomly:

Length (mm):

	A	B	C	D
	1.2	1.6	2.1	2.1
	2.0	1.7	0.9	1.8
	1.4	2.1	1.7	1.7
	1.9	1.0	1.3	0.9
	1.3	1.0	1.5	1.9
	1.0	1.6	1.5	1.0
	1.2	1.1	1.1	1.0
	1.0	1.2	1.4	1.2
	0.9	1.0	1.3	1.7
	1.0	1.5	1.1	1.2
Mean Length:	1.3 mm	1.4 mm	1.4 mm	1.4 mm

Dry Weight:

	A	B	C	D
Pan + organisms:	943.21 mg	932.21 mg	940.82 mg	941.19 mg
- Pan (tare):	943.12 mg	932.00 mg	940.60 mg	940.92 mg
= organism weight	0.09 mg	0.21 mg	0.22 mg	0.27 mg
Qty. org. per pan:	10	10	10	10
Mean Weight:	0.009 mg	0.021 mg	0.022 mg	0.027 mg

Reviewed by: _____ Date: 10/16/13

New England Bioassay

New England Bioassay - *Sediment Toxicity Data*

Sample ID: **Artificial Control Sediment** (Lab prepared)

Page 1

Start date / time: 8-28-13 1105

Client / Source: **GZA GeoEnvironmental, Inc. / Everett, MA (~~18.~~01.171521.02 Task 6)**

End date / time:

Description / I.D. #'s: Saltwater control sediment NEB C.O.C #: **C33-3661**

Technicians: LC, AH, KB

Test organism: *Leptocheirus plumulosus*

Org. lot #: LP13(8-28)MC

Salt water- Date prep: (see attachment)

Quantity of organisms added per replicate: 20

Source: NEB
Neonates, 1-2 mm

Salinity / Alkalinity: (see attachment)

Day	Temp. (°C)	Salinity (ppt.) Rep: A	B	C	D	E	Dissolved Oxygen (mg/L) A	B	C	D	E	pH (S.U.) A	B	C	D	E	Water Renewal (appx. %)
0	24.6	20	20	20	20	20	7.0	7.0	6.9	6.9	6.9	7.9	7.9	7.9	7.9	7.9	
1	25.7																
2	25.4	21	21	21	21	21	7.0					7.9					50
3	24.4																
4	24.7																
5	24.6	20					6.7					8.1					50
6	24.7																
7	24.7	20					7.1					8.0					50
8	25.1																
9	25.1	20					8.0					8.2					50
10	24.7																
11	24.7																
12	24.6	20					7.2					8.0					50
13	24.7																
14	24.8	20					6.7					7.8					50

New England Bioassay - *Sediment Toxicity Data*

Sample ID: **Artificial Control Sediment** (Lab prepared)

Page 2

Client / Source: **GZA GeoEnvironmental, Inc. / Everett, MA (~~18~~ 01.171521.02 Task 6)**

Test start date: 8-28-13

Description / I.D. #'s: Saltwater control sediment NEB C.O.C #: **C33-3661**

Page 2 entries started: 9-12-13

End date / Time: 9-25-13 / 1135

Day	Temp. (°C)	Salinity (ppt.) Rep	A	B	C	D	E	Dissolved Oxygen (mg/L)	A	B	C	D	E	pH (S.U.)	A	B	C	D	E	Water Renewal (appx. %)
15	24.5	15						15						15						15	
16	25.0	16	21					16	7.1					16	7.9					16	50
17	24.7	17						17						17						17	
18	24.8	18						18						18						18	
19	24.6	19	20					19	6.9					19	7.8					19	50
20	24.4	20						20						20						20	
21	24.6	21	20					21	7.1					21	8.0					21	50
22	24.6	22						22						22						22	
23	24.6	23	20					23	6.6					23	8.0					23	50
24	24.6	24						24						24						24	
25	24.7	25						25						25						25	
26	24.5	26	21					26	7.2					26	7.8					26	50
27	24.6	27						27						27						27	
28	24.7	28	20	20	20	20	20	28	7.1	7.1	6.9	6.6	6.7	28	7.7	7.8	7.7	7.8	7.8		

	A	B	C	D	E
Day 28 Survival: (Qty. per Replicate)	19	16	18	20	18

Overall Survival: 91 %

New England Bioassay - *Sediment Toxicity Data*

Sample ID: **GZ - 104 T**

Start date / time: 8-28-13 / 1105

Client / Source: **GZA GeoEnvironmental, Inc. / Everett, MA (~~18~~ 01.171521.02 Task 6)**

End date / time:

Description / I.D. #'s: Marine sediment NEB C.O.C #: **C33-3574**

Technicians: LC, AH, KB

Test organism: *Leptocheirus plumulosus*

Org. lot #: Lp 13 (8-28) MC

Salt water- Date prep: (see attachment)

Quantity of organisms added per replicate: 20

Source: NEB
Neonates, 1-2 mm

Salinity / Alkalinity: (see attachment)

Day	Temp. (°C)	Salinity (ppt.) (Add D.I. to maintain volume & salinity.) Rep: A	B	C	D	E	Dissolved Oxygen (mg/L) A	B	C	D	E	pH (S.U.) A	B	C	D	E	Water Renewal (appx. %)
0	24.6	20	20	20	20	20	6.2	6.9	6.4	6.8	6.7	7.8	7.8	7.8	7.8	7.8	
1	25.7																
2	25.4	21	21	21	21	22 (A)	7.0					8.0					50
3	24.3																
4	24.7																
5	24.6	20					6.8					8.4					50
6	24.7																
7	24.7	20					7.0					8.4					50
8	25.1																
9	25.1	20					8.1					8.5					50
10	24.8																
11	24.7																
12	24.6	20					7.2					8.2					50
13	24.7																
14	24.8	21					6.7					7.8					50

(A) D.I. added to replicate; 8-30-13.

New England Bioassay - *Sediment Toxicity Data* Sample ID: **GZ - 104 T** **Page 2**

Client / Source: **GZA GeoEnvironmental, Inc. / Everett, MA (~~18~~ 01.171521.02 Task 6)** Test start date: 8-28-13

Description / I.D. #'s: Marine sediment NEB C.O.C #: **C33-3574** *Page 2* entries started: 9-12-13

End date / Time: 9-25-13 / 1210

Day	Temp. (°C)	Rep	Salinity (ppt.) A	B	C	D	E	Dissolved Oxygen (mg/L) A	B	C	D	E	pH (S.U.) A	B	C	D	E	Water Renewal (appx. %)
15	24.5	15																
16	25.0	16	21					6.9					8.0					50
17	24.7	17																
18	24.8	18																
19	24.6	19	20					7.0					8.0					50
20	24.6	20																
21	24.6	21	20					7.1					8.1					50
22	24.6	22																
23	24.8	23	20					6.8					8.1					50
24	24.6	24																
25	24.7	25																
26	24.5	26	21					6.9					7.9					50
27	24.6	27																
28	24.6	28	20	20	20	20	20	6.7	6.6	6.7	6.5	6.5	8.0	8.0	8.0	8.0	8.0	

	A	B	C	D	E
Day 28 Survival: (Qty. per Replicate)	1	15	15	17	6

Overall Survival: 54 %

New England Bioassay - *Sediment Toxicity Data*

Sample ID: **GZ - 114 T**

Start date / time: 8-28-13, 1105

End date / time:

Client / Source: **GZA GeoEnvironmental, Inc. / Everett, MA (~~18~~.01.171521.02 Task 6)**

Description / I.D. #'s: Marine sediment NEB C.O.C #: **C33-3575**

Technicians: LC, AH, KB

Test organism: *Leptocheirus plumulosus*

Org. lot #: Lp13 (8-28) MC

Salt water- Date prep: (see attachment)

Quantity of organisms added per replicate: 20

Source: NEB

Neonates, 1-2 mm

Salinity / Alkalinity: (see attachment)

Day	Temp. (°C)	Rep	Salinity (ppt.) (Add D.I. to maintain volume & salinity.) A	B	C	D	E	Dissolved Oxygen (mg/L) A	B	C	D	E	pH (S.U.) A	B	C	D	E	Water Renewal (appx. %)
0	24.6	0	20	20	20	20	20	6.5	6.5	6.5	6.4	6.6	7.8	7.8	7.8	7.8	7.8	
1	25.7	1																
2	25.4	2	21	21	21	21	22 (A)	7.0					7.9					50
3	24.5	3																
4	24.7	4																
5	24.6	5	20					6.8					8.4					50
6	24.7	6																
7	24.7	7	20					6.9					8.4					50
8	25.1	8																
9	25.1	9	20					7.9					8.4					50
10	24.7	10																
11	24.7	11																
12	24.6	12	21					7.3					8.0					50
13	24.7	13																
14	24.8	14	20					6.6					7.7					50

(A) DI added to replicate; 8-30-13

New England Bioassay - *Sediment Toxicity Data* Sample ID: **GZ - 114 T** **Page 2**

Client / Source: **GZA GeoEnvironmental, Inc. / Everett, MA (~~18~~ 01.171521.02 Task 6)** Test start date: 8-28-13

Description / I.D. #'s: Marine sediment NEB C.O.C #: **C33-3575** *Page 2* entries started: 9-12-13

End date / Time: 9-25-13 / 1255

Day	Temp. (°C)	Salinity (ppt.) (Add D.I. to maintain volume & salinity.) Rep: A	B	C	D	E	Dissolved Oxygen (mg/L) A	B	C	D	E	pH (S.U.) A	B	C	D	E	Water Renewal (appx. %)
15	24.5																
16	25.0	21					7.0					8.0					50
17	24.7																
18	24.8																
19	24.6	20					6.9					8.0					50
20	24.6																
21	24.4	20					7.0					8.0					50
22	24.6																
23	24.6	20					6.7					8.0					50
24	24.6																
25	24.7																
26	24.5	21					7.0					7.8					50
27	24.6																
28	24.6	20	20	20	20	20	6.7	6.6	6.8	6.7	6.7	7.8	7.8	7.8	7.8	7.8	

Day 28 Survival: (Qty. per Replicate)	A	B	C	D	E
	4	12	18	17	13

Overall Survival: 64 %

New England Bioassay - *Sediment Toxicity Data*

Sample ID: **GZ - 116 T**

Start date / time: 8-28-13 1105

Client / Source: **GZA GeoEnvironmental, Inc. / Everett, MA (~~18~~01.171521.02 Task 6)**

End date / time:

Description / I.D. #'s: Marine sediment NEB C.O.C #: **C33-3576**

Technicians: LC, AH, KB

Test organism: *Leptocheirus plumulosus*

Org. lot #: LP13(8-28)MC

Salt water- Date prep: (see attachment)

Quantity of organisms added per replicate: 20

Source: NEB

Neonates, 1-2 mm

Salinity / Alkalinity: (see attachment)

Day	Temp. (°C)	Rep	Salinity (ppt.) (Add D.I. to maintain volume & salinity.) A	B	C	D	E	Dissolved Oxygen (mg/L) A	B	C	D	E	pH (S.U.) A	B	C	D	E	Water Renewal (appx. %)
0	24.6	0	20	20	20	20	20	6.3	6.0	6.5	6.4	6.7	7.7	7.7	7.8	7.7	7.8	
1	25.3	1																
2	25.2	2	20	20	20	20	21	6.9					7.8					50
3	24.3	3																
4	24.9	4																
5	24.6	5	20					7.4					8.1					50
6	24.6	6																
7	24.6	7	21					7.0					8.1					50
8	25.1	8																
9	25.0	9	~~20~~					8.2					8.4					50
10	24.5	10																
11	24.5	11																
12	24.4	12	20					7.2					8.2					50
13	24.7	13																
14	24.7	14	20					6.6					8.0					50

New England Bioassay - *Sediment Toxicity Data*

Sample ID: **GZ - 116 T**

Page 2

Client / Source: **GZA GeoEnvironmental, Inc. / Everett, MA (~~18~~01.171521.02 Task 6)**

Description / I.D. #'s: Marine sediment NEB C.O.C #: **C33-3576**

Test start date: 8-28-13

Page 2 entries started: 9-12-13

End date / Time: 9-25-13 / 1315

Day	Temp. (°C)	Salinity (ppt.) Rep: A	B	C	D	E	Dissolved Oxygen (mg/L) A	B	C	D	E	pH (S.U.) A	B	C	D	E	Water Renewal (appx. %)
15	24.7																
16	24.6	20					6.6					8.0					50
17	24.6																
18	24.7																
19	24.6	20					6.8					8.1					50
20	24.7																
21	24.3	20					6.8					8.1					50
22	24.4																
23	24.4	20					6.5					8.1					50
24	24.8																
25	24.8																
26	24.3	21					6.6					7.9					50
27	24.7																
28	24.7	20	20	20	20	20	6.7	6.5	6.6	6.4	6.5	7.7	7.6	7.9	7.8	7.9	

Day 28 Survival: (Qty. per Replicate)	A	B	C	D	E
	18	16	15	19	18

Overall Survival: 86 %

New England Bioassay - *Sediment Toxicity Data*

Sample ID: **GZ - 126 T**

Start date / time: 8-28-13 1105

Client / Source: **GZA GeoEnvironmental, Inc. / Everett, MA (~~18~~01.171521.02 Task 6)**

End date / time:

Description / I.D. #'s: Marine sediment NEB C.O.C #: **C33-3577**

Technicians: CC, AH, KB

Test organism: *Leptocheirus plumulosus*

Org. lot #: Lp13 (8-28) MC

Salt water- Date prep: (see attachment)

Quantity of organisms added per replicate: 20

Source: NEB
Neonates, 1-2 mm

Salinity / Alkalinity: (see attachment)

Day	Temp. (°C)	Salinity (ppt.) (Add D.I. to maintain volume & salinity.) Rep: A	B	C	D	E	Dissolved Oxygen (mg/L) A	B	C	D	E	pH (S.U.) A	B	C	D	E	Water Renewal (appx. %)
0	24.6	20	20	20	20	20	6.3	6.5	6.5	6.5	6.5	7.8	7.8	7.8	7.8	7.8	
1	25.3																
2	25.2	21	20	20	20	21	7.0					7.8					50
3	24.2																
4	24.9																
5	24.6	21					6.9					8.0					50
6	24.6																
7	24.6	21					7.0					8.0					50
8	25.1																
9	25.0	20					8.2					8.4					50
10	24.3																
11	24.7																
12	24.4	20					7.4					8.1					50
13	24.7																
14	24.7	20					6.8					7.9					50

New England Bioassay - *Sediment Toxicity Data* Sample ID: **GZ - 126 T** **Page 2**

Client / Source: **GZA GeoEnvironmental, Inc. / Everett, MA (~~16~~ 01.171521.02 Task 6)** Test start date: 8-28-13

Description / I.D. #'s: Marine sediment NEB C.O.C #: **C33-3577** *Page 2* entries started: 9-12-13

End date / Time: 9-25-13 / 1340

Day	Temp. (°C)	Salinity (ppt.) Rep	A	B	C	D	E	Dissolved Oxygen (mg/L)	A	B	C	D	E	pH (S.U.)	A	B	C	D	E	Water Renewal (appx. %)
15	24.7	15						15						15						15	
16	24.6	16	20					16	7.1					16	7.9					16	50
17	24.6	17						17						17						17	
18	24.7	18						18						18						18	
19	24.6	19	20					19	6.9					19	7.9					19	50
20	24.7	20						20						20						20	
21	24.2	21	20					21	7.0					21	8.1					21	50
22	24.4	22						22						22						22	
23	24.4	23	20					23	6.7					23	8.0					23	50
24	24.8	24						24						24						24	
25	24.8	25						25						25						25	
26	24.3	26	21					26	6.9					26	7.7					26	50
27	24.7	27						27						27						27	
28	24.6	28	20	20	20	20	20	28	7.1	6.7	6.7	6.6	6.6	28	7.7	7.7	7.7	7.7	7.8		

	A	B	C	D	E
Day 28 Survival: (Qty. per Replicate)	20	17	18	18	11

Overall Survival: 84 %

New England Bioassay - *Sediment Toxicity Data*

Sample ID: **GZ - 135 T**

Start date / time: 8-28-13, 1105

Client / Source: **GZA GeoEnvironmental, Inc. / Everett, MA (01 18.171521.02 Task 6)**

End date / time:

Description / I.D. #'s: Marine sediment NEB C.O.C #: **C33-3578**

Technicians: LC, AH, KB

Test organism: *Leptocheirus plumulosus*

Org. lot #: Lp13(8-28)MC

Salt water- Date prep: (see attachment)

Quantity of organisms added per replicate: 20

Source: NEB
Neonates, 1-2 mm

Salinity / Alkalinity: (see attachment)

Day	Temp. (°C)	Salinity (ppt.) (Add D.I. to maintain volume & salinity.) Rep: A	B	C	D	E	Dissolved Oxygen (mg/L) A	B	C	D	E	pH (S.U.) A	B	C	D	E	Water Renewal (appx. %)
0	24.6	20	20	20	20	20	6.0	6.5	6.6	6.6	6.4	7.7	7.8	7.8	7.8	7.8	
1	25.3																
2	25.2	21	21	21	21	21	6.9					7.8					50
3	24.5																
4	24.9																
5	24.6	20					6.8					8.3					50
6	24.6																
7	24.6	21					6.9					8.1					50
8	25.1																
9	25.0	20					7.9					8.2					50
10	24.3																
11	24.6																
12	24.4	20					7.3					8.1					50
13	24.7																
14	24.7	21					6.6					7.9					50

New England Bioassay - *Sediment Toxicity Data* Sample ID: **GZ - 135 T** **Page 2**

Client / Source: **GZA GeoEnvironmental, Inc. / Everett, MA (18.171521.02 Task 6)** 01

Description / I.D. #'s: Marine sediment NEB C.O.C #: **C33-3578**

Test start date: 8-28-13

Page 2 entries started: 9-12-13

End date / Time: 9-25-13 / 1415

Day	Temp. (°C)	Salinity (ppt.) (Add D.I. to maintain volume & salinity.) Rep: A	B	C	D	E	Dissolved Oxygen (mg/L) A	B	C	D	E	pH (S.U.) A	B	C	D	E	Water Renewal (appx. %)
15	24.7																
16	24.6	21					6.6					7.8					50
17	24.6																
18	24.7																
19	24.6	20					6.8					7.9					50
20	24.7																
21	24.1	20					7.3					8.1					50
22	24.4																
23	24.2	20					7.0					8.2					50
24	24.8																
25	24.8																
26	24.3	21					6.7					7.8					50
27	24.7																
28	24.7	20	20	20	20	20	6.6	6.6	6.6	6.5	6.6	7.8	7.8	7.8	7.7	7.8	

	A	B	C	D	E
Day 28 Survival: (Qty. per Replicate)	17	15	20	20	19

Overall Survival: 94 %

New England Bioassay - *Sediment Toxicity Data*

Sample ID: **GZ - 137 T**

Start date / time: 8-28-13, 1105

Client / Source: **GZA GeoEnvironmental, Inc. / Everett, MA (~~18~~.171521.02 Task 6)** 01

End date / time:

Description / I.D. #'s: Marine sediment NEB C.O.C #: **C33-3579**

Technicians: LC, AH, KB

Test organism: *Leptocheirus plumulosus*

Org. lot #: Lp 13 (8-28) MC

Salt water- Date prep: (see attachment)

Quantity of organisms added per replicate: 20

Source: NEB
Neonates, 1-2 mm

Salinity / Alkalinity: (see attachment)

Day	Temp. (°C)	Salinity (ppt.) (Add D.I. to maintain volume & salinity.) Rep: A	B	C	D	E	Dissolved Oxygen (mg/L) A	B	C	D	E	pH (S.U.) A	B	C	D	E	Water Renewal (appx. %)
0	24.6	20	20	20	20	20	5.1	5.8	6.1	6.8	6.1	7.6	7.7	7.8	7.8	7.7	
1	25.3																
2	25.2	20	20	20	20	20	7.0					7.8					50
3	24.3																
4	24.9																
5	24.6	20					6.7					8.4					50
6	24.6																
7	24.6	21					6.9					8.3					50
8	25.1																
9	25.0	20					8.1					8.4					50
10	24.3																
11	24.6																
12	24.4	20					7.4					8.3					50
13	24.7																
14	24.7	21					6.5					8.0					50

New England Bioassay - *Sediment Toxicity Data* Sample ID: **GZ - 137 T** **Page 2**

Client / Source: **GZA GeoEnvironmental, Inc. / Everett, MA (~~18~~01.171521.02 Task 6)** Test start date: 8-28-13

Description / I.D. #'s: Marine sediment NEB C.O.C #: **C33-3579** *Page 2* entries started: 9-12-13

End date / Time: 9-25-13 / 1440

Day	Temp. (°C)	Rep	Salinity (ppt.) A	B	C	D	E	Dissolved Oxygen (mg/L) A	B	C	D	E	pH (S.U.) A	B	C	D	E	Water Renewal (appx. %)
15	24.7	15																
16	24.6	16	21					6.9					8.0					50
17	24.6	17																
18	24.7	18																
19	24.6	19	~~2~~0					6.8					8.1					50
20	24.7	20																
21	24.1	21	20					6.9					8.2					50
22	24.4	22																
23	24.2	23	20					6.6					8.2					50
24	24.8	24																
25	24.8	25																
26	24.3	26	21					6.8					8.0					50
27	24.7	27																
28	24.6	28	20	20	20	20	20	6.8	6.7	6.7	6.7	6.6	7.9	8.0	8.0	7.9	8.0	

	A	B	C	D	E
Day 28 Survival: (Qty. per Replicate)	12	15	19	19	17

Overall Survival: 82 %

New England Bioassay - *Sediment Toxicity Data*

Sample ID: **GZ - LC 1 T**

Start date / time: 8-28-13, 1105

Client / Source: **GZA GeoEnvironmental, Inc. / Everett, MA (~~16~~01.171521.02 Task 6)**

End date / time:

Description / I.D. #'s: Marine sediment NEB C.O.C #: **C33-3580**

Technicians: LC, AH, KB

Test organism: *Leptocheirus plumulosus*

Org. lot #: Lp13 (8-28) MC

Salt water- Date prep: (see attachment)

Quantity of organisms added per replicate: 20

Source: NEB
Neonates, 1-2 mm

Salinity / Alkalinity: (see attachment)

Day	Temp. (°C)	Rep	Salinity (ppt.) (Add D.I. to maintain volume & salinity.) A	B	C	D	E	Dissolved Oxygen (mg/L) A	B	C	D	E	pH (S.U.) A	B	C	D	E	Water Renewal (appx. %)
0	24.2	0	20	20	20	20	20	6.2	6.3	6.6	6.8	6.6	7.6	7.6	7.7	7.7	7.7	
1	24.6	1																
2	24.5	2	21	20	20	20	21	6.9					7.8					50
3	24.2	3																
4	24.2	4																
5	24.5	5	21					7.0					8.3					50
6	24.5	6																
7	24.2	7	20					7.2					8.2					50
8	24.4	8																
9	24.3	9	21					8.0					8.3					50
10	24.3	10																
11	24.2	11																
12	24.3	12	21					7.3					7.9					50
13	24.6	13																
14	24.1	14	21					7.1					8.0					50

New England Bioassay - *Sediment Toxicity Data* Sample ID: **GZ - LC 1 T** **Page 2**

Client / Source: **GZA GeoEnvironmental, Inc. / Everett, MA (~~16~~.171521.02 Task 6)**

Description / I.D. #'s: Marine sediment NEB C.O.C #: **C33-3580**

Test start date: 8-28-13

Page 2 entries started: 9-12-13

End date / Time: 9-25-13 / 1505

Day	Temp. (°C)	Salinity (ppt.) Rep: A	B	C	D	E	Dissolved Oxygen (mg/L) A	B	C	D	E	pH (S.U.) A	B	C	D	E	Water Renewal (appx. %)
15	24.1																
16	24.6	20					6.7					8.0					50
17	24.3																
18	24.4																
19	24.6	20					7.1					8.1					50
20	24.4																
21	24.5	21					7.2					8.3					50
22	24.4																
23	24.5	20					7.0					8.2					50
24	24.4																
25	24.4																
26	24.6	22 (A)					7.0					8.0					50
27	24.5																
28	24.5	20	20	20	20	20	6.9	6.7	6.8	6.8	6.7	7.9	7.9	7.9	7.9	7.9	

	A	B	C	D	E
Day 28 Survival: (Qty. per Replicate)	17	6	20	20	20

Overall Survival: 83 %

(A) Salinity adjusted during water change.

New England Bioassay - *Sediment Toxicity Data*

Sample ID: **GZ - LC 2 T**

Start date / time: 8-28-13, 1105

Client / Source: **GZA GeoEnvironmental, Inc. / Everett, MA (~~18~~.171521.02 Task 6)**

End date / time:

Description / I.D. #'s: Marine sediment NEB C.O.C #: **C33-3581**

Technicians: LC, AH, KB

Test organism: *Leptocheirus plumulosus*

Org. lot #: Lp13 (8-28) MC

Salt water- Date prep: (see attachment)

Quantity of organisms added per replicate: 20

Source: NEB Neonates, 1-2 mm

Salinity / Alkalinity: (see attachment)

Day	Temp. (°C)	Salinity (ppt.) (Add D.I. to maintain volume & salinity.) Rep: A	B	C	D	E	Dissolved Oxygen (mg/L) A	B	C	D	E	pH (S.U.) A	B	C	D	E	Water Renewal (appx. %)
0	24.2	20	20	20	20	20	6.3	6.4	6.6	6.7	6.9	7.7	7.7	7.7	7.7	7.8	
1	24.9																
2	24.6	20	20	20	20	20	6.8					8.0					50
3	24.3																
4	24.5																
5	24.2	21					7.1					8.5					50
6	24.6																
7	24.2	20					7.2					8.2					50
8	24.5																
9	24.2	21					8.1					8.2					50
10	24.7																
11	24.7																
12	24.3	21					7.3					8.2					50
13	24.5																
14	24.7	21					7.2					8.1					50

New England Bioassay - *Sediment Toxicity Data* Sample ID: **GZ - LC 2 T** **Page 2**

Client / Source: **GZA GeoEnvironmental, Inc. / Everett, MA (~~18~~ 21.171521.02 Task 6)** Test start date: 8-28-13

Description / I.D. #'s: Marine sediment NEB C.O.C #: **C33-3581** *Page 2* entries started: 9-12-13

End date / Time: 9-25-13 / 1530

Day	Temp. (°C)	Salinity (ppt.) Rep: A	B	C	D	E	Dissolved Oxygen (mg/L) A	B	C	D	E	pH (S.U.) A	B	C	D	E	Water Renewal (appx. %)
15	24.2																
16	24.6	21					6.9					8.0					50
17	24.7																
18	24.8																
19	24.7	20					6.8					8.1					50
20	24.5																
21	24.9	20					7.1					8.2					50
22	24.6																
23	24.6	20					6.7					8.1					50
24	24.8																
25	24.6																
26	24.5	21					6.8					8.0					50
27	24.4																
28	24.5	20	20	20	20	20	6.9	6.8	6.8	6.7	6.7	7.9	7.9	7.9	7.9	7.9	

	A	B	C	D	E
Day 28 Survival: (Qty. per Replicate)	0	0	0	0	0

Overall Survival: 0 %

New England Bioassay - *Sediment Toxicity Data*

Sample ID: **GZ - LC 3 T**

Start date / time: 8-28-13, 1105

Client / Source: **GZA GeoEnvironmental, Inc. / Everett, MA (~~18~~01.171521.02 Task 6)**

End date / time:

Description / I.D. #'s: Marine sediment NEB C.O.C #: **C33-3582**

Technicians: LC, AH, KB

Test organism: *Leptocheirus plumulosus*

Org. lot #: Lp13 (8-28)

Salt water- Date prep: (see attachment)

Quantity of organisms added per replicate: 20

Source: NEB
Neonates, 1-2 mm

Salinity / Alkalinity: (see attachment)

Day	Temp. (°C)	Rep	Salinity (ppt.) (Add D.I. to maintain volume & salinity.) A	B	C	D	E	Dissolved Oxygen (mg/L) A	B	C	D	E	pH (S.U.) A	B	C	D	E	Water Renewal (appx. %)
0	24.3	0	20	20	20	20	20	6.6	6.4	6.7	6.7	6.9	7.7	7.7	7.7	7.7	7.7	
1	25.2	1																
2	25.2	2	22(A)	20	20	20	21	6.9					7.8					50
3	24.9	3																
4	25.2	4																
5	24.6	5	21					7.0					8.6					50
6	24.9	6																
7	24.2	7	20					7.1					8.4					50
8	25.2	8																
9	25.1	9	21					8.0					8.4					50
10	25.3	10																
11	25.2	11																
12	24.7	12	21					7.1					8.1					50
13	25.0	13																
14	25.1	14	21					7.1					8.1					50

(A) D.I. added to replicate; 8-30-13

New England Bioassay - *Sediment Toxicity Data* Sample ID: **GZ - LC 3 T** **Page 2**

Client / Source: **GZA GeoEnvironmental, Inc. / Everett, MA (~~18~~01.171521.02 Task 6)** Test start date: 8-28-13

Description / I.D. #'s: Marine sediment NEB C.O.C #: **C33-3582** *Page 2* entries started: 9-12-13

End date / Time: 9-25-13 / 1545

Day	Temp. (°C)	Rep	Salinity (ppt.) A	B	C	D	E	Dissolved Oxygen (mg/L) A	B	C	D	E	pH (S.U.) A	B	C	D	E	Water Renewal (appx. %)
15	25.3	15																
16	25.2	16	21					7.0					8.0					50
17	25.2	17																
18	25.1	18																
19	25.1	19	20					7.1					8.0					50
20	25.1	20																
21	25.1	21	20					6.9					8.1					50
22	25.2	22																
23	25.0	23	20					6.8					8.0					50
24	25.0	24																
25	24.9	25																
26	24.7	26	21					6.7					7.7					50
27	24.7	27																
28	24.6	28	20	20	20	20	20	6.8	6.7	6.7	6.6	6.6	7.7	7.8	7.8	7.8	7.7	

	A	B	C	D	E
Day 28 Survival: (Qty. per Replicate)	18	10	16	16	17

Overall Survival: 77 %

New England Bioassay **_Final 28-Day Dry-Weight Data_** *Leptocheirus plumulosus*

Client: **GZA GeoEnvironmental, Inc.** Test set-up date: 8-28-13

Project: Everett, MA (01.171521.02 Task 6)

Test ending date: 9-25-13

Sample I.D. **Artificial Control**

Tare weight- Date / Tech: 9-23-13 LC

Final weight- Date / Tech: 9-27-13 NV

	A	B	C	D	E
Pan + organisms:	964.13 mg	968.84 mg	968.98 mg	947.75 mg	937.39 mg
Pan (tare):	937.38 mg	936.07 mg	937.72 mg	915.89 mg	920.51 mg
Qty. org. per pan:	19	16	18	20	18

Reviewed by: _____ Date: 10/16/13

New England Bioassay **_Final 28-Day Dry-Weight Data_** *Leptocheirus plumulosus*

Client: **GZA GeoEnvironmental, Inc.**
Project: Everett, MA (~~18~~.171521.02 Task 6)

Test set-up date: 8-28-13
Test ending date: 9-25-13

Sample I.D. **GZ-104T**

Tare weight- Date / Tech: 9-23-13, LC
Final weight- Date / Tech: 9-27-13, MV

	A	B	C	D	E
Pan + organisms:	921.88 mg	940.66 mg	939.97 mg	948.68 mg	935.93 mg
Pan (tare):	921.04 mg	934.58 mg	933.20 mg	931.50 mg	934.18 mg
Qty. org. per pan:	1	15	15	17	6

Sample I.D. **GZ-114T**

Tare weight- Date / Tech: 9-23-13, LC
Final weight- Date / Tech: 9-27-13, MV

	A	B	C	D	E
Pan + organisms:	939.53 mg	944.82 mg	953.91 mg	944.43 mg	944.76 mg
Pan (tare):	938.09 mg	939.29 mg	938.16 mg	938.73 mg	937.68 mg
Qty. org. per pan:	4	12	18	17	13

Reviewed by: _____ Date: 10/16/13

New England Bioassay **_Final 28-Day Dry-Weight Data_** *Leptocheirus plumulosus*

Client: **GZA GeoEnvironmental, Inc.**

Project: Everett, MA (~~18~~ 8).171521.02 Task 6)

Test set-up date: 8-28-13

Test ending date: 9-25-13

Sample I.D. **GZ-116T**

Tare weight- Date / Tech: 9-23-13, LC

Final weight- Date / Tech: 9-27-13, MV

	A	B	C	D	E
Pan + organisms:	961.92 mg	948.57 mg	947.30 mg	963.68 mg	945.13 mg
Pan (tare):	935.92 mg	936.72 mg	935.53 mg	935.61 mg	934.53 mg
Qty. org. per pan:	18	16	15	19	18

Sample I.D. **GZ-126T**

Tare weight- Date / Tech: 9-23-13, LC

Final weight- Date / Tech: 9-27-13, MV

	A	B	C	D	E
Pan + organisms:	947.24 mg	949.20 mg	949.11 mg	946.09 mg	947.10 mg
Pan (tare):	940.04 mg	941.32 mg	942.50 mg	937.98 mg	943.17 mg
Qty. org. per pan:	20	17	18	18	11

Reviewed by: _____ Date: 10/16/13

New England Bioassay **Final 28-Day Dry-Weight Data** *Leptocheirus plumulosus*

Client: **GZA GeoEnvironmental, Inc.**

Project: Everett, MA (~~18~~.171521.02 Task 6)

Test set-up date: 8-28-13

Test ending date: 9-25-13

Sample I.D. **GZ-135T**

Tare weight- Date / Tech: 9-23-13, LC

Final weight- Date / Tech: 9-27-13, MV

	A	B	C	D	E
Pan + organisms:	944.99 mg	955.68 mg	964.16 mg	967.88 mg	945.63 mg
Pan (tare):	933.84 mg	944.06 mg	942.39 mg	934.08 mg	936.46 mg
Qty. org. per pan:	17	18	20	20	19

Sample I.D. **GZ-137T**

Tare weight- Date / Tech: 9-23-13, LC

Final weight- Date / Tech: 9-27-13, MV

	A	B	C	D	E
Pan + organisms:	944.22 mg	945.63 mg	953.17 mg	946.32 mg	946.39 mg
Pan (tare):	940.83 mg	938.98 mg	937.01 mg	936.86 mg	937.06 mg
Qty. org. per pan:	12	15	19	19	17

Reviewed by: _____ Date: 10/10/13

New England Bioassay **Final 28-Day Dry-Weight Data** *Leptocheirus plumulosus*

Client: **GZA GeoEnvironmental, Inc.**

Project: Everett, MA (~~18~~ 21.171521.02 Task 6)

Test set-up date: 8-28-13

Test ending date: 9-25-13

Sample I.D. **GZ-LC1T**

Tare weight- Date / Tech: 9-23-13, LC

Final weight- Date / Tech: 9-27-13, MV

	A	B	C	D	E
Pan + organisms:	954.52 mg	944.56 mg	967.09 mg	962.25 mg	969.95 mg
Pan (tare):	940.32 mg	941.01 mg	942.85 mg	942.76 mg	941.56 mg
Qty. org. per pan:	17	6	20	20	20

Sample I.D. **GZ-LC2T**

Tare weight- Date / Tech: 9-23-13, LC

Final weight- Date / Tech:

	A	B	C	D	E
Pan + organisms:	— mg	— mg	— mg	— mg	— mg
Pan (tare):	941.76 mg	940.67 mg	941.05 mg	943.10 mg	941.64 mg
Qty. org. per pan:	0	0	0	0	0

Reviewed by: [signature] Date: 10/16/13

New England Bioassay **_Final 28-Day Dry-Weight Data_** *Leptocheirus plumulosus*

Client: **GZA GeoEnvironmental, Inc.**

Project: Everett, MA (~~18~~ D1.171521.02 Task 6)

Test set-up date: 8-28-13

Test ending date: 9-25-13

Sample I.D. **GZ-LC3T**

Tare weight- Date / Tech: 9-23-13, LC

Final weight- Date / Tech: 9-27-13, MV

	A	B	C	D	E
Pan + organisms:	959.23 mg	944.49 mg	956.38 mg	952.68 mg	950.90 mg
Pan (tare):	938.67 mg	938.74 mg	943.20 mg	942.05 mg	943.31 mg
Qty. org. per pan:	18	10	16	16	17

Reviewed by: _____ Date: 10/16/13

Leptocheirus plumulosus- Sediment Test Breakdown, Day 28 - **Young Counted**

Client: **GZA GeoEnvironmental, Inc.** Test set-up date: 8-28-13

Project: **Everett, MA (~~18~~ 01.171521.02 Task 6)** Test ending date: 9-25-13

		Qty.	Observations of Young
Artificial Control	A.	113	Greater range in size, larger organisms compared to all other samples
	B.	60	
	C.	105	
	D.	61	
	E.	43	
Sed. GZ-104 T	A.	0	
	B.	11	Uniform smaller in size
	C.	7	
	D.	26	Uniform, but 1 larger one found
	E.	4	
Sed. GZ-114 T	A.	5	Small
	B.	8	
	C.	37	
	D.	5	
	E.	0	

Leptocheirus plumulosus- Sediment Test Breakdown, Day 28 - **Young Counted**

Client: **GZA GeoEnvironmental, Inc.** Test set-up date: 8-28-13

Project: **Everett, MA (~~18~~ 21.171521.02 Task 6)** Test ending date: 9-25-13

		Qty.	Observations of Young
GZ-116 T	**Sed.**	A. 49	Range in sizes across all reps
		B. 3	
		C. 11	
		D. 18	
		E. 34	
GZ-126 T	**Sed.**	A. 0	
		B. 0	
		C. 0	
		D. 0	
		E.	
GZ-135 T	**Sed.**	A. 24	Range in size across all reps
		B. 12	
		C. 79	
		D. 24	
		E. 9	

Leptocheirus plumulosus- Sediment Test Breakdown, Day 28 - **Young Counted**

Client: **GZA GeoEnvironmental, Inc.** Test set-up date: 8-28-13

Project: **Everett, MA (~~18~~01.171521.02 Task 6)** Test ending date: 9-25-13

		Qty.	Observations of Young
Sed. **GZ-137 T**	A.	0	
	B.	7	small across all reps
	C.	9	
	D.	5	
	E.	5	
Sed. **GZ-LC 1 T**	A.	30	range in size across all reps
	B.	3	
	C.	36	
	D.	29	
	E.	50	
Sed. **GZ-LC 2 T**	A.	0	
	B.	0	
	C.	0	
	D.	0	
	E.	0	

Leptocheirus plumulosus- Sediment Test Breakdown, Day 28 - **Young Counted**

Client: **GZA GeoEnvironmental, Inc.** Test set-up date: 8-28-13

Project: **Everett, MA (18.171521.02 Task 6)** Test ending date: 9-25-13

		Qty.	Observations of Young
Sed.	A.	29	Small
	B.	1	
GZ-LC 3 T	C.	0	
	D.	4	
	E.	4	

Leptocheirus 28-d Survival, Growth and Reproduction Sediment Test — **New England Bioassay**

Analysis ID:	20-5011-4794	**Endpoint:**	Survival Rate	**CETIS Version:**	CETISv1.8.7
Analyzed:	27 Sep-13 14:46	**Analysis:**	Nonparametric-Control vs Treatments	**Official Results:**	Yes
Batch ID:	02-5993-2028	**Test Type:**	Leptocheirus (28-d)	**Analyst:**	
Start Date:	28 Aug-13	**Protocol:**	EPA/600/R-01/020 (2001)	**Diluent:**	
Ending Date:	25 Sep-13	**Species:**	Leptocheirus plumulosus	**Brine:**	
Duration:	28d 0h	**Source:**	In-House Culture	**Age:**	

Sample Code	Sample ID	Sample Date	Receive Date	Sample Age	Client Name	Project
Art Control	00-9271-0330	28 Aug-13	28 Aug-13	NA	GZA GeoEnvironmental	
GZ-104T	05-0294-9077	06 Aug-13	22 Aug-13	22d 0h		
GZ-114T	20-8741-3134	06 Aug-13	22 Aug-13	22d 0h		
GZ-116T	18-5487-8325	06 Aug-13	22 Aug-13	22d 0h		
GZ-126T	13-7568-5139	06 Aug-13	22 Aug-13	22d 0h		
GZ-135T	13-1371-0218	06 Aug-13	22 Aug-13	22d 0h		
GZ-137T	18-7679-2931	06 Aug-13	22 Aug-13	22d 0h		
GZ-LC1T	10-4515-9435	06 Aug-13	22 Aug-13	22d 0h		
GZ-LC2T	10-4258-7121	06 Aug-13	22 Aug-13	22d 0h		
GZ-LC3T	06-8712-0134	06 Aug-13	22 Aug-13	22d 0h		

Sample Code	Material Type	Sample Source	Station Location	Latitude	Longitude
Art Control	Not Applicable	Wynn - Everett MA			
GZ-104T	Ambient Sample	Wynn - Everett MA			
GZ-114T	Ambient Sample	Wynn - Everett MA			
GZ-116T	Ambient Sample	Wynn - Everett MA			
GZ-126T	Ambient Sample	Wynn - Everett MA			
GZ-135T	Ambient Sample	Wynn - Everett MA			
GZ-137T	Ambient Sample	Wynn - Everett MA			
GZ-LC1T	Ambient Sample	Wynn - Everett MA			
GZ-LC2T	Ambient Sample	Wynn - Everett MA			
GZ-LC3T	Ambient Sample	Wynn - Everett MA			

Data Transform	Zeta	Alt Hyp	Trials	Seed	PMSD	Test Result
Angular (Corrected)	NA	C > T	NA	NA	32.2%	

Steel Many-One Rank Sum Test

Sample Code	vs	Sample Code	Test Stat	Critical	Ties	DF	P-Value	P-Type	Decision(α:5%)
Art Control		GZ-104T	16	15	0	8	0.0518	Asymp	Non-Significant Effect
		GZ-114T	18	15	1	8	0.1285	Asymp	Non-Significant Effect
		GZ-116T	23	15	3	8	0.5498	Asymp	Non-Significant Effect
		GZ-126T	24.5	15	2	8	0.6944	Asymp	Non-Significant Effect
		GZ-135T	30.5	15	3	8	0.9804	Asymp	Non-Significant Effect
		GZ-137T	23	15	1	8	0.5498	Asymp	Non-Significant Effect
		GZ-LC1T	29.5	15	1	8	0.9642	Asymp	Non-Significant Effect
		GZ-LC2T	15	15	0	8	0.0306	Asymp	Significant Effect
		GZ-LC3T	19	15	2	8	0.1883	Asymp	Non-Significant Effect

Leptocheirus 28-d Survival, Growth and Reproduction Sediment Test — **New England Bioassay**

Analysis ID: 20-5011-4794 **Endpoint:** Survival Rate **CETIS Version:** CETISv1.8.7
Analyzed: 27 Sep-13 14:46 **Analysis:** Nonparametric-Control vs Treatments **Official Results:** Yes

Test Acceptability Criteria

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.91	0.8 - NL	Yes	Passes Acceptability Criteria

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	5.838233	0.6486925	9	11.39	<0.0001	Significant Effect
Error	2.279036	0.0569759	40			
Total	8.117269		49			

Distributional Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variances	Mod Levene Equality of Variance	1.053	3.067	0.4235	Equal Variances
Variances	Levene Equality of Variance	2.83	2.888	0.0113	Equal Variances
Distribution	Shapiro-Wilk W Normality	0.9235	0.9367	0.0032	Non-normal Distribution

Survival Rate Summary

Sample Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
Art Control	5	0.91	0.8179	1	0.9	0.8	1	0.03317	8.15%	0.0%
GZ-104T	5	0.54	0.109	0.971	0.75	0.05	0.85	0.1552	64.28%	40.66%
GZ-114T	5	0.64	0.296	0.984	0.65	0.2	0.9	0.1239	43.29%	29.67%
GZ-116T	5	0.86	0.758	0.962	0.9	0.75	0.95	0.03674	9.55%	5.5%
GZ-126T	5	0.84	0.6276	1	0.9	0.55	1	0.07649	20.36%	7.69%
GZ-135T	5	0.94	0.8591	1	0.95	0.85	1	0.02915	6.94%	-3.3%
GZ-137T	5	0.82	0.6358	1	0.85	0.6	0.95	0.06633	18.09%	9.89%
GZ-LC1T	5	0.83	0.4534	1	1	0.3	1	0.1356	36.54%	8.79%
GZ-LC2T	5	0	0	0	0	0	0	0		100.0%
GZ-LC3T	5	0.77	0.5756	0.9644	0.8	0.5	0.9	0.07	20.33%	15.38%

Angular (Corrected) Transformed Summary

Sample Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
Art Control	5	1.282	1.12	1.444	1.249	1.107	1.459	0.05831	10.17%	0.0%
GZ-104T	5	0.8145	0.3183	1.311	1.047	0.2255	1.173	0.1787	49.07%	36.46%
GZ-114T	5	0.9419	0.5594	1.324	0.9377	0.4636	1.249	0.1378	32.71%	26.52%
GZ-116T	5	1.2	1.05	1.349	1.249	1.047	1.345	0.0538	10.03%	6.42%
GZ-126T	5	1.193	0.9119	1.474	1.249	0.8355	1.459	0.1013	18.98%	6.93%
GZ-135T	5	1.337	1.18	1.494	1.345	1.173	1.459	0.05671	9.48%	-4.3%
GZ-137T	5	1.159	0.9137	1.405	1.173	0.8861	1.345	0.08848	17.07%	9.55%
GZ-LC1T	5	1.226	0.7517	1.7	1.459	0.5796	1.459	0.1707	31.15%	4.37%
GZ-LC2T	5	0.112	0.112	0.112	0.112	0.112	0.112	0	0.0%	91.26%
GZ-LC3T	5	1.084	0.8645	1.304	1.107	0.7854	1.249	0.07919	16.33%	15.41%

Survival Rate Detail

Sample Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
Art Control	0.95	0.8	0.9	1	0.9
GZ-104T	0.05	0.75	0.75	0.85	0.3
GZ-114T	0.2	0.6	0.9	0.85	0.65
GZ-116T	0.9	0.8	0.75	0.95	0.9
GZ-126T	1	0.85	0.9	0.9	0.55
GZ-135T	0.85	0.9	1	1	0.95
GZ-137T	0.6	0.75	0.95	0.95	0.85
GZ-LC1T	0.85	0.3	1	1	1
GZ-LC2T	0	0	0	0	0
GZ-LC3T	0.9	0.5	0.8	0.8	0.85

Leptocheirus 28-d Survival, Growth and Reproduction Sediment Test — **New England Bioassay**

Analysis ID:	20-5011-4794	**Endpoint:**	Survival Rate	**CETIS Version:**	CETISv1.8.7
Analyzed:	27 Sep-13 14:46	**Analysis:**	Nonparametric-Control vs Treatments	**Official Results:**	Yes

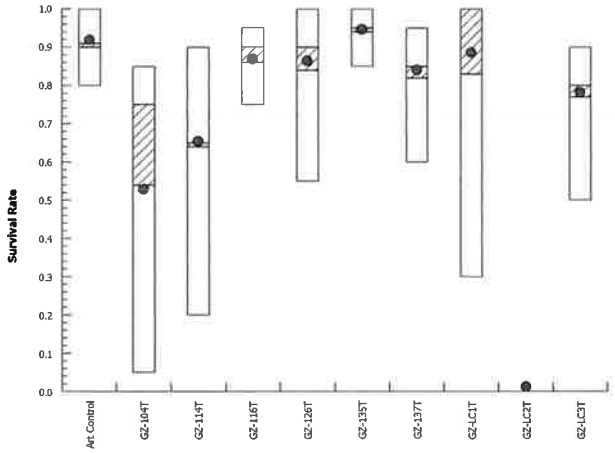
Angular (Corrected) Transformed Detail

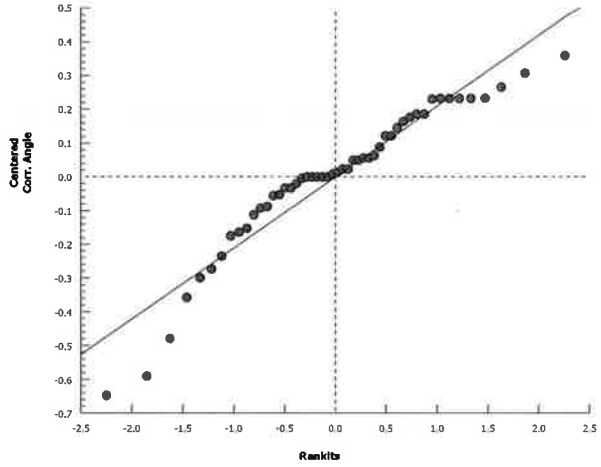
Sample Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
Art Control	1.345	1.107	1.249	1.459	1.249
GZ-104T	0.2255	1.047	1.047	1.173	0.5796
GZ-114T	0.4636	0.8861	1.249	1.173	0.9377
GZ-116T	1.249	1.107	1.047	1.345	1.249
GZ-126T	1.459	1.173	1.249	1.249	0.8355
GZ-135T	1.173	1.249	1.459	1.459	1.345
GZ-137T	0.8861	1.047	1.345	1.345	1.173
GZ-LC1T	1.173	0.5796	1.459	1.459	1.459
GZ-LC2T	0.112	0.112	0.112	0.112	0.112
GZ-LC3T	1.249	0.7854	1.107	1.107	1.173

Survival Rate Binomials

Sample Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
Art Control	19/20	16/20	18/20	20/20	18/20
GZ-104T	1/20	15/20	15/20	17/20	6/20
GZ-114T	4/20	12/20	18/20	17/20	13/20
GZ-116T	18/20	16/20	15/20	19/20	18/20
GZ-126T	20/20	17/20	18/20	18/20	11/20
GZ-135T	17/20	18/20	20/20	20/20	19/20
GZ-137T	12/20	15/20	19/20	19/20	17/20
GZ-LC1T	17/20	6/20	20/20	20/20	20/20
GZ-LC2T	0/20	0/20	0/20	0/20	0/20
GZ-LC3T	18/20	10/20	16/20	16/20	17/20

Graphics





CETIS Analytical Report

Leptocheirus 28-d Survival, Growth and Reproduction Sediment Test — **New England Bioassay**

Analysis ID:	20-2891-0558	**Endpoint:**	Mean Dry Weight-mg	**CETIS Version:**	CETISv1.8.7
Analyzed:	27 Sep-13 14:46	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes
Batch ID:	02-5993-2028	**Test Type:**	Leptocheirus (28-d)	**Analyst:**	
Start Date:	28 Aug-13	**Protocol:**	EPA/600/R-01/020 (2001)	**Diluent:**	
Ending Date:	25 Sep-13	**Species:**	Leptocheirus plumulosus	**Brine:**	
Duration:	28d 0h	**Source:**	In-House Culture	**Age:**	

Sample Code	Sample ID	Sample Date	Receive Date	Sample Age	Client Name	Project
Art Control	00-9271-0330	28 Aug-13	28 Aug-13	NA	GZA GeoEnvironmental	
GZ-104T	05-0294-9077	06 Aug-13	22 Aug-13	22d 0h		
GZ-114T	20-8741-3134	06 Aug-13	22 Aug-13	22d 0h		
GZ-116T	18-5487-8325	06 Aug-13	22 Aug-13	22d 0h		
GZ-126T	13-7568-5139	06 Aug-13	22 Aug-13	22d 0h		
GZ-135T	13-1371-0218	06 Aug-13	22 Aug-13	22d 0h		
GZ-137T	18-7679-2931	06 Aug-13	22 Aug-13	22d 0h		
GZ-LC1T	10-4515-9435	06 Aug-13	22 Aug-13	22d 0h		
GZ-LC2T	10-4258-7121	06 Aug-13	22 Aug-13	22d 0h		
GZ-LC3T	06-8712-0134	06 Aug-13	22 Aug-13	22d 0h		

Sample Code	Material Type	Sample Source	Station Location	Latitude	Longitude
Art Control	Not Applicable	Wynn - Everett MA			
GZ-104T	Ambient Sample	Wynn - Everett MA			
GZ-114T	Ambient Sample	Wynn - Everett MA			
GZ-116T	Ambient Sample	Wynn - Everett MA			
GZ-126T	Ambient Sample	Wynn - Everett MA			
GZ-135T	Ambient Sample	Wynn - Everett MA			
GZ-137T	Ambient Sample	Wynn - Everett MA			
GZ-LC1T	Ambient Sample	Wynn - Everett MA			
GZ-LC2T	Ambient Sample	Wynn - Everett MA			
GZ-LC3T	Ambient Sample	Wynn - Everett MA			

Data Transform	Zeta	Alt Hyp	Trials	Seed	PMSD	Test Result
Untransformed	NA	C > T	NA	NA	37.9%	

Dunnett Multiple Comparison Test

Sample Code	vs	Sample Code	Test Stat	Critical	MSD	DF	P-Value	P-Type	Decision(α:5%)
Art Control		GZ-104T	5.061	2.506	0.529	8	<0.0001	CDF	Significant Effect
		GZ-114T	4.925	2.506	0.529	8	<0.0001	CDF	Significant Effect
		GZ-116T	2.426	2.506	0.529	8	0.0594	CDF	Non-Significant Effect
		GZ-126T	5.009	2.506	0.529	8	<0.0001	CDF	Significant Effect
		GZ-135T	2.463	2.506	0.529	8	0.0549	CDF	Non-Significant Effect
		GZ-137T	4.476	2.506	0.529	8	0.0003	CDF	Significant Effect
		GZ-LC1T	2.351	2.506	0.529	8	0.0694	CDF	Non-Significant Effect
		GZ-LC2T	6.606	2.506	0.529	8	<0.0001	CDF	Significant Effect
		GZ-LC3T	3.873	2.506	0.529	8	0.0015	CDF	Significant Effect

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	7.316926	0.8129919	9	7.29	<0.0001	Significant Effect
Error	4.460754	0.1115189	40			
Total	11.77768		49			

Distributional Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variances	Mod Levene Equality of Variance	1.17	3.067	0.3488	Equal Variances
Variances	Levene Equality of Variance	3.018	2.888	0.0076	Unequal Variances
Distribution	Shapiro-Wilk W Normality	0.9707	0.9367	0.2482	Normal Distribution

Leptocheirus 28-d Survival, Growth and Reproduction Sediment Test — **New England Bioassay**

Analysis ID:	20-2891-0558	**Endpoint:**	Mean Dry Weight-mg	**CETIS Version:**	CETISv1.8.7
Analyzed:	27 Sep-13 14:46	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

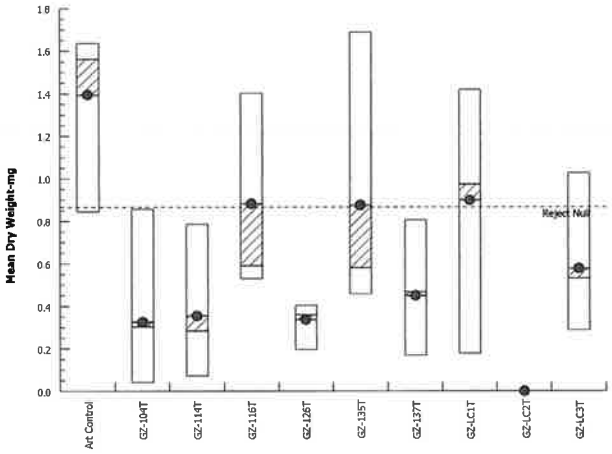
Mean Dry Weight-mg Summary

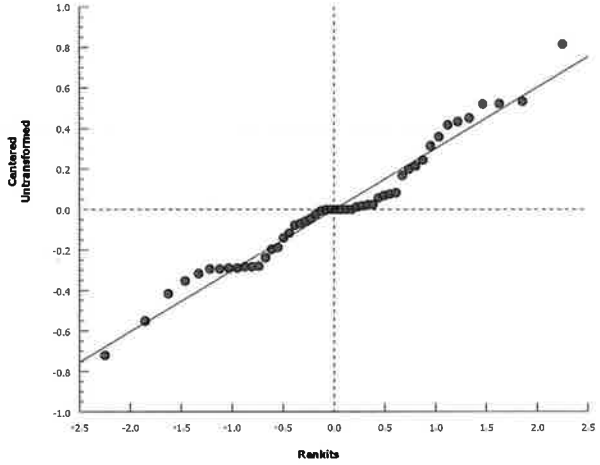
Sample Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
Art Control	5	1.395	0.9864	1.804	1.563	0.844	1.639	0.1472	23.6%	0.0%
GZ-104T	5	0.3262	-0.07723	0.7296	0.304	0.042	0.859	0.1453	99.6%	76.62%
GZ-114T	5	0.355	0.02754	0.6825	0.285	0.072	0.7875	0.1179	74.29%	74.56%
GZ-116T	5	0.8829	0.3486	1.417	0.5925	0.53	1.404	0.1924	48.73%	36.72%
GZ-126T	5	0.3373	0.2329	0.4417	0.36	0.1965	0.4055	0.03759	24.92%	75.82%
GZ-135T	5	0.8751	0.2327	1.517	0.581	0.4585	1.69	0.2314	59.12%	37.28%
GZ-137T	5	0.4499	0.1577	0.7421	0.4665	0.1695	0.808	0.1052	52.3%	67.75%
GZ-LC1T	5	0.8987	0.2997	1.498	0.9745	0.1775	1.42	0.2157	53.68%	35.59%
GZ-LC2T	5	0	0	0	0	0	0	0		100.0%
GZ-LC3T	5	0.5771	0.2178	0.9364	0.5315	0.2875	1.028	0.1294	50.15%	58.64%

Mean Dry Weight-mg Detail

Sample Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
Art Control	1.337	1.639	1.563	1.593	0.844
GZ-104T	0.042	0.304	0.3385	0.859	0.0875
GZ-114T	0.072	0.2765	0.7875	0.285	0.354
GZ-116T	1.3	0.5925	0.5885	1.404	0.53
GZ-126T	0.36	0.394	0.3305	0.4055	0.1965
GZ-135T	0.5575	0.581	1.088	1.69	0.4585
GZ-137T	0.1695	0.3325	0.808	0.473	0.4665
GZ-LC1T	0.71	0.1775	1.212	0.9745	1.42
GZ-LC2T	0	0	0	0	0
GZ-LC3T	1.028	0.2875	0.659	0.5315	0.3795

Graphics





CETIS Analytical Report

Leptocheirus 28-d Survival, Growth and Reproduction Sediment Test — **New England Bioassay**

Analysis ID:	01-3211-5413	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv1.8.7
Analyzed:	03 Oct-13 16:23	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes
Batch ID:	02-5993-2028	**Test Type:**	Leptocheirus (28-d)	**Analyst:**	
Start Date:	28 Aug-13	**Protocol:**	EPA/600/R-01/020 (2001)	**Diluent:**	
Ending Date:	25 Sep-13	**Species:**	Leptocheirus plumulosus	**Brine:**	
Duration:	28d 0h	**Source:**	In-House Culture	**Age:**	

Sample Code	Sample ID	Sample Date	Receive Date	Sample Age	Client Name	Project
Art Control	00-9271-0330	28 Aug-13	28 Aug-13	NA	GZA GeoEnvironmental	
GZ-104T	05-0294-9077	06 Aug-13	22 Aug-13	22d 0h		
GZ-114T	20-8741-3134	06 Aug-13	22 Aug-13	22d 0h		
GZ-116T	18-5487-8325	06 Aug-13	22 Aug-13	22d 0h		
GZ-126T	13-7568-5139	06 Aug-13	22 Aug-13	22d 0h		
GZ-135T	13-1371-0218	06 Aug-13	22 Aug-13	22d 0h		
GZ-137T	18-7679-2931	06 Aug-13	22 Aug-13	22d 0h		
GZ-LC1T	10-4515-9435	06 Aug-13	22 Aug-13	22d 0h		
GZ-LC3T	06-8712-0134	06 Aug-13	22 Aug-13	22d 0h		

Sample Code	Material Type	Sample Source	Station Location	Latitude	Longitude
Art Control	Not Applicable	Wynn - Everett MA			
GZ-104T	Ambient Sample	Wynn - Everett MA			
GZ-114T	Ambient Sample	Wynn - Everett MA			
GZ-116T	Ambient Sample	Wynn - Everett MA			
GZ-126T	Ambient Sample	Wynn - Everett MA			
GZ-135T	Ambient Sample	Wynn - Everett MA			
GZ-137T	Ambient Sample	Wynn - Everett MA			
GZ-LC1T	Ambient Sample	Wynn - Everett MA			
GZ-LC3T	Ambient Sample	Wynn - Everett MA			

Data Transform	Zeta	Alt Hyp	Trials	Seed	PMSD	Test Result
Untransformed	NA	C > T	NA	NA	34.3%	

Dunnett Multiple Comparison Test

Sample Code	vs	Sample Code	Test Stat	Critical	MSD	DF	P-Value	P-Type	Decision(α:5%)
Art Control		GZ-104T	6.059	2.478	1.437	8	<0.0001	CDF	Significant Effect
		GZ-114T	5.759	2.478	1.437	8	<0.0001	CDF	Significant Effect
		GZ-116T	4.996	2.478	1.437	8	<0.0001	CDF	Significant Effect
		GZ-126T	7.23	2.478	1.437	8	<0.0001	CDF	Significant Effect
		GZ-135T	4.54	2.478	1.437	8	0.0002	CDF	Significant Effect
		GZ-137T	6.713	2.478	1.437	8	<0.0001	CDF	Significant Effect
		GZ-LC1T	4.466	2.478	1.437	8	0.0003	CDF	Significant Effect
		GZ-LC3T	6.472	2.478	1.437	8	<0.0001	CDF	Significant Effect

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	62.42134	7.802668	8	9.275	<0.0001	Significant Effect
Error	30.28683	0.8413008	36			
Total	92.70818		44			

Distributional Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variances	Mod Levene Equality of Variance	2.657	3.256	0.0272	Equal Variances
Variances	Levene Equality of Variance	3.891	3.052	0.0022	Unequal Variances
Distribution	Shapiro-Wilk W Normality	0.9417	0.9308	0.0248	Normal Distribution

Leptocheirus 28-d Survival, Growth and Reproduction Sediment Test — **New England Bioassay**

Analysis ID: 01-3211-5413 **Endpoint:** Reproduction **CETIS Version:** CETISv1.8.7
Analyzed: 03 Oct-13 16:23 **Analysis:** Parametric-Control vs Treatments **Official Results:** Yes

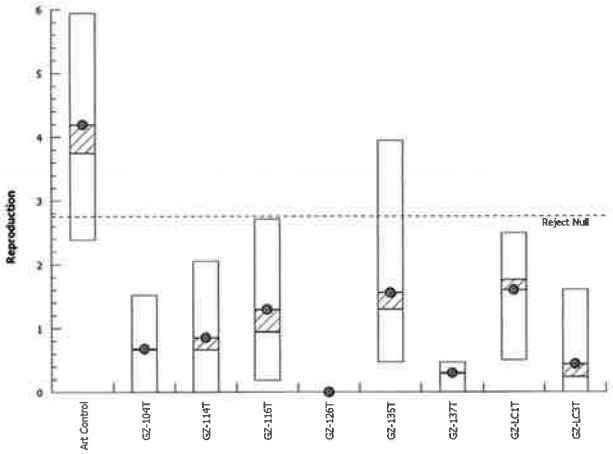
Reproduction Summary

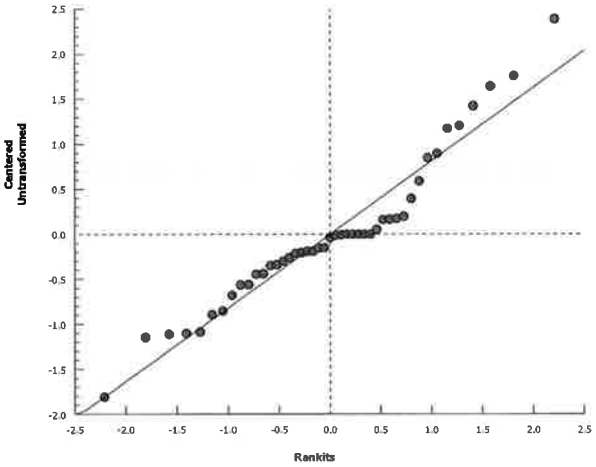
Sample Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
Art Control	5	4.194	2.18	6.208	3.75	2.389	5.947	0.7255	38.68%	0.0%
GZ-104T	5	0.6792	-0.01	1.368	0.6667	0	1.529	0.2482	81.72%	83.8%
GZ-114T	5	0.8533	-0.1628	1.869	0.6667	0	2.056	0.366	95.9%	79.65%
GZ-116T	5	1.296	0.04607	2.546	0.9474	0.1875	2.722	0.4501	77.67%	69.1%
GZ-126T	5	0	0	0	0	0	0	0		100.0%
GZ-135T	5	1.56	-0.1712	3.292	1.3	0.4737	3.95	0.6237	89.37%	62.79%
GZ-137T	5	0.2995	0.05961	0.5394	0.2941	0	0.4737	0.08641	64.51%	92.86%
GZ-LC1T	5	1.603	0.7012	2.505	1.765	0.5	2.5	0.3248	45.31%	61.78%
GZ-LC3T	5	0.4393	-0.384	1.263	0.2353	0	1.611	0.2965	150.9%	89.53%

Reproduction Detail

Sample Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
Art Control	5.947	3.75	5.833	3.05	2.389
GZ-104T	0	0.7333	0.4667	1.529	0.6667
GZ-114T	1.25	0.6667	2.056	0.2941	0
GZ-116T	2.722	0.1875	0.7333	0.9474	1.889
GZ-126T	0	0	0	0	0
GZ-135T	1.412	0.6667	3.95	1.3	0.4737
GZ-137T	0	0.4667	0.4737	0.2632	0.2941
GZ-LC1T	1.765	0.5	1.8	1.45	2.5
GZ-LC3T	1.611	0.1	0	0.25	0.2353

Graphics





APPENDIX B

CHEMICAL ANLAYSIS

REFERENCE TOXICANT DATA

CHAIN OF CUSTODY DOCUMENTS

PHOENIX
Environmental Laboratories, Inc.

Tuesday, September 10, 2013

Attn: Ms. Kim Wills
New England Bioassay
a Division of GZA GeoEnvironmental
77 Batson Drive
Manchester, CT 06040

Project ID: GZA EVERETT
Sample ID#s: BF34874 - BF34884

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B
NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

September 10, 2013

FOR: Attn: Ms. Kim Wills
New England Bioassay
a Division of GZA GeoEnvironmental
77 Batson Drive
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		08/28/13	9:30
Location Code:	NEB	Received by:	LB	09/05/13	15:33
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF34874
Phoenix ID: BF34874

Project ID: GZA EVERETT
Client ID: C33-3660-0

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Ammonia as Nitrogen	3.03	0.02	mg/L	09/06/13	WHM	E350.1

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
September 10, 2013
Reviewed and Released by: Deb Lawrie, Project Manager

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Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

September 10, 2013

FOR: Attn: Ms. Kim Wills
New England Bioassay
a Division of GZA GeoEnvironmental
77 Batson Drive
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		08/28/13	9:30
Location Code:	NEB	Received by:	LB	09/05/13	15:33
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF34874
Phoenix ID: BF34875

Project ID: GZA EVERETT
Client ID: C33-3661-0

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Ammonia as Nitrogen	0.65	0.02	mg/L	09/09/13	WHM	E350.1

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

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Analysis Report

September 10, 2013

FOR: Attn: Ms. Kim Wills
New England Bioassay
a Division of GZA GeoEnvironmental
77 Batson Drive
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		08/28/13	9:30
Location Code:	NEB	Received by:	LB	09/05/13	15:33
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF34874
Phoenix ID: BF34876

Project ID: GZA EVERETT
Client ID: C33-3574-0

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Ammonia as Nitrogen	1.16	0.02	mg/L	09/09/13	WHM	E350.1

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

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New England Bioassay
a Division of GZA GeoEnvironmental
77 Batson Drive
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		08/28/13	9:30
Location Code:	NEB	Received by:	LB	09/05/13	15:33
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF34874
Phoenix ID: BF34877

Project ID: GZA EVERETT
Client ID: C33-3575-0

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Ammonia as Nitrogen	1.35	0.02	mg/L	09/09/13	WHM	E350.1

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

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77 Batson Drive
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		08/28/13	9:30
Location Code:	NEB	Received by:	LB	09/05/13	15:33
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF34874
Phoenix ID: BF34878

Project ID: GZA EVERETT
Client ID: C33-3576-0

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Ammonia as Nitrogen	0.75	0.02	mg/L	09/09/13	WHM	E350.1

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

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Analysis Report

September 10, 2013

FOR: Attn: Ms. Kim Wills
New England Bioassay
a Division of GZA GeoEnvironmental
77 Batson Drive
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		08/28/13	9:30
Location Code:	NEB	Received by:	LB	09/05/13	15:33
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF34874
Phoenix ID: BF34879

Project ID: GZA EVERETT
Client ID: C33-3577-0

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Ammonia as Nitrogen	0.92	0.02	mg/L	09/09/13	WHM	E350.1

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

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New England Bioassay
a Division of GZA GeoEnvironmental
77 Batson Drive
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		08/28/13	9:30
Location Code:	NEB	Received by:	LB	09/05/13	15:33
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF34874
Phoenix ID: BF34880

Project ID: GZA EVERETT
Client ID: C33-3578-0

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Ammonia as Nitrogen	1.02	0.02	mg/L	09/09/13	WHM	E350.1

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Analysis Report

September 10, 2013

FOR: Attn: Ms. Kim Wills
New England Bioassay
a Division of GZA GeoEnvironmental
77 Batson Drive
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		08/28/13	9:30
Location Code:	NEB	Received by:	LB	09/05/13	15:33
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF34874
Phoenix ID: BF34881

Project ID: GZA EVERETT
Client ID: C33-3579-0

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Ammonia as Nitrogen	0.75	0.02	mg/L	09/09/13	WHM	E350.1

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Analysis Report

September 10, 2013

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New England Bioassay
a Division of GZA GeoEnvironmental
77 Batson Drive
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		08/28/13	9:30
Location Code:	NEB	Received by:	LB	09/05/13	15:33
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF34874
Phoenix ID: BF34882

Project ID: GZA EVERETT
Client ID: C33-3580-0

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Ammonia as Nitrogen	1.03	0.02	mg/L	09/09/13	WHM	E350.1

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Analysis Report

September 10, 2013

FOR: Attn: Ms. Kim Wills
New England Bioassay
a Division of GZA GeoEnvironmental
77 Batson Drive
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		08/28/13	9:30
Location Code:	NEB	Received by:	LB	09/05/13	15:33
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF34874
Phoenix ID: BF34883

Project ID: GZA EVERETT
Client ID: C33-3581-0

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Ammonia as Nitrogen	0.80	0.02	mg/L	09/09/13	WHM	E350.1

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director
September 10, 2013
Reviewed and Released by: Deb Lawrie, Project Manager

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

September 10, 2013

FOR: Attn: Ms. Kim Wills
New England Bioassay
a Division of GZA GeoEnvironmental
77 Batson Drive
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		08/28/13	9:30
Location Code:	NEB	Received by:	LB	09/05/13	15:33
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF34874
Phoenix ID: BF34884

Project ID: GZA EVERETT
Client ID: C33-3582-0

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Ammonia as Nitrogen	1.03	0.02	mg/L	09/09/13	WHM	E350.1

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director
September 10, 2013
Reviewed and Released by: Deb Lawrie, Project Manager

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

September 10, 2013

QA/QC Data

SDG I.D.: GBF34874

Parameter	Blank	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 250269, QC Sample No: BF34267 (BF34874)												
Ammonia as Nitrogen	BRL	0.30	0.30	NC	105			106			85 - 115	20
QA/QC Batch 250359, QC Sample No: BF35123 (BF34875, BF34876, BF34877, BF34878, BF34879, BF34880, BF34881, BF34882, BF34883, BF34884)												
Ammonia as Nitrogen	BRL	10.9	10.9	0	106			104			85 - 115	20

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference

Phyllis Shiller, Laboratory Director
September 10, 2013

Requested Criteria: None

State: MA

Sample Criteria Exceedences Report

GBF34874 - NEB

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units

*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

Cooler: Yes [X] No [ ]
Coolant: IPK [X] ICE [ ] No [ ]

CHAIN OF CUSTODY RECORD

Temp 6 °C Pg of

PHOENIX
Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Contact Options:
[ ] Fax:
[ ] Phone:
[ ] Email:

Customer: New England Biolassay
Address: 77 Batson Drive
Manchester, CT 06042

Project: GZA, Everett, MA
Report to: Kim Wills
Invoice to: NEB

Project P.O:

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: Jamie A Coe Date: 8-28-13

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
RW=Raw Water **SE**=Sediment **SL**=Sludge **S**=Soil **SD**=Solid **W**=Wipe
OIL=Oil **B**=Bulk **L**=Liquid

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	Ammonia	Soil VOA Vials [ ] methanol [ ] H2O	GL Soil container ( ) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [X] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle
34874	C33 -3660 -0	Water	8-28-13	0930	✓						1				
34875	C33 - 3661 -0				✓						1				
34876	C33 - 3574 -0				✓						1				
34877	C33 - 3575 - 0				✓						1				
34878	C33 - 3576 - 0				✓						1				
34879	C33 - 3577 - 0				✓						1				
34880	C33 - 3578 - 0				✓						1				
34881	C33 - 3579 - 0				✓						1				
34882	C33 - 3580 - 0				✓						1				
34883	C33 - 3581 -0				✓						1				
34884	C33 - 3582 -0				✓						1				

Relinquished by:	Accepted by:	Date:	Time:
Jamie Coe		9-5-13	1508
		9-5-13	15:33

Comments, Special Requirements or Regulations:

Turnaround:
[ ] 1 Day*
[ ] 2 Days*
[ ] 3 Days*
[ ] Standard
[ ] Other
* SURCHARGE APPLIES

RI
[ ] Direct Exposure (Residential)
[ ] GW
[ ] Other

CT
[ ] RCP Cert
[ ] GW Protection
[ ] SW Protection
[ ] GA Mobility
[ ] GB Mobility
[ ] Residential DEC
[ ] I/C DEC
[ ] Other

MA
[ ] MCP Certification
[ ] GW-1
[ ] GW-2
[ ] GW-3
[ ] S-1
[ ] S-2
[ ] S-3
[ ] MWRA eSMART
[ ] Other

State where samples were collected: _____

Data Format
[ ] Excel
[ ] PDF
[ ] GIS/Key
[ ] EQuIS
[ ] Other

Data Package
[ ] Tier II Checklist
[ ] Full Data Package*
[ ] Phoenix Std Report
[ ] Other

* SURCHARGE APPLIES

PHOENIX
Environmental Laboratories, Inc

Wednesday, October 02, 2013

Attn: Ms. Kim Wills
New England Bioassay
a Division of GZA GeoEnvironmental
77 Batson Drive
Manchester, CT 06040

Project ID: GZA-EVERETT, MA
Sample ID#s: BF46433 - BF46443

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B
NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 02, 2013

FOR: Attn: Ms. Kim Wills
New England Bioassay
a Division of GZA GeoEnvironmental
77 Batson Drive
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:	KB	09/25/13	10:45
Location Code:	NEB	Received by:	LB	09/27/13	14:01
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF46433
Phoenix ID: BF46433

Project ID: GZA-EVERETT, MA
Client ID: C33-3660-28

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Ammonia as Nitrogen	0.13	0.02	mg/L	10/01/13	WHM	E350.1

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
October 02, 2013
Reviewed and Released by: Deb Lawrie, Project Manager

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 02, 2013

FOR: Attn: Ms. Kim Wills
New England Bioassay
a Division of GZA GeoEnvironmental
77 Batson Drive
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:	KB	09/25/13	10:47
Location Code:	NEB	Received by:	LB	09/27/13	14:01
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF46433
Phoenix ID: BF46434

Project ID: GZA-EVERETT, MA
Client ID: C33-3661-28

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Ammonia as Nitrogen	0.17	0.02	mg/L	10/01/13	WHM	E350.1

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director
October 02, 2013
Reviewed and Released by: Deb Lawrie, Project Manager

PHOENIX

Environmental Laboratories, Inc.
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Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 02, 2013

FOR: Attn: Ms. Kim Wills
New England Bioassay
a Division of GZA GeoEnvironmental
77 Batson Drive
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:	KB	09/25/13	10:49
Location Code:	NEB	Received by:	LB	09/27/13	14:01
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF46433
Phoenix ID: BF46435

Project ID: GZA-EVERETT, MA
Client ID: C33-3574-28

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Ammonia as Nitrogen	0.11	0.02	mg/L	10/01/13	WHM	E350.1

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director
October 02, 2013
Reviewed and Released by: Deb Lawrie, Project Manager

PHOENIX

Environmental Laboratories, Inc.
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Analysis Report

October 02, 2013

FOR: Attn: Ms. Kim Wills
New England Bioassay
a Division of GZA GeoEnvironmental
77 Batson Drive
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:	KB	09/25/13	11:02
Location Code:	NEB	Received by:	LB	09/27/13	14:01
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF46433
Phoenix ID: BF46436

Project ID: GZA-EVERETT, MA
Client ID: C33-3575-28

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Ammonia as Nitrogen	0.06	0.02	mg/L	10/01/13	WHM	E350.1

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director
October 02, 2013
Reviewed and Released by: Deb Lawrie, Project Manager

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 02, 2013

FOR: Attn: Ms. Kim Wills
New England Bioassay
a Division of GZA GeoEnvironmental
77 Batson Drive
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:	KB	09/25/13	12:15
Location Code:	NEB	Received by:	LB	09/27/13	14:01
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF46433
Phoenix ID: BF46437

Project ID: GZA-EVERETT, MA
Client ID: C33-3576-28

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Ammonia as Nitrogen	0.15	0.02	mg/L	10/01/13	WHM	E350.1

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director
October 02, 2013
Reviewed and Released by: Deb Lawrie, Project Manager

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 02, 2013

FOR: Attn: Ms. Kim Wills
New England Bioassay
a Division of GZA GeoEnvironmental
77 Batson Drive
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:	KB	09/25/13	12:17
Location Code:	NEB	Received by:	LB	09/27/13	14:01
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF46433
Phoenix ID: BF46438

Project ID: GZA-EVERETT, MA
Client ID: C33-3577-28

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Ammonia as Nitrogen	0.16	0.02	mg/L	10/01/13	WHM	E350.1

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director
October 02, 2013
Reviewed and Released by: Deb Lawrie, Project Manager

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Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 02, 2013

FOR: Attn: Ms. Kim Wills
New England Bioassay
a Division of GZA GeoEnvironmental
77 Batson Drive
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:	KB	09/25/13	12:19
Location Code:	NEB	Received by:	LB	09/27/13	14:01
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF46433
Phoenix ID: BF46439

Project ID: GZA-EVERETT, MA
Client ID: C33-3578-28

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Ammonia as Nitrogen	0.19	0.02	mg/L	10/01/13	WHM	E350.1

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director
October 02, 2013
Reviewed and Released by: Deb Lawrie, Project Manager

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 02, 2013

FOR: Attn: Ms. Kim Wills
New England Bioassay
a Division of GZA GeoEnvironmental
77 Batson Drive
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:	KB	09/25/13	12:27
Location Code:	NEB	Received by:	LB	09/27/13	14:01
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF46433
Phoenix ID: BF46440

Project ID: GZA-EVERETT, MA
Client ID: C33-3579-28

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Ammonia as Nitrogen	0.10	0.02	mg/L	10/01/13	WHM	E350.1

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director
October 02, 2013
Reviewed and Released by: Deb Lawrie, Project Manager

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 02, 2013

FOR: Attn: Ms. Kim Wills
New England Bioassay
a Division of GZA GeoEnvironmental
77 Batson Drive
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:	KB	09/25/13	14:15
Location Code:	NEB	Received by:	LB	09/27/13	14:01
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF46433
Phoenix ID: BF46441

Project ID: GZA-EVERETT, MA
Client ID: C33-3580-28

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Ammonia as Nitrogen	0.04	0.02	mg/L	10/01/13	WHM	E350.1

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director
October 02, 2013
Reviewed and Released by: Deb Lawrie, Project Manager

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 02, 2013

FOR: Attn: Ms. Kim Wills
New England Bioassay
a Division of GZA GeoEnvironmental
77 Batson Drive
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:	KB	09/25/13	14:17
Location Code:	NEB	Received by:	LB	09/27/13	14:01
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF46433
Phoenix ID: BF46442

Project ID: GZA-EVERETT, MA
Client ID: C33-3581-28

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Ammonia as Nitrogen	0.10	0.02	mg/L	10/01/13	WHM	E350.1

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director
October 02, 2013
Reviewed and Released by: Deb Lawrie, Project Manager

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 02, 2013

FOR: Attn: Ms. Kim Wills
New England Bioassay
a Division of GZA GeoEnvironmental
77 Batson Drive
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:	KB	09/25/13	14:19
Location Code:	NEB	Received by:	LB	09/27/13	14:01
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF46433
Phoenix ID: BF46443

Project ID: GZA-EVERETT, MA
Client ID: C33-3582-28

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Ammonia as Nitrogen	0.06	0.02	mg/L	10/01/13	WHM	E350.1

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director
October 02, 2013
Reviewed and Released by: Deb Lawrie, Project Manager

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

October 02, 2013

QA/QC Data

SDG I.D.: GBF46433

Parameter	Blank	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 255557, QC Sample No: BF46639 (BF46433, BF46434, BF46435, BF46436, BF46437, BF46438, BF46439)												
Ammonia as Nitrogen	BRL	0.09	0.09	NC	109			107			85 - 115	20
QA/QC Batch 255717, QC Sample No: BF46995 (BF46440, BF46441, BF46442, BF46443)												
Ammonia as Nitrogen	BRL	39.0	39.2	0.50	106			105			85 - 115	20

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference

Phyllis Shiller, Laboratory Director
October 02, 2013

Sample Criteria Exceedences Report

GBF46433 - NEB

Requested Criteria: None

State: MA

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units

*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

Cooler: Yes ☐ No ☐
Coolant: IPK ☒ ICE ☐ No ☐
Temp 0 °C Pg of

CHAIN OF CUSTODY RECORD

PHOENIX Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Contact Options:
☐ Fax:
☐ Phone:
☐ Email:

Customer: New England Bioassay
Address: 77 Batson Dr.
Manchester, CT 06042

Project: GZA – Everett, MA
Report to: Kim Wills
Invoice to: NEB

Project P.O:

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: Kim Bergeron Date: 9-25-13

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
RW=Raw Water **SE**=Sediment **SL**=Sludge **S**=Soil **SD**=Solid **W**=Wipe
OIL=Oil **B**=Bulk **L**=Liquid

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	Ammonia	Soil VOA Vials [ ]	GL Soil container ( ) methanol [ ] H2O	GL Soil container ( ) oz	40 ml VOA Vial [ ]	GL Amber 1000ml [ ] As is [ ] HCl	PL As is [ ] 500ml [ ] H2SO4	PL As is [ ] 250ml [ ] 1000ml	PL H2SO4 [V] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle
46433	C33-3660-28	Water	9-25-13	1045	✓						1					
46434	C33-3661-28	↓	↓	1047	✓						1					
46435	C33-3574-28			1049	✓						1					
46436	C33-3575-28			1102	✓						1					
46437	C33-3576-28			1215	✓						1					
46438	C33-3577-28			1217	✓						1					
46439	C33-3578-28			1219	✓						1					
46440	C33-3579-28			1227	✓						1					
46441	C33-3580-28			1415	✓						1					
46442	C33-3581-28			1417	✓						1					
46443	C33-3582-28	↓	↓	1419	✓						1					

Relinquished by:	Accepted by:	Date:	Time:
[signature]	[signature]	9-27-13	1320
[signature]	[signature]	9-27-13	1401

Comments, Special Requirements or Regulations:

Turnaround:
☐ 1 Day*
☐ 2 Days*
☐ 3 Days*
☐ Standard
☐ Other
* SURCHARGE APPLIES

RI
☐ Direct Exposure (Residential)
☐ GW
☐ Other

CT
☐ RCP Cert
☐ GW Protection
☐ SW Protection
☐ GA Mobility
☐ GB Mobility
☐ Residential DEC
☐ I/C DEC
☐ Other

MA
☐ MCP Certification
☐ GW-1
☐ GW-2
☐ GW-3
☐ S-1
☐ S-2
☐ S-3
☐ MWRA eSMART
☐ Other

State where samples were collected: _____

Data Format
☐ Excel
☐ PDF
☐ GIS/Key
☐ EQuIS
☐ Other

Data Package
☐ Tier II Checklist
☐ Full Data Package*
☐ Phoenix Std Report
☐ Other
* SURCHARGE APPLIES

New England Bioassay, Inc. - Acute Reference Toxicity Data for ***Leptocheirus plumulosus***

Start date / time: 8-28-13/1400

End date / time: 9/1/13/1400

Ref. toxicant: SDS 13-1977 Org. lot #: Lp13(8.28) Salt water type / date prep: ASW/8-27-13

Source: NEB Salinity / Alkalinity: 20 ppt. / 95 (mg/L as $CaCO_3$) Tech. AA

		Number of organisms					Salinity ppt.					Temperature °C					D.O. mg/L					pH S.U.				
Day:		0	1	2	3	4	0	1	2	3	4	0	1	2	3	4	0	1	2	3	4	0	1	2	3	4
Contr. ASW	A	10	10	10	10	10	20	–	–	–	20	23	25	25	25	25	6.9	–	–	–	6.8	8.1	–	–	–	8.0
	B	10	10	10	10	10	20	–	–	–	20	23	25	25	25	25	7.1	–	–	–	6.8	8.1	–	–	–	8.0
6.25 mg/L	A	10	10	10	10	10	20	–	–	–	20	23	25	25	25	25	7.3	–	–	–	5.5	8.1	–	–	–	7.9
	B	10	10	10	10	10	20	–	–	–	20	23	25	25	25	25	7.3	–	–	–	5.5	8.1	–	–	–	7.9
12.5 mg/L	A	10	10	10		37x	20	–	–	–	20	23	25	25	25	26	7.1	–	–	–	4.1	8.1	–	–	–	7.7
	B	10	10	10		64x	20	–	–	–	20	23	25	25	25	25	7.0	–	–	–	4.4	8.1	–	–	–	7.8
25 mg/L	A	10	10	64x		06x	20	–	–	–	20	23	25	25		25	7.2	–	–	–	2.9	8.1	–	–	–	7.6
	B	10	9.1x	54x		05x	20	–	–	–	20	23	25	25		25	7.2	–	–	–	3.3	8.1	–	–	–	7.7
50 mg/L	A	10	10	010x	–	–	20	–	20	–	–	23	25	25	–	–	7.4	–	5.4	–	–	8.1	–	7.8	–	–
	B	10	10	19x		01x	20	–	–	–	20	23	25	25	25	25	7.4	–	–	–	4.7	8.1	–	–	–	7.8
100 mg/L	A	10	010x	–	–	–	20	20	–	–	–	23	25	–	–	–	7.3	5.7	–	–	–	8.1	7.9	–	–	–
	B	10	010x	–	–	–	20	20	–	[illegible]		23	25	–	–	–	7.5	5.5	–	–	–	8.1	7.9	–	–	–

CT-TOX: BINOMIAL, MOVING AVERAGE, PROBIT, AND SPEARMAN METHODS

SPEARMAN-KARBER

TRIM:	.00%
LC50:	12.074
95% LOWER CONFIDENCE:	10.349
95% UPPER CONFIDENCE:	14.087

CONC. mg/L	NUMBER EXPOSED	NUMBER DEAD	PERCENT DEAD	BINOMIAL PROB.(%)
6.25	20.	0.	.00	.9537D-04
12.50	20.	11.	55.00	.4119D+02
25.00	20.	20.	100.00	.9537D-04
50.00	20.	20.	100.00	.9537D-04
100.00	20.	20.	100.00	.9537D-04

THE BINOMIAL TEST SHOWS THAT 6.25 AND 25.00 CAN BE USED AS STATISTICALLY SOUND CONSERVATIVE 95 PERCENT CONFIDENCE LIMITS SINCE THE ACTUAL CONFIDENCE LEVEL ASSOCIATED WITH THESE LIMITS IS 99.9998 PERCENT.
AN APPROXIMATE LC50 FOR THIS DATA SET IS 11.941

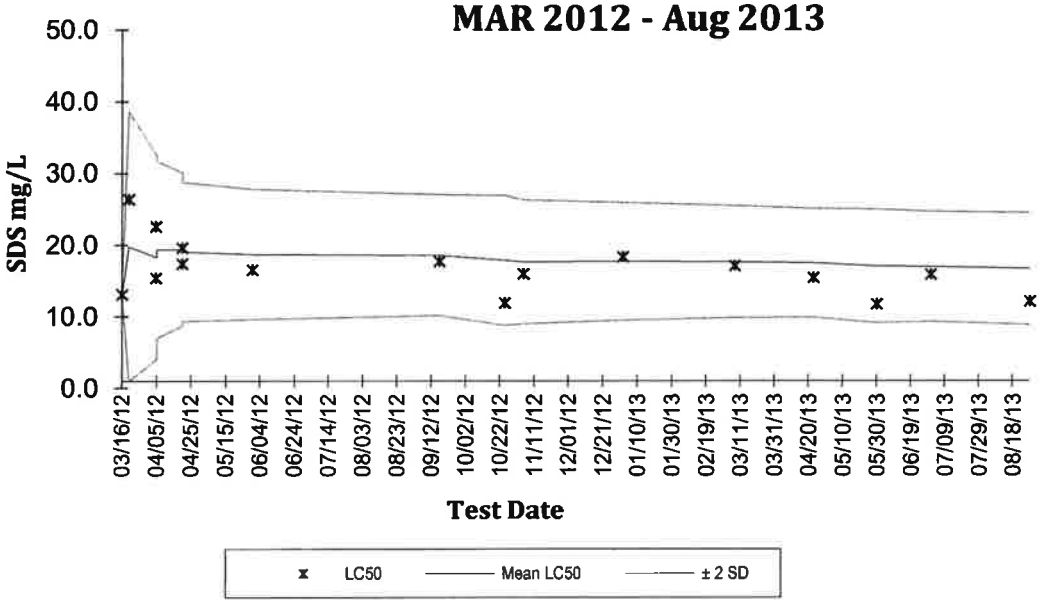
WHEN THERE ARE LESS THAN TWO CONCENTRATIONS AT WHICH THE PERCENT DEAD IS BETWEEN 0 AND 100, NEITHER THE MOVING AVERAGE NOR THE PROBIT METHOD CAN GIVE ANY STATISCALLY SOUND RESULTS.

DATE: 8-28-13 TEST NUMBER: 13-1977 DURATION: 96 h
SAMPLE: SDS SPECIES: L.plumulosus

METHOD	LC50	CONFIDENCE LIMITS LOWER	UPPER	SPAN
BINOMIAL	11.941	6.250	25.000	18.750
MAA	*******	*******	*******	*******
PROBIT	*******	*******	*******	*******
SPEARMAN	12.074	10.349	14.087	3.739

**** = LIMIT DOES NOT EXIST

Sodium Dodecyl Sulfate(SDS):
96-h LC50 for *Leptocheirus plumulosus*
MAR 2012 - Aug 2013



Test ID	Date	LC50	Mean LC50	STD	2STD	2STD	CV%
12-1566	3/16/2012	13.1	13.1		13.1	13.1	0.0
12-1567	3/20/2012	26.4	19.8	9.4	0.9	38.6	47.7
12-2337	4/5/2012	15.4	18.3	7.1	4.1	32.5	38.9
12-2338	4/5/2012	22.5	19.4	6.2	7.0	31.7	32.0
12-1568	4/20/2012	19.6	19.4	5.4	8.7	30.1	27.6
12-1569	4/20/2012	17.4	19.1	4.9	9.3	28.8	25.5
12-1570	5/31/2012	16.5	18.7	4.5	9.6	27.8	24.3
12-2336	9/17/2012	17.7	18.6	4.2	10.1	27.0	22.7
12-2334	10/25/2012	11.8	17.8	4.5	8.7	26.9	25.5
12-2355	11/5/2012	15.9	17.6	4.3	9.0	26.3	24.5
13-83	1/2/2013	18.3	17.7	4.1	9.5	25.9	23.2
13-686	3/8/2013	17.1	17.6	3.9	9.8	25.5	22.2
13-880	4/23/2013	15.4	17.5	3.8	9.9	25.1	21.8
13-1121	5/30/2013	11.7	17.1	4.0	9.1	25.0	23.3
13-1376	7/1/2013	15.9	17.0	3.8	9.3	24.7	22.6
13-1977	8/28/2013	12.1	16.7	3.9	8.9	24.5	23.5

New England Bioassay
A division of GZA GeoEnvironmental, Inc.
77 Batson Drive Manchester, CT 06042
Phone: 860-643-9560 Fax: 860-646-7169

Chain of Custody

Company Name: GZA
Project Name/#: 17/521.02 Tk 6
Invoice To: David F. Lenz PO#:
Samples Collected By (Print): JLB

Report To: Tim Briggs
Address: 249 Vanderbilt, Norwood
Phone: ( ) Fax: ( )
Email: timothy.briggs@gza.com

#	SAMPLE IDENTIFICATIONS	Date Sampled	Time Sampled	Composite	Grab	Chemical Analysis - Attach Permit Specifications
1	GZ-104T C33-3574	8-6-13			X	
2	GZ-114T C33-3575	↓			X	
3	GZ-116T C33-3576				X	
4	GZ-126T C33-3577				X	

If you are uncertain of the following test parameters, please attach a copy of the appropriate pages from your permit

ANALYSIS	1	2	3	4
SAMPLE TYPE				
Stormwater (if yes, proceed to relinquish section)				
POTW Effluent				
Groundwater				
Non-Contact Cooling Water				
Industrial Effluent				
Other _____				
PROTOCOL TYPE				
Definitive LC50				
Pass/Fail (Screening or NOAEL)				
Chronic				
INVERTEBRATE TYPE & AGE				
Daphnia pulex (<24 hrs)				
Mysidopsis bahia (_____ hours/days)				
Ceriodaphnia dubia (<24 hrs)				

ANALYSIS	1	2	3	4
VERTEBRATE (FISH) TYPE & AGE (if applicable)				
Pimephales promelas (_____ hours/days)				
Cyprinodon variegatus (_____ hours/days)				
Menidia beryllina (_____ hours/days)				
VERTEBRATE (FISH) TEST DURATION (if applicable)				
24 hours				
48 hours				
96 hours				
7 days				
TEMPERATURE (if specified)				
20°C				
25°C				
MISCELLANEOUS (if applicable)				
SALINITY (if saltwater testing) _____ ppt				
Dilution water HARDNESS (_____ mg/L as $CaCO_3$)				

✓ 28 Day Whole Sediment Leptocheirus plumulosus Surv. + Growth

Relinquished by:	Date: 8-20-13 Time: 18:30	Accepted by: Custody Seal	Date: Time:
Relinquished by:	Date: Time:	Accepted by:	Date: 8-22-13 Time: 11:37 AM
Relinquished by:	Date: 8-22-13 Time: 2:00 PM	Accepted by:	Date: 8/22/13 Time: 1400

REMARKS/NOTES:

New England Bioassay
A division of GZA GeoEnvironmental, Inc.
77 Batson Drive Manchester, CT 06042
Phone: 860-643-9560 Fax: 860-646-7169

Chain of Custody

Company Name: GZA
Project Name/#: 171521.02 Task 6
Invoice To: David F. Lear PO#:
Samples Collected By (Print): TLB

Report To: Tim Briggs
Address: "
Phone: ( ) Fax: ( )
Email: "

#	SAMPLE IDENTIFICATIONS	Date Sampled	Time Sampled	Composite	Grab	Chemical Analysis - Attach Permit Specifications
1	• G2-135T C33-3578	8-6-13			X	
2	• G2-137T C33-3579	↓			X	
3	• G2-LC1T C33-3580				X	
4	• G2-LC2T C33-3581				X	

If you are uncertain of the following test parameters, please attach a copy of the appropriate pages from your permit

ANALYSIS	1	2	3	4
SAMPLE TYPE				
Stormwater (if yes, proceed to relinquish section)				
POTW Effluent				
Groundwater				
Non-Contact Cooling Water				
Industrial Effluent				
Other _____				
PROTOCOL TYPE				
Definitive LC50				
Pass/Fail (Screening or NOAEL)				
Chronic				
INVERTEBRATE TYPE & AGE				
Daphnia pulex (<24 hrs)				
Mysidopsis bahia (_____ hours/days)				
Ceriodaphnia dubia (<24 hrs)				

ANALYSIS	1	2	3	4
VERTEBRATE (FISH) TYPE & AGE (if applicable)				
Pimephales promelas (_____ hours/days)				
Cyprinodon variegatus (_____ hours/days)				
Menidia beryllina (_____ hours/days)				
VERTEBRATE (FISH) TEST DURATION (if applicable)				
24 hours				
48 hours				
96 hours				
7 days				
TEMPERATURE (if specified)				
20°C				
25°C				
MISCELLANEOUS (if applicable)				
SALINITY (if saltwater testing) _____ ppt				
Dilution water HARDNESS (_____ mg/L as $CaCO_3$)				

28 Day Whole Sediment Leptocheirus plumulosus Survival + Growth

Relinquished by:	Date: 8-20-13	Accepted by: Custody Seal	Date:
	Time: 18:30		Time:
Relinquished by:	Date:	Accepted by:	Date: 8-22-13
	Time:		Time: 11:37 AM
Relinquished by:	Date: 8-22-13	Accepted by: Meghan Wagner	Date: 8/22/13
	Time: 2:00 PM		Time: 1400

REMARKS/NOTES:

New England Bioassay
A division of GZA GeoEnvironmental, Inc.
77 Batson Drive Manchester, CT 06042
Phone: 860-643-9560 Fax: 860-646-7169

Chain of Custody

Company Name: GZA
Project Name/#: 171521.02 Tsk 6
Invoice To: David F. Lane PO#:
Samples Collected By (Print): TLB

Report To: Tim Briggs
Address: "
Phone: ( ) Fax: ( )
Email: "

#	SAMPLE IDENTIFICATIONS	Date Sampled	Time Sampled	Composite	Grab	Chemical Analysis - Attach Permit Specifications
1	GZ-LC3T C33:3582	8-6-13			X	
2		↓				
3						
4						

If you are uncertain of the following test parameters, please attach a copy of the appropriate pages from your permit

ANALYSIS	1	2	3	4
SAMPLE TYPE				
Stormwater (if yes, proceed to relinquish section)				
POTW Effluent				
Groundwater				
Non-Contact Cooling Water				
Industrial Effluent				
Other _____				
PROTOCOL TYPE				
Definitive LC50				
Pass/Fail (Screening or NOAEL)				
Chronic				
INVERTEBRATE TYPE & AGE				
Daphnia pulex (<24 hrs)				
Mysidopsis bahia (_____ hours/days)				
Ceriodaphnia dubia (<24 hrs)				

ANALYSIS	1	2	3	4
VERTEBRATE (FISH) TYPE & AGE (if applicable)				
Pimephales promelas (_____ hours/days)				
Cyprinodon variegatus (_____ hours/days)				
Menidia beryllina (_____ hours/days)				
VERTEBRATE (FISH) TEST DURATION (if applicable)				
24 hours				
48 hours				
96 hours				
7 days				
TEMPERATURE (if specified)				
20°C				
25°C				
MISCELLANEOUS (if applicable)				
SALINITY (if saltwater testing) _____ ppt				
Dilution water HARDNESS (_____ mg/L as $CaCO_3$)				

Relinquished by: Tim Briggs	Date: 8-20-13 Time: 18:30	Accepted by: Custody Seal	Date: Time:
Relinquished by:	Date: Time:	Accepted by: David F. Lane	Date: 8-22-13 Time: 11:37AM
Relinquished by: David F. Lane	Date: 8-22-13 Time: 2:00 PM	Accepted by: Meghan Mannon	Date: 8/22/13 Time: 1400

REMARKS/NOTES:



New England Bioassay
a Division of GZA GeoEnvironmental, Inc.

77 Batson Drive
Manchester, CT
06042
860-643-9560
FAX 860-646-7169

28-DAY TOXICITY TESTS WITH THE AMPHIPOD, LEPTOCHEIRUS PLUMULOSUS, USING WHOLE-SEDIMENT SAMPLES COLLECTED MARCH 24-30, 2015 FROM THE WYNN MA, LLC EVERETT STAGING YARD IN EVERETT, MA

June 16, 2015

Performed For:

GZA GeoEnvironmental, Inc.
249 Vanderbilt Ave
Norwood, MA 02062

Performed by:

New England Bioassay
77 Batson Drive
Manchester, Connecticut 06042

SUMMARY

Client:	GZA GeoEnvironmental, Inc.
Site:	Wynn Casino Site in Everett, MA
GZA Job Number:	01.171521.13 Task 1
Test Materials:	Whole Sediment Samples (Estuarine)
Sample Date:	March 24-30, 2015 (12 Whole Sediment Samples)
Delivery Date:	April 21, 2015
Test Type:	28-day Single Concentration Survival & Growth Toxicity Tests with the Amphipod, *Leptocheirus plumulosus*
Test Endpoint:	28-day survival, growth & reproduction
Test Dates:	April 30, 2015 – May 28, 2015

28-DAY TOXICITY TESTS WITH THE AMPHIPOD, LEPTOCHEIRUS PLUMULOSUS, USING WHOLE-SEDIMENT SAMPLES COLLECTED MARCH 24-30, 2015 FROM THE WYNN MA, LLC EVERETT STAGING YARD IN EVERETT, MA

June 16, 2015

INTRODUCTION

This report contains the results of toxicity tests performed using grab samples of twelve estuarine sediments collected between March 24th and March 30th, 2015 from the Wynn Casino site in Everett, MA. Toxicity tests with the whole sediment samples were conducted by exposing the saltwater amphipod, *Leptocheirus plumulosus*, to each of the twelve sediment samples for 28 days in a static-renewal test system. All toxicity test work reported here was performed at New England Bioassay (NEB) in Manchester, CT.

MATERIALS AND METHODS

Sample Collection and Handling

Grab samples of twelve estuarine sediments for toxicity screening were collected March 24-30, 2015 from the Wynn Casino site in Everett, MA. The samples were picked up from the GZA office in Norwood, MA and delivered to NEB by NEB courier on April 21, 2015 at 1220 h; the whole sediment samples were then stored refrigerated in their original containers until test set-up. Copies of chain of custody documentation are found in Appendix B.

Upon receipt at NEB, the sediment samples (1-gallon HDPE plastic containers) were logged into the laboratory (Table 1). The sediment samples were then stored in the dark in a cold room (4° ± 2°C) until testing. Free-standing water found in the original sample containers was used to represent pore water; the pore water was collected and then analyzed for salinity and total ammonia (Appendix A). Before testing, the twelve sediment samples were removed from the cold room and then manually stirred in their original containers to ensure homogeneity.

TABLE 1. DESCRIPTION OF ESTUARINE WHOLE SEDIMENT SAMPLES COLLECTED FROM EVERETT, MA

Sample Description	Sample Date	Sample Type	NEB COC Nos.
	Whole Sediments		
LC-102	3/26/15	Grab	C35-1873
LC-105	3/26/15	Grab	C33-1874
LC-112	3/27/15	Grab	C33-1875
GZ-203	3/24/15	Grab	C33-1876
GZ-207	3/25/15	Grab	C33-1877
GZ-209	3/25/15	Grab	C33-1878
GZ-213	3/25/15	Grab	C33-1879
GZ-214	3/30/15	Grab	C33-1880
GZ-217	3/24/15	Grab	C33-1881
GZ-223	3/30/15	Grab	C33-1882
GZ-224	3/30/15	Grab	C33-1883
GZ-225	3/27/15	Grab	C33-1884

Observations on gross physical characteristics of sediment samples were then made. A description of each sample before test set-up can be found in Appendix A.

In addition to testing site sediment samples, an artificial control sediment and a natural control sediment were evaluated as quality-control checks to determine adequacy of organisms and test system. The artificial control sediment was created based on EPA recommendations and consisted of natural sand, sterilized natural marine sediment and redart clay (Appendix A). Control sediments were handled similarly to the site sediments. Performance criteria established for this test includes the average survival of amphipods in the control treatment must be greater than or equal to 80% and there must be measurable growth and reproduction in all replicates. Both the artificial and natural controls did have measurable growth and reproduction in all replicates, however neither had 80% survival at test termination. The artificial control survival was 62% and the natural control survival was 71%. According to "Method for Assessing the Chronic Toxicity of Marine and Estuarine Sediment-associated Contaminants with the Amphipod *Leptocheirus plumulosus*" EPA600/R-01/020 "*Test failures usually can be attributed to a failure to maintain one or more test requirements described in Tables 11.1 and 11.3; however, tests sometimes fail inexplicably.*" Salinity, pH, sediment grain size, ammonia and temperature conditions as recommended in the aforementioned tables were consistently met in both the artificial and natural controls. Additionally, the *L.plumulosus* reference toxicant tests set in April and May, 2015 were both within the acceptable range. We are considering this test to be conditionally valid because three reference site sediments were also

included, and all three reference sites passed the survival, growth and reproduction performance criteria for test controls. These reference sites can provide a site-specific basis for evaluating toxicity.

After homogenization and characterization, between 2 cm and 5 cm of wet sediment was measured into 1L Pyrex glass beakers; a total of five beakers were prepared in this manner for each site sediment and the control sediment. Remaining sediment from each site was then stored in a cold room at 4° ± 2°.

Overlying water was added to each replicate beaker; gentle aeration of the overlying water was then initiated in all test and control beakers. After settling for about 4 h at the test temperature, aliquots of overlying water were removed from each sediment for total ammonia analysis; about 75% of the test solution was then removed and replaced with fresh overlying water. After test solution renewal, initial water quality measurements were performed; beakers containing the sediment and overlying water were then ready for introduction of test organisms.

Test Organisms

Leptocheirus plumulosus

Leptocheirus plumulosus, (Crustacea, Amphipoda) is an infaunal sediment-burrowing amphipod recommended as a test species for sediment tests (COE/EPA, 1994a, 1994b, 1995, 1998). This species is widely distributed in the estuarine and mesohaline portions of the Atlantic coast. Amphipods required for testing were obtained from in-house cultures. The amphipods were sorted by size on April 30th to obtain the appropriate age/size needed for the sediment tests. The tests were initiated by loading 20 amphipods into each of the test and control beakers. A subsample of 40 amphipods was set aside for length measurements (Appendix A).

Test Water

Overlying water used in the whole-sediment toxicity tests was artificial saltwater (ASW) prepared using deionized water and Instant Ocean sea salts to a salinity of 20 ppt ± 2. The water preparation log can be found in Attachment 4.

Test Systems

L. plumulosus Whole-Sediment 28-Day Toxicity Tests

The amphipod toxicity test procedures are primarily based on recommendations in EPA/COE Inland Testing Manual (ITM) guidance documents (1994a; updated 1998); additional EPA guidance was also consulted (1994b, 2001). Immature amphipods were continuously exposed for 28 days under static-renewal conditions to sediment samples from each site. An artificial control sediment was evaluated similarly to the twelve site sediments. Immature amphipods were exposed in groups of 20 animals in 1L Pyrex glass beakers containing 2-5 cm of sediment and filled with approximately 825 mls overlying laboratory-prepared saltwater, with five beakers per concentration (100 animals per sediment).

The test beakers for each sediment were placed in an environmentally controlled room under the ITM specified test conditions (temperature 25° ± 2°C; photoperiod 16 h light and 8 h dark). After adding amphipods to the test chambers, the chambers were covered with a plastic board to reduce evaporation. The board contained an aeration apparatus and small holes for venting.

All replicates received a change of the overlying water every Monday, Wednesday and Friday until test termination. Beakers were fed 2mls of crushed Tetramin flake three times a week after water renewal. To maintain adequate dissolved oxygen levels in the overlying water during testing, test and control beakers were continuously aerated (single bubble aeration) throughout the 28-day tests. At regular intervals, temperature, dissolved oxygen, pH, and salinity were measured in each sample and control (Appendix B). Samples of overlying water were taken on days 0 and 28 and sent to Phoenix Environmental Laboratories to monitor ammonia levels (Appendix C). Ammonia levels were also monitored on day 2 to ensure they were not above the acceptable range (Appendix A).

At test termination, the contents of each test chamber are sieved to isolate the test organisms. The mesh sizes for sieving the contents of the test chambers are 0.5 – 0.6 mm for adults and 0.25 mm for offspring. The sieved material from the large mesh sieve, which will include the adult amphipods, is rinsed into plexi-glass sorting trays and survival counts are performed. Amphipods and residual sediment retained on the 0.25mm sieve are rinsed into a labeled sample container using 91% isopropyl alcohol and a funnel supported by a ring stand. Approximately 3 ml of rose bengal solution is added to stain the organisms. If any young are observed while counting the adults in the sorting tray, the contents of the sorting tray are sieved again and added to the alcohol preserved container. The preserved young are counted within 2 weeks of test termination.

All live adult amphipods within a replicate were placed in pre-weighed drying pans and kept in a drying oven (100°C) for a minimum of six hours. After six hours, the weigh pans containing the dried amphipods were removed from the drying oven and placed in a desiccator. Amphipods were subsequently reweighed as a group using a 5-place balance. Total dry weight per replicate was then divided by number of amphipods loaded at test initiation (20 per replicate) to obtain an average biomass.

Reference Toxicant Test

An acute reference toxicant test (potassium chloride; KCl) was conducted with the same group of *L. plumulosus* collected for use in the sediment tests. The 96-h survival data were used to calculate an LC_{50} for *L. plumulosus*. The KCl test consisted of six nominal concentrations (125, 250, 500, 1000, 1500, and 2000 mg/L KCl) and a dilution-water control (ASW). The reference toxicant data can be found in Appendix C.

Statistical Analysis

Toxicity data from the amphipod tests were used to determine if the sediment samples exhibited significant effects on survival, growth and reproduction when compared with the test endpoints in laboratory control sediment (EPA, 1993, 1994c). Statistical analyses were run using the Comprehensive Environmental Toxicity Information System (CETIS v1.8.8.0), which uses an automated decision tree based on the EPA's flowchart for statistical analysis. Survival was calculated by the ratio of the number of living adults at test termination out of the initial organism count of 20 at test initiation. Biomass was calculated as the average growth in mg per site divided by the initial organism count of 20 at test initiation. Reproduction was calculated by taking the number of neonates per surviving adult in each replicate, then averaging that across all 5 replicates. Copies of data sheets and statistical summary printouts for the *L. plumulosus* toxicity tests are located in Appendix B.

RESULTS

Leptocheirus plumulosus 28-Day Toxicity Tests

Results of the *L. plumulosus* 28-day screening toxicity tests (test dates: April 30, 2015 – May 28, 2015) are summarized in Tables 2-6. Survival, biomass and reproduction in the site sediment samples GZ-203, GZ-207, GZ-209, GZ-213, GZ-214, GZ-217, GZ-223, GZ-224, GZ-225 were compared with three reference sites LC-102, LC-105, LC-112 and with the laboratory artificial and natural controls.

Survival and biomass of the *L.plumulosus* in the NEB artificial control sediment was 62% and 0.8779 mg, respectively, after 28 days. None of the site or reference sediments exhibited a statically significant decrease in survival or biomass when compared with the artificial control. Average number of young per surviving adult was 1.73, site sediments GZ-213, GZ-217 and GZ-224 had statistically reduced number of young when compared to the artificial control.

Survival of the *L.plumulosus* in the NEB natural control sediment was 71% after 28 days. None of the site or reference sediments exhibited a statistically significant decrease in survival when compared with the natural control. Average biomass was 1.035 mg in the natural control, GZ-217 with a biomass of 0.538, exhibited a significant decrease in biomass compared to the natural control. Average reproduction was 1.352 in the natural control, GZ-217 with reproduction of 0.1511 and GZ-224 with reproduction of 0.1184, exhibited significant decreases in reproduction compared to the natural control.

Survival of the reference site LC-102 was 83% after 28 days. GZ-217, with a survival of 57%, was significantly lower than LC-102. Average biomass was 1.586 mg in LC-102. GZ-217 with a biomass of 0.538, GZ-224 with a biomass of 0.9412 and GZ-225 with a biomass of 1.021 showed a significate reduction compared with LC-102. Average reproduction was 2.366 in LC-102. GZ-213 with reproduction of 0.3294, GZ-214 with reproduction of 0.8542, GZ-217 with reproduction of 0.1511 and GZ-224 with reproduction of 0.1184 showed a significant decrease when compared with LC-102.

Survival of the reference site LC-105 was 87% after 28 days. GZ-217, with a survival of 57%, was significantly lower than LC-105. Average biomass was 1.772 mg in LC-105. LC-112 with a biomass of 1.42, GZ-207 with a biomass of 1.272, GZ-213 with a biomass of 1.167, GZ-217 with a biomass of 0.538, GZ-224 with a biomass of 0.9412 and GZ-225 with a biomass of 1.021 showed a significant reduction in biomass when compared with LC-105. Average reproduction was 1.519 young per surviving adult in LC-105. GZ-217 with reproduction of 0.1511 and GZ-224 with reproduction of 0.1184 showed a significant decrease when compared with LC-105.

Survival of the reference site LC-112 was 85% after 28 days. GZ-217, with a survival of 57%, was significantly lower than LC-112. Average biomass was 1.42 mg in LC-112. GZ-217 with a biomass of 0.538 and GZ-224 with a biomass of 0.9412 showed a significant reduction in biomass when compared with LC-112. Average reproduction was 2.081 young per surviving adult in LC-112. GZ-213 with reproduction of 0.3294, GZ-217 with reproduction of 0.1511 and GZ-224 with reproduction of 0.1184 showed a significant decrease when compared with LC-112.

Amphipods exposed to the artificial and natural control sediment increased in biomass by approximately 13.1-fold and 15.4-fold, respectively, during the 28-day exposure. For the twelve site sediments, biomass increases over initial biomass ranged from 8.03-fold for sample GZ-217 to 26.4-fold for LC-105. Fold change for each sample can be found in Table 7.

TABLE 2
SUMMARY OF TEST RESULTS
28-DAY L.PLUMULOSUS TOXICITY TESTS
WYNN-EVERETT (Test Dates 4/30/15 – 5/28/15)
ARTIFICIAL CONTROL COMPARISION

Sample	28-day Survival (%)		Biomass (mg)		Reproduction (number of young)	
	Mean	Sig[a]	Mean	Sig[a]	Mean[b]	Sig[a]
Artificial Control	62	--	0.8779	--	1.73	--
Natural Control	71	NS	1.035	NS	1.352	NS
LC-102	83	NS	1.586	NS	2.366	NS
LC-105	87	NS	1.772	NS	1.519	NS
LC-112	85	NS	1.42	NS	2.081	NS
GZ-203	77	NS	1.418	NS	1.475	NS
GZ-207	69	NS	1.272	NS	1.183	NS
GZ-209	73	NS	1.473	NS	3.029	NS
GZ-213	82	NS	1.167	NS	0.3294	*
GZ-214	70	NS	1.213	NS	0.8542	NS
GZ-217	57	NS	0.538	NS	0.1511	*
GZ-223	85	NS	1.46	NS	1.613	NS
GZ-224	71	NS	0.9412	NS	0.1184	*
GZ-225	73	NS	1.021	NS	1.357	NS

[a]NS: Not significantly reduced at P = 0.05; *: significant at P = 0.05 when compared with artficial control

[b] Reproduction as the average of [young per rep/surviving adults per rep]

TABLE 3
SUMMARY OF TEST RESULTS
28-DAY L.PLUMULOSUS TOXICITY TESTS
WYNN-EVERETT (Test Dates 4/30/15 – 5/28/15)
NATURAL CONTROL COMPARISION

Sample	28-day Survival (%)		Biomass (mg)		Reproduction (number of young)	
	Mean	Sig[a]	Mean	Sig[a]	Mean[b]	Sig[a]
Natural Control	71	--	1.035	--	1.352	--
Artificial Control	62	NS	0.8779	NS	1.73	NS
LC-102	83	NS	1.586	NS	2.366	NS
LC-105	87	NS	1.772	NS	1.519	NS
LC-112	85	NS	1.42	NS	2.081	NS
GZ-203	77	NS	1.418	NS	1.475	NS
GZ-207	69	NS	1.272	NS	1.183	NS
GZ-209	73	NS	1.473	NS	3.029	NS
GZ-213	82	NS	1.167	NS	0.3294	NS
GZ-214	70	NS	1.213	NS	0.8542	NS
GZ-217	57	NS	0.538	*	0.1511	*
GZ-223	85	NS	1.46	NS	1.613	NS
GZ-224	71	NS	0.9412	NS	0.1184	*
GZ-225	73	NS	1.021	NS	1.357	NS

[a]NS: Not significantly reduced at P = 0.05; *: significant at P = 0.05.
when compared with natural control

[b] Reproduction as the average of [young per rep/surviving adults per rep]

TABLE 4
SUMMARY OF TEST RESULTS
28-DAY L.PLUMULOSUS TOXICITY TESTS
WYNN-EVERETT (Test Dates 4/30/15 – 5/28/15)
LC-102 REFERENCE SITE COMPARISION

Sample	28-day Survival (%)		Biomass (mg)		Reproduction (number of young)	
	Mean	Sig[a]	Mean	Sig[a]	Mean[b]	Sig[a]
LC-102	83	--	1.586	--	2.366	--
Artificial Control	62	*	0.8779	*	1.73	NS
Natural Control	71	NS	1.035	*	1.352	NS
LC-105	87	NS	1.772	NS	1.519	NS
LC-112	85	NS	1.42	NS	2.081	NS
GZ-203	77	NS	1.418	NS	1.475	NS
GZ-207	69	NS	1.272	NS	1.183	NS
GZ-209	73	NS	1.473	NS	3.029	NS
GZ-213	82	NS	1.167	NS	0.3294	*
GZ-214	70	NS	1.213	NS	0.8542	*
GZ-217	57	*	0.538	*	0.1511	*
GZ-223	85	NS	1.46	NS	1.613	NS
GZ-224	71	NS	0.9412	*	0.1184	*
GZ-225	73	NS	1.021	*	1.357	NS

[a]NS: Not significantly reduced at P = 0.05; *: significant at P = 0.05.
when compared with LC-102 reference site

[b] Reproduction as the average of [young per rep/surviving adults per rep]

TABLE 5
SUMMARY OF TEST RESULTS
28-DAY L.PLUMULOSUS TOXICITY TESTS
WYNN-EVERETT (Test Dates 4/30/15 – 5/28/15)
LC-105 REFERENCE SITE COMPARISION

Sample	28-day Survival (%)		Biomass (mg)		Reproduction (number of young)	
	Mean	Sig[a]	Mean	Sig[a]	Mean[b]	Sig[a]
LC-105	87	--	1.772	--	1.519	--
Artificial Control	62	*	0.8779	*	1.73	NS
Natural Control	71	NS	1.035	*	1.352	NS
LC-102	83	NS	1.586	NS	2.366	NS
LC-112	85	NS	1.42	*	2.081	NS
GZ-203	77	NS	1.418	NS	1.475	NS
GZ-207	69	NS	1.272	*	1.183	NS
GZ-209	73	NS	1.473	NS	3.029	NS
GZ-213	82	NS	1.167	*	0.3294	NS
GZ-214	70	NS	1.213	*	0.8542	NS
GZ-217	57	*	0.538	*	0.1511	*
GZ-223	85	NS	1.46	NS	1.613	NS
GZ-224	71	NS	0.9412	*	0.1184	*
GZ-225	73	NS	1.021	*	1.357	NS

[a]NS: Not significantly reduced at P = 0.05; *: significant at P = 0.05.
when compared with LC-105 reference site

[b] Reproduction as the average of [young per rep/surviving adults per rep]

TABLE 6
SUMMARY OF TEST RESULTS
28-DAY L.PLUMULOSUS TOXICITY TESTS
WYNN-EVERETT (Test Dates 4/30/15 – 5/28/15)
LC-112 REFERENCE SITE COMPARISION

Sample	28-day Survival (%)		Biomass (mg)		Reproduction (number of young)	
	Mean	Sig[a]	Mean	Sig[a]	Mean[b]	Sig[a]
LC-112	85	--	1.42	--	2.081	--
Artificial Control	62	*	0.8779	*	1.73	NS
Natural Control	71	NS	1.035	*	1.352	NS
LC-102	83	NS	1.586	NS	2.366	NS
LC-105	87	NS	1.772	NS	1.519	NS
GZ-203	77	NS	1.418	NS	1.475	NS
GZ-207	69	NS	1.272	NS	1.183	NS
GZ-209	73	NS	1.473	NS	3.029	NS
GZ-213	82	NS	1.167	NS	0.3294	*
GZ-214	70	NS	1.213	NS	0.8542	NS
GZ-217	57	*	0.538	*	0.1511	*
GZ-223	85	NS	1.46	NS	1.613	NS
GZ-224	71	NS	0.9412	*	0.1184	*
GZ-225	73	NS	1.021	NS	1.357	NS

[a]NS: Not significantly reduced at P = 0.05; *: significant at P = 0.05.
when compared with LC-112 reference site

[b] Reproduction as the average of [young per rep/surviving adults per rep]

TABLE 7
L.PLUMULOSUS BIOMASS FOLD CHANGE OVER 28-DAYS

Sample	Average Biomass (mg)	Fold Increase over 28-days[a]
Artificial Control	0.8779	13.1
Natural Control	1.035	15.4
LC-102	1.586	23.7
LC-105	1.772	26.4
LC-112	1.42	21.2
GZ-203	1.418	21.2
GZ-207	1.272	19.0
GZ-209	1.473	22.0
GZ-213	1.167	17.4
GZ-214	1.213	18.1
GZ-217	0.538	8.02
GZ-223	1.46	21.8
GZ-224	0.9412	14.0
GZ-225	1.021	15.2

[a]Fold change as Final Average Biomass/Initial Average Biomass. Initial average biomass calculated from a group of 40 surrogates set aside at test initiation from the same group of *L.plumulosus* loaded into the test replicates.

TABLE 8.WATER QUALITY MEASUREMENTS FOR *L.PLUMULOSUS*
28-DAY TOXICITY TESTS
Test Dates: 4/30/15 – 5/28/15

Sample	D.O. (mg/L)	Temperature (°C)	pH (SU)	Salinity (ppt)	Ammonia[a] (mg/L)	TOC[b] (mg/kg)
NEB LAB CONTROL SEDIMENT						
Artificial Control	6.6-7.3	24.2-25.2	7.6-7.9	18-21	0.22-0.23	2,684
Natural Control	5.7-7.3	24.0-25.0	7.6-7.9	18-21	0.20-1.85	4,016
SITE SEDIMENTS						
LC-102	6.2-7.3	24.0-25.0	7.2-8.2	20-21	0.24-0.95	76,630
LC-105	4.5-7.2	24.1-25.1	7.1-8.4	20-21	0.27-1.10	72,860
LC-112	4.2-7.4	24.1-24.9	7.2-8.3	20-21	0.28-0.47	57,480
GZ-203	4.0-7.4	24.1-25.0	7.4-8.3	20-21	0.20-0.82	55,480
GZ-207	4.1-7.5	24.1-24.9	7.4-8.4	20-21	0.20-1.15	59,800
GZ-209	5.2-7.4	24.3-25.1	7.4-8.4	20-21	0.18-1.06	67,070
GZ-213	6.6-7.4	24.4-25.7	7.6-8.1	19-21	0.11-0.84	39,090
GZ-214	5.1-7.5	24.3-25.4	7.5-8.0	18-21	0.11-1.87	46,330
GZ-217	6.6-7.6	24.2-24.9	7.3-7.8	20-21	0.20-0.76	42,940
GZ-223	6.6-7.9	24.3-25.0	7.7-8.3	20-21	0.11-0.75	55,880
GZ-224	6.4-7.8	24.0-25.0	7.6-8.0	20-21	0.09-1.33	33,040
GZ-225	5.0-7.6	24.1-25.1	7.6-8.0	20-21	0.10-0.81	48,350

[a] Ammonia analyzed by Phoenix Environmental Laboratories
[b] TOC taken at test initiation, analyzed by Sterling Analytical Laboratory

Reference Toxicant Testing

The SDS 96-h LC_{50} was estimated for *L. plumulosus* using survival data generated from an acute reference toxicant test with the same cohort of amphipods used in sediment testing (test dates: 4/23/15 – 4/27/15). The 96-h LC_{50} for *L. plumulosus* was estimated at 17.08 mg/L SDS (Spearman method; confidence limits of 15.96 to 18.27 mg/L SDS). Survival of control amphipods was 100% at test completion (96 h). A reference toxicant chart can be found in Appendix C.

CONCLUSION

All three reference sites collected showed a similar performance with survival ranging from 83-87%, biomass ranging from 1.42-1.772 and reproduction ranging from 1.519-2.366. The consistency of the results produced by these three sites gives a good indication of the performance of ambient/naturally occurring sediment located specifically in the geographic area the site samples were taken in Everett, MA. Using these reference sites as a baseline for comparison, site sample GZ-217 showed the most toxicity. GZ-217 showed statistically significant reductions in survival, biomass and reproduction when compared with all three reference sites. GZ-217 was the only site sample that showed a statistically significant reduction in survival when compared with the reference sites. GZ-224 also exhibited toxicity in the sublethal endpoints, having statistically significant reductions in biomass and reproduction when compared with all three reference sites. GZ-207, GZ-213, GZ-214 and GZ-225 showed some moderate toxicity in biomass and reproduction against various reference sites. GZ-203, GZ-209 and GZ-223 were the only three site sediments that showed no reductions in survival, biomass or reproduction when compared with the three site sediments.

CERTIFICATION

I certify that the toxicity test data presented in this report were obtained under my direction or supervision in accordance with protocols of the U.S. Environmental Protection Agency, where applicable. The information is, to the best of my knowledge and belief, true, accurate, and complete.

Kimberly Wills
Laboratory Manager
New England Bioassay

Date

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APPENDIX A

SEDIMENT CHARACTERIZATIONS

PREPARATION OF ARTIFICIAL CONTROL

PORE & OVERLYING WATER CHEMICAL MEASUREMENTS

WATER PREPARATION LOG

INITIAL LENGTH & WEIGHT DATA

DAILY CHECKLISTS

New England Bioassay

Sediment Sample Descriptions and Test Observations

Client: GZA GeoEnvironmental, Inc.

Project: Wynn Casino Site, Everett, MA

Test start date: 4-30-15

LC-102 / C35-1873

At pre-set:
Wet, with standing water at the top of the sample container. Black in color. Fine-grained with a soupy, lose consistency. Leaves present.

Test Observations:
At test initiation, the test organisms behaved normally, entering the sediment and creating small holes visible on the surface. As the test period proceeded, it became more common to see organisms roaming on the surface. The test organisms also appeared to grow, becoming visibly larger than they were at test initiation.

LC-105 / C35-1874

At pre-set:
Wet, with standing water at the top of the sample container. Black in color. Fine-grained with a soupy, lose consistency.

Test Observations:
At test initiation, the test organisms behaved normally, entering the sediment and creating small holes visible on the surface. As the test period proceeded, it became more common to see organisms roaming on the surface. The test organisms also appeared to grow, becoming visibly larger than they were at test initiation.

LC-112 / C35-1875

At pre-set:
Small amount of standing water at the top of the sample container. Dark brown in color. Fine-grained, with clam and mussel shells. Faint odor of petroleum.

Test Observations:
At test initiation, the test organisms behaved normally, entering the sediment and creating small holes visible on the surface. As the test period proceeded, it became more common to see organisms roaming on the surface. The test organisms also appeared to grow, becoming visibly larger than they were at test initiation.

GZ-203 / C35-1876

At pre-set:
Wet, with standing water at the top of the sample container. Black in color. Fine-grained with a soupy, lose consistency. Clam shells present. Faint odor of petroleum.

Test Observations:
At test initiation, the test organisms behaved normally, entering the sediment and creating small holes visible on the surface. As the test period proceeded, it became more common to see organisms roaming on the surface. The test organisms also appeared to grow, becoming visibly larger than they were at test initiation.

GZ-207 / C35-1877

At pre-set:
Wet, with standing water at the top of the sample container. Black in color. Fine-grained with a soupy, but thick consistency. Leaves, razor clam shells and mussel shells present.

Test Observations:
At test initiation, the test organisms behaved normally, entering the sediment and creating small holes visible on the surface. As the test period proceeded, it became more common to see organisms roaming on the surface. The test organisms also appeared to grow, becoming visibly larger than they were at test initiation.

GZ-209 / C35-1878

At pre-set:
Wet, with standing water at the top of the sample container. Black in color. Fine-grained with a soupy, lose consistency. Clam and mussel shells present. Faint odor of petroleum.

Test Observations:
At test initiation, the test organisms behaved normally, entering the sediment and creating small holes visible on the surface. As the test period proceeded, it became more common to see organisms roaming on the surface. The test organisms also appeared to grow, becoming visibly larger than they were at test initiation.

GZ-213 / C35-1879

At pre-set:
Wet, with standing water at the top of the sample container. Very dark gray color. Gritty, but with noticeable chunks of clay. Mussel shells present. Faint odor of petroleum.

Test Observations:
At test initiation, the test organisms behaved normally, entering the sediment and creating small holes visible on the surface. As the test period proceeded, it became more common to see organisms roaming on the surface. The test organisms also appeared to grow, becoming visibly larger than they were at test initiation.

GZ-214 / C35-1880

At pre-set:
Wet, with standing water at the top of the sample container. Dark brown, almost black in color. Fine-grained, but also with sand/grit. One small, intact clam seen. Fishy odor.

Test Observations:
At test initiation, the test organisms behaved normally, entering the sediment and creating small holes visible on the surface. As the test period proceeded, it became more common to see organisms roaming on the surface. The test organisms also appeared to grow, becoming visibly larger than they were at test initiation.

GZ-217 / C35-1881

At pre-set:
Very thick, not as wet looking, with only a slight amount of standing water at the top of the sample container. Gray in color. Odor of petroleum. Fine grained, like clay, but also somewhat gritty.

Test Observations:
This particular sample appeared noticeably different from all others. At test initiation, several test organisms were seen swimming around in the water column, even after 24 hours. Not all test organisms entered the sediment immediately. (For all other samples and control sediments, the test organisms did enter the sediment immediately.) Eventually, the test organisms were no longer as visible, apparently entering the sediment (as shown by the appearance of small holes on the surface). The holes created by the organisms appeared smaller than the holes seen in the other samples and controls. Molted exoskeletons were less frequently observed in the test chambers for this sample.

GZ-223 / C35-1882

At pre-set:
Wet, with standing water at the top of the sample container. Black in color. Fine-grained with a soupy, lose consistency. Snail shells and other shells present. Faint odor of petroleum.

Test Observations:
At test initiation, the test organisms behaved normally, entering the sediment and creating small holes visible on the surface. One large, live, snail was removed from replicate C. A tube-like marine organism was seen in replicate B, although it did not survive until the end of the test period. This organisms was not identified, but was brown/orange in color, sessile, oriented vertically, and somewhat similar in appearance to an anemone. It was approximately 1 cm tall.

GZ-224 / C35-1883

At pre-set:
Wet, with standing water at the top of the sample container. Dark, blackish brown in color. Fine-grained with a soupy, lose consistency. Shell fragments present. Odor of petroleum present.

Test Observations:
At test initiation, the test organisms behaved normally, entering the sediment and creating small holes visible on the surface. At test initiation, the test organisms behaved normally, entering the sediment and creating small holes visible on the surface. As the test period proceeded, it became more common to see organisms roaming on the surface. The test organisms also appeared to grow, becoming visibly larger than they were at test initiation.

GZ-225 / C35-1884

At pre-set:
Wet, with standing water at the top of the sample container. Black in color. Sandy/gritty in consistency, with many small stones, shells, and shell fragments. Odor of petroleum present.

Test Observations:
At test initiation, the test organisms behaved normally, entering the sediment and creating small holes visible on the surface. At test initiation, the test organisms behaved normally, entering the sediment and creating small holes visible on the surface. As the test period proceeded, it became more common to see organisms roaming on the surface. The test organisms also appeared to grow, becoming visibly larger than they were at test initiation.

In Replicate A, a noticeable network of tunnels appeared against the glass within the sediment. These tunnels appeared much more developed than the less-noticeable tubes normally built by the test organisms. At test breakdown, a large, live, marine sand worm (4 – 8 cm, depending on its elongation) was found in this test replicate.

Preparation of Artificial Control Sediment

(Saltwater version for *Leptocheirus plumulosus*)

Client: GZA GeoEnvironmental, Inc.

Project: Wynn, Everett
01.0171521.13 Task 1

Date prepared: 4-29-15

Test pre-set date: 4-29-15

Test setup date: 4-30-15

Ingredients: Natural sand, sterilized natural marine sediment, and redart clay.
Artificial salt water (Instant Ocean™) used to increase pore water salinity.

Clean fine-grain sand was collected from a natural deposit in Salem, CT. Portions of this sand were rinsed through a 300 micron mesh. Also, separate portions were rinsed through a 75 micron mesh. Sand grains small enough to pass through each mesh were placed in separate containers and further rinsed. The rinsed sand was stirred into artificial salt water, to provide the final product with increased pore-water salinity. The sand was allowed to settle, and the excess salt water was decanted.

Natural marine sediment was collected (10-9-14) from the Barn Island Wildlife Management Area in Stonington, CT (and stored cold). A portion of this sediment was sieved (4-24-15), then frozen for 48 hours. It was later defrosted, and sterilized by microwaves in order to remove and/or destroy indigenous organisms. The sterilized sediment was allowed to cool.

Redart clay was obtained from Sheffield Pottery, Inc., in Sheffield, MA.

All ingredients were thoroughly blended together, and re-homogenized before use.

Amounts added:

Natural sand, ≤ 300 µm: 540 (45% by volume)

Natural sand, ≤ 75 µm: 120 ml (10% by volume)

Sterilized natural marine sediment: 480 ml (40% by volume)

Redart clay: 60 ml (5% by volume)

New England Bioassay

28-Day Saltwater Sediment Testing - Additional Chemical Measurements

Client: **GZA GeoEnvironmental, Inc.**

Project: **Wynn - Everett (01.0171521.13 Task 1)**

Test pre-set date: **4-29-15**

Test set-up date: **4-30-15** *(Day 0)*

Pore water chemistry is measured on the test pre-set day.

Pore water salinity & pH: * **(ppt. / S.U.)**

4-29-15

Artificial control:	25 / 7.2	GZ-209:	32 / 7.1
Natural control:	24 / 6.9	GZ-213:	28 / 7.3
LC-102:	31 / 7.4	GZ-214:	24 / 7.2
LC-105:	31 / 7.2	GZ-217:	30 / 6.9
LC-112:	31 / 7.1	GZ-223:	25 / 7.0
GZ-203:	32 / 7.3	GZ-224:	24 / 7.2
GZ-207:	31 / 7.3	GZ-225:	25 / 7.3

Pore water ammonia: * **(mg/L)**

4-29-15 (by salicylate-based color indicator)

Artificial control:	≤ 16	GZ-209:	≤ 16
Natural control:	≤ 16	GZ-213:	≤ 8
LC-102:	≤ 8	GZ-214:	≤ 16
LC-105:	≤ 16	GZ-217:	≤ 4
LC-112:	≤ 4	GZ-223:	≤ 4
GZ-203:	≤ 4	GZ-224:	≤ 8
GZ-207:	≤ 8	GZ-225:	≤ 8

* Free-standing water found in the original sample containers was used to represent "pore water."

Overlying Test Water Ammonia:

In order to determine the ammonia levels within the overlying water of each sediment test, samples of overlying water were collected on days 0 and 28, and sent to Phoenix Environmental Laboratories, Inc., in Manchester, CT.

Additional ammonia measurements were conducted at NEB using a salicylate-based color indicator. This was done to insure that the ammonia levels within the test chambers were not above the acceptable range. Otherwise, water changes would have been performed to reduce these ammonia levels (not found to be necessary in this case). See below:

Total Ammonia: (In **mg/L**, using a salicylate-based color indicator.)

	Day 2	Day 14
Date:	5-2-15	5-14-15
Artificial Control	≤ 1.0	NA
Natural Control	≤ 3.0	↓
LC-102	≤ 3.0	↓
LC-105	≤ 3.0	↓
LC-112	≤ 1.0	↓
GZ-203	≤ 3.0	↓
GZ-207	≤ 3.0	↓

	Day 2	Day 14
Date:	5-2-15	5-14-15
GZ-209	≤ 3.0	NA
GZ-213	≤ 1.0	↓
GZ-214	≤ 6.0	↓
GZ-217	≤ 1.0	↓
GZ-223	≤ 1.0	↓
GZ-224	≤ 3.0	↓
GZ-225	≤ 3.0	↓

Water Preparation for Marine Sediment Testing

Client: GZA GeoEnvironmental, Inc.
Testing start date: 4/30/15

Project: Wynn, Everett (01.0171521.13 Task 1)
Test type: 28-day, whole sediment

Marine sediment
Test species: *Leptocheirus plumulosus*

Preparation	Dates Used	Type	Salinity (ppt.)	pH (S.U.)	Alkalinity (mg/L as $CaCO_3$)
Date: 4-29-15 Volume: 190 L Salt 4351 g	started: 4-29-15 last used: 5-8-15	D.I. w/ Instant Ocean™	18	7.8	85
Date: 5-11-15 Volume: 190 L Mass: 4700 g	started: 5-11-15 Last used: 5-25-15	D.I. w/ Instant Ocean™	19	7.8	85
Date: 5-26-15 Volume: 18 L Mass: 414 g	started: 5-27-15 (last water renewal was 5-27-15)	D.I. w/ Instant Ocean™	20	8.2	90
Date: Volume: L Mass: g		D.I. w/ Instant Ocean™			
Date: Volume: L Mass: g		D.I. w/ Instant Ocean™			
Date: Volume: L Mass: g		D.I. w/ Instant Ocean™			
Date: Volume: L Mass: g		D.I. w/ Instant Ocean™			
Date: Volume: L Mass: g		D.I. w/ Instant Ocean™			
Date: Volume: L Mass: g		D.I. w/ Instant Ocean™			
Date: Volume: L Mass: g		D.I. w/ Instant Ocean™			

Initial Length and Weight Data - *Leptocheirus plumulosus*

Client: GZA GeoEnvironmental, Inc.

Project: Wynn - Everett (01.0171521.13 Task 1)

Organism Lot #: Lp15 (4-30) MC

Source: NEB

Date sampled / preserved: 4-30-15

Date of length measurement: 5-1-15

Four groups of ten organisms, selected randomly:

Length (mm):

	A	B	C	D
	1.5	1.2	1.9	1.2
	1.7	1.5	1.1	1.1
	1.9	1.3	1.7	1.1
	1.0	1.5	1.2	1.0
	1.8	2.1	1.4	1.4
	1.6	1.7	1.2	0.9
	1.3	1.8	0.9	1.4
	1.2	1.0	1.0	1.0
	2.0	1.4	1.2	1.1
	1.0	1.7	1.0	1.0
Mean Length:	1.5 mm	1.52 mm	1.26 mm	1.12 mm

Dry Weight:

	A	B	C	D
Pan + organisms:	931.29 mg	932.80 mg	929.98 mg	927.01 mg
- Pan (tare):	930.53 mg	931.71 mg	929.49 mg	926.67 mg
= organism weight	0.76 mg	1.09 mg	0.49 mg	0.34 mg
Qty. org. per pan:	10	10	10	10
Mean Weight:	0.076 mg	0.109 mg	0.049 mg	0.034 mg

Reviewed by: _____ Date: 6/16/15

New England Bioassay

DAILY CHECKLIST

28-DAY WHOLE SEDIMENT TOXICITY TESTS

Test Species: *Leptocheirus plumulosus*

CLIENT: GZA GeoEnvironmental, Inc.

PROJECT: Wynn Everett

PROJECT # 01.0171521.13 Task 1

TEST START DATE 4/30/15

TEST END DATE: 5/28/15

PRESET DATE: 4/29/15

PLACE CHECK MARK AFTER COMPLETE TASK (✓)

TEST DATE	TECH INITIALS	FEEDING	CHECK AERATION (ALL REPLICATES)
START DAY 0 4/30/15	LC	—	✓
DAY 1 5/1/15	LC	✓	✓
DAY 2 5/2/15	MV	—	✓
DAY 3 5/3/15	LC	—	✓
DAY 4 5/4/15	AH	✓	✓
DAY 5 5/5/15	AH	—	✓
DAY 6 5/6/15	AH	✓	✓
DAY 7 5/7/15	SJP	—	✓
DAY 8 5/8/15	AH	✓	✓
DAY 9 5/9/15		—	
DAY 10 5/10/15	SJP	—	✓
DAY 11 5/11/15	AH	✓	✓
DAY 12 5/12/15	AH	—	✓
DAY 13 5/13/15	LC	✓	✓
DAY 14 5/14/15	LC	—	✓

DAILY CHECKLIST

28-DAY WHOLE SEDIMENT TOXICITY TESTS

Test Species: *Leptocheirus plumulosus*

CLIENT: GZA GeoEnvironmental, Inc.

PROJECT: Wynn Everett PROJECT # 01.0171521.13 Task 1

TEST START DATE 4/30/15 TEST END DATE: 5/28/15

PRESET DATE: 4/29/15

PLACE CHECK MARK AFTER COMPLETE TASK (✓)

TEST DATE	TECH INITIALS	FEEDING	CHECK AERATION (ALL REPLICATES)
DAY 15 5/15/15	SJP	✓	✓
DAY 16 5/16/15	KO	—	✓
DAY 17 5/17/15	AH	—	✓
DAY 18 5/18/15	AH	✓	✓
DAY 19 5/19/15	AH	—	✓
DAY 20 5/20/15	AH	✓	✓
DAY 21 5/21/15	LC	—	✓
DAY 22 5/22/15	LC	✓	✓
DAY 23 5/23/15	MV	—	✓
DAY 24 5/24/15	SJP	—	✓
DAY 25 5/25/15	LC/DLS	—(✓)	✓
DAY 26 5/26/15	AH	—	✓
DAY 27 5/27/15	LC	✓	✓
END DAY 28 5/28/15	LC	—	✓

APPENDIX B

28-DAY TOXICITY DATA SHEETS

STATISTICAL ANALYSES PRINTOUTS

New England Bioassay - *Sediment Toxicity Data*

Sample ID: **Artificial Control Sediment (Lab prepared)**

Start date / time: 4/30/15 / 1715

End date / time: 5/28/15 / 1420

Client / Source: **GZA GeoEnvironmental, Inc. / Wynn Everett (01.0171521.13 Task 1)**

Description / I.D. #'s: Saltwater Control Sediment NEB COC #: C35-1871

Technicians: LC, AH, MG, SJP

Test organism: *Leptocheirus plumulosus*

Org. lot #: Lp15 (4-30) MC

Overlying salt water: (see attached)

Quantity of organisms added per replicate: 20

Source: NEB

Day	Temp. (°C)	Salinity (ppt.) Rep	A	B	C	D	E	Dissolved Oxygen (mg/L)	A	B	C	D	E	pH (S.U.)	A	B	C	D	E	Water Renewal (appx. %)
0	24.8	0	18	18	18	18	18	0	6.8	7.1	6.6	6.6	7.0	0	7.8	7.7	7.7	7.7	7.7	0	40%
1	24.6	1	20	20	20	20	20	1	7.0					1	7.7					1	40%
2	24.6	2						2						2						2	
3	24.8	3						3						3						3	
4	24.7	4	20					4	7.2					4	7.7					4	40%
5	24.7	5						5						5						5	
6	24.6	6	20					6	7.3					6	7.9					6	40%
7	24.6	7						7						7						7	
8	24.9	8	20					8	7.0					8	7.8					8	40%
9	24.8	9						9						9						9	
10	25.1	10						10						10						10	
11	25.2	11	20					11	6.9					11	7.8					11	40%
12	25.1	12						12						12						12	
13	24.5	13	20					13	7.2					13	7.9					13	40%
14	24.4	14						14						14						14	

New England Bioassay - *Sediment Toxicity Data*

Sample ID: **Artificial Control Sediment (Lab prepared)**

Page 2

Start date: 4/30/15

Client / Source: **GZA GeoEnvironmental, Inc. / Wynn Everett (01.0171521.13 Task 1)**

Page 2 entries started: 5/15/15

Description / I.D. #'s: Saltwater Control Sediment NEB COC #: C35-1871

End date / Time: 5/28/15 / 1420

Day	Temp. (°C)	Salinity (ppt.) (Add D.I. to maintain volume & salinity.) Rep: A	B	C	D	E	Dissolved Oxygen (mg/L) A	B	C	D	E	pH (S.U.) A	B	C	D	E	Water Renewal (appx. %)
15	24.5	20					6.6					7.7					40
16	24.9																
17	25.1																
18	25.0	20					6.9					7.7					40
19	24.9																
20	24.6	20					7.0					7.7					40
21	24.2																
22	24.3	21					7.0					7.9					40
23	24.6																
24	24.5																
25	24.5	20					7.2					7.9					40
26	24.4																
27	24.7	21					6.9					7.8					40
28	24.9	20	20	20	20	20	6.7	7.0	7.0	7.0	6.8	7.7	7.6	7.7	7.7	7.6	

Day 28 Survival: (Qty per Replicate)	A	B	C	D	E	Overall Survival:	%
	11	11	11	14	15	62	

New England Bioassay - *Sediment Toxicity Data*

Sample ID: **Natural Control Sediment**

Start date / time: 4/30/15 / 1715

End date / time: 5/28/15 / 1440

Client / Source: **GZA GeoEnvironmental, Inc. / Wynn Everett (01.0171521.13 Task 1)**

Description / I.D. #'s: Saltwater Control Sediment NEB COC #: C35-1872

Technicians: LC, AH, MG, SJP

Test organism: *Leptocheirus plumulosus*

Org. lot #: Lp 15 (4-30) MC

Overlying salt water: (see attached)

Quantity of organisms added per replicate: 20

Source: NEB

Day	Temp. (°C)	Salinity (ppt.) (Add D.I. to maintain volume & salinity.) Rep: A	B	C	D	E	Dissolved Oxygen (mg/L) A	B	C	D	E	pH (S.U.) A	B	C	D	E	Water Renewal (appx. %)
0	24.6	18	18	18	18	18	5.9	5.7	6.2	6.2	6.3	7.6	7.6	7.6	7.6	7.6	40 %
1	24.5	20	20	20	20	20	6.2					7.7					40 %
2	24.5																
3	24.6																
4	24.6	20					6.2					7.7					40 %
5	24.6																
6	24.5	20					7.3					7.9					40 %
7	24.5																
8	24.8	20					7.1					7.8					40 %
9	24.6																
10	25.0																
11	25.0	20					7.0					7.8					40 %
12	25.0																
13	24.5	19					7.2					7.9					40 %
14	24.4																

New England Bioassay - *Sediment Toxicity Data*

Sample ID: **Natural Control Sediment**

Page 2

Start date: 4/30/15

Client / Source: **GZA GeoEnvironmental, Inc. / Wynn Everett (01.0171521.13 Task 1)**

Page 2 entries started: 5/15/15

Description / I.D. #'s: Saltwater Control Sediment NEB COC #: C35-1872

End date / Time: 5/28/15 / 1440

Day	Temp. (°C)	Salinity (ppt.) (Add D.I. to maintain volume & salinity.) Rep: A	B	C	D	E	Dissolved Oxygen (mg/L) A	B	C	D	E	pH (S.U.) A	B	C	D	E	Water Renewal (appx. %)
15	24.4	20					6.9					7.7					40
16	24.7																
17	24.9																
18	24.9	20					6.7					7.7					40
19	24.8																
20	24.0	20					6.9					7.7					40
21	24.1																
22	24.2	21					7.0					7.9					40
23	24.4																
24	24.3																
25	24.5	20					7.1					7.9					40
26	24.4																
27	24.7	21					7.0					7.9					40
28	24.9	20	20	20	20	20	6.6	7.0	7.0	7.2	7.1	7.7	7.7	7.7	7.7	7.7	

Day 28 Survival: (Qty per Replicate)

A	B	C	D	E
13	18	14	12	14

Overall Survival: 71 %

New England Bioassay - *Sediment Toxicity Data*

Sample ID: **LC-102**

Start date / time: 4/30/15 / 1715

End date / time: 5/28/15 / 1510

Client / Source: **GZA GeoEnvironmental, Inc. / Wynn Everett (01.0171521.13 Task 1)**

Description / I.D. #'s: LC-102 NEB COC #: C35-1873

Technicians: LC, AH, MG, SJB

Test organism: *Leptocheirus plumulosus*

Org. lot #: Lp15(4-30)

Overlying salt water: (see attached)

Quantity of organisms added per replicate: 20

Source: NEB

Day	Temp. (°C)	Salinity (ppt.) (Add D.I. to maintain volume & salinity.) Rep: A	B	C	D	E	Dissolved Oxygen (mg/L) A	B	C	D	E	pH (S.U.) A	B	C	D	E	Water Renewal (appx. %)
0	24.6	20	20	20	20	20	6.5	6.4	6.5	6.2	6.3	7.9	7.9	7.9	7.9	7.9	40%
1	24.4	20	20	20	20	20	6.6					7.9					40%
2	24.5																
3	24.5																
4	24.6	20					7.1					8.0					40%
5	24.6																
6	24.6	20					7.3					8.2					40%
7	24.5																
8	24.7	20					7.1					7.9					40%
9	24.6																
10	24.9																
11	24.9	20					7.0					7.7					40%
12	25.0																
13	24.5	20					7.3					7.7					40%
14	24.4																

New England Bioassay - *Sediment Toxicity Data*

Sample ID: **LC-102**

Page 2

Start date: 4/30/15

Client / Source: **GZA GeoEnvironmental, Inc. / Wynn Everett (01.0171521.13 Task 1)**

Page 2 entries started: 5/15/15

Description / I.D. #'s: LC-102 NEB COC #: C35-1873

End date / Time: 5/28/15 / 1510

Day	Temp. (°C)	Salinity (ppt.) (Add D.I. to maintain volume & salinity.) Rep: A	B	C	D	E	Dissolved Oxygen (mg/L) A	B	C	D	E	pH (S.U.) A	B	C	D	E	Water Renewal (appx. %)
15	24.4	20					6.8					7.5					40
16	24.7																
17	24.9																
18	24.9	20					6.8					7.5					40
19	24.9																
20	24.9	20					6.9					7.5					40
21	24.0																
22	24.2	21					7.1					7.7					40
23	24.2																
24	24.3																
25	24.5	20					7.1					7.6					40
26	24.4																
27	24.8	20					7.0					7.6					40
28	24.8	20	20	20	20	20	6.3	6.2	6.6	6.6	6.7	7.2	7.3	7.3	7.3	7.3	

Day 28 Survival: (Qty per Replicate)	A	B	C	D	E
	18	20	11	19	15

Overall Survival: 83 %

New England Bioassay - *Sediment Toxicity Data*

Sample ID: **LC-105**

Start date / time: 4/30/15 / 1715

End date / time: 5/28/15 / 1545

Client / Source: **GZA GeoEnvironmental, Inc. / Wynn Everett (01.0171521.13 Task 1)**

Description / I.D. #'s: LC-105 NEB COC #: C35-1874

Technicians: LC, MG, AH, SSP

Test organism: *Leptocheirus plumulosus*

Org. lot #: Lp15(4-30)MC

Overlying salt water: (see attached)

Quantity of organisms added per replicate: 20

Source: NEB

Day	Temp. (°C)	Salinity (ppt.) Rep	A	B	C	D	E	Dissolved Oxygen (mg/L)	A	B	C	D	E	pH (S.U.)	A	B	C	D	E	Water Renewal (appx. %)
0	24.6	0	20	20	20	20	20	0	6.5	6.6	6.6	6.6	6.5	0	7.9	7.9	7.9	7.9	7.9	0	40%
1	24.4	1	21	21	21	21	21	1	6.8					1	7.8					1	40%
2	24.4	2						2						2						2	
3	24.4	3						3						3						3	
4	24.6	4	20					4	7.2					4	8.1					4	40%
5	24.5	5						5						5						5	
6	24.5	6	20					6	7.2					6	8.4					6	40%
7	24.4	7						7						7						7	
8	24.7	8	20					8	6.9					8	8.2					8	40%
9	24.6	9						9						9						9	
10	24.9	10						10						10						10	
11	25.1	11	20					11	7.1					11	8.0					11	40%
12	24.8	12						12						12						12	
13	24.3	13	20					13	7.1					13	7.9					13	40%
14	24.2	14						14						14						14	

New England Bioassay - *Sediment Toxicity Data*

Sample ID: **LC-105**

Page 2

Start date: 4/30/15

Client / Source: **GZA GeoEnvironmental, Inc. / Wynn Everett (01.0171521.13 Task 1)**

Page 2 entries started: 5/15/15

Description / I.D. #'s: LC-105 NEB COC #: C35-1874

End date / Time: 5/28/15 / 1545

Day	Temp. (°C)	Salinity (ppt.) (Add D.I. to maintain volume & salinity.) Rep: A	B	C	D	E	Dissolved Oxygen (mg/L) A	B	C	D	E	pH (S.U.) A	B	C	D	E	Water Renewal (appx. %)
15	24.2	20					6.9					7.7					40
16	24.6																
17	24.8																
18	24.8	20					6.7					7.7					40
19	24.6																
20	24.4	21					7.0					7.7					40
21	24.1																
22	24.1	21					7.1					7.8					40
23	24.1																
24	24.2																
25	24.4	20					7.0					7.7					40
26	24.3																
27	24.5	20					7.1					7.6					40
28	24.8	20	20	20	20	20	4.5	5.2	5.5	5.6	5.5	7.1	7.4	7.3	7.4	7.4	

Day 28 Survival: (Qty per Replicate)	A	B	C	D	E	**Overall Survival:**	%
	19	18	16	17	17	87	

New England Bioassay - *Sediment Toxicity Data*

Sample ID: **LC-112**

Start date / time: 4/30/15 / 1715

End date / time: 5/28/15 / 1605

Client / Source: **GZA GeoEnvironmental, Inc. / Wynn Everett (01.0171521.13 Task 1)**

Description / I.D. #'s: LC-112 NEB COC #: C35-1875

Technicians: CC, AH, MG, SJP

Test organism: *Leptocheirus plumulosus*

Org. lot #: Lp15 (4-30) MC

Overlying salt water: (see attached)

Quantity of organisms added per replicate: 20

Source: NEB

Day	Temp. (°C)	Salinity (ppt.) Rep: A	B	C	D	E	Dissolved Oxygen (mg/L) A	B	C	D	E	pH (S.U.) A	B	C	D	E	Water Renewal (appx. %)
0	24.5	20	20	20	20	20	6.7	6.9	7.1	7.1	4.2 Ⓐ	7.9	7.9	7.9	7.9	7.9	40%
1	24.3	20	20	20	20	20	7.0					7.9					40%
2	24.3																
3	24.3																
4	24.4	20					7.3					8.0					40%
5	24.4																
6	24.3	20					7.1					8.3					40%
7	24.3																
8	24.4	20					7.1					8.1					40%
9	24.5																
10	24.8																
11	24.9	20					6.9					8.0					40%
12	24.9																
13	24.3	20					7.4					8.1					40%
14	24.2																

Ⓐ aeration increased, Rep E, Day 0. LC

New England Bioassay - *Sediment Toxicity Data*

Sample ID: **LC-112**

Page 2

Start date: 4/30/15

Client / Source: **GZA GeoEnvironmental, Inc. / Wynn Everett (01.0171521.13 Task 1)**

Page 2 entries started: 5/15/15

Description / I.D. #'s: LC-112 NEB COC #: C35-1875

End date / Time: 5/28/15 / 1605

Day	Temp. (°C)	Salinity (ppt.) (Add D.I. to maintain volume & salinity.) Rep: A	B	C	D	E	Dissolved Oxygen (mg/L) A	B	C	D	E	pH (S.U.) A	B	C	D	E	Water Renewal (appx. %)
15	24.2	20					6.9					7.8					40
16	24.4																
17	24.7																
18	24.7	20					6.8					7.8					40
19	24.7																
20	24.4	20					7.0					7.8					40
21	24.1																
22	24.2	21					7.3					7.9					40
23	24.2																
24	24.2																
25	24.3	20					7.1					7.8					40
26	24.3																
27	24.5	21					7.1					7.7					40
28	24.7	20	20	20	20	20	4.7	6.6	6.6	6.7	6.7	7.2	7.5	7.5	7.5	7.6	

Day 28 Survival: (Qty per Replicate)

A	B	C	D	E
16	18	17	17	17

Overall Survival: 85 %

New England Bioassay - *Sediment Toxicity Data*

Sample ID: **GZ-203**

Start date / time: 4/30/15 / 1715

End date / time: 5/28/15 / 1630

Client / Source: **GZA GeoEnvironmental, Inc. / Wynn Everett (01.0171521.13 Task 1)**

Description / I.D. #'s: GZ-203 NEB COC #: C35-1876

Technicians: LC, AH, MG, SJP

Test organism: *Leptocheirus plumulosus*

Org. lot #: Lp15(4-30)MC

Overlying salt water: (see attached)

Quantity of organisms added per replicate: 20

Source: NEB

Day	Temp. (°C)	Salinity (ppt.) (Add D.I. to maintain volume & salinity.) Rep: A	B	C	D	E	Dissolved Oxygen (mg/L) A	B	C	D	E	pH (S.U.) A	B	C	D	E	Water Renewal (appx. %)
0	24.6	20	20	20	20	20	4.0	4.1	4.1	4.2	4.4 (A)	7.9	7.9	7.9	7.9	7.9	40%
1	24.4	20	20	20	20	20	7.1					7.8					40%
2	24.3																
3	24.4																
4	24.5	20					6.9					8.0					40%
5	24.5																
6	24.4	20					7.3					8.3					40%
7	24.3																
8	24.5	20					7.0					8.1					40%
9	24.6																
10	24.8																
11	24.9	20					6.8					8.0					40%
12	24.9																
13	24.4	20					7.4					8.0					40%
14	24.3																

(A) aeration increased, Day 0, LC.

New England Bioassay - *Sediment Toxicity Data*

Sample ID: **GZ-203**

Start date: 4/30/15

Client / Source: **GZA GeoEnvironmental, Inc. / Wynn Everett (01.0171521.13 Task 1)**

Page 2 entries started: 5/15/15

Description / I.D. #'s: GZ-203 NEB COC #: C35-1876

End date / Time: 5/28/15 / 1630

Day	Temp. (°C)	Salinity (ppt.) (Add D.I. to maintain volume & salinity.) Rep: A	B	C	D	E	Dissolved Oxygen (mg/L) A	B	C	D	E	pH (S.U.) A	B	C	D	E	Water Renewal (appx. %)
15	24.2	20					6.8					7.8					40
16	24.6																
17	25.0																
18	24.9	20					7.1					7.8					40
19	24.8																
20	24.5	20					7.1					7.8					40
21	24.1																
22	24.3	21					7.3					7.9					40
23	24.2																
24	24.1																
25	24.3	20					7.0					7.8					40
26	24.3																
27	24.6	21					7.0					7.7					40
28	24.7	20	20	20	20	20	4.6	5.5	5.6	5.6	5.6	7.4	7.4	7.5	7.5	7.5	

Day 28 Survival: (Qty per Replicate)	A	B	C	D	E	Overall Survival:	%
	17	16	17	12	15	77	

New England Bioassay - *Sediment Toxicity Data*

Sample ID: **GZ-207**

Start date / time: 4/30/15 / 1715

End date / time: 5/28/15 / 1650

Client / Source: **GZA GeoEnvironmental, Inc. / Wynn Everett (01.0171521.13 Task 1)**

Description / I.D. #'s: GZ-207 NEB COC #: C35-1877

Technicians: LC, AH, MG, SSP

Test organism: *Leptocheirus plumulosus*

Org. lot #: Lp15(4-30)MC

Overlying salt water: (see attached)

Quantity of organisms added per replicate: 20

Source: NEB

Day	Temp. (°C)	Salinity (ppt.) (Add D.I. to maintain volume & salinity.) Rep: A	B	C	D	E	Dissolved Oxygen (mg/L) A	B	C	D	E	pH (S.U.) A	B	C	D	E	Water Renewal (appx. %)
0	24.2	20	20	20	20	20	4.1	4.1	4.1	4.1	4.2 (A)	7.9	7.9	7.9	7.9	7.9	40%
1	24.5	21	20	21	21	21	7.0					7.7					40%
2	24.4																
3	24.5																
4	24.7	20					7.4					8.1					40%
5	24.7																
6	24.5	20					7.3					8.4					40%
7	24.5																
8	24.5	20					7.0					8.1					40%
9	24.6																
10	24.9																
11	24.9	20					6.9					8.0					40%
12	24.9																
13	24.3	20					7.5					8.0					40%
14	24.4																

(A) aeration increased, Day 0, LC.

New England Bioassay - *Sediment Toxicity Data*

Sample ID: **GZ-207**

Page 2

Start date: 4/30/15

Client / Source: **GZA GeoEnvironmental, Inc. / Wynn Everett (01.0171521.13 Task 1)**

Page 2 entries started: 5/15/15

Description / I.D. #'s: GZ-207 NEB COC #: C35-1877

End date / Time: 5/28/15 / 1650

Day	Temp. (°C)	Salinity (ppt.) (Add D.I. to maintain volume & salinity.) Rep: A	B	C	D	E	Dissolved Oxygen (mg/L) A	B	C	D	E	pH (S.U.) A	B	C	D	E	Water Renewal (appx. %)
15	24.3	20					6.9					7.8					40
16	24.7																
17	24.9																
18	24.9	20					6.8					7.8					40
19	24.8																
20	24.5	21					7.1					7.8					40
21	24.1																
22	24.4	21					7.3					7.9					40
23	24.2																
24	24.2																
25	24.4	20					7.3					7.8					40
26	24.3																
27	24.4	20					7.0					7.8					40
28	24.8	20	20	20	20	20	4.4	5.1	5.3	5.7	5.4	7.4	7.6	7.6	7.6	7.6	

Day 28 Survival: (Qty per Replicate)	A	B	C	D	E
	15	12	15	14	13

Overall Survival: 69 %

New England Bioassay - *Sediment Toxicity Data*

Sample ID: **GZ-209**

Start date / time: 4/30/15 / 1715

End date / time: 5/28/15 / 1716

Client / Source: **GZA GeoEnvironmental, Inc. / Wynn Everett (01.0171521.13 Task 1)**

Description / I.D. #'s: GZ-209 NEB COC #: C35-1878

Technicians: LC, AH, MG, SJP

Test organism: *Leptocheirus plumulosus*

Org. lot #: Lp15 (4-30) MC

Overlying salt water: (see attached)

Quantity of organisms added per replicate: 20

Source: NEB

Day	Temp. (°C)	Rep	Salinity (ppt.) (Add D.I. to maintain volume & salinity.) A	B	C	D	E	Dissolved Oxygen (mg/L) A	B	C	D	E	pH (S.U.) A	B	C	D	E	Water Renewal (appx. %)
0	24.4	0	20	20	20	20	20	7.1	7.4	6.6	6.9	6.7	7.9	7.9	7.9	7.9		40%
1	25.0	1	21	21	21	21	21	7.4					7.9					40%
2	24.9	2																
3	24.6	3																
4	25.1	4	20					7.4					8.1					40%
5	24.7	5																
6	24.6	6	20					7.2					8.4					40%
7	24.9	7																
8	24.7	8	20					7.0					8.1					40%
9	24.8	9																
10	24.9	10																
11	25.0	11	20					6.8					7.9					40%
12	25.0	12																
13	24.4	13	20					7.2					7.9					40%
14	24.7	14																

New England Bioassay - *Sediment Toxicity Data*

Sample ID: **GZ-209**

Page 2

Start date: 4/30/15

Client / Source: **GZA GeoEnvironmental, Inc. / Wynn Everett (01.0171521.13 Task 1)**

Page 2 entries started: 5/15/15

Description / I.D. #'s: GZ-209 NEB COC #: C35-1878

End date / Time: 5/28/15 / 1710

Day	Temp. (°C)	Salinity (ppt.) (Add D.I. to maintain volume & salinity.) Rep: A	B	C	D	E	Dissolved Oxygen (mg/L) A	B	C	D	E	pH (S.U.) A	B	C	D	E	Water Renewal (appx. %)
15	24.8	21					6.9					7.6					40
16	24.7																
17	25.0																
18	24.9	20					6.8					7.6					40%
19	24.8																
20	24.6	21					7.2					7.6					40
21	24.3																
22	24.4	21					7.3					7.7					40
23	24.3																
24	24.4																
25	24.5	20					7.0					7.7					40
26	24.4																
27	24.5	20					7.0					7.8					40
28	24.8	20	20	20	20	20	5.6	5.2	5.4	5.6	5.7	7.4	7.5	7.6	7.6	7.6	

Day 28 Survival: (Qty per Replicate)	A	B	C	D	E
	19	12	15	13	14

Overall Survival: 73 %

New England Bioassay - *Sediment Toxicity Data*

Sample ID: **GZ-213**

Start date / time: 4/30/15 / 1715

End date / time: 5/28/15 / 1725

Client / Source: **GZA GeoEnvironmental, Inc. / Wynn Everett (01.0171521.13 Task 1)**

Description / I.D. #'s: GZ-213 NEB COC #: C35-1879

Technicians: LC, AH, MG, STP

Test organism: *Leptocheirus plumulosus*

Org. lot #: Lp15 (4-30) MC

Overlying salt water: (see attached)

Quantity of organisms added per replicate: 20

Source: NEB

Day	Temp. (°C)	Salinity (ppt.) (Add D.I. to maintain volume & salinity.) Rep: A	B	C	D	E	Dissolved Oxygen (mg/L) A	B	C	D	E	pH (S.U.) A	B	C	D	E	Water Renewal (appx. %)
0	25.0	20	20	20	19	19	7.0	7.0	6.9	6.7	6.8	7.8	7.9	7.9	7.9	7.9	40%
1	25.5	21	21	21	21	21	6.9					7.9					40%
2	25.6																
3	25.1																
4	25.2	20					7.4					7.9					40%
5	24.8																
6	24.6	20					7.3					8.0					40%
7	25.2																
8	25.1	20					7.2					7.9					40%
9	25.0																
10	25.0																
11	25.0	20					6.9					8.0					40%
12	24.9																
13	24.6	20					7.3					8.1					40%
14	25.1																

New England Bioassay - *Sediment Toxicity Data*

Sample ID: **GZ-213**

Page 2

Start date: 4/30/15

Client / Source: **GZA GeoEnvironmental, Inc. / Wynn Everett (01.0171521.13 Task 1)**

Page 2 entries started: 5/15/15

Description / I.D. #'s: GZ-213 NEB COC #: C35-1879

End date / Time: 5/28/15 / 1725

Day	Temp. (°C)	Salinity (ppt.) (Add D.I. to maintain volume & salinity.) Rep: A	B	C	D	E	Dissolved Oxygen (mg/L) A	B	C	D	E	pH (S.U.) A	B	C	D	E	Water Renewal (appx. %)
15	25.7	20					6.9					7.9					40
16	25.0																
17	25.1																
18	25.0	20					6.9					8.0					40%
19	24.8																
20	24.9	20					7.2					7.9					40
21	24.4																
22	24.5	21					7.2					8.0					40
23	24.4																
24	25.0																
25	24.6	20					7.0					8.0					40
26	24.7																
27	24.6	20					7.1					8.0					40
28	24.8	20	20	20	20	20	6.6	6.7	6.7	6.7	6.7	7.6	7.7	7.7	7.8	7.7	

	A	B	C	D	E
Day 28 Survival: (Qty per Replicate)	18	17	14	17	16

Overall Survival: 82 %

New England Bioassay - *Sediment Toxicity Data*

Sample ID: **GZ-214**

Start date / time: 4/30/15 / 1715

End date / time: 5/28/15 / 1740

Client / Source: **GZA GeoEnvironmental, Inc. / Wynn Everett (01.0171521.13 Task 1)**

Description / I.D. #'s: GZ-214 NEB COC #: C35-1880

Technicians: LC, AH, MG, SJP

Test organism: *Leptocheirus plumulosus*

Org. lot #: Lp 15 (4-30) MC

Overlying salt water: (see attached)

Quantity of organisms added per replicate: 20

Source: NEB

Day	Temp. (°C)	Salinity (ppt.) (Add D.I. to maintain volume & salinity.) Rep: A	B	C	D	E	Dissolved Oxygen (mg/L) A	B	C	D	E	pH (S.U.) A	B	C	D	E	Water Renewal (appx. %)
0	25.0	18	18	18	18	18	6.6	6.3	6.8	6.3	6.0	7.9	7.9	7.9	7.9	7.9	40%
1	25.2	21	21	22	21	21	7.1					7.9					40%
2	25.4																
3	24.9																
4	25.4	20					7.5					7.9					40%
5	24.7																
6	24.6	20					7.4					8.0					40%
7	25.2																
8	24.9	20					7.1					7.9					40%
9	24.8																
10	24.9																
11	24.9	20					6.9					7.9					40%
12	24.8																
13	24.3	20					7.4					7.9					40%
14	24.8																

New England Bioassay - *Sediment Toxicity Data*

Sample ID: **GZ-214**

Page 2

Start date: 4/30/15

Client / Source: **GZA GeoEnvironmental, Inc. / Wynn Everett (01.0171521.13 Task 1)**

Page 2 entries started: 5/15/15

Description / I.D. #'s: GZ-214 NEB COC #: C35-1880

End date / Time: 5/28/15 / 1740

Day	Temp. (°C)	Salinity (ppt.) (Add D.I. to maintain volume & salinity.) Rep: A	B	C	D	E	Dissolved Oxygen (mg/L) A	B	C	D	E	pH (S.U.) A	B	C	D	E	Water Renewal (appx. %)
15	25.4	20					7.1					7.8					40
16	24.8																
17	25.1																
18	24.9	20					6.9					7.8					40
19	24.7																
20	24.7	20					7.2					7.8					40
21	24.4																
22	24.3	21					7.0					7.9					40
23	24.4																
24	24.9																
25	24.4	20					7.1					7.9					40
26	24.6																
27	24.6	21					7.1					7.8					40
28	24.8	20	20	20	20	20	5.1	6.3	6.2	6.4	6.6	7.5	7.6	7.6	7.6	7.7	

Day 28 Survival: (Qty per Replicate)	A	B	C	D	E	**Overall Survival:**	%
	12	16	16	15	11	70	

New England Bioassay - *Sediment Toxicity Data*

Sample ID: **GZ-217**

Start date / time: 4/30/15 / 1715

End date / time: 5/28/15 / 1800

Client / Source: **GZA GeoEnvironmental, Inc. / Wynn Everett (01.0171521.13 Task 1)**

Description / I.D. #'s: GZ-217 NEB COC #: C35-1881

Technicians: LC, AH, MG, SJP

Test organism: *Leptocheirus plumulosus*

Org. lot #: Lp 15 (4-30) MC

Overlying salt water: (see attached)

Quantity of organisms added per replicate: 20

Source: NEB

Day	Temp. (°C)	Salinity (ppt.) (Add D.I. to maintain volume & salinity.) Rep: A	B	C	D	E	Dissolved Oxygen (mg/L) A	B	C	D	E	pH (S.U.) A	B	C	D	E	Water Renewal (appx. %)
0	24.6	20	20	20	20	20	7.2	6.9	7.2	6.9	6.6	7.8	7.8	7.8	7.8	7.8	40%
1	24.8	20	21	21	21	21	7.0					7.7					40%
2	24.8																
3	24.6																
4	24.9	20					7.6					7.7					40%
5	24.5																
6	24.4	20					7.1					7.8					40%
7	24.5																
8	24.7	20					7.1					7.7					40%
9	24.6																
10	24.8																
11	24.9	20					6.9					7.7					40%
12	24.8																
13	24.4	20					7.3					7.8					40%
14	24.5																

New England Bioassay - *Sediment Toxicity Data*

Sample ID: **GZ-217**

Page 2

Start date: 4/30/15

Client / Source: **GZA GeoEnvironmental, Inc. / Wynn Everett (01.0171521.13 Task 1)**

Page 2 entries started: 5/15/15

Description / I.D. #'s: GZ-217 NEB COC #: C35-1881

End date / Time: 5/28/15 / 1800

Day	Temp. (°C)	Rep	Salinity (ppt.) (Add D.I. to maintain volume & salinity.) A	B	C	D	E	Dissolved Oxygen (mg/L) A	B	C	D	E	pH (S.U.) A	B	C	D	E	Water Renewal (appx. %)
15	24.6	15	20					7.2					7.6					40
16	24.6	16																
17	24.8	17																
18	24.8	18	20					6.8					7.6					40
19	24.6	19																
20	24.4	20	21					7.3					7.6					40
21	24.2	21																
22	24.2	22	21					7.1					7.8					40
23	24.3	23																
24	24.6	24																
25	24.3	25	20					7.3					7.8					40
26	24.4	26																
27	24.5	27	21					7.2					7.7					40
28	24.8	28	20	20	20	20	20	6.6	6.8	6.8	6.8	6.8	7.3	7.5	7.5	7.5	7.5	

	A	B	C	D	E
Day 28 Survival: (Qty per Replicate)	9	6	10	17	15

Overall Survival: 57 %

New England Bioassay - *Sediment Toxicity Data*

Sample ID: **GZ-223**

Start date / time: 4/30/15 / 1715

End date / time: 5/28/15 / 1815

Client / Source: **GZA GeoEnvironmental, Inc. / Wynn Everett (01.0171521.13 Task 1)**

Description / I.D. #'s: GZ-223 NEB COC #: C35-1882

Technicians: LC, AH, MG, SJP

Test organism: *Leptocheirus plumulosus*

Org. lot #: Lp15 (4-30) MC

Overlying salt water: (see attached)

Quantity of organisms added per replicate: 20

Source: NEB

Day	Temp. (°C)	Rep	Salinity (ppt.) (Add D.I. to maintain volume & salinity.) A	B	C	D	E	Dissolved Oxygen (mg/L) A	B	C	D	E	pH (S.U.) A	B	C	D	E	Water Renewal (appx. %)
0	24.6	0	20	20	20	20	20	7.1	6.7	7.0	6.9	6.9	7.8	7.8	7.8	7.7	7.8	40%
1	24.6	1	20	20	20	20	20	7.2					7.8					40%
2	24.4	2																
3	24.5	3																
4	24.7	4	20					7.9					8.0					40%
5	24.4	5																
6	24.4	6	20					7.3					8.3					40%
7	24.4	7																
8	24.6	8	20					7.2					8.1					40%
9	24.6	9																
10	24.9	10																
11	25.0	11	20					7.1					8.1					40%
12	24.9	12																
13	24.4	13	20					7.3					8.2					40%
14	~~24.3~~ 24.3	14																

New England Bioassay - *Sediment Toxicity Data*

Sample ID: **GZ-223**

Page 2

Start date: 4/30/15

Client / Source: **GZA GeoEnvironmental, Inc. / Wynn Everett (01.0171521.13 Task 1)**

Page 2 entries started: 5/15/15

Description / I.D. #'s: GZ-223 NEB COC #: C35-1882

End date / Time: 5/28/15 / 1815

Day	Temp. (°C)	Salinity (ppt.) (Add D.I. to maintain volume & salinity.) Rep: A	B	C	D	E	Dissolved Oxygen (mg/L) A	B	C	D	E	pH (S.U.) A	B	C	D	E	Water Renewal (appx. %)
15	24.4	21					7.0					8.0					40
16	24.7																
17	24.9																
18	24.9	20					6.8					8.1					40
19	24.8																
20	24.6	21					7.3					8.0					40
21	24.3																
22	24.4	21					7.2					8.1					40
23	24.4																
24	24.5																
25	24.5	20					7.1					8.0					40
26	24.5																
27	24.7	20					7.2					8.0					40
28	24.8	20	20	20	20	20	7.0	6.6	6.7	6.7	6.6	7.7	7.8	7.8	7.8	7.8	

Day 28 Survival: (Qty per Replicate)	A	B	C	D	E	Overall Survival:	%
	15	16	19	18	17	85	

New England Bioassay - *Sediment Toxicity Data*

Sample ID: **GZ-224**

Start date / time: 4/30/15 / 1715

End date / time: 5/28/15 / 1830

Client / Source: **GZA GeoEnvironmental, Inc. / Wynn Everett (01.0171521.13 Task 1)**

Description / I.D. #'s: GZ-224 NEB COC #: C35-1883

Technicians: LC, AH, MG, SJP

Test organism: *Leptocheirus plumulosus*

Org. lot #: Lp15(4-30)MC

Overlying salt water: (see attached)

Quantity of organisms added per replicate: 20

Source: NEB

Day	Temp. (°C)	Salinity (ppt.) (Add D.I. to maintain volume & salinity.) Rep: A	B	C	D	E	Dissolved Oxygen (mg/L) A	B	C	D	E	pH (S.U.) A	B	C	D	E	Water Renewal (appx. %)
0	24.2	20	20	20	20	20	6.9	7.1	7.1	7.1	7.1	7.8	7.9	7.9	7.8	7.9	40%
1	24.3	20	20	20	20	20	7.0					7.9					40%
2	24.2																
3	24.3																
4	24.6	20					7.8					7.9					40%
5	24.4																
6	24.3	20					7.3					8.0					40%
7	24.3																
8	24.6	20					7.2					7.9					40%
9	24.6																
10	24.8																
11	25.0	20					6.9					7.9					40%
12	24.9																
13	24.5	20					7.3					8.0					40%
14	24.2																

New England Bioassay - *Sediment Toxicity Data*

Sample ID: **GZ-224**

Page 2

Start date: 4/30/15

Client / Source: **GZA GeoEnvironmental, Inc. / Wynn Everett (01.0171521.13 Task 1)**

Page 2 entries started: 5/15/15

Description / I.D. #'s: GZ-224 NEB COC #: C35-1883

End date / Time: 5/28/15 / 1830

Day	Temp. (°C)	Salinity (ppt.) (Add D.I. to maintain volume & salinity.) Rep: A	B	C	D	E	Dissolved Oxygen (mg/L) A	B	C	D	E	pH (S.U.) A	B	C	D	E	Water Renewal (appx. %)
15	24.3	20					6.9					7.8					40
16	24.6																
17	24.8																
18	24.9	20					7.1					7.9					40
19	24.8																
20	24.4	20					7.3					7.9					40
21	24.0																
22	24.4	21					7.2					8.0					40
23	24.2																
24	24.4																
25	24.3	20					7.1					8.0					40
26	24.3																
27	24.5	20					7.1					8.0					40
28	24.8	20	20	20	20	20	6.4	6.6	6.6	6.6	6.7	7.6	7.7	7.7	7.7	7.7	

	A	B	C	D	E
Day 28 Survival: (Qty per Replicate)	17	15	13	15	11

Overall Survival: 71 %

New England Bioassay - *Sediment Toxicity Data*

Sample ID: **GZ-225**

Start date / time: 4/30/15 / 1715

End date / time: 5/28/15 / 1845

Client / Source: **GZA GeoEnvironmental, Inc. / Wynn Everett (01.0171521.13 Task 1)**

Description / I.D. #'s: GZ-225 NEB COC #: C35-1884

Technicians: LC, AH, MG, SJP

Test organism: *Leptocheirus plumulosus*

Org. lot #: Lp15 (4-30) MC

Overlying salt water: (see attached)

Quantity of organisms added per replicate: 20

Source: NEB

Day	Temp. (°C)	Salinity (ppt.) (Add D.I. to maintain volume & salinity.) Rep: A	B	C	D	E	Dissolved Oxygen (mg/L) A	B	C	D	E	pH (S.U.) A	B	C	D	E	Water Renewal (appx. %)
0	24.5	20	20	20	20	20	6.5	6.5	6.6	6.8	6.8	7.9	7.8	7.8	7.9	7.8	40%
1	24.5	21	21	21	21	21	7.1					7.8					40%
2	24.2																
3	24.3																
4	24.6	20					7.6					7.9					40%
5	24.5																
6	24.4	20					7.2					8.0					40%
7	24.4																
8	24.7	20					7.1					7.9					40%
9	24.6																
10	24.9																
11	25.1	20					6.8					7.9					40%
12	24.9																
13	24.3	20					7.3					8.0					40%
14	24.1																

New England Bioassay - *Sediment Toxicity Data*

Sample ID: **GZ-225**

Page 2

Start date: 4/30/15

Client / Source: **GZA GeoEnvironmental, Inc. / Wynn Everett (01.0171521.13 Task 1)**

Page 2 entries started: 5/15/15

Description / I.D. #'s: GZ-225 NEB COC #: C35-1884

End date / Time: 5/28/15 / 1845

Day	Temp. (°C)	Rep	Salinity (ppt.) (Add D.I. to maintain volume & salinity.) A	B	C	D	E	Dissolved Oxygen (mg/L) A	B	C	D	E	pH (S.U.) A	B	C	D	E	Water Renewal (appx. %)
15	24.3	15	20					6.8					7.8					40
16	24.7	16																
17	24.9	17																
18	24.9	18	20					7.0					7.9					40
19	24.8	19																
20	24.6	20	20					7.4					7.8					40
21	24.1	21																
22	24.4	22	21					7.1					8.0					40
23	24.2	23																
24	24.5	24																
25	24.3	25	20					7.2					7.9					40
26	24.6	26																
27	24.7	27	20					7.1					7.9					40
28	24.9	28	20	20	20	20	20	5.0	5.8	5.5	5.6	5.5	7.7	7.6	7.6	7.6	7.6	

Day 28 Survival: (Qty per Replicate)	A	B	C	D	E	**Overall Survival:**	%
	9	18	15	17	14	73	

New England Bioassay **_Final 28-Day Dry-Weight Data_** *Leptocheirus plumulosus*

Client: **GZA GeoEnvironmental, Inc.** Test set-up date: 4/30/15

Project: Wynn-Everett (01.0171521.13 Task 1)

Test ending date: 5/28/15

Sample I.D. **Artificial Control**

Tare weight- Date / Tech: 5-27-15, LC

Final weight- Date / Tech. 5/29/15 MG

	A	B	C	D	E
Pan + organisms:	944.30 mg	950.85 mg	944.22 mg	947.94 mg	952.60 mg
- Pan (tare):	929.47 mg	936.76 mg	927.74 mg	927.09 mg	931.06 mg
Qty. org. per pan:	11	11	11	14	15

Sample I.D. **Natural Control**

Tare weight- Date / Tech: 5-27-15, LC

Final weight- Date / Tech. 5/29/15 MG

	A	B	C	D	E
Pan + organisms:	950.72 mg	962.43 mg	954.97 mg	954.44 mg	949.40 mg
- Pan (tare):	932.88 mg	936.58 mg	935.51 mg	936.44 mg	927.04 mg
Qty. org. per pan:	13	18	14	12	14

Sample I.D. **LC-102**

Tare weight- Date / Tech: 5-27-15, LC

Final weight- Date / Tech. 5/29/15 MG

	A	B	C	D	E
Pan + organisms:	974.60 mg	964.52 mg	958.32 mg	972.41 mg	963.00 mg
- Pan (tare):	937.37 mg	928.88 mg	937.60 mg	935.51 mg	934.91 mg
Qty. org. per pan:	18	20	11	19	15

New England Bioassay **_Final 28-Day Dry-Weight Data_** *Leptocheirus plumulosus*

Client: **GZA GeoEnvironmental, Inc.** Test set-up date: 4/30/15

Project: Wynn-Everett (01.0171521.13 Task 1)

Test ending date: 5/28/15

Sample I.D. **LC-105**

Tare weight- Date / Tech: 5/27/15, LC

Final weight- Date / Tech. 5/29/15, MG

	A	B	C	D	E
Pan + organisms:	974.76 mg	969.32 mg	965.10 mg	970.83 mg	973.31 mg
- Pan (tare):	938.25 mg	934.31 mg	933.96 mg	933.50 mg	936.07 mg
Qty. org. per pan:	19	18	16	17	17

Sample I.D. **LC-112**

Tare weight- Date / Tech: 5/27/15, LC

Final weight- Date / Tech. 5/29/15, MG

	A	B	C	D	E
Pan + organisms:	960.50 mg	960.39 mg	955.54 mg	968.18 mg	960.41 mg
- Pan (tare):	936.23 mg	934.37 mg	934.61 mg	941.71 mg	928.07 mg
Qty. org. per pan:	16	18	17	17	17

Sample I.D. **GZ-203**

Tare weight- Date / Tech: 5/27/15, LC

Final weight- Date / Tech. 5/29/15, MG

	A	B	C	D	E
Pan + organisms:	971.38 mg	960.89 mg	958.82 mg	955.35 mg	959.71 mg
- Pan (tare):	936.33 mg	930.76 mg	935.22 mg	934.62 mg	927.41 mg
Qty. org. per pan:	17	16	17	12	15

New England Bioassay **Final 28-Day Dry-Weight Data** *Leptocheirus plumulosus*

Client: **GZA GeoEnvironmental, Inc.** Test set-up date: 4/30/15

Project: Wynn-Everett (01.0171521.13 Task 1)

Test ending date: 5/28/15

Sample I.D. **GZ-207** Tare weight- Date / Tech: 5/27/15, LC

Final weight- Date / Tech. 5/29/15, MG

	A	B	C	D	E
Pan + organisms:	957.26 mg	954.59 mg	907.15 mg	953.12 mg	961.24 mg
- Pan (tare):	932.03 mg	932.30 mg	935.51 mg	930.70 mg	935.60 mg
Qty. org. per pan:	15	12	15	14	13

Sample I.D. **GZ-209** Tare weight- Date / Tech: 5/27/15, LC

Final weight- Date / Tech. 5/29/15, MG

	A	B	C	D	E
Pan + organisms:	978.13 mg	958.72 mg	961.95 mg	962.31 mg	956.91 mg
- Pan (tare):	935.10 mg	932.20 mg	934.37 mg	936.04 mg	931.99 mg
Qty. org. per pan:	19	12	15	13	14

Sample I.D. **GZ-213** Tare weight- Date / Tech: 5/27/15, LC

Final weight- Date / Tech. 5/29/15, MG

	A	B	C	D	E
Pan + organisms:	961.55 mg	954.81 mg	949.72 mg	959.44 mg	961.72 mg
- Pan (tare):	935.84 mg	930.34 mg	930.45 mg	925.20 mg	938.62 mg
Qty. org. per pan:	18	17	14	17	16

New England Bioassay **_Final 28-Day Dry-Weight Data_** *Leptocheirus plumulosus*

Client: **GZA GeoEnvironmental, Inc.** Test set-up date: 4/30/15

Project: Wynn-Everett (01.0171521.13 Task 1)

Test ending date: 5/28/15

Sample I.D. **GZ-214**

Tare weight- Date / Tech: 5-27-15, LC

Final weight- Date / Tech. 5/29/15 MG

	A	B	C	D	E
Pan + organisms:	957.80 mg	960.87 mg	962.41 mg	962.45 mg	955.22 mg
- Pan (tare):	938.08 mg	932.80 mg	933.55 mg	938.65 mg	934.41 mg
Qty. org. per pan:	12	16	16	15	11

Sample I.D. **GZ-217**

Tare weight- Date / Tech: 5-27-15, LC

Final weight- Date / Tech. 5/29/15 MG

	A	B	C	D	E
Pan + organisms:	941.89 mg	936.19 mg	942.45 mg	951.62 mg	949.40 mg
- Pan (tare):	934.26 mg	931.97 mg	932.15 mg	934.84 mg	934.53 mg
Qty. org. per pan:	9	6	10	17	15

Sample I.D. **GZ-223**

Tare weight- Date / Tech: 5-27-15, LC

Final weight- Date / Tech. 5/29/15 MG

	A	B	C	D	E
Pan + organisms:	958.59 mg	961.30 mg	965.03 mg	963.85 mg	960.39 mg
- Pan (tare):	931.83 mg	932.64 mg	933.07 mg	931.89 mg	933.75 mg
Qty. org. per pan:	15	16	19	18	17

New England Bioassay **_Final 28-Day Dry-Weight Data_** *Leptocheirus plumulosus*

Client: **GZA GeoEnvironmental, Inc.** Test set-up date: 4/30/15

Project: Wynn-Everett (01.0171521.13 Task 1)

Test ending date: 5/28/15

Sample I.D. **GZ-224**

Tare weight- Date / Tech: 5/27/15 LC

Final weight- Date / Tech. 5/29/15, MG

	A	B	C	D	E
Pan + organisms:	957.90 mg	951.00 mg	961.37 mg	945.97 mg	946.02 mg
- Pan (tare):	934.91 mg	932.56 mg	938.30 mg	929.94 mg	932.43 mg
Qty. org. per pan:	17	15	13	15	11

Sample I.D. **GZ-225**

Tare weight- Date / Tech: 5/27/15, LC

Final weight- Date / Tech. 5/29/15, MG

	A	B	C	D	E
Pan + organisms:	944.10 mg	957.81 mg	962.43 mg	957.53 mg	945.28 mg
- Pan (tare):	932.82 mg	930.86 mg	933.18 mg	934.00 mg	934.24 mg
Qty. org. per pan:	9	18	15	17	14

Leptocheirus plumulosus- Sediment Test Breakdown, Day 28 - **Young Counted**

Client: **GZA GeoEnvironmental, Inc.** Test set-up date: 4/30/15

Project: **Wynn-Everett (01.0171521.13 Task 1)** Test ending date: 5/28/15

		Qty.	Observations of Young
Artificial Control	A.	11	mostly small
	B.	22	mostly small
	C.	13	mostly small
	D.	42	mixed sizes, many large
	E.	22	mixed sizes
Natural Control	A.	11	mostly small
	B.	37	mostly small
	C.	17	mostly small
	D.	24	"medium" sized
	E.	9	mostly small
LC-102	A.	23	mixed sizes / some worms present
	B.	41	mixed sizes / many tiny worms present
	C.	42	mixed sizes
	D.	32	mostly small
	E.	45	mixed sizes

Leptocheirus plumulosus- Sediment Test Breakdown, Day 28 - **Young Counted**

Client: **GZA GeoEnvironmental, Inc.** Test set-up date: 4/30/15

Project: **Wynn-Everett (01.0171521.13 Task 1)** Test ending date: 5/28/15

LC-105

	Qty.	Observations of Young
A.	19	many tiny worms
B.	43	mixed sizes
C.	24	small to medium sized
D.	14	mostly small / many tiny worms
E.	32	mixed sizes

LC-112

A.	69	mixed sizes / many small worms
B.	43	mixed sizes / many small worms
C.	20	mostly small / many small worms
D.	16	mixed sizes
E.	27	mixed sizes / small worms present

GZ-203

A.	65	mixed sizes / some small worms
B.	8	mostly small / tiny worms
C.	0	worms present
D.	19	mixed sizes / worms present
E.	22	mixed sizes

Leptocheirus plumulosus- Sediment Test Breakdown, Day 28 - **Young Counted**

Client: **GZA GeoEnvironmental, Inc.** Test set-up date: 4/30/15

Project: **Wynn-Everett (01.0171521.13 Task 1)** Test ending date: 5/28/15

GZ-207

	Qty.	Observations of Young
A.	34	mixed sizes
B.	39	mixed sizes
C.	0	small
D.	0	3 larger worms w/legs found
E.	0	

GZ-209

	Qty.	Observations of Young
A.	134	mixed sizes
B.	21	
C.	28	
D.	35	
E.	25	

GZ-213

	Qty.	Observations of Young
A.	0	
B.	13	mixed sizes
C.	0	
D.	15	mixed sizes
E.	0	

Leptocheirus plumulosus- Sediment Test Breakdown, Day 28 - **Young Counted**

Client: **GZA GeoEnvironmental, Inc.** Test set-up date: 4/30/15

Project: **Wynn-Everett (01.0171521.13 Task 1)** Test ending date: 5/28/15

GZ-214

	Qty.	Observations of Young
A.	14	small - med.
B.	8	all small
C.	15	all small
D.	10	all small
E.	11	all small

GZ-217

	Qty.	Observations of Young
A.	2	small
B.	0	
C.	2	small
D.	0	
E.	5	small

GZ-223

	Qty.	Observations of Young
A.	25	mixed sizes
B.	25	
C.	28	
D.	51	2 red worms - midge larvae?
E.	9	

Leptocheirus plumulosus- Sediment Test Breakdown, Day 28 - **Young Counted**

Client: **GZA GeoEnvironmental, Inc.** Test set-up date: 4/30/15

Project: **Wynn-Everett (01.0171521.13 Task 1)** Test ending date: 5/28/15

GZ-224

	Qty.	Observations of Young
A.	1	~~mixed sizes~~ sm. medium sized
B.	4	mixed sizes
C.	0	
D.	4	mixed sizes
E.	0	

GZ-225

	Qty.	Observations of Young
A.	5	mixed sizes / large sandworm 4-6" approx.
B.	13	mixed sizes
C.	40	mixed sizes
D.	41	mixed sizes
E.	6	mixed sizes

SUMMARY OF TEST RESULTS
28-DAY L.PLUMULOSUS TOXICITY TESTS
WYNN-EVERETT (Test Dates 4/30/15 – 5/28/15)
ARTIFICIAL CONTROL COMPARISION

Sample	28-day Survival (%)		Biomass (mg)		Reproduction (number of young)	
	Mean	Sig[a]	Mean	Sig[a]	Mean[b]	Sig[a]
Artificial Control	62	--	0.8779	--	1.73	--
Natural Control	71	NS	1.035	NS	1.352	NS
LC-102	83	NS	1.586	NS	2.366	NS
LC-105	87	NS	1.772	NS	1.519	NS
LC-112	85	NS	1.42	NS	2.081	NS
GZ-203	77	NS	1.418	NS	1.475	NS
GZ-207	69	NS	1.272	NS	1.183	NS
GZ-209	73	NS	1.473	NS	3.029	NS
GZ-213	82	NS	1.167	NS	0.3294	*
GZ-214	70	NS	1.213	NS	0.8542	NS
GZ-217	57	NS	0.538	NS	0.1511	*
GZ-223	85	NS	1.46	NS	1.613	NS
GZ-224	71	NS	0.9412	NS	0.1184	*
GZ-225	73	NS	1.021	NS	1.357	NS

[a]NS: Not significantly reduced at P = 0.05; *: significant at P = 0.05.
when compared with artificial control
[b] Reproduction as the average of [young per rep/surviving adults per rep]

Leptocheirus 28-d Survival, Growth and Reproduction Sediment Test — **New England Bioassay**

Analysis ID:	10-7463-6629	**Endpoint:**	Survival Rate	**CETIS Version:**	CETISv1.8.8
Analyzed:	03 Jun-15 9:31	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes
Batch ID:	01-5466-7590	**Test Type:**	Leptocheirus (28-d)	**Analyst:**	
Start Date:	30 Apr-15	**Protocol:**	EPA/600/R-01/020 (2001)	**Diluent:**	Not Applicable
Ending Date:	28 May-15	**Species:**	Leptocheirus plumulosus	**Brine:**	Instant Ocean
Duration:	28d 0h	**Source:**	In-House Culture	**Age:**	

Sample Code	Sample ID	Sample Date	Receive Date	Sample Age	Client Name	Project
Art Control	04-5032-5421	25 Mar-15		36d 0h	GZA GeoEnvironmental	
Nat Control	11-3861-7478	24 Mar-15	21 Apr-15	37d 0h		
LC-102	14-0824-4221	26 Mar-15	21 Apr-15	35d 0h		
LC-105	19-8730-7911	26 Mar-15	21 Apr-15	35d 0h		
LC-112	09-5123-6710	27 Mar-15	21 Apr-15	34d 0h		

Sample Code	Material Type	Sample Source	Station Location	Latitude	Longitude
Art Control	Not Applicable	Wynn - Everett MA	Art Control		
Nat Control	Not Applicable	Wynn - Everett MA	Nat Control		
LC-102	Reference sediment	Wynn - Everett MA	LC-102		
LC-105	Reference sediment	Wynn - Everett MA	LC-105		
LC-112	Reference sediment	Wynn - Everett MA	LC-112		

Data Transform	Zeta	Alt Hyp	Trials	Seed	PMSD	Test Result
Angular (Corrected)	NA	C > T	NA	NA	33.0%	

Dunnett Multiple Comparison Test

Sample Code	vs	Sample Code	Test Stat	Critical	MSD	DF	P-Value	P-Type	Decision(α:5%)
Art Control		Nat Control	-1.128	2.305	0.209	8	0.9828	CDF	Non-Significant Effect
		LC-102	-3.074	2.305	0.209	8	1.0000	CDF	Non-Significant Effect
		LC-105	-3.321	2.305	0.209	8	1.0000	CDF	Non-Significant Effect
		LC-112	-2.941	2.305	0.209	8	0.9999	CDF	Non-Significant Effect

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	0.348152	0.08703799	4	4.25	0.0119	Significant Effect
Error	0.4095784	0.02047892	20			
Total	0.7577303		24			

Distributional Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variances	Bartlett Equality of Variance	9.49	13.28	0.0500	Equal Variances
Distribution	Shapiro-Wilk W Normality	0.9527	0.8877	0.2887	Normal Distribution

Survival Rate Summary

Sample Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
Art Control	5	0.62	0.499	0.741	0.55	0.55	0.75	0.04359	15.72%	0.0%
Nat Control	5	0.71	0.5684	0.8516	0.7	0.6	0.9	0.05099	16.06%	-14.52%
LC-102	5	0.83	0.6036	1	0.9	0.55	1	0.08155	21.97%	-33.87%
LC-105	5	0.87	0.7992	0.9408	0.85	0.8	0.95	0.0255	6.55%	-40.32%
LC-112	5	0.85	0.8061	0.8939	0.85	0.8	0.9	0.01581	4.16%	-37.1%

Angular (Corrected) Transformed Summary

Sample Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
Art Control	5	0.909	0.7816	1.036	0.8355	0.8355	1.047	0.04586	11.28%	0.0%
Nat Control	5	1.011	0.8372	1.185	0.9912	0.8861	1.249	0.06262	13.85%	-11.23%
LC-102	5	1.187	0.8793	1.495	1.249	0.8355	1.459	0.1109	20.88%	-30.61%
LC-105	5	1.21	1.097	1.323	1.173	1.107	1.345	0.0407	7.52%	-33.07%
LC-112	5	1.175	1.113	1.237	1.173	1.107	1.249	0.02247	4.28%	-29.28%

Leptocheirus 28-d Survival, Growth and Reproduction Sediment Test — **New England Bioassay**

Analysis ID:	10-7463-6629	**Endpoint:**	Survival Rate	**CETIS Version:**	CETISv1.8.8
Analyzed:	03 Jun-15 9:31	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Survival Rate Detail

Sample Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
Art Control	0.55	0.55	0.55	0.7	0.75
Nat Control	0.65	0.9	0.7	0.6	0.7
LC-102	0.9	1	0.55	0.95	0.75
LC-105	0.95	0.9	0.8	0.85	0.85
LC-112	0.8	0.9	0.85	0.85	0.85

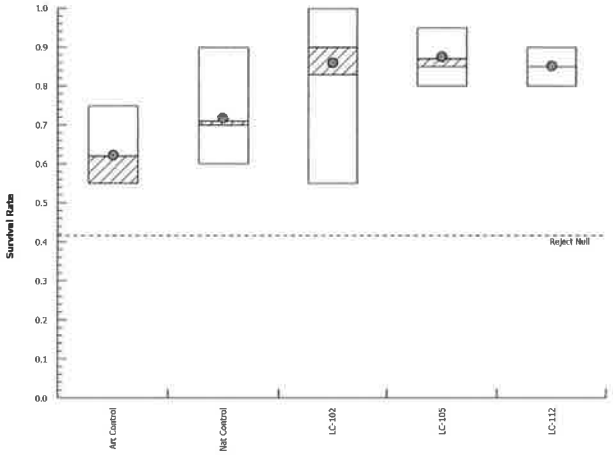
Angular (Corrected) Transformed Detail

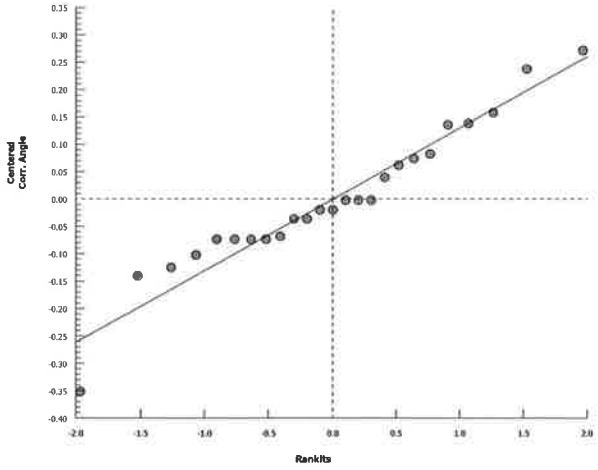
Sample Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
Art Control	0.8355	0.8355	0.8355	0.9912	1.047
Nat Control	0.9377	1.249	0.9912	0.8861	0.9912
LC-102	1.249	1.459	0.8355	1.345	1.047
LC-105	1.345	1.249	1.107	1.173	1.173
LC-112	1.107	1.249	1.173	1.173	1.173

Survival Rate Binomials

Sample Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
Art Control	11/20	11/20	11/20	14/20	15/20
Nat Control	13/20	18/20	14/20	12/20	14/20
LC-102	18/20	20/20	11/20	19/20	15/20
LC-105	19/20	18/20	16/20	17/20	17/20
LC-112	16/20	18/20	17/20	17/20	17/20

Graphics





Leptocheirus 28-d Survival, Growth and Reproduction Sediment Test — **New England Bioassay**

Analysis ID:	17-9235-6318	**Endpoint:**	Survival Rate	**CETIS Version:**	CETISv1.8.8
Analyzed:	03 Jun-15 9:32	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes
Batch ID:	01-5466-7590	**Test Type:**	Leptocheirus (28-d)	**Analyst:**	
Start Date:	30 Apr-15	**Protocol:**	EPA/600/R-01/020 (2001)	**Diluent:**	Not Applicable
Ending Date:	28 May-15	**Species:**	Leptocheirus plumulosus	**Brine:**	Instant Ocean
Duration:	28d 0h	**Source:**	In-House Culture	**Age:**	

Sample Code	Sample ID	Sample Date	Receive Date	Sample Age	Client Name	Project
Art Control	04-5032-5421	25 Mar-15		36d 0h	GZA GeoEnvironmental	
GZ-203	02-5461-8029	24 Mar-15	21 Apr-15	37d 0h		
GZ-207	03-2338-4998	25 Mar-15	21 Apr-15	36d 0h		
GZ-209	16-5046-1852	25 Mar-15	21 Apr-15	36d 0h		
GZ-213	17-1685-0966	25 Mar-15	21 Apr-15	36d 0h		
GZ-214	15-3950-8822	30 Mar-15	21 Apr-15	31d 0h		
GZ-217	04-7415-4404	24 Mar-15	21 Apr-15	37d 0h		
GZ-223	08-6096-2100	30 Mar-15	21 Apr-15	31d 0h		
GZ-224	13-6271-4856	30 Mar-15	21 Apr-15	31d 0h		
GZ-225	18-0414-8615	27 Mar-15	21 Apr-15	34d 0h		

Sample Code	Material Type	Sample Source	Station Location	Latitude	Longitude
Art Control	Not Applicable	Wynn - Everett MA	Art Control		
GZ-203	Site Sediment	Wynn - Everett MA	GZ-203		
GZ-207	Site Sediment	Wynn - Everett MA	GZ-207		
GZ-209	Site Sediment	Wynn - Everett MA	GZ-209		
GZ-213	Site Sediment	Wynn - Everett MA	GZ-213		
GZ-214	Site Sediment	Wynn - Everett MA	GZ-214		
GZ-217	Site Sediment	Wynn - Everett MA	GZ-217		
GZ-223	Site Sediment	Wynn - Everett MA	GZ-223		
GZ-224	Site Sediment	Wynn - Everett MA	GZ-224		
GZ-225	Site Sediment	Wynn - Everett MA	GZ-225		

Data Transform	Zeta	Alt Hyp	Trials	Seed	PMSD	Test Result
Angular (Corrected)	NA	C > T	NA	NA	36.8%	

Dunnett Multiple Comparison Test

Sample Code	vs	Sample Code	Test Stat	Critical	MSD	DF	P-Value	P-Type	Decision(α:5%)
Art Control		GZ-203	-1.815	2.506	0.232	8	0.9997	CDF	Non-Significant Effect
		GZ-207	-0.7862	2.506	0.232	8	0.9875	CDF	Non-Significant Effect
		GZ-209	-1.429	2.506	0.232	8	0.9987	CDF	Non-Significant Effect
		GZ-213	-2.477	2.506	0.232	8	1.0000	CDF	Non-Significant Effect
		GZ-214	-0.9451	2.506	0.232	8	0.9925	CDF	Non-Significant Effect
		GZ-217	0.4834	2.506	0.232	8	0.7539	CDF	Non-Significant Effect
		GZ-223	-2.969	2.506	0.232	8	1.0000	CDF	Non-Significant Effect
		GZ-224	-1.069	2.506	0.232	8	0.9951	CDF	Non-Significant Effect
		GZ-225	-1.404	2.506	0.232	8	0.9985	CDF	Non-Significant Effect

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	0.4190992	0.04656657	9	2.165	0.0458	Significant Effect
Error	0.8601752	0.02150438	40			
Total	1.279274		49			

Distributional Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variances	Bartlett Equality of Variance	8.931	21.67	0.4436	Equal Variances
Distribution	Shapiro-Wilk W Normality	0.9894	0.9367	0.9307	Normal Distribution

Leptocheirus 28-d Survival, Growth and Reproduction Sediment Test **New England Bioassay**

Analysis ID: 17-9235-6318 **Endpoint:** Survival Rate **CETIS Version:** CETISv1.8.8
Analyzed: 03 Jun-15 9:32 **Analysis:** Parametric-Control vs Treatments **Official Results:** Yes

Survival Rate Summary

Sample Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
Art Control	5	0.62	0.499	0.741	0.55	0.55	0.75	0.04359	15.72%	0.0%
GZ-203	5	0.77	0.6413	0.8987	0.8	0.6	0.85	0.04637	13.47%	-24.19%
GZ-207	5	0.69	0.6091	0.7709	0.7	0.6	0.75	0.02915	9.45%	-11.29%
GZ-209	5	0.73	0.5623	0.8977	0.7	0.6	0.95	0.06042	18.51%	-17.74%
GZ-213	5	0.82	0.7258	0.9142	0.85	0.7	0.9	0.03391	9.25%	-32.26%
GZ-214	5	0.7	0.5544	0.8456	0.75	0.55	0.8	0.05244	16.75%	-12.9%
GZ-217	5	0.57	0.2903	0.8497	0.5	0.3	0.85	0.1007	39.52%	8.07%
GZ-223	5	0.85	0.7518	0.9482	0.85	0.75	0.95	0.03536	9.3%	-37.1%
GZ-224	5	0.71	0.5684	0.8516	0.75	0.55	0.85	0.05099	16.06%	-14.52%
GZ-225	5	0.73	0.5123	0.9477	0.75	0.45	0.9	0.07842	24.02%	-17.74%

Angular (Corrected) Transformed Summary

Sample Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
Art Control	5	0.909	0.7816	1.036	0.8355	0.8355	1.047	0.04586	11.28%	0.0%
GZ-203	5	1.077	0.9295	1.225	1.107	0.8861	1.173	0.05325	11.05%	-18.52%
GZ-207	5	0.9819	0.8946	1.069	0.9912	0.8861	1.047	0.03142	7.16%	-8.02%
GZ-209	5	1.041	0.8178	1.265	0.9912	0.8861	1.345	0.08055	17.29%	-14.58%
GZ-213	5	1.139	1.019	1.259	1.173	0.9912	1.249	0.04319	8.48%	-25.28%
GZ-214	5	0.9966	0.8381	1.155	1.047	0.8355	1.107	0.05709	12.81%	-9.64%
GZ-217	5	0.8641	0.5646	1.164	0.7854	0.5796	1.173	0.1079	27.91%	4.93%
GZ-223	5	1.184	1.039	1.33	1.173	1.047	1.345	0.05243	9.9%	-30.3%
GZ-224	5	1.008	0.8498	1.166	1.047	0.8355	1.173	0.05702	12.65%	-10.91%
GZ-225	5	1.039	0.7934	1.285	1.047	0.7353	1.249	0.08851	19.05%	-14.32%

Survival Rate Detail

Sample Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
Art Control	0.55	0.55	0.55	0.7	0.75
GZ-203	0.85	0.8	0.85	0.6	0.75
GZ-207	0.75	0.6	0.75	0.7	0.65
GZ-209	0.95	0.6	0.75	0.65	0.7
GZ-213	0.9	0.85	0.7	0.85	0.8
GZ-214	0.6	0.8	0.8	0.75	0.55
GZ-217	0.45	0.3	0.5	0.85	0.75
GZ-223	0.75	0.8	0.95	0.9	0.85
GZ-224	0.85	0.75	0.65	0.75	0.55
GZ-225	0.45	0.9	0.75	0.85	0.7

Angular (Corrected) Transformed Detail

Sample Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
Art Control	0.8355	0.8355	0.8355	0.9912	1.047
GZ-203	1.173	1.107	1.173	0.8861	1.047
GZ-207	1.047	0.8861	1.047	0.9912	0.9377
GZ-209	1.345	0.8861	1.047	0.9377	0.9912
GZ-213	1.249	1.173	0.9912	1.173	1.107
GZ-214	0.8861	1.107	1.107	1.047	0.8355
GZ-217	0.7353	0.5796	0.7854	1.173	1.047
GZ-223	1.047	1.107	1.345	1.249	1.173
GZ-224	1.173	1.047	0.9377	1.047	0.8355
GZ-225	0.7353	1.249	1.047	1.173	0.9912

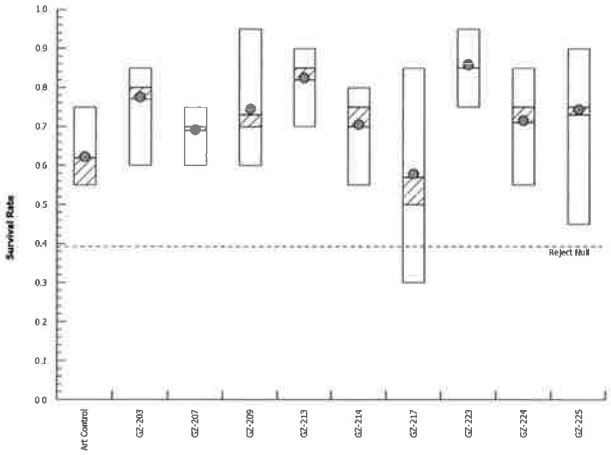
Leptocheirus 28-d Survival, Growth and Reproduction Sediment Test — **New England Bioassay**

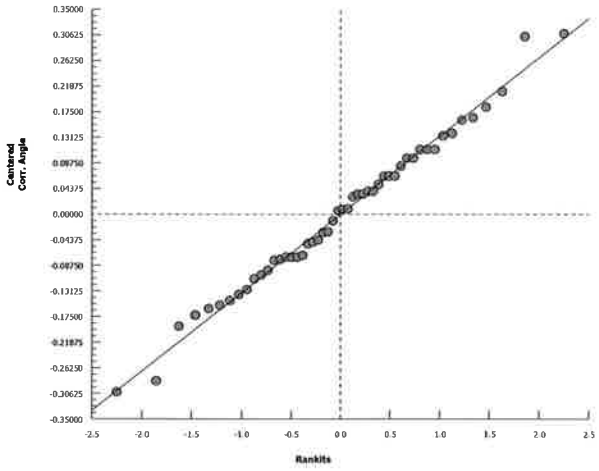
Analysis ID:	17-9235-6318	**Endpoint:**	Survival Rate	**CETIS Version:**	CETISv1.8.8
Analyzed:	03 Jun-15 9:32	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Survival Rate Binomials

Sample Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
Art Control	11/20	11/20	11/20	14/20	15/20
GZ-203	17/20	16/20	17/20	12/20	15/20
GZ-207	15/20	12/20	15/20	14/20	13/20
GZ-209	19/20	12/20	15/20	13/20	14/20
GZ-213	18/20	17/20	14/20	17/20	16/20
GZ-214	12/20	16/20	16/20	15/20	11/20
GZ-217	9/20	6/20	10/20	17/20	15/20
GZ-223	15/20	16/20	19/20	18/20	17/20
GZ-224	17/20	15/20	13/20	15/20	11/20
GZ-225	9/20	18/20	15/20	17/20	14/20

Graphics





Leptocheirus 28-d Survival, Growth and Reproduction Sediment Test — **New England Bioassay**

Analysis ID:	00-8811-6910	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.8.8
Analyzed:	01 Jun-15 11:30	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes
Batch ID:	01-5466-7590	**Test Type:**	Leptocheirus (28-d)	**Analyst:**	
Start Date:	30 Apr-15	**Protocol:**	EPA/600/R-01/020 (2001)	**Diluent:**	Not Applicable
Ending Date:	28 May-15	**Species:**	Leptocheirus plumulosus	**Brine:**	Instant Ocean
Duration:	28d 0h	**Source:**	In-House Culture	**Age:**	

Sample Code	Sample ID	Sample Date	Receive Date	Sample Age	Client Name	Project
Art Control	04-5032-5421	25 Mar-15		36d 0h	GZA GeoEnvironmental	
Nat Control	11-3861-7478	24 Mar-15	21 Apr-15	37d 0h		
LC-102	14-0824-4221	26 Mar-15	21 Apr-15	35d 0h		
LC-105	19-8730-7911	26 Mar-15	21 Apr-15	35d 0h		
LC-112	09-5123-6710	27 Mar-15	21 Apr-15	34d 0h		

Sample Code	Material Type	Sample Source	Station Location	Latitude	Longitude
Art Control	Not Applicable	Wynn - Everett MA	Art Control		
Nat Control	Not Applicable	Wynn - Everett MA	Nat Control		
LC-102	Reference sediment	Wynn - Everett MA	LC-102		
LC-105	Reference sediment	Wynn - Everett MA	LC-105		
LC-112	Reference sediment	Wynn - Everett MA	LC-112		

Data Transform	Zeta	Alt Hyp	Trials	Seed	PMSD	Test Result
Untransformed	NA	C > T	NA	NA	38.0%	

Dunnett Multiple Comparison Test

Sample Code	vs	Sample Code	Test Stat	Critical	MSD	DF	P-Value	P-Type	Decision(α:5%)
Art Control		Nat Control	-1.086	2.305	0.333	8	0.9808	CDF	Non-Significant Effect
		LC-102	-4.893	2.305	0.333	8	1.0000	CDF	Non-Significant Effect
		LC-105	-6.182	2.305	0.333	8	1.0000	CDF	Non-Significant Effect
		LC-112	-3.749	2.305	0.333	8	1.0000	CDF	Non-Significant Effect

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	2.801481	0.7003703	4	13.39	<0.0001	Significant Effect
Error	1.046485	0.05232427	20			
Total	3.847967		24			

Distributional Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variances	Bartlett Equality of Variance	4.781	13.28	0.3106	Equal Variances
Distribution	Shapiro-Wilk W Normality	0.9342	0.8877	0.1087	Normal Distribution

Mean Dry Biomass-mg Summary

Sample Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
Art Control	5	0.8779	0.6644	1.091	0.824	0.7045	1.077	0.07691	19.59%	0.0%
Nat Control	5	1.035	0.8239	1.246	0.973	0.892	1.292	0.07604	16.43%	-17.9%
LC-102	5	1.586	1.139	2.032	1.782	1.036	1.861	0.1608	22.67%	-80.64%
LC-105	5	1.772	1.612	1.932	1.826	1.557	1.867	0.0577	7.28%	-101.9%
LC-112	5	1.42	1.123	1.717	1.514	1.046	1.617	0.107	16.85%	-61.78%

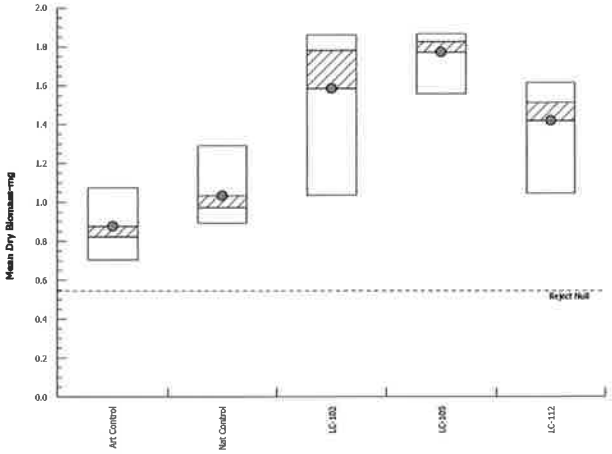
Mean Dry Biomass-mg Detail

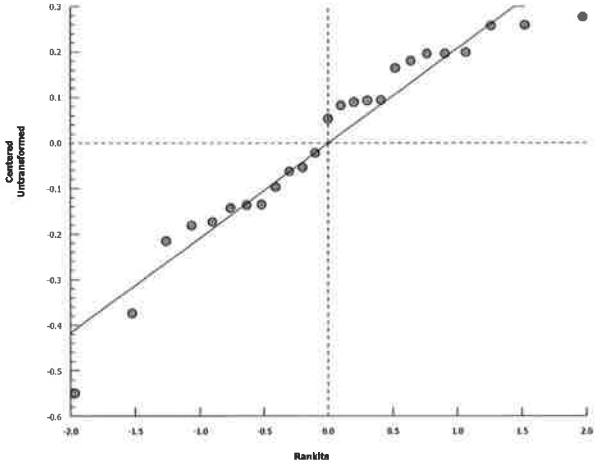
Sample Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
Art Control	0.7415	0.7045	0.824	1.042	1.077
Nat Control	0.892	1.292	0.973	0.9	1.118
LC-102	1.861	1.782	1.036	1.845	1.405
LC-105	1.826	1.751	1.557	1.867	1.862
LC-112	1.514	1.601	1.046	1.323	1.617

Leptocheirus 28-d Survival, Growth and Reproduction Sediment Test — **New England Bioassay**

Analysis ID:	00-8811-6910	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.8.8
Analyzed:	01 Jun-15 11:30	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Graphics





Leptocheirus 28-d Survival, Growth and Reproduction Sediment Test — **New England Bioassay**

Analysis ID:	21-0240-8259	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.8.8
Analyzed:	01 Jun-15 11:31	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes
Batch ID:	01-5466-7590	**Test Type:**	Leptocheirus (28-d)	**Analyst:**	
Start Date:	30 Apr-15	**Protocol:**	EPA/600/R-01/020 (2001)	**Diluent:**	Not Applicable
Ending Date:	28 May-15	**Species:**	Leptocheirus plumulosus	**Brine:**	Instant Ocean
Duration:	28d 0h	**Source:**	In-House Culture	**Age:**	

Sample Code	Sample ID	Sample Date	Receive Date	Sample Age	Client Name	Project
Art Control	04-5032-5421	25 Mar-15		36d 0h	GZA GeoEnvironmental	
GZ-203	02-5461-8029	24 Mar-15	21 Apr-15	37d 0h		
GZ-207	03-2338-4998	25 Mar-15	21 Apr-15	36d 0h		
GZ-209	16-5046-1852	25 Mar-15	21 Apr-15	36d 0h		
GZ-213	17-1685-0966	25 Mar-15	21 Apr-15	36d 0h		
GZ-214	15-3950-8822	30 Mar-15	21 Apr-15	31d 0h		
GZ-217	04-7415-4404	24 Mar-15	21 Apr-15	37d 0h		
GZ-223	08-6096-2100	30 Mar-15	21 Apr-15	31d 0h		
GZ-224	13-6271-4856	30 Mar-15	21 Apr-15	31d 0h		
GZ-225	18-0414-8615	27 Mar-15	21 Apr-15	34d 0h		

Sample Code	Material Type	Sample Source	Station Location	Latitude	Longitude
Art Control	Not Applicable	Wynn - Everett MA	Art Control		
GZ-203	Site Sediment	Wynn - Everett MA	GZ-203		
GZ-207	Site Sediment	Wynn - Everett MA	GZ-207		
GZ-209	Site Sediment	Wynn - Everett MA	GZ-209		
GZ-213	Site Sediment	Wynn - Everett MA	GZ-213		
GZ-214	Site Sediment	Wynn - Everett MA	GZ-214		
GZ-217	Site Sediment	Wynn - Everett MA	GZ-217		
GZ-223	Site Sediment	Wynn - Everett MA	GZ-223		
GZ-224	Site Sediment	Wynn - Everett MA	GZ-224		
GZ-225	Site Sediment	Wynn - Everett MA	GZ-225		

Data Transform	Zeta	Alt Hyp	Trials	Seed	PMSD	Test Result
Untransformed	NA	C > T	NA	NA	46.9%	

Dunnett Multiple Comparison Test

Sample Code	vs	Sample Code	Test Stat	Critical	MSD	DF	P-Value	P-Type	Decision(α:5%)
Art Control		GZ-203	-3.288	2.506	0.412	8	1.0000	CDF	Non-Significant Effect
		GZ-207	-2.399	2.506	0.412	8	1.0000	CDF	Non-Significant Effect
		GZ-209	-3.623	2.506	0.412	8	1.0000	CDF	Non-Significant Effect
		GZ-213	-1.758	2.506	0.412	8	0.9996	CDF	Non-Significant Effect
		GZ-214	-2.037	2.506	0.412	8	0.9999	CDF	Non-Significant Effect
		GZ-217	2.069	2.506	0.412	8	0.1202	CDF	Non-Significant Effect
		GZ-223	-3.541	2.506	0.412	8	1.0000	CDF	Non-Significant Effect
		GZ-224	-0.3853	2.506	0.412	8	0.9604	CDF	Non-Significant Effect
		GZ-225	-0.8679	2.506	0.412	8	0.9904	CDF	Non-Significant Effect

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	3.994654	0.4438505	9	6.576	<0.0001	Significant Effect
Error	2.699842	0.06749605	40			
Total	6.694496		49			

Distributional Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variances	Bartlett Equality of Variance	11.44	21.67	0.2469	Equal Variances
Distribution	Shapiro-Wilk W Normality	0.9766	0.9367	0.4205	Normal Distribution

Leptocheirus 28-d Survival, Growth and Reproduction Sediment Test — **New England Bioassay**

Analysis ID:	21-0240-8259	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.8.8
Analyzed:	01 Jun-15 11:31	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

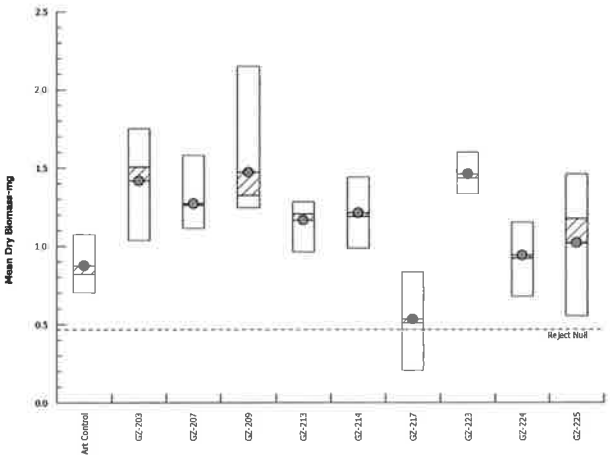
Mean Dry Biomass-mg Summary

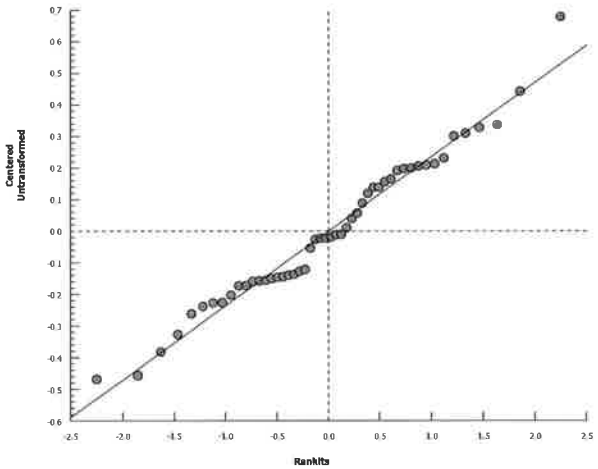
Sample Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
Art Control	5	0.8779	0.6644	1.091	0.824	0.7045	1.077	0.07691	19.59%	0.0%
GZ-203	5	1.418	1.045	1.791	1.507	1.036	1.752	0.1343	21.18%	-61.53%
GZ-207	5	1.272	1.037	1.507	1.261	1.115	1.582	0.08474	14.89%	-44.9%
GZ-209	5	1.473	1.001	1.946	1.326	1.246	2.152	0.1702	25.84%	-67.81%
GZ-213	5	1.167	1.014	1.319	1.206	0.9635	1.285	0.05491	10.52%	-32.9%
GZ-214	5	1.213	0.9559	1.469	1.19	0.986	1.443	0.09247	17.05%	-38.13%
GZ-217	5	0.538	0.2185	0.8575	0.515	0.211	0.839	0.1151	47.82%	38.72%
GZ-223	5	1.46	1.295	1.624	1.433	1.332	1.598	0.0592	9.07%	-66.28%
GZ-224	5	0.9412	0.6801	1.202	0.922	0.6795	1.154	0.09403	22.34%	-7.21%
GZ-225	5	1.021	0.4812	1.56	1.177	0.552	1.463	0.1942	42.56%	-16.24%

Mean Dry Biomass-mg Detail

Sample Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
Art Control	0.7415	0.7045	0.824	1.042	1.077
GZ-203	1.752	1.507	1.18	1.036	1.615
GZ-207	1.261	1.115	1.582	1.121	1.282
GZ-209	2.152	1.326	1.329	1.314	1.246
GZ-213	1.285	1.223	0.9635	1.206	1.155
GZ-214	0.986	1.404	1.443	1.19	1.04
GZ-217	0.3815	0.211	0.515	0.839	0.7435
GZ-223	1.338	1.433	1.598	1.598	1.332
GZ-224	1.15	0.922	1.154	0.8015	0.6795
GZ-225	0.564	1.348	1.463	1.177	0.552

Graphics





Leptocheirus 28-d Survival, Growth and Reproduction Sediment Test — **New England Bioassay**

Analysis ID:	17-2453-9912	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv1.8.8
Analyzed:	03 Jun-15 9:32	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes
Batch ID:	01-5466-7590	**Test Type:**	Leptocheirus (28-d)	**Analyst:**	
Start Date:	30 Apr-15	**Protocol:**	EPA/600/R-01/020 (2001)	**Diluent:**	Not Applicable
Ending Date:	28 May-15	**Species:**	Leptocheirus plumulosus	**Brine:**	Instant Ocean
Duration:	28d 0h	**Source:**	In-House Culture	**Age:**	

Sample Code	Sample ID	Sample Date	Receive Date	Sample Age	Client Name	Project
Art Control	04-5032-5421	25 Mar-15		36d 0h	GZA GeoEnvironmental	
Nat Control	11-3861-7478	24 Mar-15	21 Apr-15	37d 0h		
LC-102	14-0824-4221	26 Mar-15	21 Apr-15	35d 0h		
LC-105	19-8730-7911	26 Mar-15	21 Apr-15	35d 0h		
LC-112	09-5123-6710	27 Mar-15	21 Apr-15	34d 0h		

Sample Code	Material Type	Sample Source	Station Location	Latitude	Longitude
Art Control	Not Applicable	Wynn - Everett MA	Art Control		
Nat Control	Not Applicable	Wynn - Everett MA	Nat Control		
LC-102	Reference sediment	Wynn - Everett MA	LC-102		
LC-105	Reference sediment	Wynn - Everett MA	LC-105		
LC-112	Reference sediment	Wynn - Everett MA	LC-112		

Data Transform	Zeta	Alt Hyp	Trials	Seed	PMSD	Test Result
Untransformed	NA	C > T	NA	NA	79.1%	

Dunnett Multiple Comparison Test

Sample Code	vs	Sample Code	Test Stat	Critical	MSD	DF	P-Value	P-Type	Decision(α:5%)
Art Control		Nat Control	0.6367	2.305	1.368	8	0.5423	CDF	Non-Significant Effect
		LC-102	-1.072	2.305	1.368	8	0.9801	CDF	Non-Significant Effect
		LC-105	0.355	2.305	1.368	8	0.6664	CDF	Non-Significant Effect
		LC-112	-0.5926	2.305	1.368	8	0.9361	CDF	Non-Significant Effect

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	3.419955	0.8549886	4	0.9706	0.4454	Non-Significant Effect
Error	17.61759	0.8808794	20			
Total	21.03754		24			

Distributional Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variances	Bartlett Equality of Variance	3.158	13.28	0.5317	Equal Variances
Distribution	Shapiro-Wilk W Normality	0.9286	0.8877	0.0807	Normal Distribution

Reproduction Summary

Sample Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
Art Control	5	1.73	0.7308	2.729	1.467	1	3	0.3598	46.51%	0.0%
Nat Control	5	1.352	0.5441	2.159	1.214	0.6429	2.056	0.2909	48.12%	21.85%
LC-102	5	2.366	1.085	3.647	2.05	1.278	3.818	0.4615	43.62%	-36.79%
LC-105	5	1.519	0.7234	2.315	1.5	0.8235	2.389	0.2865	42.18%	12.18%
LC-112	5	2.081	0.3887	3.774	1.588	0.9412	4.313	0.6097	65.5%	-20.34%

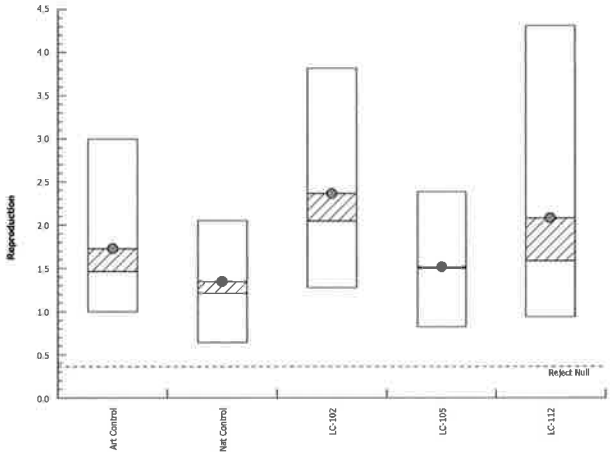
Reproduction Detail

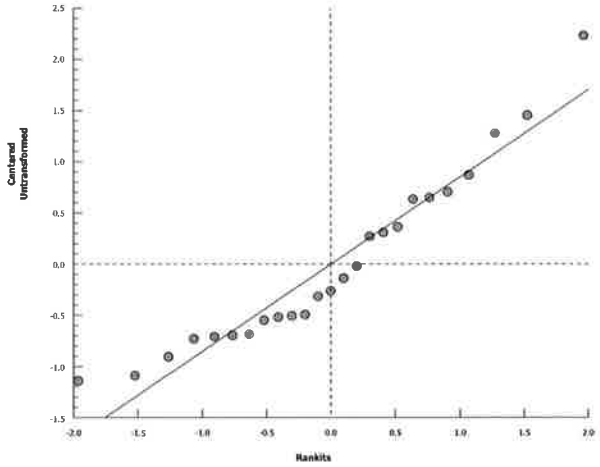
Sample Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
Art Control	1	2	1.182	3	1.467
Nat Control	0.8462	2.056	1.214	2	0.6429
LC-102	1.278	2.05	3.818	1.684	3
LC-105	1	2.389	1.5	0.8235	1.882
LC-112	4.313	2.389	1.176	0.9412	1.588

Leptocheirus 28-d Survival, Growth and Reproduction Sediment Test — **New England Bioassay**

Analysis ID:	17-2453-9912	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv1.8.8
Analyzed:	03 Jun-15 9:32	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Graphics





Leptocheirus 28-d Survival, Growth and Reproduction Sediment Test — **New England Bioassay**

Analysis ID:	10-6335-0480	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv1.8.8
Analyzed:	03 Jun-15 9:33	**Analysis:**	Nonparametric-Control vs Treatments	**Official Results:**	Yes
Batch ID:	01-5466-7590	**Test Type:**	Leptocheirus (28-d)	**Analyst:**	
Start Date:	30 Apr-15	**Protocol:**	EPA/600/R-01/020 (2001)	**Diluent:**	Not Applicable
Ending Date:	28 May-15	**Species:**	Leptocheirus plumulosus	**Brine:**	Instant Ocean
Duration:	28d 0h	**Source:**	In-House Culture	**Age:**	

Sample Code	Sample ID	Sample Date	Receive Date	Sample Age	Client Name	Project
Art Control	04-5032-5421	25 Mar-15		36d 0h	GZA GeoEnvironmental	
GZ-203	02-5461-8029	24 Mar-15	21 Apr-15	37d 0h		
GZ-207	03-2338-4998	25 Mar-15	21 Apr-15	36d 0h		
GZ-209	16-5046-1852	25 Mar-15	21 Apr-15	36d 0h		
GZ-213	17-1685-0966	25 Mar-15	21 Apr-15	36d 0h		
GZ-214	15-3950-8822	30 Mar-15	21 Apr-15	31d 0h		
GZ-217	04-7415-4404	24 Mar-15	21 Apr-15	37d 0h		
GZ-223	08-6096-2100	30 Mar-15	21 Apr-15	31d 0h		
GZ-224	13-6271-4856	30 Mar-15	21 Apr-15	31d 0h		
GZ-225	18-0414-8615	27 Mar-15	21 Apr-15	34d 0h		

Sample Code	Material Type	Sample Source	Station Location	Latitude	Longitude
Art Control	Not Applicable	Wynn - Everett MA	Art Control		
GZ-203	Site Sediment	Wynn - Everett MA	GZ-203		
GZ-207	Site Sediment	Wynn - Everett MA	GZ-207		
GZ-209	Site Sediment	Wynn - Everett MA	GZ-209		
GZ-213	Site Sediment	Wynn - Everett MA	GZ-213		
GZ-214	Site Sediment	Wynn - Everett MA	GZ-214		
GZ-217	Site Sediment	Wynn - Everett MA	GZ-217		
GZ-223	Site Sediment	Wynn - Everett MA	GZ-223		
GZ-224	Site Sediment	Wynn - Everett MA	GZ-224		
GZ-225	Site Sediment	Wynn - Everett MA	GZ-225		

Data Transform	Zeta	Alt Hyp	Trials	Seed	PMSD	Test Result
Untransformed	NA	C > T	NA	NA	102.0%	

Steel Many-One Rank Sum Test

Sample Code	vs	Sample Code	Test Stat	Critical	Ties	DF	P-Value	P-Type	Decision(α:5%)
Art Control		GZ-203	25.5	15	1	8	0.7779	Asymp	Non-Significant Effect
		GZ-207	24	15	0	8	0.6482	Asymp	Non-Significant Effect
		GZ-209	33	15	0	8	0.9967	Asymp	Non-Significant Effect
		GZ-213	15	15	0	8	0.0306	Asymp	Significant Effect
		GZ-214	16.5	15	1	8	0.0662	Asymp	Non-Significant Effect
		GZ-217	15	15	0	8	0.0306	Asymp	Significant Effect
		GZ-223	28	15	0	8	0.9209	Asymp	Non-Significant Effect
		GZ-224	15	15	0	8	0.0306	Asymp	Significant Effect
		GZ-225	23	15	0	8	0.5498	Asymp	Non-Significant Effect

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	35.21749	3.913054	9	3.154	0.0058	Significant Effect
Error	49.62897	1.240724	40			
Total	84.84646		49			

Distributional Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variances	Bartlett Equality of Variance	42.61	21.67	<0.0001	Unequal Variances
Distribution	Shapiro-Wilk W Normality	0.8723	0.9367	<0.0001	Non-normal Distribution

Leptocheirus 28-d Survival, Growth and Reproduction Sediment Test — **New England Bioassay**

Analysis ID:	10-6335-0480	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv1.8.8
Analyzed:	03 Jun-15 9:33	**Analysis:**	Nonparametric-Control vs Treatments	**Official Results:**	Yes

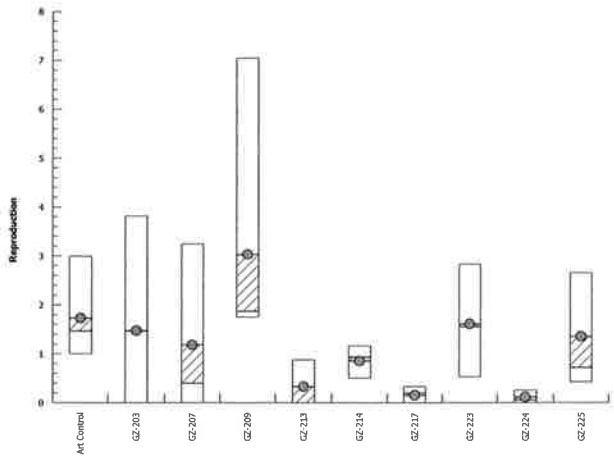
Reproduction Summary

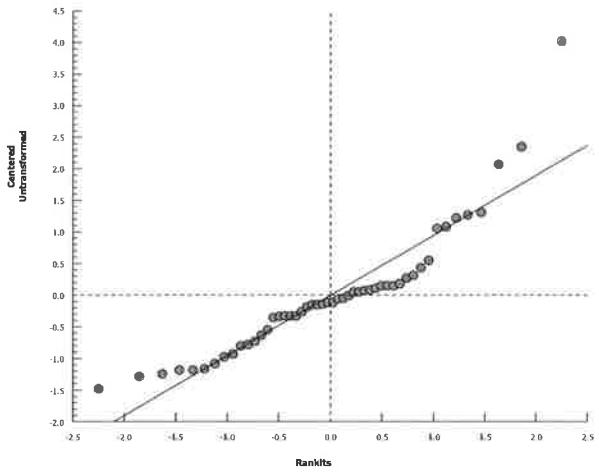
Sample Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
Art Control	5	1.73	0.7308	2.729	1.467	1	3	0.3598	46.51%	0.0%
GZ-203	5	1.475	-0.3516	3.301	1.467	0	3.824	0.6578	99.74%	14.74%
GZ-207	5	1.183	-0.6645	3.031	0.4	0	3.25	0.6655	125.8%	31.59%
GZ-209	5	3.029	0.1956	5.863	1.867	1.75	7.053	1.021	75.34%	-75.14%
GZ-213	5	0.3294	-0.233	0.8919	0	0	0.8824	0.2026	137.5%	80.96%
GZ-214	5	0.8542	0.5219	1.186	0.9375	0.5	1.167	0.1197	31.33%	50.62%
GZ-217	5	0.1511	-0.03129	0.3335	0.2	0	0.3333	0.0657	97.21%	91.26%
GZ-223	5	1.613	0.5952	2.631	1.563	0.5294	2.833	0.3666	50.82%	6.74%
GZ-224	5	0.1184	-0.05222	0.2891	0.05882	0	0.2667	0.06146	116.0%	93.15%
GZ-225	5	1.357	0.006024	2.708	0.7222	0.4286	2.667	0.4866	80.18%	21.55%

Reproduction Detail

Sample Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
Art Control	1	2	1.182	3	1.467
GZ-203	3.824	0.5	0	1.583	1.467
GZ-207	2.267	3.25	0.4	0	0
GZ-209	7.053	1.75	1.867	2.692	1.786
GZ-213	0	0.7647	0	0.8824	0
GZ-214	1.167	0.5	0.9375	0.6667	1
GZ-217	0.2222	0	0.2	0	0.3333
GZ-223	1.667	1.563	1.474	2.833	0.5294
GZ-224	0.05882	0.2667	0	0.2667	0
GZ-225	0.5556	0.7222	2.667	2.412	0.4286

Graphics





SUMMARY OF TEST RESULTS
28-DAY L.PLUMULOSUS TOXICITY TESTS
WYNN-EVERETT (Test Dates 4/30/15 – 5/28/15)
NATURAL CONTROL COMPARISION

Sample	28-day Survival (%)		Biomass (mg)		Reproduction (number of young)	
	Mean	Sig[a]	Mean	Sig[a]	Mean[b]	Sig[a]
Natural Control	71	--	1.035	--	1.352	--
Artificial Control	62	NS	0.8779	NS	1.73	NS
LC-102	83	NS	1.586	NS	2.366	NS
LC-105	87	NS	1.772	NS	1.519	NS
LC-112	85	NS	1.42	NS	2.081	NS
GZ-203	77	NS	1.418	NS	1.475	NS
GZ-207	69	NS	1.272	NS	1.183	NS
GZ-209	73	NS	1.473	NS	3.029	NS
GZ-213	82	NS	1.167	NS	0.3294	NS
GZ-214	70	NS	1.213	NS	0.8542	NS
GZ-217	57	NS	0.538	*	0.1511	*
GZ-223	85	NS	1.46	NS	1.613	NS
GZ-224	71	NS	0.9412	NS	0.1184	*
GZ-225	73	NS	1.021	NS	1.357	NS

[a]NS: Not significantly reduced at P = 0.05; *: significant at P = 0.05.
when compared with natural control

[b] Reproduction as the average of [young per rep/surviving adults per rep]

Leptocheirus 28-d Survival, Growth and Reproduction Sediment Test — **New England Bioassay**

Analysis ID:	05-2554-9801	**Endpoint:**	Survival Rate	**CETIS Version:**	CETISv1.8.8
Analyzed:	03 Jun-15 9:31	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes
Batch ID:	01-5466-7590	**Test Type:**	Leptocheirus (28-d)	**Analyst:**	
Start Date:	30 Apr-15	**Protocol:**	EPA/600/R-01/020 (2001)	**Diluent:**	Not Applicable
Ending Date:	28 May-15	**Species:**	Leptocheirus plumulosus	**Brine:**	Instant Ocean
Duration:	28d 0h	**Source:**	In-House Culture	**Age:**	

Sample Code	Sample ID	Sample Date	Receive Date	Sample Age	Client Name	Project
Art Control	04-5032-5421	25 Mar-15		36d 0h	GZA GeoEnvironmental	
Nat Control	11-3861-7478	24 Mar-15	21 Apr-15	37d 0h		
LC-102	14-0824-4221	26 Mar-15	21 Apr-15	35d 0h		
LC-105	19-8730-7911	26 Mar-15	21 Apr-15	35d 0h		
LC-112	09-5123-6710	27 Mar-15	21 Apr-15	34d 0h		

Sample Code	Material Type	Sample Source	Station Location	Latitude	Longitude
Art Control	Not Applicable	Wynn - Everett MA	Art Control		
Nat Control	Not Applicable	Wynn - Everett MA	Nat Control		
LC-102	Reference sediment	Wynn - Everett MA	LC-102		
LC-105	Reference sediment	Wynn - Everett MA	LC-105		
LC-112	Reference sediment	Wynn - Everett MA	LC-112		

Data Transform	Zeta	Alt Hyp	Trials	Seed	PMSD	Test Result
Angular (Corrected)	NA	C > T	NA	NA	27.2%	

Dunnett Multiple Comparison Test

Sample Code	vs	Sample Code	Test Stat	Critical	MSD	DF	P-Value	P-Type	Decision(α:5%)
Nat Control		Art Control	1.128	2.305	0.209	8	0.3283	CDF	Non-Significant Effect
		LC-102	-1.946	2.305	0.209	8	0.9984	CDF	Non-Significant Effect
		LC-105	-2.193	2.305	0.209	8	0.9993	CDF	Non-Significant Effect
		LC-112	-1.813	2.305	0.209	8	0.9976	CDF	Non-Significant Effect

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	0.348152	0.08703799	4	4.25	0.0119	Significant Effect
Error	0.4095784	0.02047892	20			
Total	0.7577303		24			

Distributional Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variances	Bartlett Equality of Variance	9.49	13.28	0.0500	Equal Variances
Distribution	Shapiro-Wilk W Normality	0.9527	0.8877	0.2887	Normal Distribution

Survival Rate Summary

Sample Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
Art Control	5	0.62	0.499	0.741	0.55	0.55	0.75	0.04359	15.72%	0.0%
Nat Control	5	0.71	0.5684	0.8516	0.7	0.6	0.9	0.05099	16.06%	-14.52%
LC-102	5	0.83	0.6036	1	0.9	0.55	1	0.08155	21.97%	-33.87%
LC-105	5	0.87	0.7992	0.9408	0.85	0.8	0.95	0.0255	6.55%	-40.32%
LC-112	5	0.85	0.8061	0.8939	0.85	0.8	0.9	0.01581	4.16%	-37.1%

Angular (Corrected) Transformed Summary

Sample Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
Art Control	5	0.909	0.7816	1.036	0.8355	0.8355	1.047	0.04586	11.28%	0.0%
Nat Control	5	1.011	0.8372	1.185	0.9912	0.8861	1.249	0.06262	13.85%	-11.23%
LC-102	5	1.187	0.8793	1.495	1.249	0.8355	1.459	0.1109	20.88%	-30.61%
LC-105	5	1.21	1.097	1.323	1.173	1.107	1.345	0.0407	7.52%	-33.07%
LC-112	5	1.175	1.113	1.237	1.173	1.107	1.249	0.02247	4.28%	-29.28%

Leptocheirus 28-d Survival, Growth and Reproduction Sediment Test — **New England Bioassay**

Analysis ID:	05-2554-9801	**Endpoint:**	Survival Rate	**CETIS Version:**	CETISv1.8.8
Analyzed:	03 Jun-15 9:31	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Survival Rate Detail

Sample Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
Art Control	0.55	0.55	0.55	0.7	0.75
Nat Control	0.65	0.9	0.7	0.6	0.7
LC-102	0.9	1	0.55	0.95	0.75
LC-105	0.95	0.9	0.8	0.85	0.85
LC-112	0.8	0.9	0.85	0.85	0.85

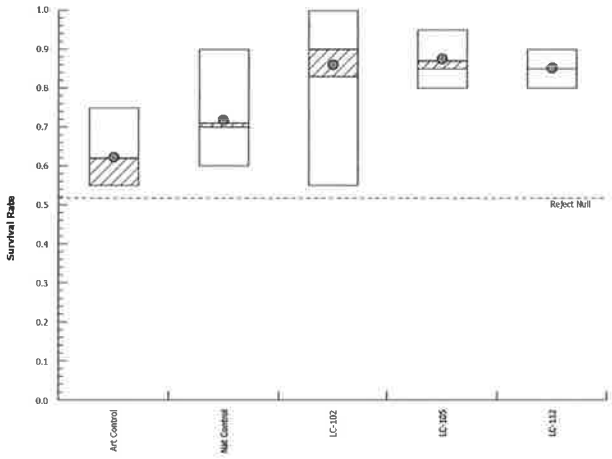
Angular (Corrected) Transformed Detail

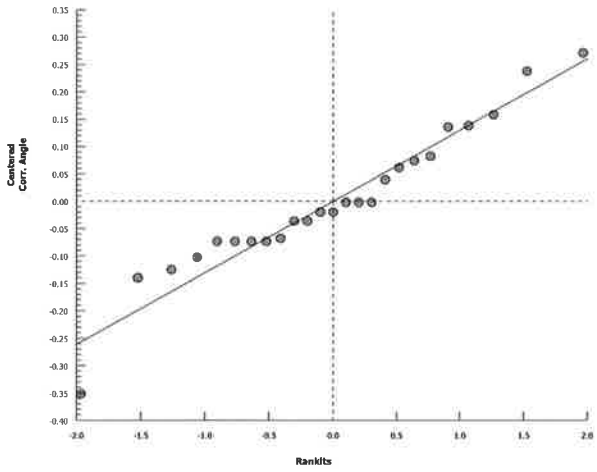
Sample Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
Art Control	0.8355	0.8355	0.8355	0.9912	1.047
Nat Control	0.9377	1.249	0.9912	0.8861	0.9912
LC-102	1.249	1.459	0.8355	1.345	1.047
LC-105	1.345	1.249	1.107	1.173	1.173
LC-112	1.107	1.249	1.173	1.173	1.173

Survival Rate Binomials

Sample Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
Art Control	11/20	11/20	11/20	14/20	15/20
Nat Control	13/20	18/20	14/20	12/20	14/20
LC-102	18/20	20/20	11/20	19/20	15/20
LC-105	19/20	18/20	16/20	17/20	17/20
LC-112	16/20	18/20	17/20	17/20	17/20

Graphics





Leptocheirus 28-d Survival, Growth and Reproduction Sediment Test — **New England Bioassay**

Analysis ID:	10-3040-5051	**Endpoint:**	Survival Rate	**CETIS Version:**	CETISv1.8.8
Analyzed:	03 Jun-15 9:32	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes
Batch ID:	01-5466-7590	**Test Type:**	Leptocheirus (28-d)	**Analyst:**	
Start Date:	30 Apr-15	**Protocol:**	EPA/600/R-01/020 (2001)	**Diluent:**	Not Applicable
Ending Date:	28 May-15	**Species:**	Leptocheirus plumulosus	**Brine:**	Instant Ocean
Duration:	28d 0h	**Source:**	In-House Culture	**Age:**	

Sample Code	Sample ID	Sample Date	Receive Date	Sample Age	Client Name	Project
Nat Control	11-3861-7478	24 Mar-15	21 Apr-15	37d 0h	GZA GeoEnvironmental	
GZ-203	02-5461-8029	24 Mar-15	21 Apr-15	37d 0h		
GZ-207	03-2338-4998	25 Mar-15	21 Apr-15	36d 0h		
GZ-209	16-5046-1852	25 Mar-15	21 Apr-15	36d 0h		
GZ-213	17-1685-0966	25 Mar-15	21 Apr-15	36d 0h		
GZ-214	15-3950-8822	30 Mar-15	21 Apr-15	31d 0h		
GZ-217	04-7415-4404	24 Mar-15	21 Apr-15	37d 0h		
GZ-223	08-6096-2100	30 Mar-15	21 Apr-15	31d 0h		
GZ-224	13-6271-4856	30 Mar-15	21 Apr-15	31d 0h		
GZ-225	18-0414-8615	27 Mar-15	21 Apr-15	34d 0h		

Sample Code	Material Type	Sample Source	Station Location	Latitude	Longitude
Nat Control	Not Applicable	Wynn - Everett MA	Nat Control		
GZ-203	Site Sediment	Wynn - Everett MA	GZ-203		
GZ-207	Site Sediment	Wynn - Everett MA	GZ-207		
GZ-209	Site Sediment	Wynn - Everett MA	GZ-209		
GZ-213	Site Sediment	Wynn - Everett MA	GZ-213		
GZ-214	Site Sediment	Wynn - Everett MA	GZ-214		
GZ-217	Site Sediment	Wynn - Everett MA	GZ-217		
GZ-223	Site Sediment	Wynn - Everett MA	GZ-223		
GZ-224	Site Sediment	Wynn - Everett MA	GZ-224		
GZ-225	Site Sediment	Wynn - Everett MA	GZ-225		

Data Transform	Zeta	Alt Hyp	Trials	Seed	PMSD	Test Result
Angular (Corrected)	NA	C > T	NA	NA	31.2%	

Dunnett Multiple Comparison Test

Sample Code	vs	Sample Code	Test Stat	Critical	MSD	DF	P-Value	P-Type	Decision(α:5%)
Nat Control		GZ-203	-0.7001	2.506	0.237	8	0.9838	CDF	Non-Significant Effect
		GZ-207	0.308	2.506	0.237	8	0.8165	CDF	Non-Significant Effect
		GZ-209	-0.3216	2.506	0.237	8	0.9532	CDF	Non-Significant Effect
		GZ-213	-1.348	2.506	0.237	8	0.9982	CDF	Non-Significant Effect
		GZ-214	0.1523	2.506	0.237	8	0.8630	CDF	Non-Significant Effect
		GZ-217	1.552	2.506	0.237	8	0.2774	CDF	Non-Significant Effect
		GZ-223	-1.83	2.506	0.237	8	0.9997	CDF	Non-Significant Effect
		GZ-224	0.03055	2.506	0.237	8	0.8932	CDF	Non-Significant Effect
		GZ-225	-0.297	2.506	0.237	8	0.9502	CDF	Non-Significant Effect

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	0.3484811	0.03872013	9	1.728	0.1144	Non-Significant Effect
Error	0.8965376	0.02241344	40			
Total	1.245019		49			

Distributional Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variances	Bartlett Equality of Variance	8.166	21.67	0.5175	Equal Variances
Distribution	Shapiro-Wilk W Normality	0.9898	0.9367	0.9412	Normal Distribution

Leptocheirus 28-d Survival, Growth and Reproduction Sediment Test — **New England Bioassay**

Analysis ID: 10-3040-5051 **Endpoint:** Survival Rate **CETIS Version:** CETISv1.8.8
Analyzed: 03 Jun-15 9:32 **Analysis:** Parametric-Control vs Treatments **Official Results:** Yes

Survival Rate Summary

Sample Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
Nat Control	5	0.71	0.5684	0.8516	0.7	0.6	0.9	0.05099	16.06%	0.0%
GZ-203	5	0.77	0.6413	0.8987	0.8	0.6	0.85	0.04637	13.47%	-8.45%
GZ-207	5	0.69	0.6091	0.7709	0.7	0.6	0.75	0.02915	9.45%	2.82%
GZ-209	5	0.73	0.5623	0.8977	0.7	0.6	0.95	0.06042	18.51%	-2.82%
GZ-213	5	0.82	0.7258	0.9142	0.85	0.7	0.9	0.03391	9.25%	-15.49%
GZ-214	5	0.7	0.5544	0.8456	0.75	0.55	0.8	0.05244	16.75%	1.41%
GZ-217	5	0.57	0.2903	0.8497	0.5	0.3	0.85	0.1007	39.52%	19.72%
GZ-223	5	0.85	0.7518	0.9482	0.85	0.75	0.95	0.03536	9.3%	-19.72%
GZ-224	5	0.71	0.5684	0.8516	0.75	0.55	0.85	0.05099	16.06%	0.0%
GZ-225	5	0.73	0.5123	0.9477	0.75	0.45	0.9	0.07842	24.02%	-2.82%

Angular (Corrected) Transformed Summary

Sample Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
Nat Control	5	1.011	0.8372	1.185	0.9912	0.8861	1.249	0.06262	13.85%	0.0%
GZ-203	5	1.077	0.9295	1.225	1.107	0.8861	1.173	0.05325	11.05%	-6.56%
GZ-207	5	0.9819	0.8946	1.069	0.9912	0.8861	1.047	0.03142	7.16%	2.88%
GZ-209	5	1.041	0.8178	1.265	0.9912	0.8861	1.345	0.08055	17.29%	-3.01%
GZ-213	5	1.139	1.019	1.259	1.173	0.9912	1.249	0.04319	8.48%	-12.63%
GZ-214	5	0.9966	0.8381	1.155	1.047	0.8355	1.107	0.05709	12.81%	1.43%
GZ-217	5	0.8641	0.5646	1.164	0.7854	0.5796	1.173	0.1079	27.91%	14.53%
GZ-223	5	1.184	1.039	1.33	1.173	1.047	1.345	0.05243	9.9%	-17.14%
GZ-224	5	1.008	0.8498	1.166	1.047	0.8355	1.173	0.05702	12.65%	0.29%
GZ-225	5	1.039	0.7934	1.285	1.047	0.7353	1.249	0.08851	19.05%	-2.78%

Survival Rate Detail

Sample Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
Nat Control	0.65	0.9	0.7	0.6	0.7
GZ-203	0.85	0.8	0.85	0.6	0.75
GZ-207	0.75	0.6	0.75	0.7	0.65
GZ-209	0.95	0.6	0.75	0.65	0.7
GZ-213	0.9	0.85	0.7	0.85	0.8
GZ-214	0.6	0.8	0.8	0.75	0.55
GZ-217	0.45	0.3	0.5	0.85	0.75
GZ-223	0.75	0.8	0.95	0.9	0.85
GZ-224	0.85	0.75	0.65	0.75	0.55
GZ-225	0.45	0.9	0.75	0.85	0.7

Angular (Corrected) Transformed Detail

Sample Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
Nat Control	0.9377	1.249	0.9912	0.8861	0.9912
GZ-203	1.173	1.107	1.173	0.8861	1.047
GZ-207	1.047	0.8861	1.047	0.9912	0.9377
GZ-209	1.345	0.8861	1.047	0.9377	0.9912
GZ-213	1.249	1.173	0.9912	1.173	1.107
GZ-214	0.8861	1.107	1.107	1.047	0.8355
GZ-217	0.7353	0.5796	0.7854	1.173	1.047
GZ-223	1.047	1.107	1.345	1.249	1.173
GZ-224	1.173	1.047	0.9377	1.047	0.8355
GZ-225	0.7353	1.249	1.047	1.173	0.9912

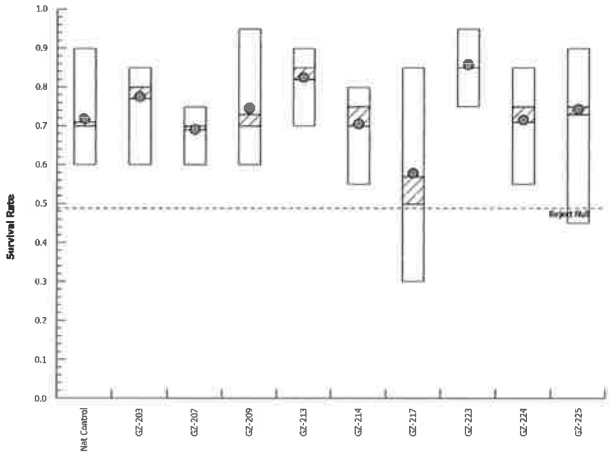
Leptocheirus 28-d Survival, Growth and Reproduction Sediment Test **New England Bioassay**

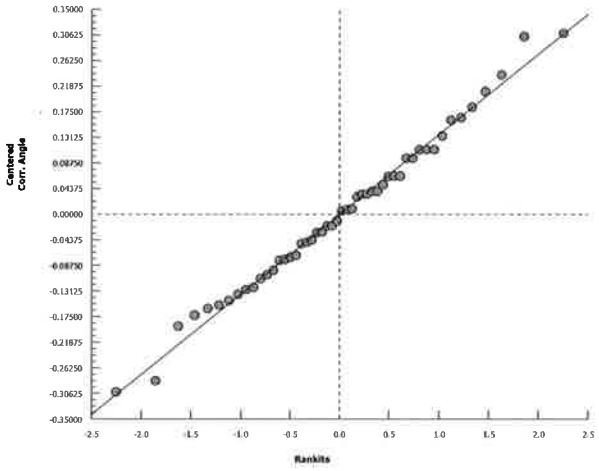
Analysis ID:	10-3040-5051	**Endpoint:**	Survival Rate	**CETIS Version:**	CETISv1.8.8
Analyzed:	03 Jun-15 9:32	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Survival Rate Binomials

Sample Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
Nat Control	13/20	18/20	14/20	12/20	14/20
GZ-203	17/20	16/20	17/20	12/20	15/20
GZ-207	15/20	12/20	15/20	14/20	13/20
GZ-209	19/20	12/20	15/20	13/20	14/20
GZ-213	18/20	17/20	14/20	17/20	16/20
GZ-214	12/20	16/20	16/20	15/20	11/20
GZ-217	9/20	6/20	10/20	17/20	15/20
GZ-223	15/20	16/20	19/20	18/20	17/20
GZ-224	17/20	15/20	13/20	15/20	11/20
GZ-225	9/20	18/20	15/20	17/20	14/20

Graphics





Leptocheirus 28-d Survival, Growth and Reproduction Sediment Test — **New England Bioassay**

Analysis ID:	13-0556-5577	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.8.8
Analyzed:	01 Jun-15 11:30	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes
Batch ID:	01-5466-7590	**Test Type:**	Leptocheirus (28-d)	**Analyst:**	
Start Date:	30 Apr-15	**Protocol:**	EPA/600/R-01/020 (2001)	**Diluent:**	Not Applicable
Ending Date:	28 May-15	**Species:**	Leptocheirus plumulosus	**Brine:**	Instant Ocean
Duration:	28d 0h	**Source:**	In-House Culture	**Age:**	

Sample Code	Sample ID	Sample Date	Receive Date	Sample Age	Client Name	Project
Art Control	04-5032-5421	25 Mar-15		36d 0h	GZA GeoEnvironmental	
Nat Control	11-3861-7478	24 Mar-15	21 Apr-15	37d 0h		
LC-102	14-0824-4221	26 Mar-15	21 Apr-15	35d 0h		
LC-105	19-8730-7911	26 Mar-15	21 Apr-15	35d 0h		
LC-112	09-5123-6710	27 Mar-15	21 Apr-15	34d 0h		

Sample Code	Material Type	Sample Source	Station Location	Latitude	Longitude
Art Control	Not Applicable	Wynn - Everett MA	Art Control		
Nat Control	Not Applicable	Wynn - Everett MA	Nat Control		
LC-102	Reference sediment	Wynn - Everett MA	LC-102		
LC-105	Reference sediment	Wynn - Everett MA	LC-105		
LC-112	Reference sediment	Wynn - Everett MA	LC-112		

Data Transform	Zeta	Alt Hyp	Trials	Seed	PMSD	Test Result
Untransformed	NA	C > T	NA	NA	32.2%	

Dunnett Multiple Comparison Test

Sample Code	vs	Sample Code	Test Stat	Critical	MSD	DF	P-Value	P-Type	Decision(α:5%)
Nat Control		Art Control	1.086	2.305	0.333	8	0.3451	CDF	Non-Significant Effect
		LC-102	-3.807	2.305	0.333	8	1.0000	CDF	Non-Significant Effect
		LC-105	-5.096	2.305	0.333	8	1.0000	CDF	Non-Significant Effect
		LC-112	-2.663	2.305	0.333	8	0.9998	CDF	Non-Significant Effect

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	2.801481	0.7003703	4	13.39	<0.0001	Significant Effect
Error	1.046485	0.05232427	20			
Total	3.847967		24			

Distributional Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variances	Bartlett Equality of Variance	4.781	13.28	0.3106	Equal Variances
Distribution	Shapiro-Wilk W Normality	0.9342	0.8877	0.1087	Normal Distribution

Mean Dry Biomass-mg Summary

Sample Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
Art Control	5	0.8779	0.6644	1.091	0.824	0.7045	1.077	0.07691	19.59%	0.0%
Nat Control	5	1.035	0.8239	1.246	0.973	0.892	1.292	0.07604	16.43%	-17.9%
LC-102	5	1.586	1.139	2.032	1.782	1.036	1.861	0.1608	22.67%	-80.64%
LC-105	5	1.772	1.612	1.932	1.826	1.557	1.867	0.0577	7.28%	-101.9%
LC-112	5	1.42	1.123	1.717	1.514	1.046	1.617	0.107	16.85%	-61.78%

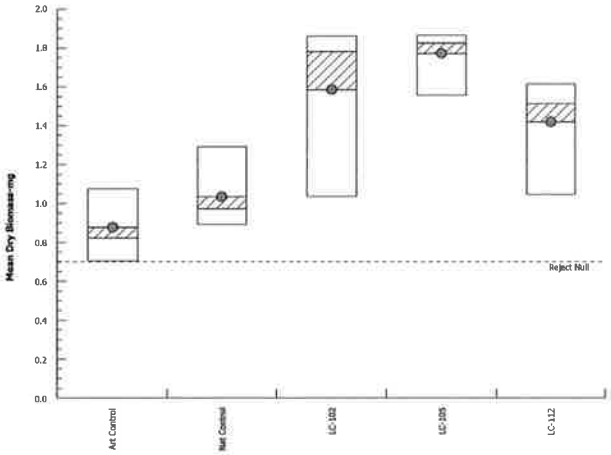
Mean Dry Biomass-mg Detail

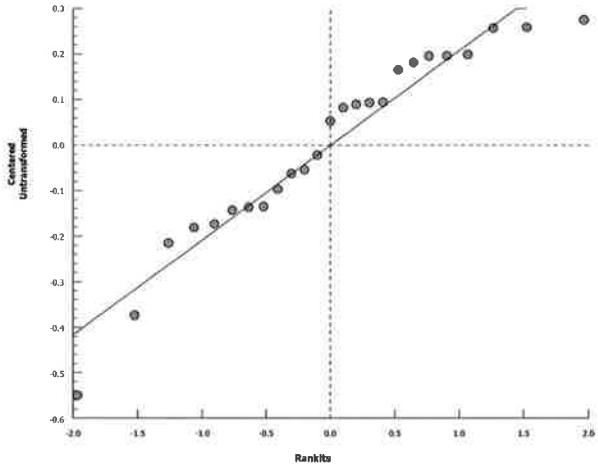
Sample Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
Art Control	0.7415	0.7045	0.824	1.042	1.077
Nat Control	0.892	1.292	0.973	0.9	1.118
LC-102	1.861	1.782	1.036	1.845	1.405
LC-105	1.826	1.751	1.557	1.867	1.862
LC-112	1.514	1.601	1.046	1.323	1.617

Leptocheirus 28-d Survival, Growth and Reproduction Sediment Test — **New England Bioassay**

Analysis ID:	13-0556-5577	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.8.8
Analyzed:	01 Jun-15 11:30	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Graphics





Leptocheirus 28-d Survival, Growth and Reproduction Sediment Test — **New England Bioassay**

Analysis ID:	01-3591-8261	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.8.8
Analyzed:	01 Jun-15 11:32	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes
Batch ID:	01-5466-7590	**Test Type:**	Leptocheirus (28-d)	**Analyst:**	
Start Date:	30 Apr-15	**Protocol:**	EPA/600/R-01/020 (2001)	**Diluent:**	Not Applicable
Ending Date:	28 May-15	**Species:**	Leptocheirus plumulosus	**Brine:**	Instant Ocean
Duration:	28d 0h	**Source:**	In-House Culture	**Age:**	

Sample Code	Sample ID	Sample Date	Receive Date	Sample Age	Client Name	Project
Nat Control	11-3861-7478	24 Mar-15	21 Apr-15	37d 0h	GZA GeoEnvironmental	
GZ-203	02-5461-8029	24 Mar-15	21 Apr-15	37d 0h		
GZ-207	03-2338-4998	25 Mar-15	21 Apr-15	36d 0h		
GZ-209	16-5046-1852	25 Mar-15	21 Apr-15	36d 0h		
GZ-213	17-1685-0966	25 Mar-15	21 Apr-15	36d 0h		
GZ-214	15-3950-8822	30 Mar-15	21 Apr-15	31d 0h		
GZ-217	04-7415-4404	24 Mar-15	21 Apr-15	37d 0h		
GZ-223	08-6096-2100	30 Mar-15	21 Apr-15	31d 0h		
GZ-224	13-6271-4856	30 Mar-15	21 Apr-15	31d 0h		
GZ-225	18-0414-8615	27 Mar-15	21 Apr-15	34d 0h		

Sample Code	Material Type	Sample Source	Station Location	Latitude	Longitude
Nat Control	Not Applicable	Wynn - Everett MA	Nat Control		
GZ-203	Site Sediment	Wynn - Everett MA	GZ-203		
GZ-207	Site Sediment	Wynn - Everett MA	GZ-207		
GZ-209	Site Sediment	Wynn - Everett MA	GZ-209		
GZ-213	Site Sediment	Wynn - Everett MA	GZ-213		
GZ-214	Site Sediment	Wynn - Everett MA	GZ-214		
GZ-217	Site Sediment	Wynn - Everett MA	GZ-217		
GZ-223	Site Sediment	Wynn - Everett MA	GZ-223		
GZ-224	Site Sediment	Wynn - Everett MA	GZ-224		
GZ-225	Site Sediment	Wynn - Everett MA	GZ-225		

Data Transform	Zeta	Alt Hyp	Trials	Seed	PMSD	Test Result
Untransformed	NA	C > T	NA	NA	39.8%	

Dunnett Multiple Comparison Test

Sample Code	vs	Sample Code	Test Stat	Critical	MSD	DF	P-Value	P-Type	Decision(α:5%)
Nat Control		GZ-203	-2.333	2.506	0.412	8	1.0000	CDF	Non-Significant Effect
		GZ-207	-1.444	2.506	0.412	8	0.9987	CDF	Non-Significant Effect
		GZ-209	-2.668	2.506	0.412	8	1.0000	CDF	Non-Significant Effect
		GZ-213	-0.8019	2.506	0.412	8	0.9881	CDF	Non-Significant Effect
		GZ-214	-1.081	2.506	0.412	8	0.9953	CDF	Non-Significant Effect
		GZ-217	3.026	2.506	0.412	8	0.0148	CDF	Significant Effect
		GZ-223	-2.587	2.506	0.412	8	1.0000	CDF	Non-Significant Effect
		GZ-224	0.5711	2.506	0.412	8	0.7188	CDF	Non-Significant Effect
		GZ-225	0.08828	2.506	0.412	8	0.8796	CDF	Non-Significant Effect

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	3.697082	0.4107869	9	6.092	<0.0001	Significant Effect
Error	2.697161	0.06742904	40			
Total	6.394243		49			

Distributional Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variances	Bartlett Equality of Variance	11.49	21.67	0.2439	Equal Variances
Distribution	Shapiro-Wilk W Normality	0.9782	0.9367	0.4780	Normal Distribution

Leptocheirus 28-d Survival, Growth and Reproduction Sediment Test — **New England Bioassay**

Analysis ID:	01-3591-8261	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.8.8
Analyzed:	01 Jun-15 11:32	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

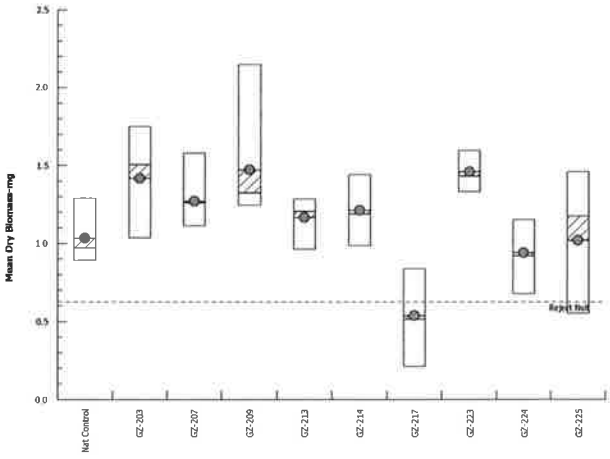
Mean Dry Biomass-mg Summary

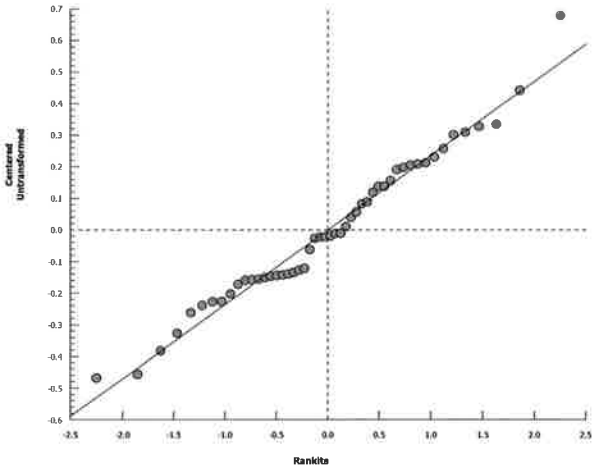
Sample Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
Nat Control	5	1.035	0.8239	1.246	0.973	0.892	1.292	0.07604	16.43%	0.0%
GZ-203	5	1.418	1.045	1.791	1.507	1.036	1.752	0.1343	21.18%	-37.01%
GZ-207	5	1.272	1.037	1.507	1.261	1.115	1.582	0.08474	14.89%	-22.91%
GZ-209	5	1.473	1.001	1.946	1.326	1.246	2.152	0.1702	25.84%	-42.34%
GZ-213	5	1.167	1.014	1.319	1.206	0.9635	1.285	0.05491	10.52%	-12.72%
GZ-214	5	1.213	0.9559	1.469	1.19	0.986	1.443	0.09247	17.05%	-17.16%
GZ-217	5	0.538	0.2185	0.8575	0.515	0.211	0.839	0.1151	47.82%	48.02%
GZ-223	5	1.46	1.295	1.624	1.433	1.332	1.598	0.0592	9.07%	-41.04%
GZ-224	5	0.9412	0.6801	1.202	0.922	0.6795	1.154	0.09403	22.34%	9.06%
GZ-225	5	1.021	0.4812	1.56	1.177	0.552	1.463	0.1942	42.56%	1.4%

Mean Dry Biomass-mg Detail

Sample Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
Nat Control	0.892	1.292	0.973	0.9	1.118
GZ-203	1.752	1.507	1.18	1.036	1.615
GZ-207	1.261	1.115	1.582	1.121	1.282
GZ-209	2.152	1.326	1.329	1.314	1.246
GZ-213	1.285	1.223	0.9635	1.206	1.155
GZ-214	0.986	1.404	1.443	1.19	1.04
GZ-217	0.3815	0.211	0.515	0.839	0.7435
GZ-223	1.338	1.433	1.598	1.598	1.332
GZ-224	1.15	0.922	1.154	0.8015	0.6795
GZ-225	0.564	1.348	1.463	1.177	0.552

Graphics





Leptocheirus 28-d Survival, Growth and Reproduction Sediment Test

New England Bioassay

Analysis ID:	01-4073-7208	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv1.8.8
Analyzed:	03 Jun-15 9:32	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes
Batch ID:	01-5466-7590	**Test Type:**	Leptocheirus (28-d)	**Analyst:**	
Start Date:	30 Apr-15	**Protocol:**	EPA/600/R-01/020 (2001)	**Diluent:**	Not Applicable
Ending Date:	28 May-15	**Species:**	Leptocheirus plumulosus	**Brine:**	Instant Ocean
Duration:	28d 0h	**Source:**	In-House Culture	**Age:**	

Sample Code	Sample ID	Sample Date	Receive Date	Sample Age	Client Name	Project
Art Control	04-5032-5421	25 Mar-15		36d 0h	GZA GeoEnvironmental	
Nat Control	11-3861-7478	24 Mar-15	21 Apr-15	37d 0h		
LC-102	14-0824-4221	26 Mar-15	21 Apr-15	35d 0h		
LC-105	19-8730-7911	26 Mar-15	21 Apr-15	35d 0h		
LC-112	09-5123-6710	27 Mar-15	21 Apr-15	34d 0h		

Sample Code	Material Type	Sample Source	Station Location	Latitude	Longitude
Art Control	Not Applicable	Wynn - Everett MA	Art Control		
Nat Control	Not Applicable	Wynn - Everett MA	Nat Control		
LC-102	Reference sediment	Wynn - Everett MA	LC-102		
LC-105	Reference sediment	Wynn - Everett MA	LC-105		
LC-112	Reference sediment	Wynn - Everett MA	LC-112		

Data Transform	Zeta	Alt Hyp	Trials	Seed	PMSD	Test Result
Untransformed	NA	C > T	NA	NA	101.0%	

Dunnett Multiple Comparison Test

Sample Code	vs	Sample Code	Test Stat	Critical	MSD	DF	P-Value	P-Type	Decision(α:5%)
Nat Control		Art Control	-0.6367	2.305	1.368	8	0.9421	CDF	Non-Significant Effect
		LC-102	-1.709	2.305	1.368	8	0.9967	CDF	Non-Significant Effect
		LC-105	-0.2816	2.305	1.368	8	0.8785	CDF	Non-Significant Effect
		LC-112	-1.229	2.305	1.368	8	0.9869	CDF	Non-Significant Effect

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	3.419955	0.8549886	4	0.9706	0.4454	Non-Significant Effect
Error	17.61759	0.8808794	20			
Total	21.03754		24			

Distributional Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variances	Bartlett Equality of Variance	3.158	13.28	0.5317	Equal Variances
Distribution	Shapiro-Wilk W Normality	0.9286	0.8877	0.0807	Normal Distribution

Reproduction Summary

Sample Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
Art Control	5	1.73	0.7308	2.729	1.467	1	3	0.3598	46.51%	0.0%
Nat Control	5	1.352	0.5441	2.159	1.214	0.6429	2.056	0.2909	48.12%	21.85%
LC-102	5	2.366	1.085	3.647	2.05	1.278	3.818	0.4615	43.62%	-36.79%
LC-105	5	1.519	0.7234	2.315	1.5	0.8235	2.389	0.2865	42.18%	12.18%
LC-112	5	2.081	0.3887	3.774	1.588	0.9412	4.313	0.6097	65.5%	-20.34%

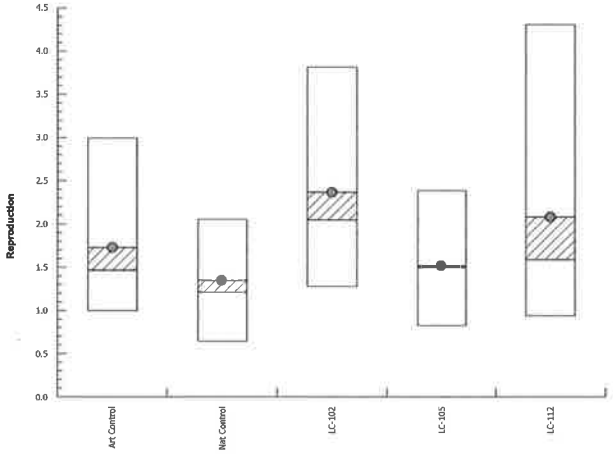
Reproduction Detail

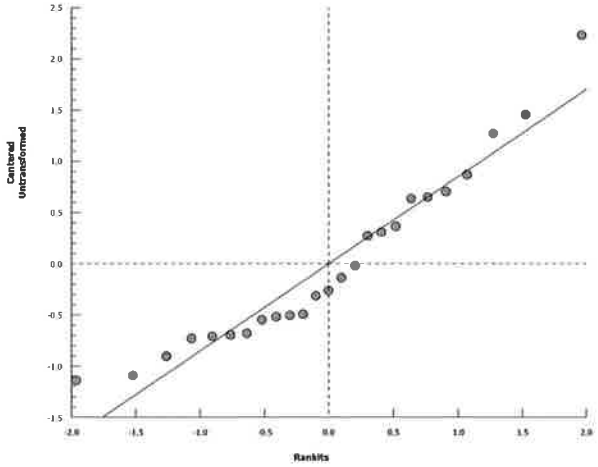
Sample Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
Art Control	1	2	1.182	3	1.467
Nat Control	0.8462	2.056	1.214	2	0.6429
LC-102	1.278	2.05	3.818	1.684	3
LC-105	1	2.389	1.5	0.8235	1.882
LC-112	4.313	2.389	1.176	0.9412	1.588

Leptocheirus 28-d Survival, Growth and Reproduction Sediment Test — **New England Bioassay**

Analysis ID:	01-4073-7208	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv1.8.8
Analyzed:	03 Jun-15 9:32	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Graphics





Leptocheirus 28-d Survival, Growth and Reproduction Sediment Test — **New England Bioassay**

Analysis ID:	21-0233-8341	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv1.8.8
Analyzed:	03 Jun-15 9:33	**Analysis:**	Nonparametric-Control vs Treatments	**Official Results:**	Yes
Batch ID:	01-5466-7590	**Test Type:**	Leptocheirus (28-d)	**Analyst:**	
Start Date:	30 Apr-15	**Protocol:**	EPA/600/R-01/020 (2001)	**Diluent:**	Not Applicable
Ending Date:	28 May-15	**Species:**	Leptocheirus plumulosus	**Brine:**	Instant Ocean
Duration:	28d 0h	**Source:**	In-House Culture	**Age:**	

Sample Code	Sample ID	Sample Date	Receive Date	Sample Age	Client Name	Project
Nat Control	11-3861-7478	24 Mar-15	21 Apr-15	37d 0h	GZA GeoEnvironmental	
GZ-203	02-5461-8029	24 Mar-15	21 Apr-15	37d 0h		
GZ-207	03-2338-4998	25 Mar-15	21 Apr-15	36d 0h		
GZ-209	16-5046-1852	25 Mar-15	21 Apr-15	36d 0h		
GZ-213	17-1685-0966	25 Mar-15	21 Apr-15	36d 0h		
GZ-214	15-3950-8822	30 Mar-15	21 Apr-15	31d 0h		
GZ-217	04-7415-4404	24 Mar-15	21 Apr-15	37d 0h		
GZ-223	08-6096-2100	30 Mar-15	21 Apr-15	31d 0h		
GZ-224	13-6271-4856	30 Mar-15	21 Apr-15	31d 0h		
GZ-225	18-0414-8615	27 Mar-15	21 Apr-15	34d 0h		

Sample Code	Material Type	Sample Source	Station Location	Latitude	Longitude
Nat Control	Not Applicable	Wynn - Everett MA	Nat Control		
GZ-203	Site Sediment	Wynn - Everett MA	GZ-203		
GZ-207	Site Sediment	Wynn - Everett MA	GZ-207		
GZ-209	Site Sediment	Wynn - Everett MA	GZ-209		
GZ-213	Site Sediment	Wynn - Everett MA	GZ-213		
GZ-214	Site Sediment	Wynn - Everett MA	GZ-214		
GZ-217	Site Sediment	Wynn - Everett MA	GZ-217		
GZ-223	Site Sediment	Wynn - Everett MA	GZ-223		
GZ-224	Site Sediment	Wynn - Everett MA	GZ-224		
GZ-225	Site Sediment	Wynn - Everett MA	GZ-225		

Data Transform	Zeta	Alt Hyp	Trials	Seed	PMSD	Test Result
Untransformed	NA	C > T	NA	NA	129.0%	

Steel Many-One Rank Sum Test

Sample Code	vs	Sample Code	Test Stat	Critical	Ties	DF	P-Value	P-Type	Decision(α:5%)
Nat Control		GZ-203	26	15	0	8	0.8143	Asymp	Non-Significant Effect
		GZ-207	25	15	0	8	0.7379	Asymp	Non-Significant Effect
		GZ-209	34	15	0	8	0.9986	Asymp	Non-Significant Effect
		GZ-213	18	15	0	8	0.1285	Asymp	Non-Significant Effect
		GZ-214	22	15	0	8	0.4487	Asymp	Non-Significant Effect
		GZ-217	15	15	0	8	0.0306	Asymp	Significant Effect
		GZ-223	29	15	0	8	0.9526	Asymp	Non-Significant Effect
		GZ-224	15	15	0	8	0.0306	Asymp	Significant Effect
		GZ-225	26	15	0	8	0.8143	Asymp	Non-Significant Effect

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	33.79803	3.755337	9	3.082	0.0067	Significant Effect
Error	48.73305	1.218326	40			
Total	82.53108		49			

Distributional Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variances	Bartlett Equality of Variance	43.5	21.67	<0.0001	Unequal Variances
Distribution	Shapiro-Wilk W Normality	0.8739	0.9367	<0.0001	Non-normal Distribution

Leptocheirus 28-d Survival, Growth and Reproduction Sediment Test **New England Bioassay**

Analysis ID: 21-0233-8341 **Endpoint:** Reproduction **CETIS Version:** CETISv1.8.8
Analyzed: 03 Jun-15 9:33 **Analysis:** Nonparametric-Control vs Treatments **Official Results:** Yes

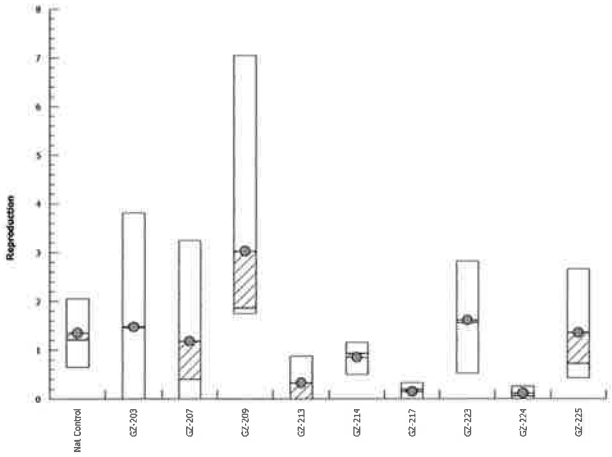
Reproduction Summary

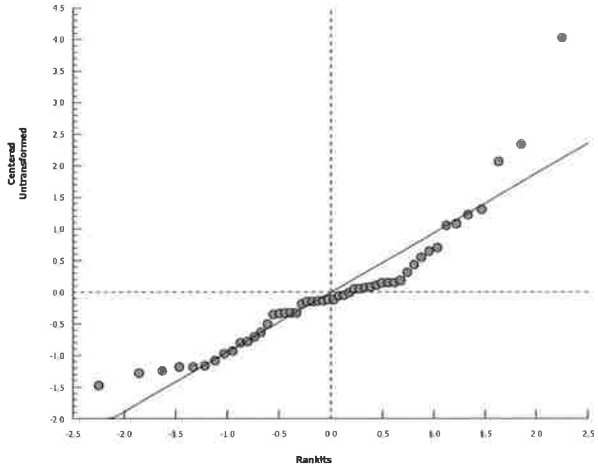
Sample Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
Nat Control	5	1.352	0.5441	2.159	1.214	0.6429	2.056	0.2909	48.12%	0.0%
GZ-203	5	1.475	-0.3516	3.301	1.467	0	3.824	0.6578	99.74%	-9.09%
GZ-207	5	1.183	-0.6645	3.031	0.4	0	3.25	0.6655	125.8%	12.46%
GZ-209	5	3.029	0.1956	5.863	1.867	1.75	7.053	1.021	75.34%	-124.1%
GZ-213	5	0.3294	-0.233	0.8919	0	0	0.8824	0.2026	137.5%	75.63%
GZ-214	5	0.8542	0.5219	1.186	0.9375	0.5	1.167	0.1197	31.33%	36.81%
GZ-217	5	0.1511	-0.03129	0.3335	0.2	0	0.3333	0.0657	97.21%	88.82%
GZ-223	5	1.613	0.5952	2.631	1.563	0.5294	2.833	0.3666	50.82%	-19.33%
GZ-224	5	0.1184	-0.05222	0.2891	0.05882	0	0.2667	0.06146	116.0%	91.24%
GZ-225	5	1.357	0.006024	2.708	0.7222	0.4286	2.667	0.4866	80.18%	-0.38%

Reproduction Detail

Sample Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
Nat Control	0.8462	2.056	1.214	2	0.6429
GZ-203	3.824	0.5	0	1.583	1.467
GZ-207	2.267	3.25	0.4	0	0
GZ-209	7.053	1.75	1.867	2.692	1.786
GZ-213	0	0.7647	0	0.8824	0
GZ-214	1.167	0.5	0.9375	0.6667	1
GZ-217	0.2222	0	0.2	0	0.3333
GZ-223	1.667	1.563	1.474	2.833	0.5294
GZ-224	0.05882	0.2667	0	0.2667	0
GZ-225	0.5556	0.7222	2.667	2.412	0.4286

Graphics





SUMMARY OF TEST RESULTS
28-DAY L.PLUMULOSUS TOXICITY TESTS
WYNN-EVERETT (Test Dates 4/30/15 – 5/28/15)
LC-102 REFERENCE SITE COMPARISION

Sample	28-day Survival (%)		Biomass (mg)		Reproduction (number of young)	
	Mean	Sig[a]	Mean	Sig[a]	Mean[b]	Sig[a]
LC-102	83	--	1.586	--	2.366	--
Artificial Control	62	*	0.8779	*	1.73	NS
Natural Control	71	NS	1.035	*	1.352	NS
LC-105	87	NS	1.772	NS	1.519	NS
LC-112	85	NS	1.42	NS	2.081	NS
GZ-203	77	NS	1.418	NS	1.475	NS
GZ-207	69	NS	1.272	NS	1.183	NS
GZ-209	73	NS	1.473	NS	3.029	NS
GZ-213	82	NS	1.167	NS	0.3294	*
GZ-214	70	NS	1.213	NS	0.8542	*
GZ-217	57	*	0.538	*	0.1511	*
GZ-223	85	NS	1.46	NS	1.613	NS
GZ-224	71	NS	0.9412	*	0.1184	*
GZ-225	73	NS	1.021	*	1.357	NS

[a]NS: Not significantly reduced at P = 0.05; *: significant at P = 0.05.
when compared with LC-102 reference site

[b] Reproduction as the average of [young per rep/surviving adults per rep]

Leptocheirus 28-d Survival, Growth and Reproduction Sediment Test — **New England Bioassay**

Analysis ID:	05-7160-9957	**Endpoint:**	Survival Rate	**CETIS Version:**	CETISv1.8.8
Analyzed:	03 Jun-15 9:31	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes
Batch ID:	01-5466-7590	**Test Type:**	Leptocheirus (28-d)	**Analyst:**	
Start Date:	30 Apr-15	**Protocol:**	EPA/600/R-01/020 (2001)	**Diluent:**	Not Applicable
Ending Date:	28 May-15	**Species:**	Leptocheirus plumulosus	**Brine:**	Instant Ocean
Duration:	28d 0h	**Source:**	In-House Culture	**Age:**	

Sample Code	Sample ID	Sample Date	Receive Date	Sample Age	Client Name	Project
Art Control	04-5032-5421	25 Mar-15		36d 0h	GZA GeoEnvironmental	
Nat Control	11-3861-7478	24 Mar-15	21 Apr-15	37d 0h		
LC-102	14-0824-4221	26 Mar-15	21 Apr-15	35d 0h		
LC-105	19-8730-7911	26 Mar-15	21 Apr-15	35d 0h		
LC-112	09-5123-6710	27 Mar-15	21 Apr-15	34d 0h		

Sample Code	Material Type	Sample Source	Station Location	Latitude	Longitude
Art Control	Not Applicable	Wynn - Everett MA	Art Control		
Nat Control	Not Applicable	Wynn - Everett MA	Nat Control		
LC-102	Reference sediment	Wynn - Everett MA	LC-102		
LC-105	Reference sediment	Wynn - Everett MA	LC-105		
LC-112	Reference sediment	Wynn - Everett MA	LC-112		

Data Transform	Zeta	Alt Hyp	Trials	Seed	PMSD	Test Result
Angular (Corrected)	NA	C > T	NA	NA	17.1%	

Dunnett Multiple Comparison Test

Sample Code	vs	Sample Code	Test Stat	Critical	MSD	DF	P-Value	P-Type	Decision(α:5%)
LC-102		Art Control	3.074	2.305	0.209	8	0.0102	CDF	Significant Effect
		Nat Control	1.946	2.305	0.209	8	0.0968	CDF	Non-Significant Effect
		LC-105	-0.2473	2.305	0.209	8	0.8703	CDF	Non-Significant Effect
		LC-112	0.1332	2.305	0.209	8	0.7540	CDF	Non-Significant Effect

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	0.348152	0.08703799	4	4.25	0.0119	Significant Effect
Error	0.4095784	0.02047892	20			
Total	0.7577303		24			

Distributional Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variances	Bartlett Equality of Variance	9.49	13.28	0.0500	Equal Variances
Distribution	Shapiro-Wilk W Normality	0.9527	0.8877	0.2887	Normal Distribution

Survival Rate Summary

Sample Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
Art Control	5	0.62	0.499	0.741	0.55	0.55	0.75	0.04359	15.72%	0.0%
Nat Control	5	0.71	0.5684	0.8516	0.7	0.6	0.9	0.05099	16.06%	-14.52%
LC-102	5	0.83	0.6036	1	0.9	0.55	1	0.08155	21.97%	-33.87%
LC-105	5	0.87	0.7992	0.9408	0.85	0.8	0.95	0.0255	6.55%	-40.32%
LC-112	5	0.85	0.8061	0.8939	0.85	0.8	0.9	0.01581	4.16%	-37.1%

Angular (Corrected) Transformed Summary

Sample Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
Art Control	5	0.909	0.7816	1.036	0.8355	0.8355	1.047	0.04586	11.28%	0.0%
Nat Control	5	1.011	0.8372	1.185	0.9912	0.8861	1.249	0.06262	13.85%	-11.23%
LC-102	5	1.187	0.8793	1.495	1.249	0.8355	1.459	0.1109	20.88%	-30.61%
LC-105	5	1.21	1.097	1.323	1.173	1.107	1.345	0.0407	7.52%	-33.07%
LC-112	5	1.175	1.113	1.237	1.173	1.107	1.249	0.02247	4.28%	-29.28%

Leptocheirus 28-d Survival, Growth and Reproduction Sediment Test — **New England Bioassay**

Analysis ID:	05-7160-9957	**Endpoint:**	Survival Rate	**CETIS Version:**	CETISv1.8.8
Analyzed:	03 Jun-15 9:31	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Survival Rate Detail

Sample Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
Art Control	0.55	0.55	0.55	0.7	0.75
Nat Control	0.65	0.9	0.7	0.6	0.7
LC-102	0.9	1	0.55	0.95	0.75
LC-105	0.95	0.9	0.8	0.85	0.85
LC-112	0.8	0.9	0.85	0.85	0.85

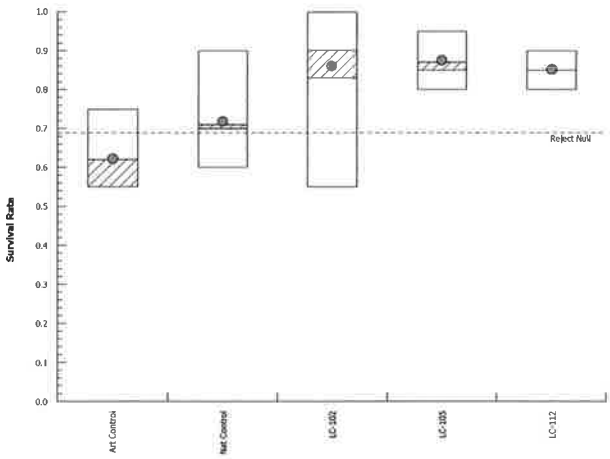
Angular (Corrected) Transformed Detail

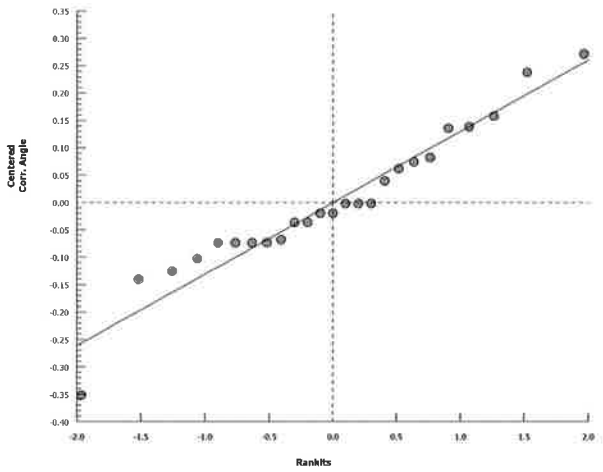
Sample Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
Art Control	0.8355	0.8355	0.8355	0.9912	1.047
Nat Control	0.9377	1.249	0.9912	0.8861	0.9912
LC-102	1.249	1.459	0.8355	1.345	1.047
LC-105	1.345	1.249	1.107	1.173	1.173
LC-112	1.107	1.249	1.173	1.173	1.173

Survival Rate Binomials

Sample Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
Art Control	11/20	11/20	11/20	14/20	15/20
Nat Control	13/20	18/20	14/20	12/20	14/20
LC-102	18/20	20/20	11/20	19/20	15/20
LC-105	19/20	18/20	16/20	17/20	17/20
LC-112	16/20	18/20	17/20	17/20	17/20

Graphics





Leptocheirus 28-d Survival, Growth and Reproduction Sediment Test — **New England Bioassay**

Analysis ID:	03-9774-5210	**Endpoint:**	Survival Rate	**CETIS Version:**	CETISv1.8.8
Analyzed:	03 Jun-15 9:32	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes
Batch ID:	01-5466-7590	**Test Type:**	Leptocheirus (28-d)	**Analyst:**	
Start Date:	30 Apr-15	**Protocol:**	EPA/600/R-01/020 (2001)	**Diluent:**	Not Applicable
Ending Date:	28 May-15	**Species:**	Leptocheirus plumulosus	**Brine:**	Instant Ocean
Duration:	28d 0h	**Source:**	In-House Culture	**Age:**	

Sample Code	Sample ID	Sample Date	Receive Date	Sample Age	Client Name	Project
LC-102	14-0824-4221	26 Mar-15	21 Apr-15	35d 0h	GZA GeoEnvironmental	
GZ-203	02-5461-8029	24 Mar-15	21 Apr-15	37d 0h		
GZ-207	03-2338-4998	25 Mar-15	21 Apr-15	36d 0h		
GZ-209	16-5046-1852	25 Mar-15	21 Apr-15	36d 0h		
GZ-213	17-1685-0966	25 Mar-15	21 Apr-15	36d 0h		
GZ-214	15-3950-8822	30 Mar-15	21 Apr-15	31d 0h		
GZ-217	04-7415-4404	24 Mar-15	21 Apr-15	37d 0h		
GZ-223	08-6096-2100	30 Mar-15	21 Apr-15	31d 0h		
GZ-224	13-6271-4856	30 Mar-15	21 Apr-15	31d 0h		
GZ-225	18-0414-8615	27 Mar-15	21 Apr-15	34d 0h		

Sample Code	Material Type	Sample Source	Station Location	Latitude	Longitude
LC-102	Reference sediment	Wynn - Everett MA	LC-102		
GZ-203	Site Sediment	Wynn - Everett MA	GZ-203		
GZ-207	Site Sediment	Wynn - Everett MA	GZ-207		
GZ-209	Site Sediment	Wynn - Everett MA	GZ-209		
GZ-213	Site Sediment	Wynn - Everett MA	GZ-213		
GZ-214	Site Sediment	Wynn - Everett MA	GZ-214		
GZ-217	Site Sediment	Wynn - Everett MA	GZ-217		
GZ-223	Site Sediment	Wynn - Everett MA	GZ-223		
GZ-224	Site Sediment	Wynn - Everett MA	GZ-224		
GZ-225	Site Sediment	Wynn - Everett MA	GZ-225		

Data Transform	Zeta	Alt Hyp	Trials	Seed	PMSD	Test Result
Angular (Corrected)	NA	C > T	NA	NA	22.7%	

Dunnett Multiple Comparison Test

Sample Code	vs	Sample Code	Test Stat	Critical	MSD	DF	P-Value	P-Type	Decision(α:5%)
LC-102		GZ-203	1.065	2.506	0.259	8	0.4928	CDF	Non-Significant Effect
		GZ-207	1.99	2.506	0.259	8	0.1384	CDF	Non-Significant Effect
		GZ-209	1.412	2.506	0.259	8	0.3340	CDF	Non-Significant Effect
		GZ-213	0.4697	2.506	0.259	8	0.7592	CDF	Non-Significant Effect
		GZ-214	1.847	2.506	0.259	8	0.1768	CDF	Non-Significant Effect
		GZ-217	3.132	2.506	0.259	8	0.0114	CDF	Significant Effect
		GZ-223	0.02714	2.506	0.259	8	0.8940	CDF	Non-Significant Effect
		GZ-224	1.735	2.506	0.259	8	0.2115	CDF	Non-Significant Effect
		GZ-225	1.435	2.506	0.259	8	0.3245	CDF	Non-Significant Effect

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	0.4471162	0.04967958	9	1.868	0.0856	Non-Significant Effect
Error	1.063978	0.02659944	40			
Total	1.511094		49			

Distributional Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variances	Bartlett Equality of Variance	10.25	21.67	0.3304	Equal Variances
Distribution	Shapiro-Wilk W Normality	0.9887	0.9367	0.9114	Normal Distribution

Leptocheirus 28-d Survival, Growth and Reproduction Sediment Test — **New England Bioassay**

Analysis ID: 03-9774-5210 **Endpoint:** Survival Rate **CETIS Version:** CETISv1.8.8
Analyzed: 03 Jun-15 9:32 **Analysis:** Parametric-Control vs Treatments **Official Results:** Yes

Survival Rate Summary

Sample Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
LC-102	5	0.83	0.6036	1	0.9	0.55	1	0.08155	21.97%	0.0%
GZ-203	5	0.77	0.6413	0.8987	0.8	0.6	0.85	0.04637	13.47%	7.23%
GZ-207	5	0.69	0.6091	0.7709	0.7	0.6	0.75	0.02915	9.45%	16.87%
GZ-209	5	0.73	0.5623	0.8977	0.7	0.6	0.95	0.06042	18.51%	12.05%
GZ-213	5	0.82	0.7258	0.9142	0.85	0.7	0.9	0.03391	9.25%	1.21%
GZ-214	5	0.7	0.5544	0.8456	0.75	0.55	0.8	0.05244	16.75%	15.66%
GZ-217	5	0.57	0.2903	0.8497	0.5	0.3	0.85	0.1007	39.52%	31.33%
GZ-223	5	0.85	0.7518	0.9482	0.85	0.75	0.95	0.03536	9.3%	-2.41%
GZ-224	5	0.71	0.5684	0.8516	0.75	0.55	0.85	0.05099	16.06%	14.46%
GZ-225	5	0.73	0.5123	0.9477	0.75	0.45	0.9	0.07842	24.02%	12.05%

Angular (Corrected) Transformed Summary

Sample Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
LC-102	5	1.187	0.8793	1.495	1.249	0.8355	1.459	0.1109	20.88%	0.0%
GZ-203	5	1.077	0.9295	1.225	1.107	0.8861	1.173	0.05325	11.05%	9.25%
GZ-207	5	0.9819	0.8946	1.069	0.9912	0.8861	1.047	0.03142	7.16%	17.29%
GZ-209	5	1.041	0.8178	1.265	0.9912	0.8861	1.345	0.08055	17.29%	12.27%
GZ-213	5	1.139	1.019	1.259	1.173	0.9912	1.249	0.04319	8.48%	4.08%
GZ-214	5	0.9966	0.8381	1.155	1.047	0.8355	1.107	0.05709	12.81%	16.05%
GZ-217	5	0.8641	0.5646	1.164	0.7854	0.5796	1.173	0.1079	27.91%	27.21%
GZ-223	5	1.184	1.039	1.33	1.173	1.047	1.345	0.05243	9.9%	0.24%
GZ-224	5	1.008	0.8498	1.166	1.047	0.8355	1.173	0.05702	12.65%	15.08%
GZ-225	5	1.039	0.7934	1.285	1.047	0.7353	1.249	0.08851	19.05%	12.47%

Survival Rate Detail

Sample Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
LC-102	0.9	1	0.55	0.95	0.75
GZ-203	0.85	0.8	0.85	0.6	0.75
GZ-207	0.75	0.6	0.75	0.7	0.65
GZ-209	0.95	0.6	0.75	0.65	0.7
GZ-213	0.9	0.85	0.7	0.85	0.8
GZ-214	0.6	0.8	0.8	0.75	0.55
GZ-217	0.45	0.3	0.5	0.85	0.75
GZ-223	0.75	0.8	0.95	0.9	0.85
GZ-224	0.85	0.75	0.65	0.75	0.55
GZ-225	0.45	0.9	0.75	0.85	0.7

Angular (Corrected) Transformed Detail

Sample Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
LC-102	1.249	1.459	0.8355	1.345	1.047
GZ-203	1.173	1.107	1.173	0.8861	1.047
GZ-207	1.047	0.8861	1.047	0.9912	0.9377
GZ-209	1.345	0.8861	1.047	0.9377	0.9912
GZ-213	1.249	1.173	0.9912	1.173	1.107
GZ-214	0.8861	1.107	1.107	1.047	0.8355
GZ-217	0.7353	0.5796	0.7854	1.173	1.047
GZ-223	1.047	1.107	1.345	1.249	1.173
GZ-224	1.173	1.047	0.9377	1.047	0.8355
GZ-225	0.7353	1.249	1.047	1.173	0.9912

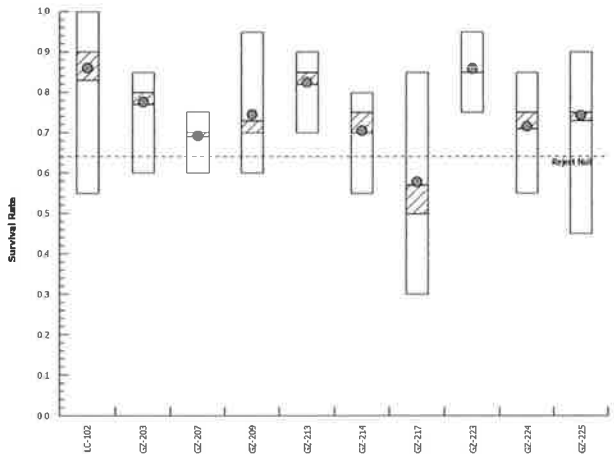
Leptocheirus 28-d Survival, Growth and Reproduction Sediment Test **New England Bioassay**

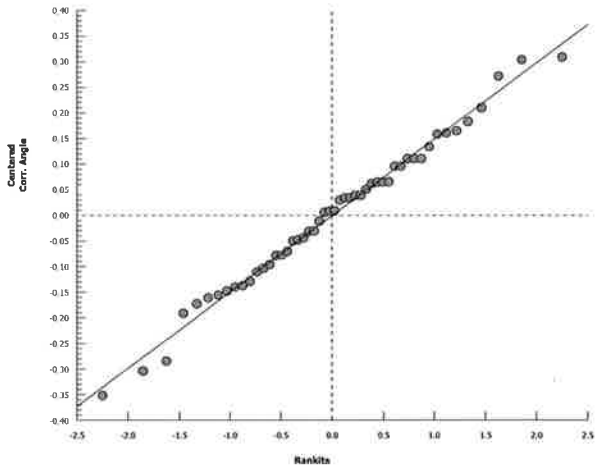
Analysis ID:	03-9774-5210	**Endpoint:**	Survival Rate	**CETIS Version:**	CETISv1.8.8
Analyzed:	03 Jun-15 9:32	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Survival Rate Binomials

Sample Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
LC-102	18/20	20/20	11/20	19/20	15/20
GZ-203	17/20	16/20	17/20	12/20	15/20
GZ-207	15/20	12/20	15/20	14/20	13/20
GZ-209	19/20	12/20	15/20	13/20	14/20
GZ-213	18/20	17/20	14/20	17/20	16/20
GZ-214	12/20	16/20	16/20	15/20	11/20
GZ-217	9/20	6/20	10/20	17/20	15/20
GZ-223	15/20	16/20	19/20	18/20	17/20
GZ-224	17/20	15/20	13/20	15/20	11/20
GZ-225	9/20	18/20	15/20	17/20	14/20

Graphics





Leptocheirus 28-d Survival, Growth and Reproduction Sediment Test — **New England Bioassay**

Analysis ID:	20-9626-3570	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.8.8
Analyzed:	01 Jun-15 11:31	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes
Batch ID:	01-5466-7590	**Test Type:**	Leptocheirus (28-d)	**Analyst:**	
Start Date:	30 Apr-15	**Protocol:**	EPA/600/R-01/020 (2001)	**Diluent:**	Not Applicable
Ending Date:	28 May-15	**Species:**	Leptocheirus plumulosus	**Brine:**	Instant Ocean
Duration:	28d 0h	**Source:**	In-House Culture	**Age:**	

Sample Code	Sample ID	Sample Date	Receive Date	Sample Age	Client Name	Project
Art Control	04-5032-5421	25 Mar-15		36d 0h	GZA GeoEnvironmental	
Nat Control	11-3861-7478	24 Mar-15	21 Apr-15	37d 0h		
LC-102	14-0824-4221	26 Mar-15	21 Apr-15	35d 0h		
LC-105	19-8730-7911	26 Mar-15	21 Apr-15	35d 0h		
LC-112	09-5123-6710	27 Mar-15	21 Apr-15	34d 0h		

Sample Code	Material Type	Sample Source	Station Location	Latitude	Longitude
Art Control	Not Applicable	Wynn - Everett MA	Art Control		
Nat Control	Not Applicable	Wynn - Everett MA	Nat Control		
LC-102	Reference sediment	Wynn - Everett MA	LC-102		
LC-105	Reference sediment	Wynn - Everett MA	LC-105		
LC-112	Reference sediment	Wynn - Everett MA	LC-112		

Data Transform	Zeta	Alt Hyp	Trials	Seed	PMSD	Test Result
Untransformed	NA	C > T	NA	NA	21.0%	

Dunnett Multiple Comparison Test

Sample Code	vs	Sample Code	Test Stat	Critical	MSD	DF	P-Value	P-Type	Decision(α:5%)
LC-102		Art Control	4.893	2.305	0.333	8	0.0002	CDF	Significant Effect
		Nat Control	3.807	2.305	0.333	8	0.0020	CDF	Significant Effect
		LC-105	-1.289	2.305	0.333	8	0.9889	CDF	Non-Significant Effect
		LC-112	1.144	2.305	0.333	8	0.3219	CDF	Non-Significant Effect

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	2.801481	0.7003703	4	13.39	<0.0001	Significant Effect
Error	1.046485	0.05232427	20			
Total	3.847967		24			

Distributional Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variances	Bartlett Equality of Variance	4.781	13.28	0.3106	Equal Variances
Distribution	Shapiro-Wilk W Normality	0.9342	0.8877	0.1087	Normal Distribution

Mean Dry Biomass-mg Summary

Sample Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
Art Control	5	0.8779	0.6644	1.091	0.824	0.7045	1.077	0.07691	19.59%	0.0%
Nat Control	5	1.035	0.8239	1.246	0.973	0.892	1.292	0.07604	16.43%	-17.9%
LC-102	5	1.586	1.139	2.032	1.782	1.036	1.861	0.1608	22.67%	-80.64%
LC-105	5	1.772	1.612	1.932	1.826	1.557	1.867	0.0577	7.28%	-101.9%
LC-112	5	1.42	1.123	1.717	1.514	1.046	1.617	0.107	16.85%	-61.78%

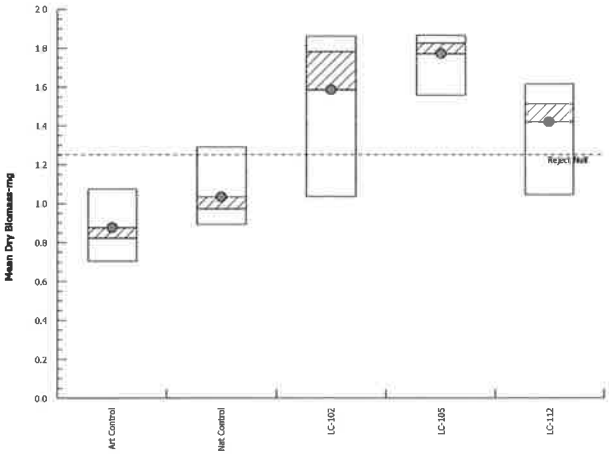
Mean Dry Biomass-mg Detail

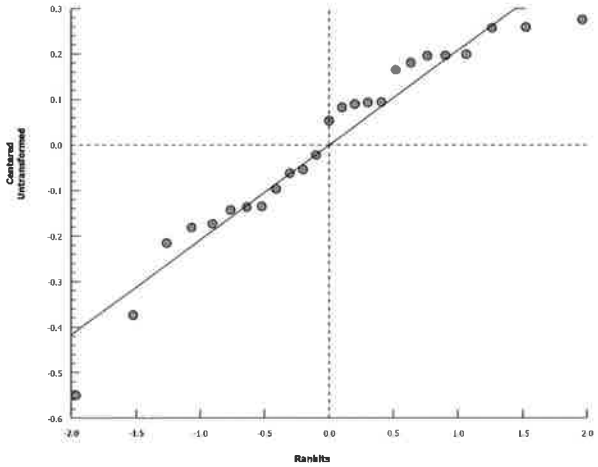
Sample Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
Art Control	0.7415	0.7045	0.824	1.042	1.077
Nat Control	0.892	1.292	0.973	0.9	1.118
LC-102	1.861	1.782	1.036	1.845	1.405
LC-105	1.826	1.751	1.557	1.867	1.862
LC-112	1.514	1.601	1.046	1.323	1.617

Leptocheirus 28-d Survival, Growth and Reproduction Sediment Test **New England Bioassay**

Analysis ID:	20-9626-3570	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.8.8
Analyzed:	01 Jun-15 11:31	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Graphics





Leptocheirus 28-d Survival, Growth and Reproduction Sediment Test — **New England Bioassay**

Analysis ID:	08-9552-5899	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.8.8
Analyzed:	01 Jun-15 11:32	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes
Batch ID:	01-5466-7590	**Test Type:**	Leptocheirus (28-d)	**Analyst:**	
Start Date:	30 Apr-15	**Protocol:**	EPA/600/R-01/020 (2001)	**Diluent:**	Not Applicable
Ending Date:	28 May-15	**Species:**	Leptocheirus plumulosus	**Brine:**	Instant Ocean
Duration:	28d 0h	**Source:**	In-House Culture	**Age:**	

Sample Code	Sample ID	Sample Date	Receive Date	Sample Age	Client Name	Project
LC-102	14-0824-4221	26 Mar-15	21 Apr-15	35d 0h	GZA GeoEnvironmental	
GZ-203	02-5461-8029	24 Mar-15	21 Apr-15	37d 0h		
GZ-207	03-2338-4998	25 Mar-15	21 Apr-15	36d 0h		
GZ-209	16-5046-1852	25 Mar-15	21 Apr-15	36d 0h		
GZ-213	17-1685-0966	25 Mar-15	21 Apr-15	36d 0h		
GZ-214	15-3950-8822	30 Mar-15	21 Apr-15	31d 0h		
GZ-217	04-7415-4404	24 Mar-15	21 Apr-15	37d 0h		
GZ-223	08-6096-2100	30 Mar-15	21 Apr-15	31d 0h		
GZ-224	13-6271-4856	30 Mar-15	21 Apr-15	31d 0h		
GZ-225	18-0414-8615	27 Mar-15	21 Apr-15	34d 0h		

Sample Code	Material Type	Sample Source	Station Location	Latitude	Longitude
LC-102	Reference sediment	Wynn - Everett MA	LC-102		
GZ-203	Site Sediment	Wynn - Everett MA	GZ-203		
GZ-207	Site Sediment	Wynn - Everett MA	GZ-207		
GZ-209	Site Sediment	Wynn - Everett MA	GZ-209		
GZ-213	Site Sediment	Wynn - Everett MA	GZ-213		
GZ-214	Site Sediment	Wynn - Everett MA	GZ-214		
GZ-217	Site Sediment	Wynn - Everett MA	GZ-217		
GZ-223	Site Sediment	Wynn - Everett MA	GZ-223		
GZ-224	Site Sediment	Wynn - Everett MA	GZ-224		
GZ-225	Site Sediment	Wynn - Everett MA	GZ-225		

Data Transform	Zeta	Alt Hyp	Trials	Seed	PMSD	Test Result
Untransformed	NA	C > T	NA	NA	27.8%	

Dunnett Multiple Comparison Test

Sample Code	vs	Sample Code	Test Stat	Critical	MSD	DF	P-Value	P-Type	Decision(α:5%)
LC-102		GZ-203	0.9527	2.506	0.441	8	0.5463	CDF	Non-Significant Effect
		GZ-207	1.782	2.506	0.441	8	0.1965	CDF	Non-Significant Effect
		GZ-209	0.6397	2.506	0.441	8	0.6899	CDF	Non-Significant Effect
		GZ-213	2.381	2.506	0.441	8	0.0652	CDF	Non-Significant Effect
		GZ-214	2.12	2.506	0.441	8	0.1092	CDF	Non-Significant Effect
		GZ-217	5.953	2.506	0.441	8	<0.0001	CDF	Significant Effect
		GZ-223	0.7158	2.506	0.441	8	0.6565	CDF	Non-Significant Effect
		GZ-224	3.662	2.506	0.441	8	0.0027	CDF	Significant Effect
		GZ-225	3.212	2.506	0.441	8	0.0093	CDF	Significant Effect

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	4.408385	0.4898206	9	6.324	<0.0001	Significant Effect
Error	3.098366	0.07745916	40			
Total	7.506752		49			

Distributional Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variances	Bartlett Equality of Variance	11.08	21.67	0.2702	Equal Variances
Distribution	Shapiro-Wilk W Normality	0.9827	0.9367	0.6689	Normal Distribution

Leptocheirus 28-d Survival, Growth and Reproduction Sediment Test — **New England Bioassay**

Analysis ID:	08-9552-5899	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.8.8
Analyzed:	01 Jun-15 11:32	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

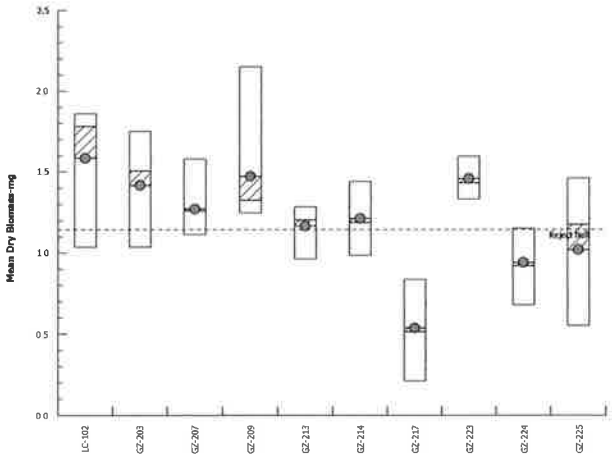
Mean Dry Biomass-mg Summary

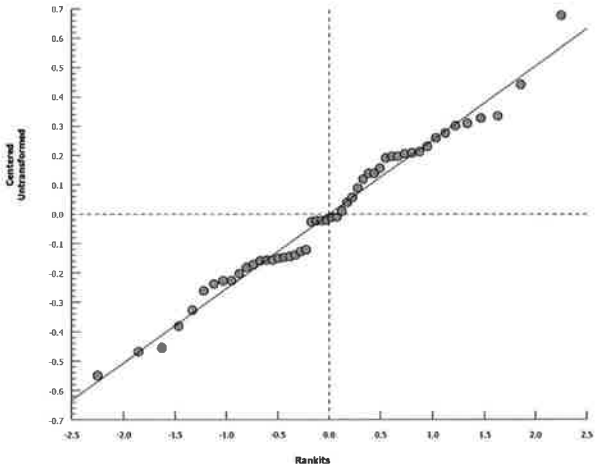
Sample Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
LC-102	5	1.586	1.139	2.032	1.782	1.036	1.861	0.1608	22.67%	0.0%
GZ-203	5	1.418	1.045	1.791	1.507	1.036	1.752	0.1343	21.18%	10.58%
GZ-207	5	1.272	1.037	1.507	1.261	1.115	1.582	0.08474	14.89%	19.78%
GZ-209	5	1.473	1.001	1.946	1.326	1.246	2.152	0.1702	25.84%	7.1%
GZ-213	5	1.167	1.014	1.319	1.206	0.9635	1.285	0.05491	10.52%	26.43%
GZ-214	5	1.213	0.9559	1.469	1.19	0.986	1.443	0.09247	17.05%	23.53%
GZ-217	5	0.538	0.2185	0.8575	0.515	0.211	0.839	0.1151	47.82%	66.07%
GZ-223	5	1.46	1.295	1.624	1.433	1.332	1.598	0.0592	9.07%	7.95%
GZ-224	5	0.9412	0.6801	1.202	0.922	0.6795	1.154	0.09403	22.34%	40.65%
GZ-225	5	1.021	0.4812	1.56	1.177	0.552	1.463	0.1942	42.56%	35.65%

Mean Dry Biomass-mg Detail

Sample Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
LC-102	1.861	1.782	1.036	1.845	1.405
GZ-203	1.752	1.507	1.18	1.036	1.615
GZ-207	1.261	1.115	1.582	1.121	1.282
GZ-209	2.152	1.326	1.329	1.314	1.246
GZ-213	1.285	1.223	0.9635	1.206	1.155
GZ-214	0.986	1.404	1.443	1.19	1.04
GZ-217	0.3815	0.211	0.515	0.839	0.7435
GZ-223	1.338	1.433	1.598	1.598	1.332
GZ-224	1.15	0.922	1.154	0.8015	0.6795
GZ-225	0.564	1.348	1.463	1.177	0.552

Graphics





Leptocheirus 28-d Survival, Growth and Reproduction Sediment Test — **New England Bioassay**

Analysis ID:	09-4099-3410	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv1.8.8
Analyzed:	03 Jun-15 9:33	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes
Batch ID:	01-5466-7590	**Test Type:**	Leptocheirus (28-d)	**Analyst:**	
Start Date:	30 Apr-15	**Protocol:**	EPA/600/R-01/020 (2001)	**Diluent:**	Not Applicable
Ending Date:	28 May-15	**Species:**	Leptocheirus plumulosus	**Brine:**	Instant Ocean
Duration:	28d 0h	**Source:**	In-House Culture	**Age:**	

Sample Code	Sample ID	Sample Date	Receive Date	Sample Age	Client Name	Project
Art Control	04-5032-5421	25 Mar-15		36d 0h	GZA GeoEnvironmental	
Nat Control	11-3861-7478	24 Mar-15	21 Apr-15	37d 0h		
LC-102	14-0824-4221	26 Mar-15	21 Apr-15	35d 0h		
LC-105	19-8730-7911	26 Mar-15	21 Apr-15	35d 0h		
LC-112	09-5123-6710	27 Mar-15	21 Apr-15	34d 0h		

Sample Code	Material Type	Sample Source	Station Location	Latitude	Longitude
Art Control	Not Applicable	Wynn - Everett MA	Art Control		
Nat Control	Not Applicable	Wynn - Everett MA	Nat Control		
LC-102	Reference sediment	Wynn - Everett MA	LC-102		
LC-105	Reference sediment	Wynn - Everett MA	LC-105		
LC-112	Reference sediment	Wynn - Everett MA	LC-112		

Data Transform	Zeta	Alt Hyp	Trials	Seed	PMSD	Test Result
Untransformed	NA	C > T	NA	NA	57.8%	

Dunnett Multiple Comparison Test

Sample Code	vs	Sample Code	Test Stat	Critical	MSD	DF	P-Value	P-Type	Decision(α:5%)
LC-102		Art Control	1.072	2.305	1.368	8	0.3508	CDF	Non-Significant Effect
		Nat Control	1.709	2.305	1.368	8	0.1443	CDF	Non-Significant Effect
		LC-105	1.427	2.305	1.368	8	0.2213	CDF	Non-Significant Effect
		LC-112	0.4794	2.305	1.368	8	0.6127	CDF	Non-Significant Effect

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	3.419955	0.8549886	4	0.9706	0.4454	Non-Significant Effect
Error	17.61759	0.8808794	20			
Total	21.03754		24			

Distributional Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variances	Bartlett Equality of Variance	3.158	13.28	0.5317	Equal Variances
Distribution	Shapiro-Wilk W Normality	0.9286	0.8877	0.0807	Normal Distribution

Reproduction Summary

Sample Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
Art Control	5	1.73	0.7308	2.729	1.467	1	3	0.3598	46.51%	0.0%
Nat Control	5	1.352	0.5441	2.159	1.214	0.6429	2.056	0.2909	48.12%	21.85%
LC-102	5	2.366	1.085	3.647	2.05	1.278	3.818	0.4615	43.62%	-36.79%
LC-105	5	1.519	0.7234	2.315	1.5	0.8235	2.389	0.2865	42.18%	12.18%
LC-112	5	2.081	0.3887	3.774	1.588	0.9412	4.313	0.6097	65.5%	-20.34%

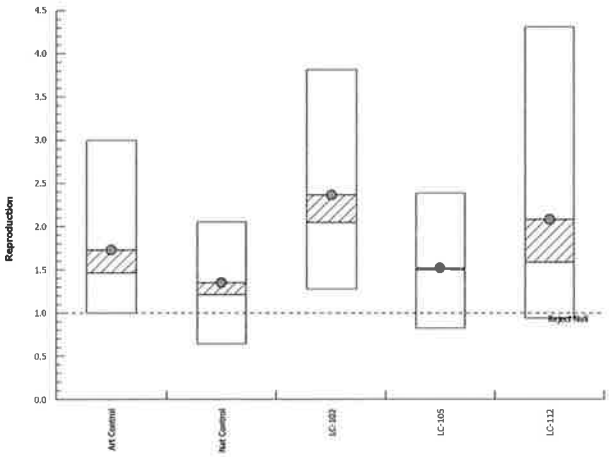
Reproduction Detail

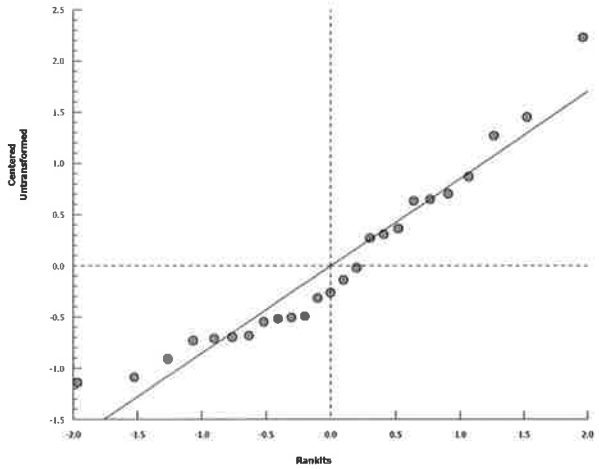
Sample Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
Art Control	1	2	1.182	3	1.467
Nat Control	0.8462	2.056	1.214	2	0.6429
LC-102	1.278	2.05	3.818	1.684	3
LC-105	1	2.389	1.5	0.8235	1.882
LC-112	4.313	2.389	1.176	0.9412	1.588

Leptocheirus 28-d Survival, Growth and Reproduction Sediment Test — **New England Bioassay**

Analysis ID:	09-4099-3410	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv1.8.8
Analyzed:	03 Jun-15 9:33	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Graphics





Leptocheirus 28-d Survival, Growth and Reproduction Sediment Test — **New England Bioassay**

Analysis ID:	14-5627-7435	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv1.8.8
Analyzed:	03 Jun-15 9:33	**Analysis:**	Nonparametric-Control vs Treatments	**Official Results:**	Yes
Batch ID:	01-5466-7590	**Test Type:**	Leptocheirus (28-d)	**Analyst:**	
Start Date:	30 Apr-15	**Protocol:**	EPA/600/R-01/020 (2001)	**Diluent:**	Not Applicable
Ending Date:	28 May-15	**Species:**	Leptocheirus plumulosus	**Brine:**	Instant Ocean
Duration:	28d 0h	**Source:**	In-House Culture	**Age:**	

Sample Code	Sample ID	Sample Date	Receive Date	Sample Age	Client Name	Project
LC-102	14-0824-4221	26 Mar-15	21 Apr-15	35d 0h	GZA GeoEnvironmental	
GZ-203	02-5461-8029	24 Mar-15	21 Apr-15	37d 0h		
GZ-207	03-2338-4998	25 Mar-15	21 Apr-15	36d 0h		
GZ-209	16-5046-1852	25 Mar-15	21 Apr-15	36d 0h		
GZ-213	17-1685-0966	25 Mar-15	21 Apr-15	36d 0h		
GZ-214	15-3950-8822	30 Mar-15	21 Apr-15	31d 0h		
GZ-217	04-7415-4404	24 Mar-15	21 Apr-15	37d 0h		
GZ-223	08-6096-2100	30 Mar-15	21 Apr-15	31d 0h		
GZ-224	13-6271-4856	30 Mar-15	21 Apr-15	31d 0h		
GZ-225	18-0414-8615	27 Mar-15	21 Apr-15	34d 0h		

Sample Code	Material Type	Sample Source	Station Location	Latitude	Longitude
LC-102	Reference sediment	Wynn - Everett MA	LC-102		
GZ-203	Site Sediment	Wynn - Everett MA	GZ-203		
GZ-207	Site Sediment	Wynn - Everett MA	GZ-207		
GZ-209	Site Sediment	Wynn - Everett MA	GZ-209		
GZ-213	Site Sediment	Wynn - Everett MA	GZ-213		
GZ-214	Site Sediment	Wynn - Everett MA	GZ-214		
GZ-217	Site Sediment	Wynn - Everett MA	GZ-217		
GZ-223	Site Sediment	Wynn - Everett MA	GZ-223		
GZ-224	Site Sediment	Wynn - Everett MA	GZ-224		
GZ-225	Site Sediment	Wynn - Everett MA	GZ-225		

Data Transform	Zeta	Alt Hyp	Trials	Seed	PMSD	Test Result
Untransformed	NA	C > T	NA	NA	75.9%	

Steel Many-One Rank Sum Test

Sample Code	vs	Sample Code	Test Stat	Critical	Ties	DF	P-Value	P-Type	Decision(α:5%)
LC-102		GZ-203	22	15	0	8	0.4487	Asymp	Non-Significant Effect
		GZ-207	22	15	0	8	0.4487	Asymp	Non-Significant Effect
		GZ-209	29	15	0	8	0.9526	Asymp	Non-Significant Effect
		GZ-213	15	15	0	8	0.0306	Asymp	Significant Effect
		GZ-214	15	15	0	8	0.0306	Asymp	Significant Effect
		GZ-217	15	15	0	8	0.0306	Asymp	Significant Effect
		GZ-223	21	15	0	8	0.3513	Asymp	Non-Significant Effect
		GZ-224	15	15	0	8	0.0306	Asymp	Significant Effect
		GZ-225	21	15	0	8	0.3513	Asymp	Non-Significant Effect

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	40.51187	4.501318	9	3.51	0.0028	Significant Effect
Error	51.30013	1.282503	40			
Total	91.812		49			

Distributional Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variances	Bartlett Equality of Variance	42	21.67	<0.0001	Unequal Variances
Distribution	Shapiro-Wilk W Normality	0.8805	0.9367	0.0001	Non-normal Distribution

Leptocheirus 28-d Survival, Growth and Reproduction Sediment Test — **New England Bioassay**

Analysis ID: 14-5627-7435 **Endpoint:** Reproduction **CETIS Version:** CETISv1.8.8
Analyzed: 03 Jun-15 9:33 **Analysis:** Nonparametric-Control vs Treatments **Official Results:** Yes

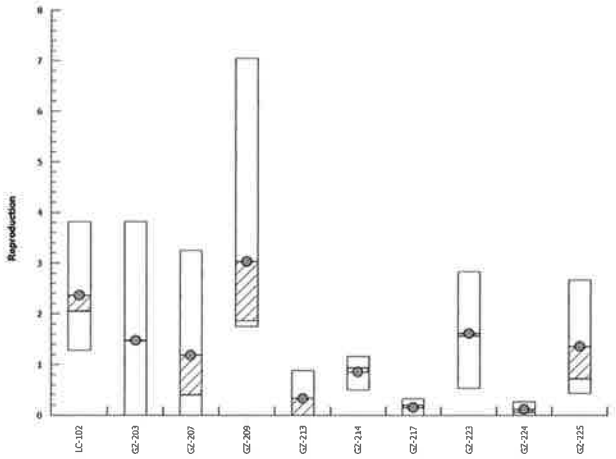
Reproduction Summary

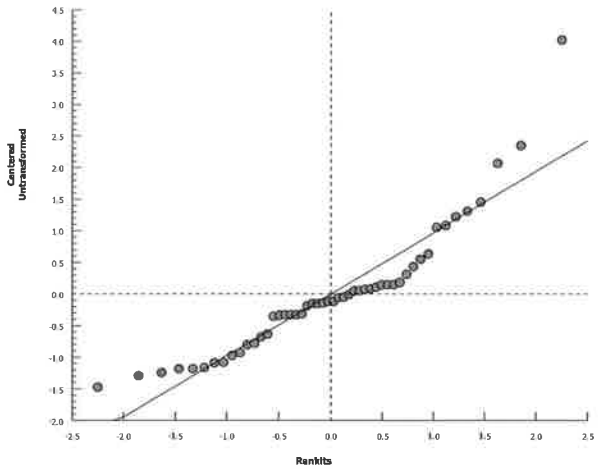
Sample Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
LC-102	5	2.366	1.085	3.647	2.05	1.278	3.818	0.4615	43.62%	0.0%
GZ-203	5	1.475	-0.3516	3.301	1.467	0	3.824	0.6578	99.74%	37.67%
GZ-207	5	1.183	-0.6645	3.031	0.4	0	3.25	0.6655	125.8%	49.99%
GZ-209	5	3.029	0.1956	5.863	1.867	1.75	7.053	1.021	75.34%	-28.04%
GZ-213	5	0.3294	-0.233	0.8919	0	0	0.8824	0.2026	137.5%	86.08%
GZ-214	5	0.8542	0.5219	1.186	0.9375	0.5	1.167	0.1197	31.33%	63.9%
GZ-217	5	0.1511	-0.03129	0.3335	0.2	0	0.3333	0.0657	97.21%	93.61%
GZ-223	5	1.613	0.5952	2.631	1.563	0.5294	2.833	0.3666	50.82%	31.82%
GZ-224	5	0.1184	-0.05222	0.2891	0.05882	0	0.2667	0.06146	116.0%	94.99%
GZ-225	5	1.357	0.006024	2.708	0.7222	0.4286	2.667	0.4866	80.18%	42.65%

Reproduction Detail

Sample Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
LC-102	1.278	2.05	3.818	1.684	3
GZ-203	3.824	0.5	0	1.583	1.467
GZ-207	2.267	3.25	0.4	0	0
GZ-209	7.053	1.75	1.867	2.692	1.786
GZ-213	0	0.7647	0	0.8824	0
GZ-214	1.167	0.5	0.9375	0.6667	1
GZ-217	0.2222	0	0.2	0	0.3333
GZ-223	1.667	1.563	1.474	2.833	0.5294
GZ-224	0.05882	0.2667	0	0.2667	0
GZ-225	0.5556	0.7222	2.667	2.412	0.4286

Graphics





SUMMARY OF TEST RESULTS
28-DAY L.PLUMULOSUS TOXICITY TESTS
WYNN-EVERETT (Test Dates 4/30/15 – 5/28/15)
LC-105 REFERENCE SITE COMPARISION

Sample	28-day Survival (%)		Biomass (mg)		Reproduction (number of young)	
	Mean	Sig[a]	Mean	Sig[a]	Mean[b]	Sig[a]
LC-105	87	--	1.772	--	1.519	--
Artificial Control	62	*	0.8779	*	1.73	NS
Natural Control	71	NS	1.035	*	1.352	NS
LC-102	83	NS	1.586	NS	2.366	NS
LC-112	85	NS	1.42	*	2.081	NS
GZ-203	77	NS	1.418	NS	1.475	NS
GZ-207	69	NS	1.272	*	1.183	NS
GZ-209	73	NS	1.473	NS	3.029	NS
GZ-213	82	NS	1.167	*	0.3294	NS
GZ-214	70	NS	1.213	*	0.8542	NS
GZ-217	57	*	0.538	*	0.1511	*
GZ-223	85	NS	1.46	NS	1.613	NS
GZ-224	71	NS	0.9412	*	0.1184	*
GZ-225	73	NS	1.021	*	1.357	NS

[a]NS: Not significantly reduced at P = 0.05; *: significant at P = 0.05.
when compared with LC-105 reference site

[b] Reproduction as the average of [young per rep/surviving adults per rep]

Leptocheirus 28-d Survival, Growth and Reproduction Sediment Test — **New England Bioassay**

Analysis ID:	20-4902-3565	**Endpoint:**	Survival Rate	**CETIS Version:**	CETISv1.8.8
Analyzed:	03 Jun-15 9:31	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes
Batch ID:	01-5466-7590	**Test Type:**	Leptocheirus (28-d)	**Analyst:**	
Start Date:	30 Apr-15	**Protocol:**	EPA/600/R-01/020 (2001)	**Diluent:**	Not Applicable
Ending Date:	28 May-15	**Species:**	Leptocheirus plumulosus	**Brine:**	Instant Ocean
Duration:	28d 0h	**Source:**	In-House Culture	**Age:**	

Sample Code	Sample ID	Sample Date	Receive Date	Sample Age	Client Name	Project
Art Control	04-5032-5421	25 Mar-15		36d 0h	GZA GeoEnvironmental	
Nat Control	11-3861-7478	24 Mar-15	21 Apr-15	37d 0h		
LC-102	14-0824-4221	26 Mar-15	21 Apr-15	35d 0h		
LC-105	19-8730-7911	26 Mar-15	21 Apr-15	35d 0h		
LC-112	09-5123-6710	27 Mar-15	21 Apr-15	34d 0h		

Sample Code	Material Type	Sample Source	Station Location	Latitude	Longitude
Art Control	Not Applicable	Wynn - Everett MA	Art Control		
Nat Control	Not Applicable	Wynn - Everett MA	Nat Control		
LC-102	Reference sediment	Wynn - Everett MA	LC-102		
LC-105	Reference sediment	Wynn - Everett MA	LC-105		
LC-112	Reference sediment	Wynn - Everett MA	LC-112		

Data Transform	Zeta	Alt Hyp	Trials	Seed	PMSD	Test Result
Angular (Corrected)	NA	C > T	NA	NA	18.5%	

Dunnett Multiple Comparison Test

Sample Code	vs	Sample Code	Test Stat	Critical	MSD	DF	P-Value	P-Type	Decision(α:5%)
LC-105		Art Control	3.321	2.305	0.209	8	0.0059	CDF	Significant Effect
		Nat Control	2.193	2.305	0.209	8	0.0618	CDF	Non-Significant Effect
		LC-102	0.2473	2.305	0.209	8	0.7105	CDF	Non-Significant Effect
		LC-112	0.3805	2.305	0.209	8	0.6556	CDF	Non-Significant Effect

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	0.348152	0.08703799	4	4.25	0.0119	Significant Effect
Error	0.4095784	0.02047892	20			
Total	0.7577303		24			

Distributional Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variances	Bartlett Equality of Variance	9.49	13.28	0.0500	Equal Variances
Distribution	Shapiro-Wilk W Normality	0.9527	0.8877	0.2887	Normal Distribution

Survival Rate Summary

Sample Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
Art Control	5	0.62	0.499	0.741	0.55	0.55	0.75	0.04359	15.72%	0.0%
Nat Control	5	0.71	0.5684	0.8516	0.7	0.6	0.9	0.05099	16.06%	-14.52%
LC-102	5	0.83	0.6036	1	0.9	0.55	1	0.08155	21.97%	-33.87%
LC-105	5	0.87	0.7992	0.9408	0.85	0.8	0.95	0.0255	6.55%	-40.32%
LC-112	5	0.85	0.8061	0.8939	0.85	0.8	0.9	0.01581	4.16%	-37.1%

Angular (Corrected) Transformed Summary

Sample Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
Art Control	5	0.909	0.7816	1.036	0.8355	0.8355	1.047	0.04586	11.28%	0.0%
Nat Control	5	1.011	0.8372	1.185	0.9912	0.8861	1.249	0.06262	13.85%	-11.23%
LC-102	5	1.187	0.8793	1.495	1.249	0.8355	1.459	0.1109	20.88%	-30.61%
LC-105	5	1.21	1.097	1.323	1.173	1.107	1.345	0.0407	7.52%	-33.07%
LC-112	5	1.175	1.113	1.237	1.173	1.107	1.249	0.02247	4.28%	-29.28%

Leptocheirus 28-d Survival, Growth and Reproduction Sediment Test — **New England Bioassay**

Analysis ID:	20-4902-3565	**Endpoint:**	Survival Rate	**CETIS Version:**	CETISv1.8.8
Analyzed:	03 Jun-15 9:31	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Survival Rate Detail

Sample Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
Art Control	0.55	0.55	0.55	0.7	0.75
Nat Control	0.65	0.9	0.7	0.6	0.7
LC-102	0.9	1	0.55	0.95	0.75
LC-105	0.95	0.9	0.8	0.85	0.85
LC-112	0.8	0.9	0.85	0.85	0.85

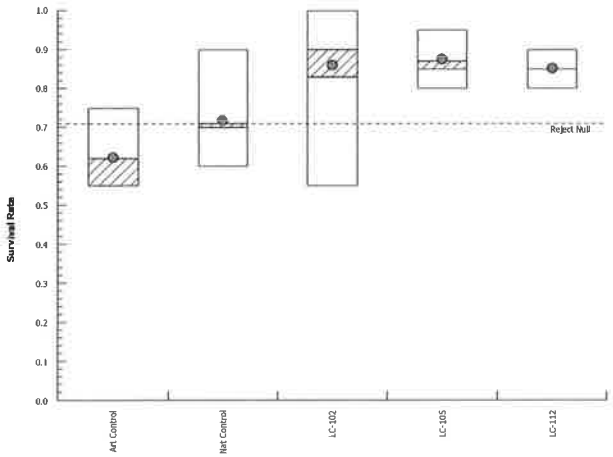
Angular (Corrected) Transformed Detail

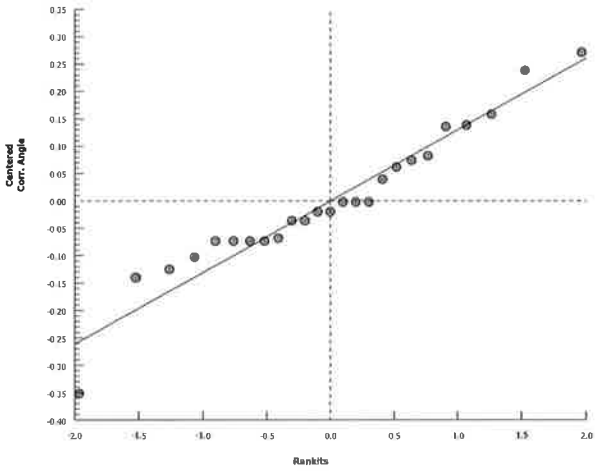
Sample Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
Art Control	0.8355	0.8355	0.8355	0.9912	1.047
Nat Control	0.9377	1.249	0.9912	0.8861	0.9912
LC-102	1.249	1.459	0.8355	1.345	1.047
LC-105	1.345	1.249	1.107	1.173	1.173
LC-112	1.107	1.249	1.173	1.173	1.173

Survival Rate Binomials

Sample Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
Art Control	11/20	11/20	11/20	14/20	15/20
Nat Control	13/20	18/20	14/20	12/20	14/20
LC-102	18/20	20/20	11/20	19/20	15/20
LC-105	19/20	18/20	16/20	17/20	17/20
LC-112	16/20	18/20	17/20	17/20	17/20

Graphics





Leptocheirus 28-d Survival, Growth and Reproduction Sediment Test — **New England Bioassay**

Analysis ID:	06-4598-4061	**Endpoint:**	Survival Rate	**CETIS Version:**	CETISv1.8.8
Analyzed:	03 Jun-15 9:32	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes
Batch ID:	01-5466-7590	**Test Type:**	Leptocheirus (28-d)	**Analyst:**	
Start Date:	30 Apr-15	**Protocol:**	EPA/600/R-01/020 (2001)	**Diluent:**	Not Applicable
Ending Date:	28 May-15	**Species:**	Leptocheirus plumulosus	**Brine:**	Instant Ocean
Duration:	28d 0h	**Source:**	In-House Culture	**Age:**	

Sample Code	Sample ID	Sample Date	Receive Date	Sample Age	Client Name	Project
LC-105	19-8730-7911	26 Mar-15	21 Apr-15	35d 0h	GZA GeoEnvironmental	
GZ-203	02-5461-8029	24 Mar-15	21 Apr-15	37d 0h		
GZ-207	03-2338-4998	25 Mar-15	21 Apr-15	36d 0h		
GZ-209	16-5046-1852	25 Mar-15	21 Apr-15	36d 0h		
GZ-213	17-1685-0966	25 Mar-15	21 Apr-15	36d 0h		
GZ-214	15-3950-8822	30 Mar-15	21 Apr-15	31d 0h		
GZ-217	04-7415-4404	24 Mar-15	21 Apr-15	37d 0h		
GZ-223	08-6096-2100	30 Mar-15	21 Apr-15	31d 0h		
GZ-224	13-6271-4856	30 Mar-15	21 Apr-15	31d 0h		
GZ-225	18-0414-8615	27 Mar-15	21 Apr-15	34d 0h		

Sample Code	Material Type	Sample Source	Station Location	Latitude	Longitude
LC-105	Reference sediment	Wynn - Everett MA	LC-105		
GZ-203	Site Sediment	Wynn - Everett MA	GZ-203		
GZ-207	Site Sediment	Wynn - Everett MA	GZ-207		
GZ-209	Site Sediment	Wynn - Everett MA	GZ-209		
GZ-213	Site Sediment	Wynn - Everett MA	GZ-213		
GZ-214	Site Sediment	Wynn - Everett MA	GZ-214		
GZ-217	Site Sediment	Wynn - Everett MA	GZ-217		
GZ-223	Site Sediment	Wynn - Everett MA	GZ-223		
GZ-224	Site Sediment	Wynn - Everett MA	GZ-224		
GZ-225	Site Sediment	Wynn - Everett MA	GZ-225		

Data Transform	Zeta	Alt Hyp	Trials	Seed	PMSD	Test Result
Angular (Corrected)	NA	C > T	NA	NA	20.9%	

Dunnett Multiple Comparison Test

Sample Code	vs	Sample Code	Test Stat	Critical	MSD	DF	P-Value	P-Type	Decision(α:5%)
LC-105		GZ-203	1.433	2.506	0.231	8	0.3252	CDF	Non-Significant Effect
		GZ-207	2.468	2.506	0.231	8	0.0543	CDF	Non-Significant Effect
		GZ-209	1.821	2.506	0.231	8	0.1844	CDF	Non-Significant Effect
		GZ-213	0.7676	2.506	0.231	8	0.6330	CDF	Non-Significant Effect
		GZ-214	2.308	2.506	0.231	8	0.0758	CDF	Non-Significant Effect
		GZ-217	3.744	2.506	0.231	8	0.0022	CDF	Significant Effect
		GZ-223	0.2729	2.506	0.231	8	0.8278	CDF	Non-Significant Effect
		GZ-224	2.183	2.506	0.231	8	0.0970	CDF	Non-Significant Effect
		GZ-225	1.847	2.506	0.231	8	0.1769	CDF	Non-Significant Effect

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	0.4796422	0.05329358	9	2.504	0.0224	Significant Effect
Error	0.8512392	0.02128098	40			
Total	1.330881		49			

Distributional Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variances	Bartlett Equality of Variance	9.424	21.67	0.3991	Equal Variances
Distribution	Shapiro-Wilk W Normality	0.99	0.9367	0.9464	Normal Distribution

Leptocheirus 28-d Survival, Growth and Reproduction Sediment Test **New England Bioassay**

Analysis ID: 06-4598-4061 **Endpoint:** Survival Rate **CETIS Version:** CETISv1.8.8
Analyzed: 03 Jun-15 9:32 **Analysis:** Parametric-Control vs Treatments **Official Results:** Yes

Survival Rate Summary

Sample Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
LC-105	5	0.87	0.7992	0.9408	0.85	0.8	0.95	0.0255	6.55%	0.0%
GZ-203	5	0.77	0.6413	0.8987	0.8	0.6	0.85	0.04637	13.47%	11.49%
GZ-207	5	0.69	0.6091	0.7709	0.7	0.6	0.75	0.02915	9.45%	20.69%
GZ-209	5	0.73	0.5623	0.8977	0.7	0.6	0.95	0.06042	18.51%	16.09%
GZ-213	5	0.82	0.7258	0.9142	0.85	0.7	0.9	0.03391	9.25%	5.75%
GZ-214	5	0.7	0.5544	0.8456	0.75	0.55	0.8	0.05244	16.75%	19.54%
GZ-217	5	0.57	0.2903	0.8497	0.5	0.3	0.85	0.1007	39.52%	34.48%
GZ-223	5	0.85	0.7518	0.9482	0.85	0.75	0.95	0.03536	9.3%	2.3%
GZ-224	5	0.71	0.5684	0.8516	0.75	0.55	0.85	0.05099	16.06%	18.39%
GZ-225	5	0.73	0.5123	0.9477	0.75	0.45	0.9	0.07842	24.02%	16.09%

Angular (Corrected) Transformed Summary

Sample Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
LC-105	5	1.21	1.097	1.323	1.173	1.107	1.345	0.0407	7.52%	0.0%
GZ-203	5	1.077	0.9295	1.225	1.107	0.8861	1.173	0.05325	11.05%	10.93%
GZ-207	5	0.9819	0.8946	1.069	0.9912	0.8861	1.047	0.03142	7.16%	18.82%
GZ-209	5	1.041	0.8178	1.265	0.9912	0.8861	1.345	0.08055	17.29%	13.89%
GZ-213	5	1.139	1.019	1.259	1.173	0.9912	1.249	0.04319	8.48%	5.86%
GZ-214	5	0.9966	0.8381	1.155	1.047	0.8355	1.107	0.05709	12.81%	17.6%
GZ-217	5	0.8641	0.5646	1.164	0.7854	0.5796	1.173	0.1079	27.91%	28.56%
GZ-223	5	1.184	1.039	1.33	1.173	1.047	1.345	0.05243	9.9%	2.08%
GZ-224	5	1.008	0.8498	1.166	1.047	0.8355	1.173	0.05702	12.65%	16.65%
GZ-225	5	1.039	0.7934	1.285	1.047	0.7353	1.249	0.08851	19.05%	14.09%

Survival Rate Detail

Sample Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
LC-105	0.95	0.9	0.8	0.85	0.85
GZ-203	0.85	0.8	0.85	0.6	0.75
GZ-207	0.75	0.6	0.75	0.7	0.65
GZ-209	0.95	0.6	0.75	0.65	0.7
GZ-213	0.9	0.85	0.7	0.85	0.8
GZ-214	0.6	0.8	0.8	0.75	0.55
GZ-217	0.45	0.3	0.5	0.85	0.75
GZ-223	0.75	0.8	0.95	0.9	0.85
GZ-224	0.85	0.75	0.65	0.75	0.55
GZ-225	0.45	0.9	0.75	0.85	0.7

Angular (Corrected) Transformed Detail

Sample Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
LC-105	1.345	1.249	1.107	1.173	1.173
GZ-203	1.173	1.107	1.173	0.8861	1.047
GZ-207	1.047	0.8861	1.047	0.9912	0.9377
GZ-209	1.345	0.8861	1.047	0.9377	0.9912
GZ-213	1.249	1.173	0.9912	1.173	1.107
GZ-214	0.8861	1.107	1.107	1.047	0.8355
GZ-217	0.7353	0.5796	0.7854	1.173	1.047
GZ-223	1.047	1.107	1.345	1.249	1.173
GZ-224	1.173	1.047	0.9377	1.047	0.8355
GZ-225	0.7353	1.249	1.047	1.173	0.9912

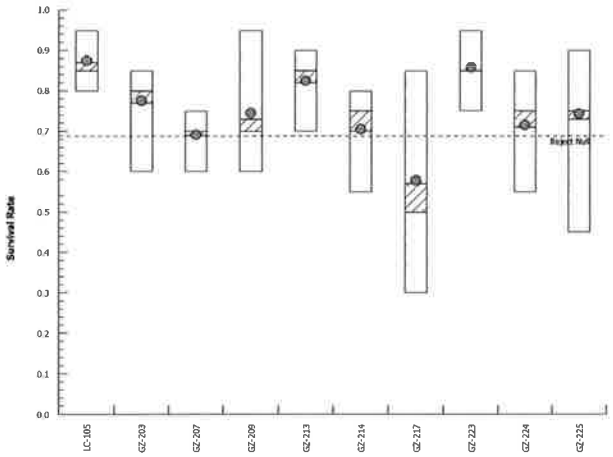
Leptocheirus 28-d Survival, Growth and Reproduction Sediment Test — **New England Bioassay**

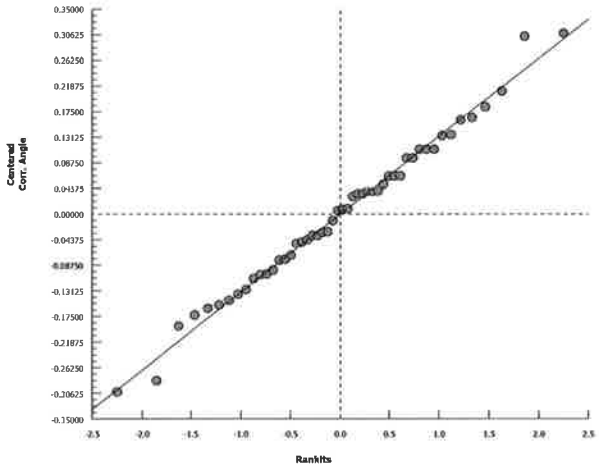
Analysis ID:	06-4598-4061	**Endpoint:**	Survival Rate	**CETIS Version:**	CETISv1.8.8
Analyzed:	03 Jun-15 9:32	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Survival Rate Binomials

Sample Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
LC-105	19/20	18/20	16/20	17/20	17/20
GZ-203	17/20	16/20	17/20	12/20	15/20
GZ-207	15/20	12/20	15/20	14/20	13/20
GZ-209	19/20	12/20	15/20	13/20	14/20
GZ-213	18/20	17/20	14/20	17/20	16/20
GZ-214	12/20	16/20	16/20	15/20	11/20
GZ-217	9/20	6/20	10/20	17/20	15/20
GZ-223	15/20	16/20	19/20	18/20	17/20
GZ-224	17/20	15/20	13/20	15/20	11/20
GZ-225	9/20	18/20	15/20	17/20	14/20

Graphics





Leptocheirus 28-d Survival, Growth and Reproduction Sediment Test — **New England Bioassay**

Analysis ID:	06-7752-4385	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.8.8
Analyzed:	01 Jun-15 11:31	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes
Batch ID:	01-5466-7590	**Test Type:**	Leptocheirus (28-d)	**Analyst:**	
Start Date:	30 Apr-15	**Protocol:**	EPA/600/R-01/020 (2001)	**Diluent:**	Not Applicable
Ending Date:	28 May-15	**Species:**	Leptocheirus plumulosus	**Brine:**	Instant Ocean
Duration:	28d 0h	**Source:**	In-House Culture	**Age:**	

Sample Code	Sample ID	Sample Date	Receive Date	Sample Age	Client Name	Project
Art Control	04-5032-5421	25 Mar-15		36d 0h	GZA GeoEnvironmental	
Nat Control	11-3861-7478	24 Mar-15	21 Apr-15	37d 0h		
LC-102	14-0824-4221	26 Mar-15	21 Apr-15	35d 0h		
LC-105	19-8730-7911	26 Mar-15	21 Apr-15	35d 0h		
LC-112	09-5123-6710	27 Mar-15	21 Apr-15	34d 0h		

Sample Code	Material Type	Sample Source	Station Location	Latitude	Longitude
Art Control	Not Applicable	Wynn - Everett MA	Art Control		
Nat Control	Not Applicable	Wynn - Everett MA	Nat Control		
LC-102	Reference sediment	Wynn - Everett MA	LC-102		
LC-105	Reference sediment	Wynn - Everett MA	LC-105		
LC-112	Reference sediment	Wynn - Everett MA	LC-112		

Data Transform	Zeta	Alt Hyp	Trials	Seed	PMSD	Test Result
Untransformed	NA	C > T	NA	NA	18.8%	

Dunnett Multiple Comparison Test

Sample Code	vs	Sample Code	Test Stat	Critical	MSD	DF	P-Value	P-Type	Decision(α:5%)
LC-105		Art Control	6.182	2.305	0.333	8	<0.0001	CDF	Significant Effect
		Nat Control	5.096	2.305	0.333	8	0.0001	CDF	Significant Effect
		LC-102	1.289	2.305	0.333	8	0.2676	CDF	Non-Significant Effect
		LC-112	2.433	2.305	0.333	8	0.0389	CDF	Significant Effect

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	2.801481	0.7003703	4	13.39	<0.0001	Significant Effect
Error	1.046485	0.05232427	20			
Total	3.847967		24			

Distributional Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variances	Bartlett Equality of Variance	4.781	13.28	0.3106	Equal Variances
Distribution	Shapiro-Wilk W Normality	0.9342	0.8877	0.1087	Normal Distribution

Mean Dry Biomass-mg Summary

Sample Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
Art Control	5	0.8779	0.6644	1.091	0.824	0.7045	1.077	0.07691	19.59%	0.0%
Nat Control	5	1.035	0.8239	1.246	0.973	0.892	1.292	0.07604	16.43%	-17.9%
LC-102	5	1.586	1.139	2.032	1.782	1.036	1.861	0.1608	22.67%	-80.64%
LC-105	5	1.772	1.612	1.932	1.826	1.557	1.867	0.0577	7.28%	-101.9%
LC-112	5	1.42	1.123	1.717	1.514	1.046	1.617	0.107	16.85%	-61.78%

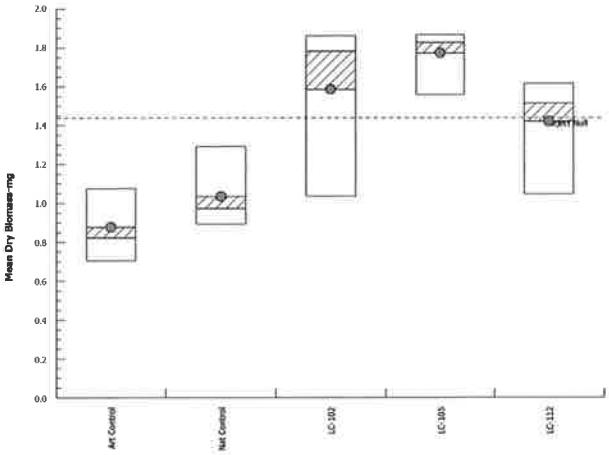
Mean Dry Biomass-mg Detail

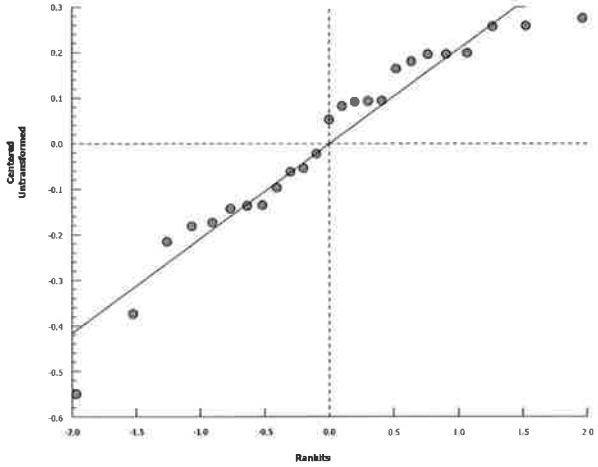
Sample Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
Art Control	0.7415	0.7045	0.824	1.042	1.077
Nat Control	0.892	1.292	0.973	0.9	1.118
LC-102	1.861	1.782	1.036	1.845	1.405
LC-105	1.826	1.751	1.557	1.867	1.862
LC-112	1.514	1.601	1.046	1.323	1.617

Leptocheirus 28-d Survival, Growth and Reproduction Sediment Test — **New England Bioassay**

Analysis ID:	06-7752-4385	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.8.8
Analyzed:	01 Jun-15 11:31	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Graphics





Leptocheirus 28-d Survival, Growth and Reproduction Sediment Test — **New England Bioassay**

Analysis ID:	14-6661-5882	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.8.8
Analyzed:	01 Jun-15 11:32	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes
Batch ID:	01-5466-7590	**Test Type:**	Leptocheirus (28-d)	**Analyst:**	
Start Date:	30 Apr-15	**Protocol:**	EPA/600/R-01/020 (2001)	**Diluent:**	Not Applicable
Ending Date:	28 May-15	**Species:**	Leptocheirus plumulosus	**Brine:**	Instant Ocean
Duration:	28d 0h	**Source:**	In-House Culture	**Age:**	

Sample Code	Sample ID	Sample Date	Receive Date	Sample Age	Client Name	Project
LC-105	19-8730-7911	26 Mar-15	21 Apr-15	35d 0h	GZA GeoEnvironmental	
GZ-203	02-5461-8029	24 Mar-15	21 Apr-15	37d 0h		
GZ-207	03-2338-4998	25 Mar-15	21 Apr-15	36d 0h		
GZ-209	16-5046-1852	25 Mar-15	21 Apr-15	36d 0h		
GZ-213	17-1685-0966	25 Mar-15	21 Apr-15	36d 0h		
GZ-214	15-3950-8822	30 Mar-15	21 Apr-15	31d 0h		
GZ-217	04-7415-4404	24 Mar-15	21 Apr-15	37d 0h		
GZ-223	08-6096-2100	30 Mar-15	21 Apr-15	31d 0h		
GZ-224	13-6271-4856	30 Mar-15	21 Apr-15	31d 0h		
GZ-225	18-0414-8615	27 Mar-15	21 Apr-15	34d 0h		

Sample Code	Material Type	Sample Source	Station Location	Latitude	Longitude
LC-105	Reference sediment	Wynn - Everett MA	LC-105		
GZ-203	Site Sediment	Wynn - Everett MA	GZ-203		
GZ-207	Site Sediment	Wynn - Everett MA	GZ-207		
GZ-209	Site Sediment	Wynn - Everett MA	GZ-209		
GZ-213	Site Sediment	Wynn - Everett MA	GZ-213		
GZ-214	Site Sediment	Wynn - Everett MA	GZ-214		
GZ-217	Site Sediment	Wynn - Everett MA	GZ-217		
GZ-223	Site Sediment	Wynn - Everett MA	GZ-223		
GZ-224	Site Sediment	Wynn - Everett MA	GZ-224		
GZ-225	Site Sediment	Wynn - Everett MA	GZ-225		

Data Transform	Zeta	Alt Hyp	Trials	Seed	PMSD	Test Result
Untransformed	NA	C > T	NA	NA	23.0%	

Dunnett Multiple Comparison Test

Sample Code	vs	Sample Code	Test Stat	Critical	MSD	DF	P-Value	P-Type	Decision(α:5%)
LC-105		GZ-203	2.177	2.506	0.408	8	0.0981	CDF	Non-Significant Effect
		GZ-207	3.074	2.506	0.408	8	0.0132	CDF	Significant Effect
		GZ-209	1.838	2.506	0.408	8	0.1795	CDF	Non-Significant Effect
		GZ-213	3.722	2.506	0.408	8	0.0023	CDF	Significant Effect
		GZ-214	3.439	2.506	0.408	8	0.0051	CDF	Significant Effect
		GZ-217	7.585	2.506	0.408	8	<0.0001	CDF	Significant Effect
		GZ-223	1.92	2.506	0.408	8	0.1563	CDF	Non-Significant Effect
		GZ-224	5.107	2.506	0.408	8	<0.0001	CDF	Significant Effect
		GZ-225	4.62	2.506	0.408	8	0.0002	CDF	Significant Effect

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	5.268008	0.5853343	9	8.842	<0.0001	Significant Effect
Error	2.648111	0.06620277	40			
Total	7.916119		49			

Distributional Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variances	Bartlett Equality of Variance	12.84	21.67	0.1702	Equal Variances
Distribution	Shapiro-Wilk W Normality	0.982	0.9367	0.6389	Normal Distribution

Leptocheirus 28-d Survival, Growth and Reproduction Sediment Test — **New England Bioassay**

Analysis ID:	14-6661-5882	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.8.8
Analyzed:	01 Jun-15 11:32	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

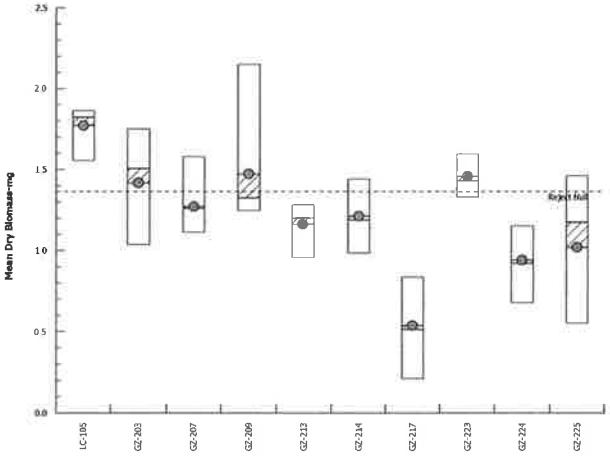
Mean Dry Biomass-mg Summary

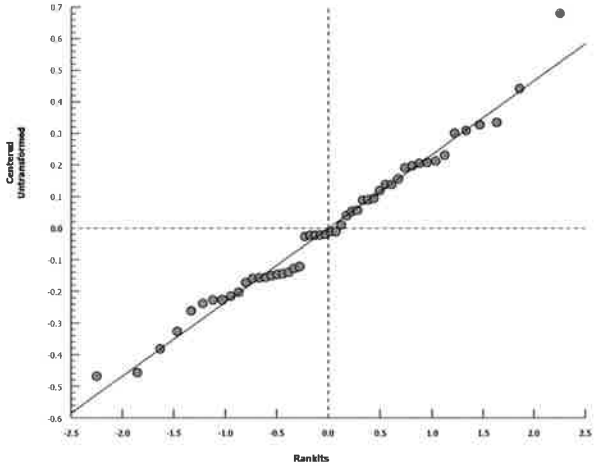
Sample Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
LC-105	5	1.772	1.612	1.932	1.826	1.557	1.867	0.0577	7.28%	0.0%
GZ-203	5	1.418	1.045	1.791	1.507	1.036	1.752	0.1343	21.18%	19.99%
GZ-207	5	1.272	1.037	1.507	1.261	1.115	1.582	0.08474	14.89%	28.22%
GZ-209	5	1.473	1.001	1.946	1.326	1.246	2.152	0.1702	25.84%	16.88%
GZ-213	5	1.167	1.014	1.319	1.206	0.9635	1.285	0.05491	10.52%	34.17%
GZ-214	5	1.213	0.9559	1.469	1.19	0.986	1.443	0.09247	17.05%	31.58%
GZ-217	5	0.538	0.2185	0.8575	0.515	0.211	0.839	0.1151	47.82%	69.64%
GZ-223	5	1.46	1.295	1.624	1.433	1.332	1.598	0.0592	9.07%	17.63%
GZ-224	5	0.9412	0.6801	1.202	0.922	0.6795	1.154	0.09403	22.34%	46.89%
GZ-225	5	1.021	0.4812	1.56	1.177	0.552	1.463	0.1942	42.56%	42.42%

Mean Dry Biomass-mg Detail

Sample Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
LC-105	1.826	1.751	1.557	1.867	1.862
GZ-203	1.752	1.507	1.18	1.036	1.615
GZ-207	1.261	1.115	1.582	1.121	1.282
GZ-209	2.152	1.326	1.329	1.314	1.246
GZ-213	1.285	1.223	0.9635	1.206	1.155
GZ-214	0.986	1.404	1.443	1.19	1.04
GZ-217	0.3815	0.211	0.515	0.839	0.7435
GZ-223	1.338	1.433	1.598	1.598	1.332
GZ-224	1.15	0.922	1.154	0.8015	0.6795
GZ-225	0.564	1.348	1.463	1.177	0.552

Graphics





Leptocheirus 28-d Survival, Growth and Reproduction Sediment Test — **New England Bioassay**

Analysis ID:	04-7700-9019	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv1.8.8
Analyzed:	03 Jun-15 9:33	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes
Batch ID:	01-5466-7590	**Test Type:**	Leptocheirus (28-d)	**Analyst:**	
Start Date:	30 Apr-15	**Protocol:**	EPA/600/R-01/020 (2001)	**Diluent:**	Not Applicable
Ending Date:	28 May-15	**Species:**	Leptocheirus plumulosus	**Brine:**	Instant Ocean
Duration:	28d 0h	**Source:**	In-House Culture	**Age:**	

Sample Code	Sample ID	Sample Date	Receive Date	Sample Age	Client Name	Project
Art Control	04-5032-5421	25 Mar-15		36d 0h	GZA GeoEnvironmental	
Nat Control	11-3861-7478	24 Mar-15	21 Apr-15	37d 0h		
LC-102	14-0824-4221	26 Mar-15	21 Apr-15	35d 0h		
LC-105	19-8730-7911	26 Mar-15	21 Apr-15	35d 0h		
LC-112	09-5123-6710	27 Mar-15	21 Apr-15	34d 0h		

Sample Code	Material Type	Sample Source	Station Location	Latitude	Longitude
Art Control	Not Applicable	Wynn - Everett MA	Art Control		
Nat Control	Not Applicable	Wynn - Everett MA	Nat Control		
LC-102	Reference sediment	Wynn - Everett MA	LC-102		
LC-105	Reference sediment	Wynn - Everett MA	LC-105		
LC-112	Reference sediment	Wynn - Everett MA	LC-112		

Data Transform	Zeta	Alt Hyp	Trials	Seed	PMSD	Test Result
Untransformed	NA	C > T	NA	NA	90.1%	

Dunnett Multiple Comparison Test

Sample Code	vs	Sample Code	Test Stat	Critical	MSD	DF	P-Value	P-Type	Decision(α:5%)
LC-105		Art Control	-0.355	2.305	1.368	8	0.8947	CDF	Non-Significant Effect
		Nat Control	0.2816	2.305	1.368	8	0.6967	CDF	Non-Significant Effect
		LC-102	-1.427	2.305	1.368	8	0.9925	CDF	Non-Significant Effect
		LC-112	-0.9476	2.305	1.368	8	0.9725	CDF	Non-Significant Effect

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	3.419955	0.8549886	4	0.9706	0.4454	Non-Significant Effect
Error	17.61759	0.8808794	20			
Total	21.03754		24			

Distributional Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variances	Bartlett Equality of Variance	3.158	13.28	0.5317	Equal Variances
Distribution	Shapiro-Wilk W Normality	0.9286	0.8877	0.0807	Normal Distribution

Reproduction Summary

Sample Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
Art Control	5	1.73	0.7308	2.729	1.467	1	3	0.3598	46.51%	0.0%
Nat Control	5	1.352	0.5441	2.159	1.214	0.6429	2.056	0.2909	48.12%	21.85%
LC-102	5	2.366	1.085	3.647	2.05	1.278	3.818	0.4615	43.62%	-36.79%
LC-105	5	1.519	0.7234	2.315	1.5	0.8235	2.389	0.2865	42.18%	12.18%
LC-112	5	2.081	0.3887	3.774	1.588	0.9412	4.313	0.6097	65.5%	-20.34%

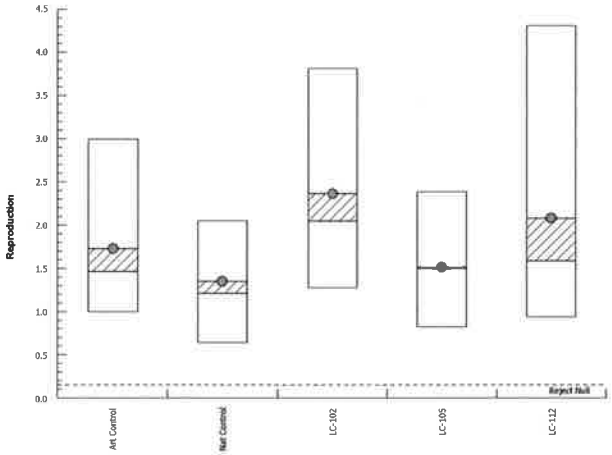
Reproduction Detail

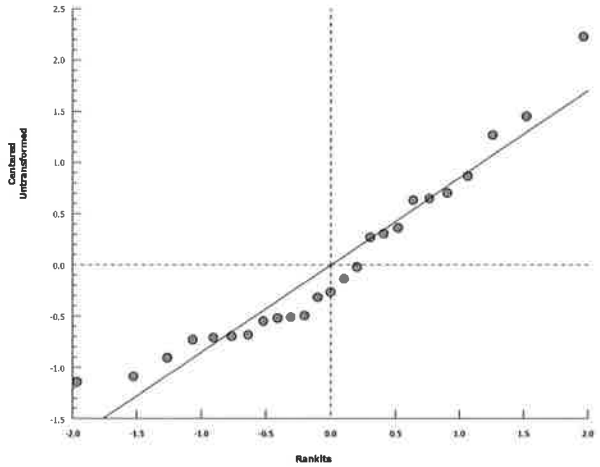
Sample Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
Art Control	1	2	1.182	3	1.467
Nat Control	0.8462	2.056	1.214	2	0.6429
LC-102	1.278	2.05	3.818	1.684	3
LC-105	1	2.389	1.5	0.8235	1.882
LC-112	4.313	2.389	1.176	0.9412	1.588

Leptocheirus 28-d Survival, Growth and Reproduction Sediment Test — **New England Bioassay**

Analysis ID:	04-7700-9019	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv1.8.8
Analyzed:	03 Jun-15 9:33	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Graphics





Leptocheirus 28-d Survival, Growth and Reproduction Sediment Test — **New England Bioassay**

Analysis ID:	21-0457-4261	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv1.8.8
Analyzed:	03 Jun-15 9:33	**Analysis:**	Nonparametric-Control vs Treatments	**Official Results:**	Yes
Batch ID:	01-5466-7590	**Test Type:**	Leptocheirus (28-d)	**Analyst:**	
Start Date:	30 Apr-15	**Protocol:**	EPA/600/R-01/020 (2001)	**Diluent:**	Not Applicable
Ending Date:	28 May-15	**Species:**	Leptocheirus plumulosus	**Brine:**	Instant Ocean
Duration:	28d 0h	**Source:**	In-House Culture	**Age:**	

Sample Code	Sample ID	Sample Date	Receive Date	Sample Age	Client Name	Project
LC-105	19-8730-7911	26 Mar-15	21 Apr-15	35d 0h	GZA GeoEnvironmental	
GZ-203	02-5461-8029	24 Mar-15	21 Apr-15	37d 0h		
GZ-207	03-2338-4998	25 Mar-15	21 Apr-15	36d 0h		
GZ-209	16-5046-1852	25 Mar-15	21 Apr-15	36d 0h		
GZ-213	17-1685-0966	25 Mar-15	21 Apr-15	36d 0h		
GZ-214	15-3950-8822	30 Mar-15	21 Apr-15	31d 0h		
GZ-217	04-7415-4404	24 Mar-15	21 Apr-15	37d 0h		
GZ-223	08-6096-2100	30 Mar-15	21 Apr-15	31d 0h		
GZ-224	13-6271-4856	30 Mar-15	21 Apr-15	31d 0h		
GZ-225	18-0414-8615	27 Mar-15	21 Apr-15	34d 0h		

Sample Code	Material Type	Sample Source	Station Location	Latitude	Longitude
LC-105	Reference sediment	Wynn - Everett MA	LC-105		
GZ-203	Site Sediment	Wynn - Everett MA	GZ-203		
GZ-207	Site Sediment	Wynn - Everett MA	GZ-207		
GZ-209	Site Sediment	Wynn - Everett MA	GZ-209		
GZ-213	Site Sediment	Wynn - Everett MA	GZ-213		
GZ-214	Site Sediment	Wynn - Everett MA	GZ-214		
GZ-217	Site Sediment	Wynn - Everett MA	GZ-217		
GZ-223	Site Sediment	Wynn - Everett MA	GZ-223		
GZ-224	Site Sediment	Wynn - Everett MA	GZ-224		
GZ-225	Site Sediment	Wynn - Everett MA	GZ-225		

Data Transform	Zeta	Alt Hyp	Trials	Seed	PMSD	Test Result
Untransformed	NA	C > T	NA	NA	115.0%	

Steel Many-One Rank Sum Test

Sample Code	vs	Sample Code	Test Stat	Critical	Ties	DF	P-Value	P-Type	Decision(α:5%)
LC-105		GZ-203	25	15	0	8	0.7379	Asymp	Non-Significant Effect
		GZ-207	24	15	0	8	0.6482	Asymp	Non-Significant Effect
		GZ-209	34	15	0	8	0.9986	Asymp	Non-Significant Effect
		GZ-213	16	15	0	8	0.0518	Asymp	Non-Significant Effect
		GZ-214	19.5	15	1	8	0.2239	Asymp	Non-Significant Effect
		GZ-217	15	15	0	8	0.0306	Asymp	Significant Effect
		GZ-223	28	15	0	8	0.9209	Asymp	Non-Significant Effect
		GZ-224	15	15	0	8	0.0306	Asymp	Significant Effect
		GZ-225	25	15	0	8	0.7379	Asymp	Non-Significant Effect

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	34.26741	3.80749	9	3.128	0.0061	Significant Effect
Error	48.68256	1.217064	40			
Total	82.94997		49			

Distributional Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variances	Bartlett Equality of Variance	43.57	21.67	<0.0001	Unequal Variances
Distribution	Shapiro-Wilk W Normality	0.8719	0.9367	<0.0001	Non-normal Distribution

Leptocheirus 28-d Survival, Growth and Reproduction Sediment Test — **New England Bioassay**

Analysis ID:	21-0457-4261	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv1.8.8
Analyzed:	03 Jun-15 9:33	**Analysis:**	Nonparametric-Control vs Treatments	**Official Results:**	Yes

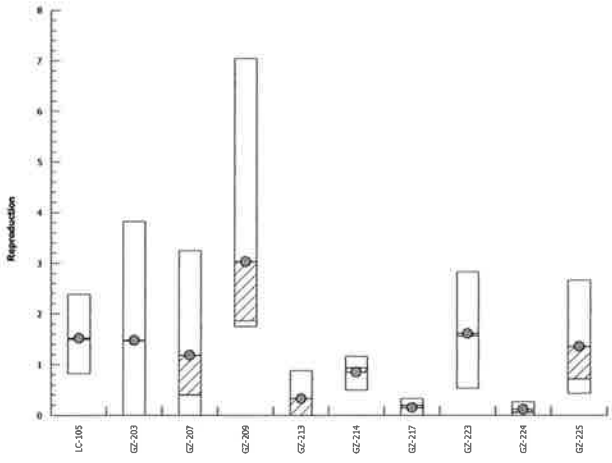
Reproduction Summary

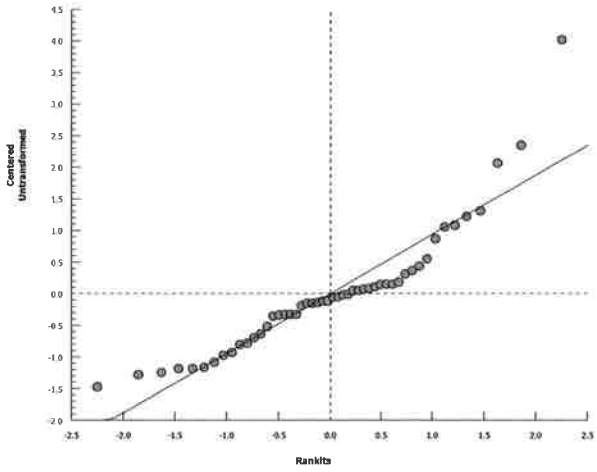
Sample Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
LC-105	5	1.519	0.7234	2.315	1.5	0.8235	2.389	0.2865	42.18%	0.0%
GZ-203	5	1.475	-0.3516	3.301	1.467	0	3.824	0.6578	99.74%	2.91%
GZ-207	5	1.183	-0.6645	3.031	0.4	0	3.25	0.6655	125.8%	22.1%
GZ-209	5	3.029	0.1956	5.863	1.867	1.75	7.053	1.021	75.34%	-99.44%
GZ-213	5	0.3294	-0.233	0.8919	0	0	0.8824	0.2026	137.5%	78.31%
GZ-214	5	0.8542	0.5219	1.186	0.9375	0.5	1.167	0.1197	31.33%	43.77%
GZ-217	5	0.1511	-0.03129	0.3335	0.2	0	0.3333	0.0657	97.21%	90.05%
GZ-223	5	1.613	0.5952	2.631	1.563	0.5294	2.833	0.3666	50.82%	-6.2%
GZ-224	5	0.1184	-0.05222	0.2891	0.05882	0	0.2667	0.06146	116.0%	92.2%
GZ-225	5	1.357	0.006024	2.708	0.7222	0.4286	2.667	0.4866	80.18%	10.67%

Reproduction Detail

Sample Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
LC-105	1	2.389	1.5	0.8235	1.882
GZ-203	3.824	0.5	0	1.583	1.467
GZ-207	2.267	3.25	0.4	0	0
GZ-209	7.053	1.75	1.867	2.692	1.786
GZ-213	0	0.7647	0	0.8824	0
GZ-214	1.167	0.5	0.9375	0.6667	1
GZ-217	0.2222	0	0.2	0	0.3333
GZ-223	1.667	1.563	1.474	2.833	0.5294
GZ-224	0.05882	0.2667	0	0.2667	0
GZ-225	0.5556	0.7222	2.667	2.412	0.4286

Graphics





SUMMARY OF TEST RESULTS
28-DAY L.PLUMULOSUS TOXICITY TESTS
WYNN-EVERETT (Test Dates 4/30/15 – 5/28/15)
LC-112 REFERENCE SITE COMPARISION

Sample	28-day Survival (%)		Biomass (mg)		Reproduction (number of young)	
	Mean	Sig[a]	Mean	Sig[a]	Mean[b]	Sig[a]
LC-112	85	--	1.42	--	2.081	--
Artificial Control	62	*	0.8779	*	1.73	NS
Natural Control	71	NS	1.035	*	1.352	NS
LC-102	83	NS	1.586	NS	2.366	NS
LC-105	87	NS	1.772	NS	1.519	NS
GZ-203	77	NS	1.418	NS	1.475	NS
GZ-207	69	NS	1.272	NS	1.183	NS
GZ-209	73	NS	1.473	NS	3.029	NS
GZ-213	82	NS	1.167	NS	0.3294	*
GZ-214	70	NS	1.213	NS	0.8542	NS
GZ-217	57	*	0.538	*	0.1511	*
GZ-223	85	NS	1.46	NS	1.613	NS
GZ-224	71	NS	0.9412	*	0.1184	*
GZ-225	73	NS	1.021	NS	1.357	NS

[a]NS: Not significantly reduced at P = 0.05; *: significant at P = 0.05.
when compared with LC-112 reference site

[b] Reproduction as the average of [young per rep/surviving adults per rep]

Leptocheirus 28-d Survival, Growth and Reproduction Sediment Test — **New England Bioassay**

Analysis ID:	15-9844-9384	**Endpoint:**	Survival Rate	**CETIS Version:**	CETISv1.8.8
Analyzed:	03 Jun-15 9:32	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes
Batch ID:	01-5466-7590	**Test Type:**	Leptocheirus (28-d)	**Analyst:**	
Start Date:	30 Apr-15	**Protocol:**	EPA/600/R-01/020 (2001)	**Diluent:**	Not Applicable
Ending Date:	28 May-15	**Species:**	Leptocheirus plumulosus	**Brine:**	Instant Ocean
Duration:	28d 0h	**Source:**	In-House Culture	**Age:**	

Sample Code	Sample ID	Sample Date	Receive Date	Sample Age	Client Name	Project
Art Control	04-5032-5421	25 Mar-15		36d 0h	GZA GeoEnvironmental	
Nat Control	11-3861-7478	24 Mar-15	21 Apr-15	37d 0h		
LC-102	14-0824-4221	26 Mar-15	21 Apr-15	35d 0h		
LC-105	19-8730-7911	26 Mar-15	21 Apr-15	35d 0h		
LC-112	09-5123-6710	27 Mar-15	21 Apr-15	34d 0h		

Sample Code	Material Type	Sample Source	Station Location	Latitude	Longitude
Art Control	Not Applicable	Wynn - Everett MA	Art Control		
Nat Control	Not Applicable	Wynn - Everett MA	Nat Control		
LC-102	Reference sediment	Wynn - Everett MA	LC-102		
LC-105	Reference sediment	Wynn - Everett MA	LC-105		
LC-112	Reference sediment	Wynn - Everett MA	LC-112		

Data Transform	Zeta	Alt Hyp	Trials	Seed	PMSD	Test Result
Angular (Corrected)	NA	C > T	NA	NA	20.3%	

Dunnett Multiple Comparison Test

Sample Code	vs	Sample Code	Test Stat	Critical	MSD	DF	P-Value	P-Type	Decision(α:5%)
LC-112		Art Control	2.941	2.305	0.209	8	0.0136	CDF	Significant Effect
		Nat Control	1.813	2.305	0.209	8	0.1216	CDF	Non-Significant Effect
		LC-102	-0.1332	2.305	0.209	8	0.8404	CDF	Non-Significant Effect
		LC-105	-0.3805	2.305	0.209	8	0.8999	CDF	Non-Significant Effect

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	0.348152	0.08703799	4	4.25	0.0119	Significant Effect
Error	0.4095784	0.02047892	20			
Total	0.7577303		24			

Distributional Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variances	Bartlett Equality of Variance	9.49	13.28	0.0500	Equal Variances
Distribution	Shapiro-Wilk W Normality	0.9527	0.8877	0.2887	Normal Distribution

Survival Rate Summary

Sample Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
Art Control	5	0.62	0.499	0.741	0.55	0.55	0.75	0.04359	15.72%	0.0%
Nat Control	5	0.71	0.5684	0.8516	0.7	0.6	0.9	0.05099	16.06%	-14.52%
LC-102	5	0.83	0.6036	1	0.9	0.55	1	0.08155	21.97%	-33.87%
LC-105	5	0.87	0.7992	0.9408	0.85	0.8	0.95	0.0255	6.55%	-40.32%
LC-112	5	0.85	0.8061	0.8939	0.85	0.8	0.9	0.01581	4.16%	-37.1%

Angular (Corrected) Transformed Summary

Sample Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
Art Control	5	0.909	0.7816	1.036	0.8355	0.8355	1.047	0.04586	11.28%	0.0%
Nat Control	5	1.011	0.8372	1.185	0.9912	0.8861	1.249	0.06262	13.85%	-11.23%
LC-102	5	1.187	0.8793	1.495	1.249	0.8355	1.459	0.1109	20.88%	-30.61%
LC-105	5	1.21	1.097	1.323	1.173	1.107	1.345	0.0407	7.52%	-33.07%
LC-112	5	1.175	1.113	1.237	1.173	1.107	1.249	0.02247	4.28%	-29.28%

Leptocheirus 28-d Survival, Growth and Reproduction Sediment Test — **New England Bioassay**

Analysis ID:	15-9844-9384	**Endpoint:**	Survival Rate	**CETIS Version:**	CETISv1.8.8
Analyzed:	03 Jun-15 9:32	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Survival Rate Detail

Sample Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
Art Control	0.55	0.55	0.55	0.7	0.75
Nat Control	0.65	0.9	0.7	0.6	0.7
LC-102	0.9	1	0.55	0.95	0.75
LC-105	0.95	0.9	0.8	0.85	0.85
LC-112	0.8	0.9	0.85	0.85	0.85

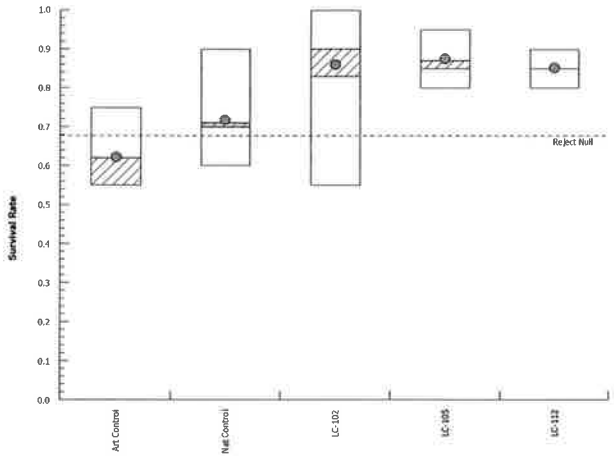
Angular (Corrected) Transformed Detail

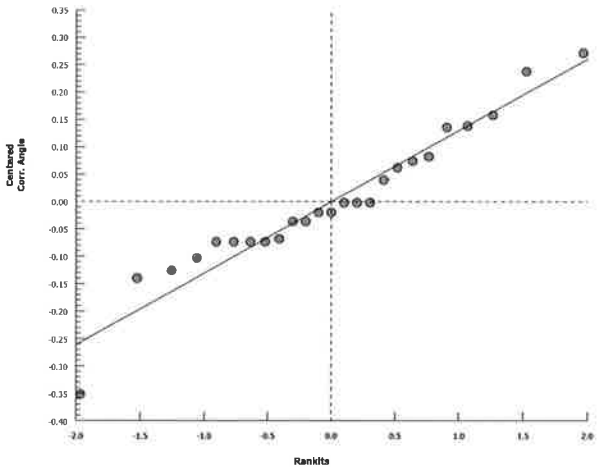
Sample Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
Art Control	0.8355	0.8355	0.8355	0.9912	1.047
Nat Control	0.9377	1.249	0.9912	0.8861	0.9912
LC-102	1.249	1.459	0.8355	1.345	1.047
LC-105	1.345	1.249	1.107	1.173	1.173
LC-112	1.107	1.249	1.173	1.173	1.173

Survival Rate Binomials

Sample Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
Art Control	11/20	11/20	11/20	14/20	15/20
Nat Control	13/20	18/20	14/20	12/20	14/20
LC-102	18/20	20/20	11/20	19/20	15/20
LC-105	19/20	18/20	16/20	17/20	17/20
LC-112	16/20	18/20	17/20	17/20	17/20

Graphics





Leptocheirus 28-d Survival, Growth and Reproduction Sediment Test — **New England Bioassay**

Analysis ID:	06-2079-0289	**Endpoint:**	Survival Rate	**CETIS Version:**	CETISv1.8.8
Analyzed:	03 Jun-15 9:32	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes
Batch ID:	01-5466-7590	**Test Type:**	Leptocheirus (28-d)	**Analyst:**	
Start Date:	30 Apr-15	**Protocol:**	EPA/600/R-01/020 (2001)	**Diluent:**	Not Applicable
Ending Date:	28 May-15	**Species:**	Leptocheirus plumulosus	**Brine:**	Instant Ocean
Duration:	28d 0h	**Source:**	In-House Culture	**Age:**	

Sample Code	Sample ID	Sample Date	Receive Date	Sample Age	Client Name	Project
LC-112	09-5123-6710	27 Mar-15	21 Apr-15	34d 0h	GZA GeoEnvironmental	
GZ-203	02-5461-8029	24 Mar-15	21 Apr-15	37d 0h		
GZ-207	03-2338-4998	25 Mar-15	21 Apr-15	36d 0h		
GZ-209	16-5046-1852	25 Mar-15	21 Apr-15	36d 0h		
GZ-213	17-1685-0966	25 Mar-15	21 Apr-15	36d 0h		
GZ-214	15-3950-8822	30 Mar-15	21 Apr-15	31d 0h		
GZ-217	04-7415-4404	24 Mar-15	21 Apr-15	37d 0h		
GZ-223	08-6096-2100	30 Mar-15	21 Apr-15	31d 0h		
GZ-224	13-6271-4856	30 Mar-15	21 Apr-15	31d 0h		
GZ-225	18-0414-8615	27 Mar-15	21 Apr-15	34d 0h		

Sample Code	Material Type	Sample Source	Station Location	Latitude	Longitude
LC-112	Reference sediment	Wynn - Everett MA	LC-112		
GZ-203	Site Sediment	Wynn - Everett MA	GZ-203		
GZ-207	Site Sediment	Wynn - Everett MA	GZ-207		
GZ-209	Site Sediment	Wynn - Everett MA	GZ-209		
GZ-213	Site Sediment	Wynn - Everett MA	GZ-213		
GZ-214	Site Sediment	Wynn - Everett MA	GZ-214		
GZ-217	Site Sediment	Wynn - Everett MA	GZ-217		
GZ-223	Site Sediment	Wynn - Everett MA	GZ-223		
GZ-224	Site Sediment	Wynn - Everett MA	GZ-224		
GZ-225	Site Sediment	Wynn - Everett MA	GZ-225		

Data Transform	Zeta	Alt Hyp	Trials	Seed	PMSD	Test Result
Angular (Corrected)	NA	C > T	NA	NA	22.5%	

Dunnett Multiple Comparison Test

Sample Code	vs	Sample Code	Test Stat	Critical	MSD	DF	P-Value	P-Type	Decision(α:5%)
LC-112		GZ-203	1.074	2.506	0.228	8	0.4882	CDF	Non-Significant Effect
		GZ-207	2.123	2.506	0.228	8	0.1086	CDF	Non-Significant Effect
		GZ-209	1.468	2.506	0.228	8	0.3107	CDF	Non-Significant Effect
		GZ-213	0.3998	2.506	0.228	8	0.7850	CDF	Non-Significant Effect
		GZ-214	1.961	2.506	0.228	8	0.1456	CDF	Non-Significant Effect
		GZ-217	3.417	2.506	0.228	8	0.0054	CDF	Significant Effect
		GZ-223	-0.1017	2.506	0.228	8	0.9203	CDF	Non-Significant Effect
		GZ-224	1.835	2.506	0.228	8	0.1805	CDF	Non-Significant Effect
		GZ-225	1.494	2.506	0.228	8	0.3002	CDF	Non-Significant Effect

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	0.4314632	0.04794035	9	2.315	0.0334	Significant Effect
Error	0.8282096	0.02070524	40			
Total	1.259673		49			

Distributional Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variances	Bartlett Equality of Variance	12.77	21.67	0.1732	Equal Variances
Distribution	Shapiro-Wilk W Normality	0.9893	0.9367	0.9296	Normal Distribution

Leptocheirus 28-d Survival, Growth and Reproduction Sediment Test — **New England Bioassay**

Analysis ID: 06-2079-0289 **Endpoint:** Survival Rate **CETIS Version:** CETISv1.8.8
Analyzed: 03 Jun-15 9:32 **Analysis:** Parametric-Control vs Treatments **Official Results:** Yes

Survival Rate Summary

Sample Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
LC-112	5	0.85	0.8061	0.8939	0.85	0.8	0.9	0.01581	4.16%	0.0%
GZ-203	5	0.77	0.6413	0.8987	0.8	0.6	0.85	0.04637	13.47%	9.41%
GZ-207	5	0.69	0.6091	0.7709	0.7	0.6	0.75	0.02915	9.45%	18.82%
GZ-209	5	0.73	0.5623	0.8977	0.7	0.6	0.95	0.06042	18.51%	14.12%
GZ-213	5	0.82	0.7258	0.9142	0.85	0.7	0.9	0.03391	9.25%	3.53%
GZ-214	5	0.7	0.5544	0.8456	0.75	0.55	0.8	0.05244	16.75%	17.65%
GZ-217	5	0.57	0.2903	0.8497	0.5	0.3	0.85	0.1007	39.52%	32.94%
GZ-223	5	0.85	0.7518	0.9482	0.85	0.75	0.95	0.03536	9.3%	0.0%
GZ-224	5	0.71	0.5684	0.8516	0.75	0.55	0.85	0.05099	16.06%	16.47%
GZ-225	5	0.73	0.5123	0.9477	0.75	0.45	0.9	0.07842	24.02%	14.12%

Angular (Corrected) Transformed Summary

Sample Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
LC-112	5	1.175	1.113	1.237	1.173	1.107	1.249	0.02247	4.28%	0.0%
GZ-203	5	1.077	0.9295	1.225	1.107	0.8861	1.173	0.05325	11.05%	8.32%
GZ-207	5	0.9819	0.8946	1.069	0.9912	0.8861	1.047	0.03142	7.16%	16.44%
GZ-209	5	1.041	0.8178	1.265	0.9912	0.8861	1.345	0.08055	17.29%	11.37%
GZ-213	5	1.139	1.019	1.259	1.173	0.9912	1.249	0.04319	8.48%	3.1%
GZ-214	5	0.9966	0.8381	1.155	1.047	0.8355	1.107	0.05709	12.81%	15.19%
GZ-217	5	0.8641	0.5646	1.164	0.7854	0.5796	1.173	0.1079	27.91%	26.46%
GZ-223	5	1.184	1.039	1.33	1.173	1.047	1.345	0.05243	9.9%	-0.79%
GZ-224	5	1.008	0.8498	1.166	1.047	0.8355	1.173	0.05702	12.65%	14.21%
GZ-225	5	1.039	0.7934	1.285	1.047	0.7353	1.249	0.08851	19.05%	11.57%

Survival Rate Detail

Sample Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
LC-112	0.8	0.9	0.85	0.85	0.85
GZ-203	0.85	0.8	0.85	0.6	0.75
GZ-207	0.75	0.6	0.75	0.7	0.65
GZ-209	0.95	0.6	0.75	0.65	0.7
GZ-213	0.9	0.85	0.7	0.85	0.8
GZ-214	0.6	0.8	0.8	0.75	0.55
GZ-217	0.45	0.3	0.5	0.85	0.75
GZ-223	0.75	0.8	0.95	0.9	0.85
GZ-224	0.85	0.75	0.65	0.75	0.55
GZ-225	0.45	0.9	0.75	0.85	0.7

Angular (Corrected) Transformed Detail

Sample Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
LC-112	1.107	1.249	1.173	1.173	1.173
GZ-203	1.173	1.107	1.173	0.8861	1.047
GZ-207	1.047	0.8861	1.047	0.9912	0.9377
GZ-209	1.345	0.8861	1.047	0.9377	0.9912
GZ-213	1.249	1.173	0.9912	1.173	1.107
GZ-214	0.8861	1.107	1.107	1.047	0.8355
GZ-217	0.7353	0.5796	0.7854	1.173	1.047
GZ-223	1.047	1.107	1.345	1.249	1.173
GZ-224	1.173	1.047	0.9377	1.047	0.8355
GZ-225	0.7353	1.249	1.047	1.173	0.9912

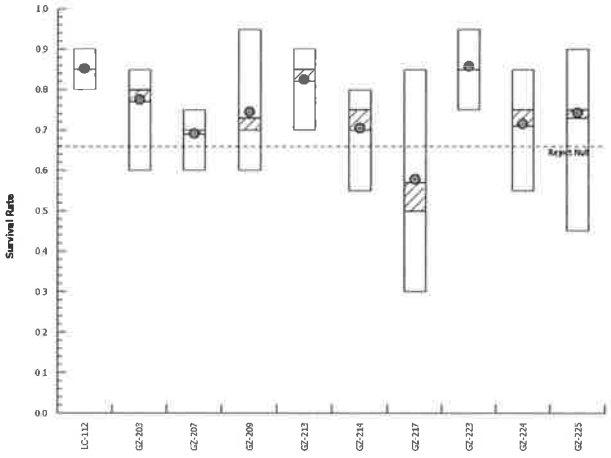
Leptocheirus 28-d Survival, Growth and Reproduction Sediment Test **New England Bioassay**

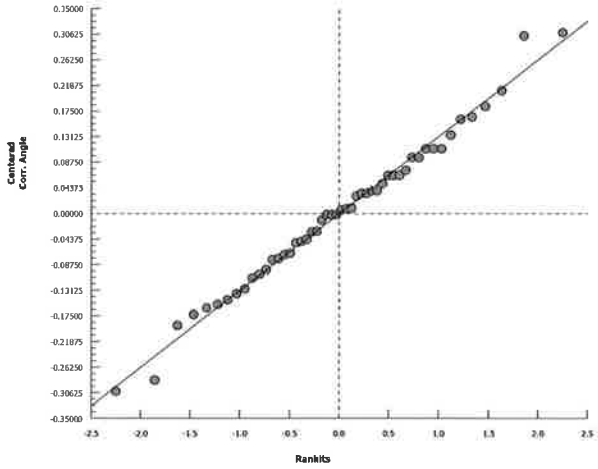
Analysis ID:	06-2079-0289	**Endpoint:**	Survival Rate	**CETIS Version:**	CETISv1.8.8
Analyzed:	03 Jun-15 9:32	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Survival Rate Binomials

Sample Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
LC-112	16/20	18/20	17/20	17/20	17/20
GZ-203	17/20	16/20	17/20	12/20	15/20
GZ-207	15/20	12/20	15/20	14/20	13/20
GZ-209	19/20	12/20	15/20	13/20	14/20
GZ-213	18/20	17/20	14/20	17/20	16/20
GZ-214	12/20	16/20	16/20	15/20	11/20
GZ-217	9/20	6/20	10/20	17/20	15/20
GZ-223	15/20	16/20	19/20	18/20	17/20
GZ-224	17/20	15/20	13/20	15/20	11/20
GZ-225	9/20	18/20	15/20	17/20	14/20

Graphics





Leptocheirus 28-d Survival, Growth and Reproduction Sediment Test — **New England Bioassay**

Analysis ID:	03-3836-1358	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.8.8
Analyzed:	01 Jun-15 11:31	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes
Batch ID:	01-5466-7590	**Test Type:**	Leptocheirus (28-d)	**Analyst:**	
Start Date:	30 Apr-15	**Protocol:**	EPA/600/R-01/020 (2001)	**Diluent:**	Not Applicable
Ending Date:	28 May-15	**Species:**	Leptocheirus plumulosus	**Brine:**	Instant Ocean
Duration:	28d 0h	**Source:**	In-House Culture	**Age:**	

Sample Code	Sample ID	Sample Date	Receive Date	Sample Age	Client Name	Project
Art Control	04-5032-5421	25 Mar-15		36d 0h	GZA GeoEnvironmental	
Nat Control	11-3861-7478	24 Mar-15	21 Apr-15	37d 0h		
LC-102	14-0824-4221	26 Mar-15	21 Apr-15	35d 0h		
LC-105	19-8730-7911	26 Mar-15	21 Apr-15	35d 0h		
LC-112	09-5123-6710	27 Mar-15	21 Apr-15	34d 0h		

Sample Code	Material Type	Sample Source	Station Location	Latitude	Longitude
Art Control	Not Applicable	Wynn - Everett MA	Art Control		
Nat Control	Not Applicable	Wynn - Everett MA	Nat Control		
LC-102	Reference sediment	Wynn - Everett MA	LC-102		
LC-105	Reference sediment	Wynn - Everett MA	LC-105		
LC-112	Reference sediment	Wynn - Everett MA	LC-112		

Data Transform	Zeta	Alt Hyp	Trials	Seed	PMSD	Test Result
Untransformed	NA	C > T	NA	NA	23.5%	

Dunnett Multiple Comparison Test

Sample Code	vs	Sample Code	Test Stat	Critical	MSD	DF	P-Value	P-Type	Decision(α:5%)
LC-112		Art Control	3.749	2.305	0.333	8	0.0022	CDF	Significant Effect
		Nat Control	2.663	2.305	0.333	8	0.0244	CDF	Significant Effect
		LC-102	-1.144	2.305	0.333	8	0.9835	CDF	Non-Significant Effect
		LC-105	-2.433	2.305	0.333	8	0.9996	CDF	Non-Significant Effect

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	2.801481	0.7003703	4	13.39	<0.0001	Significant Effect
Error	1.046485	0.05232427	20			
Total	3.847967		24			

Distributional Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variances	Bartlett Equality of Variance	4.781	13.28	0.3106	Equal Variances
Distribution	Shapiro-Wilk W Normality	0.9342	0.8877	0.1087	Normal Distribution

Mean Dry Biomass-mg Summary

Sample Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
Art Control	5	0.8779	0.6644	1.091	0.824	0.7045	1.077	0.07691	19.59%	0.0%
Nat Control	5	1.035	0.8239	1.246	0.973	0.892	1.292	0.07604	16.43%	-17.9%
LC-102	5	1.586	1.139	2.032	1.782	1.036	1.861	0.1608	22.67%	-80.64%
LC-105	5	1.772	1.612	1.932	1.826	1.557	1.867	0.0577	7.28%	-101.9%
LC-112	5	1.42	1.123	1.717	1.514	1.046	1.617	0.107	16.85%	-61.78%

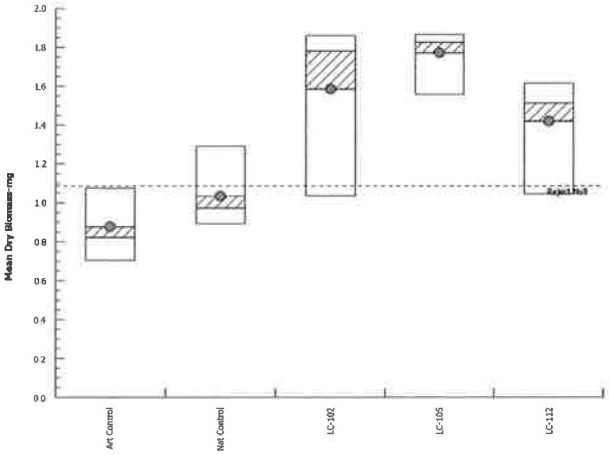
Mean Dry Biomass-mg Detail

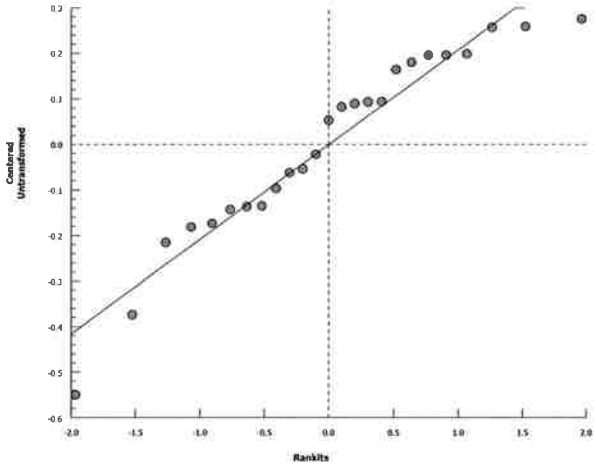
Sample Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
Art Control	0.7415	0.7045	0.824	1.042	1.077
Nat Control	0.892	1.292	0.973	0.9	1.118
LC-102	1.861	1.782	1.036	1.845	1.405
LC-105	1.826	1.751	1.557	1.867	1.862
LC-112	1.514	1.601	1.046	1.323	1.617

Leptocheirus 28-d Survival, Growth and Reproduction Sediment Test — **New England Bioassay**

Analysis ID:	03-3836-1358	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.8.8
Analyzed:	01 Jun-15 11:31	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Graphics





Leptocheirus 28-d Survival, Growth and Reproduction Sediment Test — **New England Bioassay**

Analysis ID:	12-0633-2368	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.8.8
Analyzed:	01 Jun-15 11:32	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes
Batch ID:	01-5466-7590	**Test Type:**	Leptocheirus (28-d)	**Analyst:**	
Start Date:	30 Apr-15	**Protocol:**	EPA/600/R-01/020 (2001)	**Diluent:**	Not Applicable
Ending Date:	28 May-15	**Species:**	Leptocheirus plumulosus	**Brine:**	Instant Ocean
Duration:	28d 0h	**Source:**	In-House Culture	**Age:**	

Sample Code	Sample ID	Sample Date	Receive Date	Sample Age	Client Name	Project
LC-112	09-5123-6710	27 Mar-15	21 Apr-15	34d 0h	GZA GeoEnvironmental	
GZ-203	02-5461-8029	24 Mar-15	21 Apr-15	37d 0h		
GZ-207	03-2338-4998	25 Mar-15	21 Apr-15	36d 0h		
GZ-209	16-5046-1852	25 Mar-15	21 Apr-15	36d 0h		
GZ-213	17-1685-0966	25 Mar-15	21 Apr-15	36d 0h		
GZ-214	15-3950-8822	30 Mar-15	21 Apr-15	31d 0h		
GZ-217	04-7415-4404	24 Mar-15	21 Apr-15	37d 0h		
GZ-223	08-6096-2100	30 Mar-15	21 Apr-15	31d 0h		
GZ-224	13-6271-4856	30 Mar-15	21 Apr-15	31d 0h		
GZ-225	18-0414-8615	27 Mar-15	21 Apr-15	34d 0h		

Sample Code	Material Type	Sample Source	Station Location	Latitude	Longitude
LC-112	Reference sediment	Wynn - Everett MA	LC-112		
GZ-203	Site Sediment	Wynn - Everett MA	GZ-203		
GZ-207	Site Sediment	Wynn - Everett MA	GZ-207		
GZ-209	Site Sediment	Wynn - Everett MA	GZ-209		
GZ-213	Site Sediment	Wynn - Everett MA	GZ-213		
GZ-214	Site Sediment	Wynn - Everett MA	GZ-214		
GZ-217	Site Sediment	Wynn - Everett MA	GZ-217		
GZ-223	Site Sediment	Wynn - Everett MA	GZ-223		
GZ-224	Site Sediment	Wynn - Everett MA	GZ-224		
GZ-225	Site Sediment	Wynn - Everett MA	GZ-225		

Data Transform	Zeta	Alt Hyp	Trials	Seed	PMSD	Test Result
Untransformed	NA	C > T	NA	NA	29.6%	

Dunnett Multiple Comparison Test

Sample Code	vs	Sample Code	Test Stat	Critical	MSD	DF	P-Value	P-Type	Decision(α:5%)
LC-112		GZ-203	0.01312	2.506	0.420	8	0.8971	CDF	Non-Significant Effect
		GZ-207	0.884	2.506	0.420	8	0.5789	CDF	Non-Significant Effect
		GZ-209	-0.3155	2.506	0.420	8	0.9525	CDF	Non-Significant Effect
		GZ-213	1.513	2.506	0.420	8	0.2926	CDF	Non-Significant Effect
		GZ-214	1.239	2.506	0.420	8	0.4109	CDF	Non-Significant Effect
		GZ-217	5.263	2.506	0.420	8	<0.0001	CDF	Significant Effect
		GZ-223	-0.2356	2.506	0.420	8	0.9420	CDF	Non-Significant Effect
		GZ-224	2.858	2.506	0.420	8	0.0224	CDF	Significant Effect
		GZ-225	2.385	2.506	0.420	8	0.0647	CDF	Non-Significant Effect

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	3.907705	0.4341894	9	6.179	<0.0001	Significant Effect
Error	2.810657	0.07026643	40			
Total	6.718362		49			

Distributional Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variances	Bartlett Equality of Variance	10.49	21.67	0.3123	Equal Variances
Distribution	Shapiro-Wilk W Normality	0.9812	0.9367	0.6049	Normal Distribution

Leptocheirus 28-d Survival, Growth and Reproduction Sediment Test — **New England Bioassay**

Analysis ID:	12-0633-2368	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.8.8
Analyzed:	01 Jun-15 11:32	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

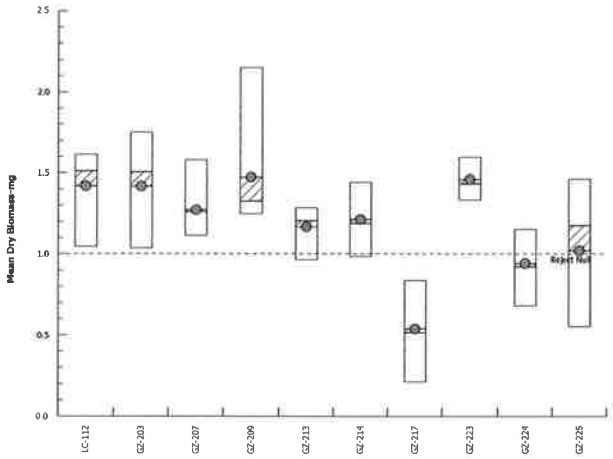
Mean Dry Biomass-mg Summary

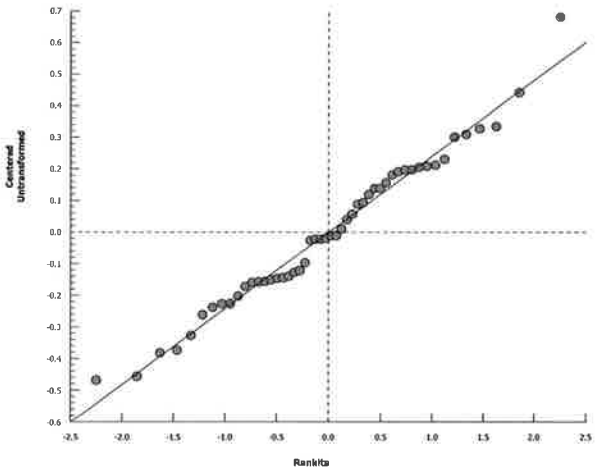
Sample Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
LC-112	5	1.42	1.123	1.717	1.514	1.046	1.617	0.107	16.85%	0.0%
GZ-203	5	1.418	1.045	1.791	1.507	1.036	1.752	0.1343	21.18%	0.15%
GZ-207	5	1.272	1.037	1.507	1.261	1.115	1.582	0.08474	14.89%	10.43%
GZ-209	5	1.473	1.001	1.946	1.326	1.246	2.152	0.1702	25.84%	-3.73%
GZ-213	5	1.167	1.014	1.319	1.206	0.9635	1.285	0.05491	10.52%	17.86%
GZ-214	5	1.213	0.9559	1.469	1.19	0.986	1.443	0.09247	17.05%	14.62%
GZ-217	5	0.538	0.2185	0.8575	0.515	0.211	0.839	0.1151	47.82%	62.12%
GZ-223	5	1.46	1.295	1.624	1.433	1.332	1.598	0.0592	9.07%	-2.78%
GZ-224	5	0.9412	0.6801	1.202	0.922	0.6795	1.154	0.09403	22.34%	33.73%
GZ-225	5	1.021	0.4812	1.56	1.177	0.552	1.463	0.1942	42.56%	28.15%

Mean Dry Biomass-mg Detail

Sample Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
LC-112	1.514	1.601	1.046	1.323	1.617
GZ-203	1.752	1.507	1.18	1.036	1.615
GZ-207	1.261	1.115	1.582	1.121	1.282
GZ-209	2.152	1.326	1.329	1.314	1.246
GZ-213	1.285	1.223	0.9635	1.206	1.155
GZ-214	0.986	1.404	1.443	1.19	1.04
GZ-217	0.3815	0.211	0.515	0.839	0.7435
GZ-223	1.338	1.433	1.598	1.598	1.332
GZ-224	1.15	0.922	1.154	0.8015	0.6795
GZ-225	0.564	1.348	1.463	1.177	0.552

Graphics





Leptocheirus 28-d Survival, Growth and Reproduction Sediment Test — **New England Bioassay**

Analysis ID:	11-2515-9797	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv1.8.8
Analyzed:	03 Jun-15 9:33	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes
Batch ID:	01-5466-7590	**Test Type:**	Leptocheirus (28-d)	**Analyst:**	
Start Date:	30 Apr-15	**Protocol:**	EPA/600/R-01/020 (2001)	**Diluent:**	Not Applicable
Ending Date:	28 May-15	**Species:**	Leptocheirus plumulosus	**Brine:**	Instant Ocean
Duration:	28d 0h	**Source:**	In-House Culture	**Age:**	

Sample Code	Sample ID	Sample Date	Receive Date	Sample Age	Client Name	Project
Art Control	04-5032-5421	25 Mar-15		36d 0h	GZA GeoEnvironmental	
Nat Control	11-3861-7478	24 Mar-15	21 Apr-15	37d 0h		
LC-102	14-0824-4221	26 Mar-15	21 Apr-15	35d 0h		
LC-105	19-8730-7911	26 Mar-15	21 Apr-15	35d 0h		
LC-112	09-5123-6710	27 Mar-15	21 Apr-15	34d 0h		

Sample Code	Material Type	Sample Source	Station Location	Latitude	Longitude
Art Control	Not Applicable	Wynn - Everett MA	Art Control		
Nat Control	Not Applicable	Wynn - Everett MA	Nat Control		
LC-102	Reference sediment	Wynn - Everett MA	LC-102		
LC-105	Reference sediment	Wynn - Everett MA	LC-105		
LC-112	Reference sediment	Wynn - Everett MA	LC-112		

Data Transform	Zeta	Alt Hyp	Trials	Seed	PMSD	Test Result
Untransformed	NA	C > T	NA	NA	65.7%	

Dunnett Multiple Comparison Test

Sample Code	vs	Sample Code	Test Stat	Critical	MSD	DF	P-Value	P-Type	Decision(α:5%)
LC-112		Art Control	0.5926	2.305	1.368	8	0.5622	CDF	Non-Significant Effect
		Nat Control	1.229	2.305	1.368	8	0.2893	CDF	Non-Significant Effect
		LC-102	-0.4794	2.305	1.368	8	0.9184	CDF	Non-Significant Effect
		LC-105	0.9476	2.305	1.368	8	0.4032	CDF	Non-Significant Effect

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	3.419955	0.8549886	4	0.9706	0.4454	Non-Significant Effect
Error	17.61759	0.8808794	20			
Total	21.03754		24			

Distributional Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variances	Bartlett Equality of Variance	3.158	13.28	0.5317	Equal Variances
Distribution	Shapiro-Wilk W Normality	0.9286	0.8877	0.0807	Normal Distribution

Reproduction Summary

Sample Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
Art Control	5	1.73	0.7308	2.729	1.467	1	3	0.3598	46.51%	0.0%
Nat Control	5	1.352	0.5441	2.159	1.214	0.6429	2.056	0.2909	48.12%	21.85%
LC-102	5	2.366	1.085	3.647	2.05	1.278	3.818	0.4615	43.62%	-36.79%
LC-105	5	1.519	0.7234	2.315	1.5	0.8235	2.389	0.2865	42.18%	12.18%
LC-112	5	2.081	0.3887	3.774	1.588	0.9412	4.313	0.6097	65.5%	-20.34%

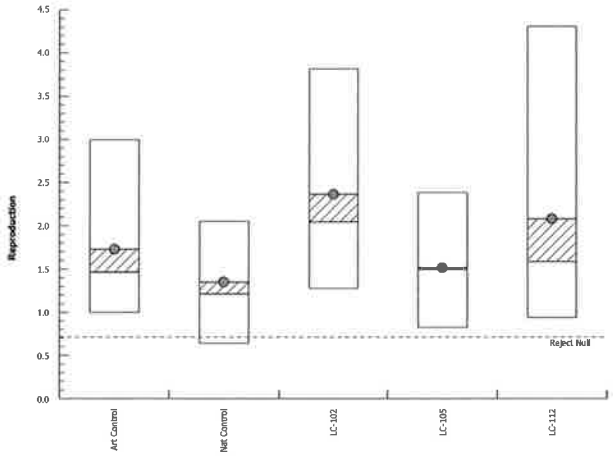
Reproduction Detail

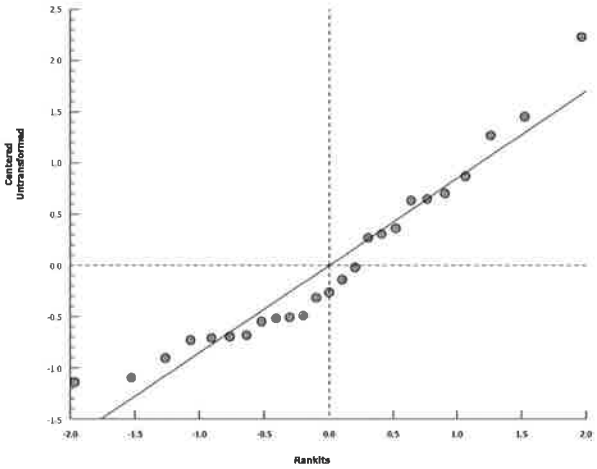
Sample Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
Art Control	1	2	1.182	3	1.467
Nat Control	0.8462	2.056	1.214	2	0.6429
LC-102	1.278	2.05	3.818	1.684	3
LC-105	1	2.389	1.5	0.8235	1.882
LC-112	4.313	2.389	1.176	0.9412	1.588

Leptocheirus 28-d Survival, Growth and Reproduction Sediment Test — **New England Bioassay**

Analysis ID:	11-2515-9797	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv1.8.8
Analyzed:	03 Jun-15 9:33	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Graphics





Leptocheirus 28-d Survival, Growth and Reproduction Sediment Test — **New England Bioassay**

Analysis ID:	16-5606-8140	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv1.8.8
Analyzed:	03 Jun-15 9:33	**Analysis:**	Nonparametric-Control vs Treatments	**Official Results:**	Yes
Batch ID:	01-5466-7590	**Test Type:**	Leptocheirus (28-d)	**Analyst:**	
Start Date:	30 Apr-15	**Protocol:**	EPA/600/R-01/020 (2001)	**Diluent:**	Not Applicable
Ending Date:	28 May-15	**Species:**	Leptocheirus plumulosus	**Brine:**	Instant Ocean
Duration:	28d 0h	**Source:**	In-House Culture	**Age:**	

Sample Code	Sample ID	Sample Date	Receive Date	Sample Age	Client Name	Project
LC-112	09-5123-6710	27 Mar-15	21 Apr-15	34d 0h	GZA GeoEnvironmental	
GZ-203	02-5461-8029	24 Mar-15	21 Apr-15	37d 0h		
GZ-207	03-2338-4998	25 Mar-15	21 Apr-15	36d 0h		
GZ-209	16-5046-1852	25 Mar-15	21 Apr-15	36d 0h		
GZ-213	17-1685-0966	25 Mar-15	21 Apr-15	36d 0h		
GZ-214	15-3950-8822	30 Mar-15	21 Apr-15	31d 0h		
GZ-217	04-7415-4404	24 Mar-15	21 Apr-15	37d 0h		
GZ-223	08-6096-2100	30 Mar-15	21 Apr-15	31d 0h		
GZ-224	13-6271-4856	30 Mar-15	21 Apr-15	31d 0h		
GZ-225	18-0414-8615	27 Mar-15	21 Apr-15	34d 0h		

Sample Code	Material Type	Sample Source	Station Location	Latitude	Longitude
LC-112	Reference sediment	Wynn - Everett MA	LC-112		
GZ-203	Site Sediment	Wynn - Everett MA	GZ-203		
GZ-207	Site Sediment	Wynn - Everett MA	GZ-207		
GZ-209	Site Sediment	Wynn - Everett MA	GZ-209		
GZ-213	Site Sediment	Wynn - Everett MA	GZ-213		
GZ-214	Site Sediment	Wynn - Everett MA	GZ-214		
GZ-217	Site Sediment	Wynn - Everett MA	GZ-217		
GZ-223	Site Sediment	Wynn - Everett MA	GZ-223		
GZ-224	Site Sediment	Wynn - Everett MA	GZ-224		
GZ-225	Site Sediment	Wynn - Everett MA	GZ-225		

Data Transform	Zeta	Alt Hyp	Trials	Seed	PMSD	Test Result
Untransformed	NA	C > T	NA	NA	88.9%	

Steel Many-One Rank Sum Test

Sample Code	vs	Sample Code	Test Stat	Critical	Ties	DF	P-Value	P-Type	Decision(α:5%)
LC-112		GZ-203	23	15	0	8	0.5498	Asymp	Non-Significant Effect
		GZ-207	22	15	0	8	0.4487	Asymp	Non-Significant Effect
		GZ-209	33	15	0	8	0.9967	Asymp	Non-Significant Effect
		GZ-213	15	15	0	8	0.0306	Asymp	Significant Effect
		GZ-214	17	15	0	8	0.0836	Asymp	Non-Significant Effect
		GZ-217	15	15	0	8	0.0306	Asymp	Significant Effect
		GZ-223	26	15	0	8	0.8143	Asymp	Non-Significant Effect
		GZ-224	15	15	0	8	0.0306	Asymp	Significant Effect
		GZ-225	23	15	0	8	0.5498	Asymp	Non-Significant Effect

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	37.69368	4.188186	9	3.075	0.0068	Significant Effect
Error	54.475	1.361875	40			
Total	92.16867		49			

Distributional Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variances	Bartlett Equality of Variance	42.16	21.67	<0.0001	Unequal Variances
Distribution	Shapiro-Wilk W Normality	0.8717	0.9367	<0.0001	Non-normal Distribution

Leptocheirus 28-d Survival, Growth and Reproduction Sediment Test — **New England Bioassay**

Analysis ID:	16-5606-8140	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv1.8.8
Analyzed:	03 Jun-15 9:33	**Analysis:**	Nonparametric-Control vs Treatments	**Official Results:**	Yes

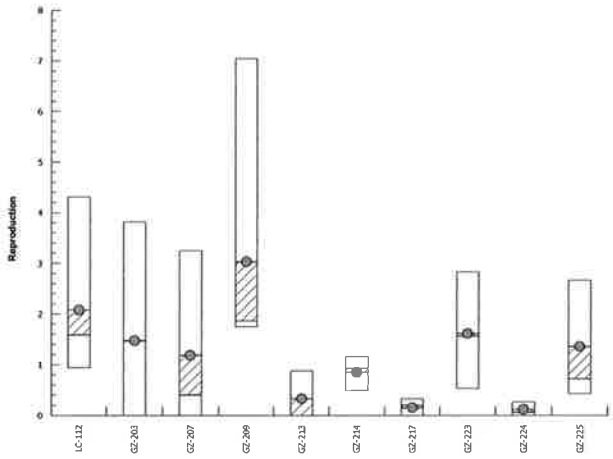
Reproduction Summary

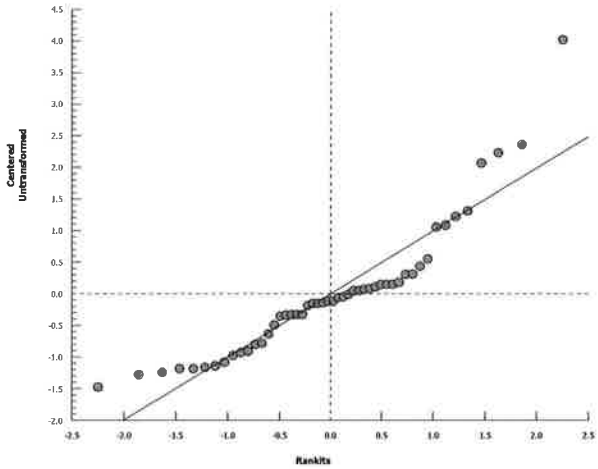
Sample Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
LC-112	5	2.081	0.3887	3.774	1.588	0.9412	4.313	0.6097	65.5%	0.0%
GZ-203	5	1.475	-0.3516	3.301	1.467	0	3.824	0.6578	99.74%	29.15%
GZ-207	5	1.183	-0.6645	3.031	0.4	0	3.25	0.6655	125.8%	43.15%
GZ-209	5	3.029	0.1956	5.863	1.867	1.75	7.053	1.021	75.34%	-45.55%
GZ-213	5	0.3294	-0.233	0.8919	0	0	0.8824	0.2026	137.5%	84.17%
GZ-214	5	0.8542	0.5219	1.186	0.9375	0.5	1.167	0.1197	31.33%	58.96%
GZ-217	5	0.1511	-0.03129	0.3335	0.2	0	0.3333	0.0657	97.21%	92.74%
GZ-223	5	1.613	0.5952	2.631	1.563	0.5294	2.833	0.3666	50.82%	22.5%
GZ-224	5	0.1184	-0.05222	0.2891	0.05882	0	0.2667	0.06146	116.0%	94.31%
GZ-225	5	1.357	0.006024	2.708	0.7222	0.4286	2.667	0.4866	80.18%	34.81%

Reproduction Detail

Sample Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
LC-112	4.313	2.389	1.176	0.9412	1.588
GZ-203	3.824	0.5	0	1.583	1.467
GZ-207	2.267	3.25	0.4	0	0
GZ-209	7.053	1.75	1.867	2.692	1.786
GZ-213	0	0.7647	0	0.8824	0
GZ-214	1.167	0.5	0.9375	0.6667	1
GZ-217	0.2222	0	0.2	0	0.3333
GZ-223	1.667	1.563	1.474	2.833	0.5294
GZ-224	0.05882	0.2667	0	0.2667	0
GZ-225	0.5556	0.7222	2.667	2.412	0.4286

Graphics





APPENDIX C

CHEMICAL ANLAYSIS

REFERENCE TOXICANT DATA

CHAIN OF CUSTODY DOCUMENTS

PHOENIX
Environmental Laboratories, Inc.

Monday, May 11, 2015

Attn: Ms. Kim Wills
New England Bioassay
a Division of GZA GeoEnvironmental
77 Batson Drive
Manchester, CT 06040

Project ID: GZA-EVERETT SEDIMENT
Sample ID#s: BJ12838 - BJ12851

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B
NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 11, 2015

FOR: Attn: Ms. Kim Wills
New England Bioassay
a Division of GZA GeoEnvironmental
77 Batson Drive
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		04/30/15	9:30
Location Code:	NEB	Received by:	SW	05/06/15	16:04
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBJ12838
Phoenix ID: BJ12838

Project ID: GZA-EVERETT SEDIMENT
Client ID: C35-1871-O

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Ammonia as Nitrogen	0.22	0.05	mg/L	1	05/07/15	WHM	E350.1

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
May 11, 2015
Reviewed and Released by: Deb Lawrie, Project Manager

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 11, 2015

FOR: Attn: Ms. Kim Wills
New England Bioassay
a Division of GZA GeoEnvironmental
77 Batson Drive
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		04/30/15	9:30
Location Code:	NEB	Received by:	SW	05/06/15	16:04
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBJ12838
Phoenix ID: BJ12839

Project ID: GZA-EVERETT SEDIMENT
Client ID: C35-1872-O

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Ammonia as Nitrogen	1.85	0.05	mg/L	1	05/07/15	WHM	E350.1

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director
May 11, 2015
Reviewed and Released by: Deb Lawrie, Project Manager

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 11, 2015

FOR: Attn: Ms. Kim Wills
New England Bioassay
a Division of GZA GeoEnvironmental
77 Batson Drive
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		04/30/15	9:35
Location Code:	NEB	Received by:	SW	05/06/15	16:04
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBJ12838
Phoenix ID: BJ12840

Project ID: GZA-EVERETT SEDIMENT
Client ID: C35-1873-O

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Ammonia as Nitrogen	0.95	0.05	mg/L	1	05/07/15	WHM	E350.1

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
May 11, 2015
Reviewed and Released by: Deb Lawrie, Project Manager

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 11, 2015

FOR: Attn: Ms. Kim Wills
New England Bioassay
a Division of GZA GeoEnvironmental
77 Batson Drive
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		04/30/15	9:35
Location Code:	NEB	Received by:	SW	05/06/15	16:04
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBJ12838
Phoenix ID: BJ12841

Project ID: GZA-EVERETT SEDIMENT
Client ID: C35-1874-O

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Ammonia as Nitrogen	1.10	0.05	mg/L	1	05/07/15	WHM	E350.1

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
May 11, 2015
Reviewed and Released by: Deb Lawrie, Project Manager

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 11, 2015

FOR: Attn: Ms. Kim Wills
New England Bioassay
a Division of GZA GeoEnvironmental
77 Batson Drive
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		04/30/15	9:35
Location Code:	NEB	Received by:	SW	05/06/15	16:04
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBJ12838
Phoenix ID: BJ12842

Project ID: GZA-EVERETT SEDIMENT
Client ID: C35-1875-O

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Ammonia as Nitrogen	0.47	0.05	mg/L	1	05/07/15	WHM	E350.1

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
May 11, 2015
Reviewed and Released by: Deb Lawrie, Project Manager

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 11, 2015

FOR: Attn: Ms. Kim Wills
New England Bioassay
a Division of GZA GeoEnvironmental
77 Batson Drive
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		04/30/15	9:40
Location Code:	NEB	Received by:	SW	05/06/15	16:04
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBJ12838
Phoenix ID: BJ12843

Project ID: GZA-EVERETT SEDIMENT
Client ID: C35-1876-O

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Ammonia as Nitrogen	0.82	0.05	mg/L	1	05/07/15	WHM	E350.1

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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May 11, 2015
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Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 11, 2015

FOR: Attn: Ms. Kim Wills
New England Bioassay
a Division of GZA GeoEnvironmental
77 Batson Drive
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		04/30/15	9:40
Location Code:	NEB	Received by:	SW	05/06/15	16:04
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBJ12838
Phoenix ID: BJ12844

Project ID: GZA-EVERETT SEDIMENT
Client ID: C35-1877-O

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Ammonia as Nitrogen	1.15	0.05	mg/L	1	05/07/15	WHM	E350.1

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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May 11, 2015
Reviewed and Released by: Deb Lawrie, Project Manager

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Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 11, 2015

FOR: Attn: Ms. Kim Wills
New England Bioassay
a Division of GZA GeoEnvironmental
77 Batson Drive
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		04/30/15	9:40
Location Code:	NEB	Received by:	SW	05/06/15	16:04
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBJ12838
Phoenix ID: BJ12845

Project ID: GZA-EVERETT SEDIMENT
Client ID: C35-1878-O

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Ammonia as Nitrogen	1.06	0.05	mg/L	1	05/07/15	WHM	E350.1

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director
May 11, 2015
Reviewed and Released by: Deb Lawrie, Project Manager

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587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 11, 2015

FOR: Attn: Ms. Kim Wills
New England Bioassay
a Division of GZA GeoEnvironmental
77 Batson Drive
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		04/30/15	9:40
Location Code:	NEB	Received by:	SW	05/06/15	16:04
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBJ12838
Phoenix ID: BJ12846

Project ID: GZA-EVERETT SEDIMENT
Client ID: C35-1879-O

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Ammonia as Nitrogen	0.84	0.05	mg/L	1	05/08/15	WHM	E350.1

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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May 11, 2015
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Analysis Report

May 11, 2015

FOR: Attn: Ms. Kim Wills
New England Bioassay
a Division of GZA GeoEnvironmental
77 Batson Drive
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		04/30/15	9:45
Location Code:	NEB	Received by:	SW	05/06/15	16:04
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBJ12838
Phoenix ID: BJ12847

Project ID: GZA-EVERETT SEDIMENT
Client ID: C35-1880-O

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Ammonia as Nitrogen	1.87	0.05	mg/L	1	05/08/15	WHM	E350.1

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

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Phyllis Shiller

Phyllis Shiller, Laboratory Director
May 11, 2015
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Analysis Report

May 11, 2015

FOR: Attn: Ms. Kim Wills
New England Bioassay
a Division of GZA GeoEnvironmental
77 Batson Drive
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		04/30/15	9:45
Location Code:	NEB	Received by:	SW	05/06/15	16:04
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBJ12838
Phoenix ID: BJ12848

Project ID: GZA-EVERETT SEDIMENT
Client ID: C35-1881-O

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Ammonia as Nitrogen	0.76	0.05	mg/L	1	05/08/15	WHM	E350.1

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

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Analysis Report

May 11, 2015

FOR: Attn: Ms. Kim Wills
New England Bioassay
a Division of GZA GeoEnvironmental
77 Batson Drive
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		04/30/15	9:45
Location Code:	NEB	Received by:	SW	05/06/15	16:04
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBJ12838
Phoenix ID: BJ12849

Project ID: GZA-EVERETT SEDIMENT
Client ID: C35-1882-O

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Ammonia as Nitrogen	0.75	0.05	mg/L	1	05/08/15	WHM	E350.1

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

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Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 11, 2015

FOR: Attn: Ms. Kim Wills
New England Bioassay
a Division of GZA GeoEnvironmental
77 Batson Drive
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		04/30/15	9:50
Location Code:	NEB	Received by:	SW	05/06/15	16:04
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBJ12838
Phoenix ID: BJ12850

Project ID: GZA-EVERETT SEDIMENT
Client ID: C35-1883-O

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Ammonia as Nitrogen	1.33	0.05	mg/L	1	05/08/15	WHM	E350.1

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

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May 11, 2015
Reviewed and Released by: Deb Lawrie, Project Manager

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Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 11, 2015

FOR: Attn: Ms. Kim Wills
New England Bioassay
a Division of GZA GeoEnvironmental
77 Batson Drive
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		04/30/15	9:50
Location Code:	NEB	Received by:	SW	05/06/15	16:04
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBJ12838
Phoenix ID: BJ12851

Project ID: GZA-EVERETT SEDIMENT
Client ID: C35-1884-O

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Ammonia as Nitrogen	0.81	0.05	mg/L	1	05/08/15	WHM	E350.1

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

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May 11, 2015
Reviewed and Released by: Deb Lawrie, Project Manager

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Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

May 11, 2015

QA/QC Data

SDG I.D.: GBJ12838

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 307065 (mg/L), QC Sample No: BJ12188 (BJ12838, BJ12839, BJ12840, BJ12841, BJ12842, BJ12843, BJ12844, BJ12845)													
Ammonia as Nitrogen	BRL	0.05	14.5	14.9	2.70	104			101			85 - 115	20
QA/QC Batch 307123 (mg/L), QC Sample No: BJ13022 (BJ12846, BJ12847, BJ12848, BJ12849, BJ12850, BJ12851)													
Ammonia as Nitrogen	BRL	0.05	26.4	26.4	0	102			98.0			85 - 115	20

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference

Phyllis Shiller, Laboratory Director
May 11, 2015

Criteria: None

State: CT

Sample Criteria Exceedences Report

GBJ12838 - NEB

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units

*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

Cooler: Yes ☑ No ☐
Coolant: IPK ☑ ICE ☐ No ☐
Temp 0° C Pg of

PHOENIX
Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Contact Options:
☐ Fax:
☐ Phone:
☐ Email: KimberlyeWills@GZA.com

Customer: New England Bioassay
Address: 77 Batson Dr.
Manchester, CT 06042

Project: GZA-Everett Sediment
Report to: Kim Wills
Invoice to: NEB

Project P.O:

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: Anne Henri Date: 4-29-15

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
RW=Raw Water **SE**=Sediment **SL**=Sludge **S**=Soil **SD**=Solid **W**=Wipe
OIL=Oil **B**=Bulk **L**=Liquid

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	Analysis Request: Ammonia	Soil VOA Vials [ ] methanol [ ] H2O	GL Soil container ( ) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [1v] 250ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle
12838	C35-1871-0	Water	4-30-15	0930	✓							1			
12839	C35-1872-0	↓	↓	0930	✓							1			
12840	C35-1873-0			0935	✓							1			
12841	C35-1874-0			0935	✓							1			
12842	C35-1875-0			0935	✓							1			
12843	C35-1876-0			0940	✓							1			
12844	C35-1877-0			0940	✓							1			
12845	C35-1878-0			0940	✓							1			
12846	C35-1879-0			0940	✓							1			
12847	C35-1880-0			0945	✓							1			
12848	C35-1881-0			0945	✓							1			
12849	C35-1882-0	↓	↓	0945	✓							1			

Relinquished by:	Accepted by:	Date:	Time:
		5-6-15	15:45
		5-6-15	10:04

Comments, Special Requirements or Regulations:

Turnaround:
☐ 1 Day*
☐ 2 Days*
☐ 3 Days*
☑ Standard
☐ Other
* SURCHARGE APPLIES

RI
☐ Direct Exposure (Residential)
☐ GW
☐ Other

CT
☐ RCP Cert
☐ GW Protection
☐ SW Protection
☐ GA Mobility
☐ GB Mobility
☐ Residential DEC
☐ I/C DEC
☐ Other

MA
☐ MCP Certification
☐ GW-1
☐ GW-2
☐ GW-3
☐ S-1
☐ S-2
☐ S-3
☐ MWRA eSMART
☐ Other

State where samples were collected:

Data Format
☐ Excel
☐ PDF
☐ GIS/Key
☐ EQuIS
☐ Other

Data Package
☐ Tier II Checklist
☐ Full Data Package*
☐ Phoenix Std Report
☐ Other
* SURCHARGE APPLIES

Cooler: Yes ☑ No ☐
Coolant: IPK ☑ ICE ☐ No ☐
Temp 0° C Pg of

PHOENIX
Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Contact Options:
☐ Fax:
☐ Phone:
☐ Email: Kimberly.Wills@GZA.com

Customer: New England Biogassay
Address: 77 Batson Dr.
Manchester, CT 06042

Project: GZA - Everett Sediment
Report to: Kim Wills
Invoice to: NEB

Project P.O:

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: Anna Hennin Date: 4-29-15

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
RW=Raw Water **SE**=Sediment **SL**=Sludge **S**=Soil **SD**=Solid **W**=Wipe
OIL=Oil **B**=Bulk **L**=Liquid

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	Ammonia	Soil VOA Vials [ ] methanol [ ] H2O	GL Soil container ( ) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle
12850	C35-1883-0	Water	4-30-15	0950	✓						1				
12851	C35-1884-0	Water	4-30-15	0950	✓						1				

Relinquished by:	Accepted by:	Date:	Time:
		5-6-15	1545
		5-6-15	16:04

Comments, Special Requirements or Regulations:

Turnaround:
☐ 1 Day*
☐ 2 Days*
☐ 3 Days*
☑ Standard
☐ Other
* SURCHARGE APPLIES

RI
☐ Direct Exposure (Residential)
☐ GW
☐ Other

CT
☐ RCP Cert
☐ GW Protection
☐ SW Protection
☐ GA Mobility
☐ GB Mobility
☐ Residential DEC
☐ I/C DEC
☐ Other

MA
☐ MCP Certification
☐ GW-1
☐ GW-2
☐ GW-3
☐ S-1
☐ S-2
☐ S-3
☐ MWRA eSMART
☐ Other

State where samples were collected: _____

Data Format
☐ Excel
☐ PDF
☐ GIS/Key
☐ EQuIS
☐ Other

Data Package
☐ Tier II Checklist
☐ Full Data Package*
☐ Phoenix Std Report
☐ Other

* SURCHARGE APPLIES

PHOENIX
Environmental Laboratories, Inc.

Wednesday, June 03, 2015

Attn: Ms. Kim Wills
New England Bioassay
a Division of GZA GeoEnvironmental
77 Batson Drive
Manchester, CT 06040

Project ID: GZA WYNN SEDIMENT
Sample ID#s: BJ23413 - BJ23426

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B
NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 03, 2015

FOR: Attn: Ms. Kim Wills
New England Bioassay
a Division of GZA GeoEnvironmental
77 Batson Drive
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:	AH	05/28/15	13:00
Location Code:	NEB	Received by:	LK	05/29/15	15:36
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBJ23413
Phoenix ID: BJ23413

Project ID: GZA WYNN SEDIMENT
Client ID: C35-1871-8

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Ammonia as Nitrogen	0.23	0.05	mg/L	1	06/02/15	WHM	E350.1

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director
June 03, 2015
Reviewed and Released by: Deb Lawrie, Project Manager

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Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 03, 2015

FOR: Attn: Ms. Kim Wills
New England Bioassay
a Division of GZA GeoEnvironmental
77 Batson Drive
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:	AH	05/28/15	13:20
Location Code:	NEB	Received by:	LK	05/29/15	15:36
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBJ23413
Phoenix ID: BJ23414

Project ID: GZA WYNN SEDIMENT
Client ID: C35-1872-8

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Ammonia as Nitrogen	0.20	0.05	mg/L	1	06/02/15	WHM	E350.1

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

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June 03, 2015
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Analysis Report

June 03, 2015

FOR: Attn: Ms. Kim Wills
New England Bioassay
a Division of GZA GeoEnvironmental
77 Batson Drive
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:	AH	05/28/15	13:20
Location Code:	NEB	Received by:	LK	05/29/15	15:36
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBJ23413
Phoenix ID: BJ23415

Project ID: GZA WYNN SEDIMENT
Client ID: C35-1873-8

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Ammonia as Nitrogen	0.24	0.05	mg/L	1	06/02/15	WHM	E350.1

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

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June 03, 2015
Reviewed and Released by: Deb Lawrie, Project Manager

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 03, 2015

FOR: Attn: Ms. Kim Wills
New England Bioassay
a Division of GZA GeoEnvironmental
77 Batson Drive
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:	AH	05/28/15	13:25
Location Code:	NEB	Received by:	LK	05/29/15	15:36
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBJ23413
Phoenix ID: BJ23416

Project ID: GZA WYNN SEDIMENT
Client ID: C35-1874-8

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Ammonia as Nitrogen	0.27	0.05	mg/L	1	06/02/15	WHM	E350.1

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
June 03, 2015
Reviewed and Released by: Deb Lawrie, Project Manager

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Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 03, 2015

FOR: Attn: Ms. Kim Wills
New England Bioassay
a Division of GZA GeoEnvironmental
77 Batson Drive
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:	AH	05/28/15	13:30
Location Code:	NEB	Received by:	LK	05/29/15	15:36
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBJ23413
Phoenix ID: BJ23417

Project ID: GZA WYNN SEDIMENT
Client ID: C35-1875-8

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Ammonia as Nitrogen	0.28	0.05	mg/L	1	06/02/15	WHM	E350.1

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Analysis Report

June 03, 2015

FOR: Attn: Ms. Kim Wills
New England Bioassay
a Division of GZA GeoEnvironmental
77 Batson Drive
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:	AH	05/28/15	13:30
Location Code:	NEB	Received by:	LK	05/29/15	15:36
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBJ23413
Phoenix ID: BJ23418

Project ID: GZA WYNN SEDIMENT
Client ID: C35-1876-8

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Ammonia as Nitrogen	0.20	0.05	mg/L	1	06/02/15	WHM	E350.1

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Analysis Report

June 03, 2015

FOR: Attn: Ms. Kim Wills
New England Bioassay
a Division of GZA GeoEnvironmental
77 Batson Drive
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:	AH	05/28/15	13:30
Location Code:	NEB	Received by:	LK	05/29/15	15:36
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBJ23413
Phoenix ID: BJ23419

Project ID: GZA WYNN SEDIMENT
Client ID: C35-1877-8

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Ammonia as Nitrogen	0.20	0.05	mg/L	1	06/02/15	WHM	E350.1

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Analysis Report

June 03, 2015

FOR: Attn: Ms. Kim Wills
New England Bioassay
a Division of GZA GeoEnvironmental
77 Batson Drive
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:	AH	05/28/15	13:30
Location Code:	NEB	Received by:	LK	05/29/15	15:36
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBJ23413
Phoenix ID: BJ23420

Project ID: GZA WYNN SEDIMENT
Client ID: C35-1878-8

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Ammonia as Nitrogen	0.18	0.05	mg/L	1	06/02/15	WHM	E350.1

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Analysis Report

June 03, 2015

FOR: Attn: Ms. Kim Wills
New England Bioassay
a Division of GZA GeoEnvironmental
77 Batson Drive
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:	AH	05/28/15	13:30
Location Code:	NEB	Received by:	LK	05/29/15	15:36
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBJ23413
Phoenix ID: BJ23421

Project ID: GZA WYNN SEDIMENT
Client ID: C35-1879-8

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Ammonia as Nitrogen	0.11	0.05	mg/L	1	06/02/15	WHM	E350.1

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Analysis Report

June 03, 2015

FOR: Attn: Ms. Kim Wills
New England Bioassay
a Division of GZA GeoEnvironmental
77 Batson Drive
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:	AH	05/28/15	13:35
Location Code:	NEB	Received by:	LK	05/29/15	15:36
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBJ23413
Phoenix ID: BJ23422

Project ID: GZA WYNN SEDIMENT
Client ID: C35-1880-8

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Ammonia as Nitrogen	0.11	0.05	mg/L	1	06/02/15	WHM	E350.1

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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June 03, 2015
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Analysis Report

June 03, 2015

FOR: Attn: Ms. Kim Wills
New England Bioassay
a Division of GZA GeoEnvironmental
77 Batson Drive
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:	AH	05/28/15	13:35
Location Code:	NEB	Received by:	LK	05/29/15	15:36
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBJ23413
Phoenix ID: BJ23423

Project ID: GZA WYNN SEDIMENT
Client ID: C35-1881-8

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Ammonia as Nitrogen	0.20	0.05	mg/L	1	06/02/15	WHM	E350.1

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

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Analysis Report

June 03, 2015

FOR: Attn: Ms. Kim Wills
New England Bioassay
a Division of GZA GeoEnvironmental
77 Batson Drive
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:	AH	05/28/15	13:35
Location Code:	NEB	Received by:	LK	05/29/15	15:36
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBJ23413
Phoenix ID: BJ23424

Project ID: GZA WYNN SEDIMENT
Client ID: C35-1882-8

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Ammonia as Nitrogen	0.11	0.05	mg/L	1	06/02/15	WHM	E350.1

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

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Analysis Report

June 03, 2015

FOR: Attn: Ms. Kim Wills
New England Bioassay
a Division of GZA GeoEnvironmental
77 Batson Drive
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:	AH	05/28/15	13:35
Location Code:	NEB	Received by:	LK	05/29/15	15:36
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBJ23413
Phoenix ID: BJ23425

Project ID: GZA WYNN SEDIMENT
Client ID: C35-1883-8

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Ammonia as Nitrogen	0.09	0.05	mg/L	1	06/02/15	WHM	E350.1

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

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Analysis Report

June 03, 2015

FOR: Attn: Ms. Kim Wills
New England Bioassay
a Division of GZA GeoEnvironmental
77 Batson Drive
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:	AH	05/28/15	13:40
Location Code:	NEB	Received by:	LK	05/29/15	15:36
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBJ23413
Phoenix ID: BJ23426

Project ID: GZA WYNN SEDIMENT
Client ID: C35-1884-8

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Ammonia as Nitrogen	0.10	0.05	mg/L	1	06/02/15	WHM	E350.1

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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June 03, 2015
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Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

June 03, 2015

QA/QC Data

SDG I.D.: GBJ23413

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 309394 (mg/L), QC Sample No: BJ23619 (BJ23413, BJ23414, BJ23415, BJ23416, BJ23417, BJ23418, BJ23419, BJ23420, BJ23421, BJ23422, BJ23423, BJ23424, BJ23425, BJ23426)													
Ammonia as Nitrogen	BRL	0.05	17	14.3	17.3	111			99.0			85 - 115	20

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference

Phyllis Shiller, Laboratory Director
June 03, 2015

Sample Criteria Exceedences Report

GBJ23413 - NEB

Criteria: None

State: CT

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units

*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

Cooler: Yes ☐ No ☐
Coolant: IPK ☑ ICE ☐ No ☐
Temp 5 °C Pg of

PHOENIX
Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Contact Options:
☐ Fax:
☐ Phone:
☑ Email: Kimberly.wills@GZA.com

Customer: New England Bioassay
Address: 77 Batson Dr.
Manchester, CT 06042

Project: GZA/Wynn Sediment
Report to: Kim Wills
Invoice to: NEB

Project P.O:

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: [signature] Date: 5-28-15

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
RW=Raw Water **SE**=Sediment **SL**=Sludge **S**=Soil **SD**=Solid **W**=Wipe
OIL=Oil **B**=Bulk **L**=Liquid

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	Ammonia	Soil VOA Vials [ ] methanol [ ] H2O	GL Soil container ( ) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [✓] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle
23413	C35 - 1871-8	Water	5-28-15	1300	✓						1				
23414	C35 - 1872-8	↓	↓	1320	✓						1				
23415	C35 - 1873-8			1320	✓						1				
23416	C35 - 1874-8			1325	✓						1				
23417	C35 - 1875-8			1330	✓						1				
23418	C35 - 1876-8			1330	✓						1				
23419	C35 - 1877-8			1330	✓						1				
23420	C35 - 1878-8			1330	✓						1				
23421	C35 - 1879-8			1330	✓						1				
23422	C35 - 1880-8			1335	✓						1				
23423	C35 - 1881-8			1335	✓						1				
23424	C35 - 1882-8	↓	↓	1335	✓						1				

Relinquished by:	Accepted by:	Date:	Time:
[signature]	[signature]	5-29-15	1505
[signature]	Monica Pelch	5-29-15	15:36

Comments, Special Requirements or Regulations:

Turnaround:
☐ 1 Day*
☐ 2 Days*
☐ 3 Days*
☑ Standard
☐ Other
* SURCHARGE APPLIES

RI
☐ Direct Exposure (Residential)
☐ GW
☐ Other

CT
☐ RCP Cert
☐ GW Protection
☐ SW Protection
☐ GA Mobility
☐ GB Mobility
☐ Residential DEC
☐ I/C DEC
☐ Other

MA
☐ MCP Certification
☐ GW-1
☐ GW-2
☐ GW-3
☐ S-1
☐ S-2
☐ S-3
☐ MWRA eSMART
☐ Other

State where samples were collected: _____

Data Format
☐ Excel
☐ PDF
☐ GIS/Key
☐ EQuIS
☐ Other

Data Package
☐ Tier II Checklist
☐ Full Data Package*
☐ Phoenix Std Report
☐ Other

* SURCHARGE APPLIES

Cooler: Yes [✓] No [ ]
Coolant: IPK [✓] ICE [ ] No [ ]
Temp 5 °C Pg of

CHAIN OF CUSTODY RECORD

PHOENIX Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Contact Options:
[ ] Fax:
[ ] Phone:
[✓] Email: Kimberly.Wills@GZA.com

Customer: New England Bioassay
Address: 77 Batson Dr.
Manchester, CT 06042

Project: GZA / Wynn Sediment
Report to: Kim Wills
Invoice to: NEB

Project P.O:

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: [signature] Date: 5-28-15

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
RW=Raw Water **SE**=Sediment **SL**=Sludge **S**=Soil **SD**=Solid **W**=Wipe
OIL=Oil **B**=Bulk **L**=Liquid

Analysis Request: Ammonia

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	Soil VOA Vials [ ] methanol [ ] H2O	GL Soil container ( ) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [✓] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle
23425	C35 - 1883-8	Water	5-28-15	1335						1				
23426	C35 - 1884-8	Water	5-28-15	1340						1				

Relinquished by:	Accepted by:	Date:	Time:
[signature]	[signature]	5-29-15	1505
[signature]	[signature]	5-29-15	15:36

Comments, Special Requirements or Regulations:

Turnaround:
[ ] 1 Day*
[ ] 2 Days*
[ ] 3 Days*
[✓] Standard
[ ] Other
* SURCHARGE APPLIES

RI
[ ] Direct Exposure (Residential)
[ ] GW
[ ] Other

CT
[ ] RCP Cert
[ ] GW Protection
[ ] SW Protection
[ ] GA Mobility
[ ] GB Mobility
[ ] Residential DEC
[ ] I/C DEC
[ ] Other

MA
[ ] MCP Certification
[ ] GW-1
[ ] GW-2
[ ] GW-3
[ ] S-1
[ ] S-2
[ ] S-3
[ ] MWRA eSMART
[ ] Other

State where samples were collected: _____

Data Format
[ ] Excel
[ ] PDF
[ ] GIS/Key
[ ] EQuIS
[ ] Other

Data Package
[ ] Tier II Checklist
[ ] Full Data Package*
[ ] Phoenix Std Report
[ ] Other
* SURCHARGE APPLIES

Sterling Analytical, Inc.
15 Agawam Avenue
West Springfield, MA 01089
Phone (413) 214-6541 Fax (413) 214-6842
email-madhu@sterlinganalytical.com

Visit our website: www.sterlinganalytical.com

Mass Certification - MA-00071
Conn Certification - PH-0520

Report Date May 14, 2015

Customer	Contact	Laboratory Supervisor	eMail
New England Bioassay	K. Wills	Madhu Shah	madhu@sterlinganalytical.com

Sample Description
Analysis of Solid Samples

Samples Analyzed

Enclosed are Report No(s): 50158 to 50171

Reported on dry basis.

Thank you for your business

madhu shah

Madhu Shah, Laboratory Supervisor

5/14/2015

Date

ALL the information contained in this report has been reviewed for accuracy and checked against all quality control requirements outlined in each applicable method.
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Sample	Description	Source	Taken/Time	Received
50158	C35-1871	New England Bioassay	4/29/15	5/6/15

Parameter	Results		MDL	Method	Analyzed/Time	Tech
Total Organic Carbon	2,684	mg/kg	100.00	SW846 9060 Mod(1)	05/08/15	sjr

Sample	Description	Source	Taken/Time	Received
50159	C35-1872	New England Bioassay	4/29/15	5/6/15

Parameter	Results		MDL	Method	Analyzed/Time	Tech
Total Organic Carbon	4,016	mg/kg	100.00	SW846 9060 Mod(1)	05/08/15	sjr

Sample	Description	Source	Taken/Time	Received
50160	C35-1873	New England Bioassay	4/29/15	5/6/15

Parameter	Results		MDL	Method	Analyzed/Time	Tech
Total Organic Carbon	76,630	mg/kg	100.00	SW846 9060 Mod(1)	05/08/15	sjr

Sample	Description	Source	Taken/Time	Received
50161	C35-1874	New England Bioassay	4/29/15	5/6/15

Parameter	Results		MDL	Method	Analyzed/Time	Tech
Total Organic Carbon	72,860	mg/kg	100.00	SW846 9060 Mod(1)	05/08/15	sjr

Sample	Description	Source	Taken/Time	Received
50162	C35-1875	New England Bioassay	4/29/15	5/6/15

Parameter	Results		MDL	Method	Analyzed/Time	Tech
Total Organic Carbon	57,480	mg/kg	100.00	SW846 9060 Mod(1)	05/08/15	sjr

Sample	Description	Source	Taken/Time	Received
50163	C35-1876	New England Bioassay	4/29/15	5/6/15

Parameter	Results		MDL	Method	Analyzed/Time	Tech
Total Organic Carbon	55,480	mg/kg	100.00	SW846 9060 Mod(1)	05/08/15	sjr

Sample	Description	Source	Taken/Time	Received
50164	C35-1877	New England Bioassay	4/29/15	5/6/15

Parameter	Results		MDL	Method	Analyzed/Time	Tech
Total Organic Carbon	59,800	mg/kg	100.00	SW846 9060 Mod(1)	05/08/15	sjr

Sample	Description	Source	Taken/Time	Received
50165	C35-1878	New England Bioassay	4/29/15	5/6/15

Parameter	Results		MDL	Method	Analyzed/Time	Tech
Total Organic Carbon	67,070	mg/kg	100.00	SW846 9060 Mod(1)	05/08/15	sjr

Sample	Description	Source	Taken/Time	Received
50166	C35-1879	New England Bioassay	4/29/15	5/6/15

Parameter	Results		MDL	Method	Analyzed/Time	Tech
Total Organic Carbon	39,090	mg/kg	100.00	SW846 9060 Mod(1)	05/08/15	sjr

Sample	Description	Source	Taken/Time	Received
50167	C35-1880	New England Bioassay	4/29/15	5/6/15

Parameter	Results		MDL	Method	Analyzed/Time	Tech
Total Organic Carbon	46,330	mg/kg	100.00	SW846 9060 Mod(1)	05/11/15	sjr

Sample	Description	Source	Taken/Time	Received
50168	C35-1881	New England Bioassay	4/29/15	5/6/15

Parameter	Results		MDL	Method	Analyzed/Time	Tech
Total Organic Carbon	42,940	mg/kg	100.00	SW846 9060 Mod(1)	05/11/15	sjr

Sample	Description	Source	Taken/Time	Received
50169	C35-1882	New England Bioassay	4/29/15	5/6/15

Parameter	Results		MDL	Method	Analyzed/Time	Tech
Total Organic Carbon	55,880	mg/kg	100.00	SW846 9060 Mod(1)	05/11/15	sjr

Sample	Description	Source	Taken/Time	Received
50170	C35-1883	New England Bioassay	4/29/15	5/6/15

Parameter	Results		MDL	Method	Analyzed/Time	Tech
Total Organic Carbon	33,040	mg/kg	100.00	SW846 9060 Mod(1)	05/11/15	sjr

Sample	Description	Source	Taken/Time	Received
50171	C35-1884	New England Bioassay	4/29/15	5/6/15

Parameter	Results		MDL	Method	Analyzed/Time	Tech
Total Organic Carbon	48,350	mg/kg	100.00	SW846 9060 Mod(1)	05/11/15	sjr

CHAIN OF CUSTODY

STERLING ANALYTICAL

RESULTS NEEDED BY DATE: 5-28-15

Sterling Analytical, 15 Agawam Avenue, West Springfield, MA 01089
Phone: (413) 214-6541 • Fax: (413) 214-6842

Email: madhu@sterlinganalytical.com

----- SEND TEST RESULTS TO: -----

NAME (PLEASE PRINT): Kim Wills | PHONE NO.: 860-643-9560
COMPANY: New England Biossay
ADDRESS: 77 Batson Dr, Manchester, CT 06042

SOURCE: GZA - Everett Wynn Casino
SAMPLER'S NAME: Anne Henrici | SIGNATURE: Anne Henrici | DATE: 4-29-15

DESCRIPTION	SAMPLE MATRIX	DATE	TIME	SAMPLE TYPE: GRAB	SAMPLE TYPE: COMPOSITE	NO. OF CONTAINERS	ANALYSIS REQUIRED: Total Organ. Carbon	PRESERVATIVES: HCL	PRESERVATIVES: HNO_3	PRESERVATIVES: H_2SO_4	PRESERVATIVES: NaOH	PRESERVATIVES: NONE	COMMENTS
C35-1871	Sediment	4-29-15	1650	✓		1	✓					✓	
C35-1872	"	"	1700	✓		1	✓					✓	
C35-1873			1500	✓		1	✓					✓	
C35-1874			1505	✓		1	✓					✓	
C35-1875			1515	✓		1	✓					✓	
C35-1876			1530	✓		1	✓					✓	
C35-1877			1530	✓		1	✓					✓	
C35-1878			1550	✓		1	✓					✓	
C35-1879			1600	✓		1	✓					✓	
C35-1880			1630	✓		1	✓					✓	
C35-1881	↓	↓	1700	✓		1	✓					✓	

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Anne Coe	5-6-15	0855		5/6/15	

ORIGINAL - RETAINED BY LAB

YELLOW - RETURNED TO REQUESTER BY LAB

CHAIN OF CUSTODY

STERLING ANALYTICAL

RESULTS NEEDED BY DATE: 5-28-15

Sterling Analytical, 15 Agawam Avenue, West Springfield, MA 01089
Phone: (413) 214-6541 • Fax: (413) 214-6842

Email: madhu@sterlinganalytical.com

----- SEND TEST RESULTS TO: -----

NAME (PLEASE PRINT)	PHONE NO.
Kim Wills	860 643-9560
COMPANY: New England Biogssay	
ADDRESS: 77 Batson Dr., Manchester, CT, 06042	

SOURCE: GZA - Everett Wynn Casino

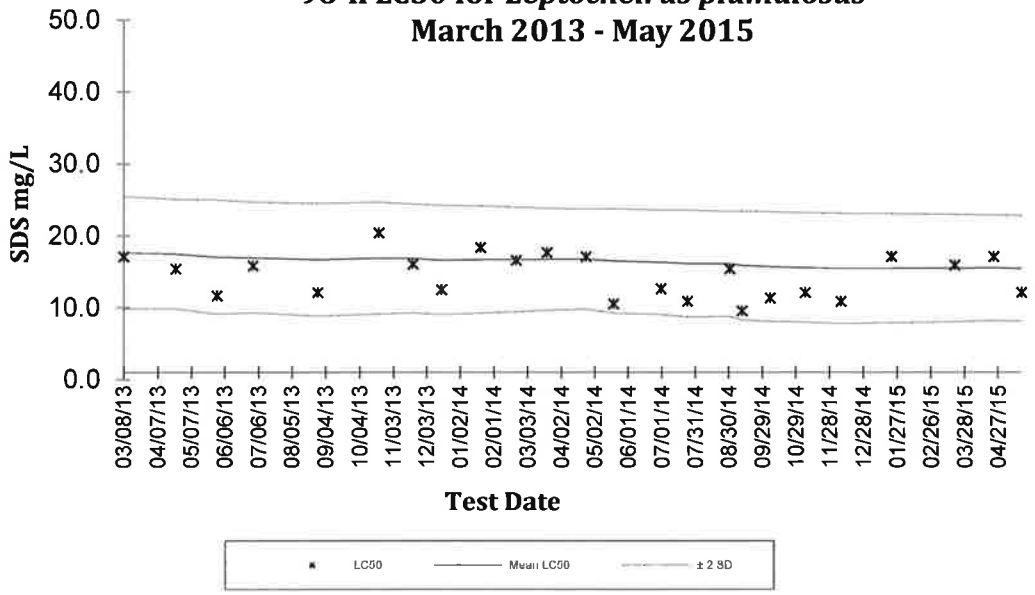
SAMPLER'S NAME	SIGNATURE	DATE
Anne Henrici	Anne Henrici	4-29-15

DESCRIPTION	SAMPLE MATRIX	DATE	TIME	SAMPLE TYPE: GRAB	SAMPLE TYPE: COMPOSITE	NO. OF CONTAINERS	ANALYSIS REQUIRED: Total org. Carbon	PRESERVATIVES: HCL	PRESERVATIVES: HNO_3	PRESERVATIVES: H_2SO_4	PRESERVATIVES: NaOH	PRESERVATIVES: NONE	COMMENTS
C35-1882	Sediment	4-29-15	1725	✓		1	✓					✓	
C35-1883	↓	↓	1715	✓		1	✓					✓	
C35-1884	↓	↓	1715	✓		1	✓					✓	

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Jen a Col	5-6-15	0855		5/6/15	
RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME

ORIGINAL - RETAINED BY LAB ***YELLOW*** - RETURNED TO REQUESTER BY LAB

New England Bioassay
Sodium Dodecyl Sulfate(SDS):
96-h LC50 for *Leptocheirus plumulosus*
March 2013 - May 2015



Test ID	Date	LC50	Mean LC50	STD	2STD	2STD	CV%
13-686	3/8/2013	17.1	17.6	3.9	9.8	25.5	22.2
13-880	4/23/2013	15.4	17.5	3.8	9.9	25.1	21.8
13-1121	5/30/2013	11.7	17.1	4.0	9.1	25.0	23.3
13-1376	7/1/2013	15.9	17.0	3.8	9.3	24.7	22.6
13-1977	8/28/2013	12.1	16.7	3.9	8.9	24.5	23.5
13-2191	10/21/2013	20.4	16.9	3.9	9.1	24.7	23.0
13-2410	11/21/2013	16.1	16.8	3.8	9.3	24.4	22.4
13-2552	12/16/2013	12.5	16.6	3.8	9.0	24.2	22.9
14-125	1/20/2014	18.3	16.7	3.7	9.3	24.2	22.3
14-220	2/21/2014	16.6	16.7	3.6	9.4	24.0	21.7
14-379	3/20/2014	17.7	16.7	3.5	9.6	23.8	21.2
14-707	4/24/2014	17.1	16.8	3.5	9.8	23.7	20.7
14-802	5/19/2014	10.5	16.5	3.6	9.2	23.7	22.0
14-1005	6/30/2014	12.6	16.3	3.6	9.1	23.6	22.2
14-1169	7/24/2014	10.9	16.1	3.7	8.7	23.6	23.0
14-1394	8/31/2014	15.4	16.1	3.6	8.8	23.4	22.6
14-1434	9/11/2014	9.5	15.9	3.8	8.3	23.4	23.9
14-1658	10/6/2014	11.3	15.7	3.8	8.1	23.3	24.3
14-1928	11/6/2014	12.1	15.6	3.8	8.0	23.2	24.4
14-2030	12/8/2014	10.9	15.4	3.8	7.8	23.1	24.8
15-12	1/22/2015	17.1	15.5	3.8	7.9	23.1	24.4
15-332	3/19/2015	15.9	15.5	3.7	8.1	23.0	24.0
15-542	4/23/2015	17.1	15.5	3.7	8.2	22.9	23.7
15-621	5/18/2015	12.1	15.5	3.7	8.1	22.8	23.8

New England Bioassay
A division of GZA GeoEnvironmental, Inc.
77 Batson Drive Manchester, CT 06042
Phone: 860-643-9560 Fax: 860-646-7169

Chain of Custody

Company Name: GZA GeoEnvironmental
Project Name/#: 171521.13 Task 1
Invoice To: David E. Leon PO#:
Samples Collected By (Print): Alice Blaney, Dan Scanlon

Report To: Tim Briggs
Address: GZA Norwood
Phone: (781) 278-5824 Fax: ( )
Email: timothy.briggs@gza.com

#	SAMPLE IDENTIFICATIONS	Date Sampled	Time Sampled	Composite	Grab	Chemical Analysis - Attach Permit Specifications
1	GZ-225 C35-1884	3-27-15	8:49		X	
351873 2	LC-102 (Reference)	3-26-15	10:30		X	
351874 3	LC-105 (Reference)	3-26-15	11:45		X	
351875 4	LC-112 (Reference)	3-27-15	11:16		X	

If you are uncertain of the following test parameters, please attach a copy of the appropriate pages from your permit

ANALYSIS	1	2	3	4
SAMPLE TYPE				
Stormwater (if yes, proceed to relinquish section)				
POTW Effluent				
Groundwater				
Non-Contact Cooling Water				
Industrial Effluent				
Other _____				
PROTOCOL TYPE				
Definitive LC50				
Pass/Fail (Screening or NOAEL)				
Chronic				
INVERTEBRATE TYPE & AGE				
Leptocheirus plumulosus 28 Day Survival/Biomass	X N	X	X	X
Ceriodaphnia dubia (<24 hrs)				

ANALYSIS	1	2	3	4
VERTEBRATE (FISH) TYPE & AGE (if applicable)				
Pimephales promelas (_____ hours/days)				
Cyprinodon variegatus (_____ hours/days)				
Menidia beryllina (_____ hours/days)				
VERTEBRATE (FISH) TEST DURATION (if applicable)				
24 hours				
48 hours				
96 hours				
7 days				
TEMPERATURE (if specified)				
20°C				
25°C				
MISCELLANEOUS (if applicable)				
SALINITY (if saltwater testing) _____ ppt				
Dilution water HARDNESS (_____ mg/L as $CaCO_3$)				

Relinquished by: [signature]	Date: 4-17-15 Time: 17:30	Accepted by: Custody Seal	Date: 4-17-15 Time: 17:30
Relinquished by: [signature]	Date: 4-21-15 Time: 10:02	Accepted by: [signature]	Date: 4-21-15 Time: 10:02
Relinquished by: [signature]	Date: 4-21-15 Time: 1220	Accepted by: [signature]	Date: 4.21.15 Time: 1220

REMARKS/NOTES:

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Chain of Custody

Company Name: GZA GeoEnvironmental
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Report To: Tim Briggs
Address: GZA Norwood
Phone: (781) 278-5824 Fax: ( )
Email: timothy.briggs@gza.com

#	SAMPLE IDENTIFICATIONS	Date Sampled	Time Sampled	Composite	Grab	Chemical Analysis - Attach Permit Specifications
1	GZ-203 C35-1876	3/24/15	12:30		X	
2	GZ-207 C35-1877	3-25-15	10:45		X	
3	GZ-209 C35-1878	3-25-15	9:30		X	
4	GZ-213 C35-1879	3-25-15	13:52		Y	

If you are uncertain of the following test parameters, please attach a copy of the appropriate pages from your permit

ANALYSIS	1	2	3	4
SAMPLE TYPE				
Stormwater (if yes, proceed to relinquish section)				
POTW Effluent				
Groundwater				
Non-Contact Cooling Water				
Industrial Effluent				
Other _____				
PROTOCOL TYPE				
Definitive LC50				
Pass/Fail (Screening or NOAEL)				
Chronic				
INVERTEBRATE TYPE & AGE				
Leptocheirus plumulosus 28 Day Survival/Biomass	X	X	X	X
Ceriodaphnia dubia (<24 hrs)				

ANALYSIS	1	2	3	4
VERTEBRATE (FISH) TYPE & AGE (if applicable)				
Pimephales promelas (_____ hours/days)				
Cyprinodon variegatus (_____ hours/days)				
Menidia beryllina (_____ hours/days)				
VERTEBRATE (FISH) TEST DURATION (if applicable)				
24 hours				
48 hours				
96 hours				
7 days				
TEMPERATURE (if specified)				
20°C				
25°C				
MISCELLANEOUS (if applicable)				
SALINITY (if saltwater testing) _____ ppt				
Dilution water HARDNESS (_____ mg/L as $CaCO_3$)				

Relinquished by:	Date: 4-17-15 Time: 17:30	Accepted by: Custody Seal	Date: 4-17-15 Time: 17:30
Relinquished by:	Date: 4-21-15 Time: 10:02	Accepted by:	Date: 4-21-15 Time: 1002
Relinquished by:	Date: 4-21-15 Time: 1220	Accepted by:	Date: 4-21-15 Time: 1220

REMARKS/NOTES:

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Address: GZA Norwood
Phone: (781) 278-5824 Fax: ( )
Email: tim.briggs@gza.com

#	SAMPLE IDENTIFICATIONS	Date Sampled	Time Sampled	Composite	Grab	Chemical Analysis - Attach Permit Specifications
1	GZ-214 C35 1880	3-30-15	10:10		X	
2	GZ-217 C35 1881	3-24-15	16:10		X	
3	GZ-223 C35 1882	3-30-15	9:18		X	
4	GZ-224 C35 1883	3-30-15	9:45		X	

If you are uncertain of the following test parameters, please attach a copy of the appropriate pages from your permit

ANALYSIS	1	2	3	4
SAMPLE TYPE				
Stormwater (if yes, proceed to relinquish section)				
POTW Effluent				
Groundwater				
Non-Contact Cooling Water				
Industrial Effluent				
Other _____				
PROTOCOL TYPE				
Definitive LC50				
Pass/Fail (Screening or NOAEL)				
Chronic				
INVERTEBRATE TYPE & AGE				
Leptocheirus plumulosus 28 Day Survival/Biomass	X	X	X	X
Ceriodaphnia dubia (<24 hrs)				

ANALYSIS	1	2	3	4
VERTEBRATE (FISH) TYPE & AGE (if applicable)				
Pimephales promelas (_____ hours/days)				
Cyprinodon variegatus (_____ hours/days)				
Menidia beryllina (_____ hours/days)				
VERTEBRATE (FISH) TEST DURATION (if applicable)				
24 hours				
48 hours				
96 hours				
7 days				
TEMPERATURE (if specified)				
20°C				
25°C				
MISCELLANEOUS (if applicable)				
SALINITY (if saltwater testing) _____ ppt				
Dilution water HARDNESS (_____ mg/L as $CaCO_3$)				

Relinquished by:	Date: 4-17-15 Time: 17:30	Accepted by: Custody Seal	Date: 4-17-15 Time: 17:30
Relinquished by:	Date: 4-21-15 Time: 10:02	Accepted by:	Date: 4-21-15 Time: 1002
Relinquished by:	Date: 4-21-15 Time: 1220	Accepted by:	Date: 4-21-15 Time: 1220

REMARKS/NOTES:

APPENDIX H

SOIL PRECHARACTERIZATION DATA

Table 1
Soil Precharacterization Data

Wynn Resort Casino
Everett, Massachusetts

Analyte	Precharacterization Cell	A01	A01	A01	A01	A01	A02	A02	A02	A02	A02	A02	A02	A02	A02	A03	A03	A03	A03	A03	A03	A03	A03	A03	A04
	Sample ID	A01S01S02	GZ007S01S02	GZ007S03S06	GZ007S07S09	GZ007S10S12	A02S01S02A	A02S02BS03	A02S04	A02S05	A02S06	A02S07	A02S08	A02S09	A02S10S11	A03S01S02A	A03S02BS04A	A03S04B	A03S05	A03S06	A03S07	A03S08	A03S09	A03S10S11	A04S01S02A
	Laboratory Work Order	1503097	1410725	1410725	1410725	1410725	1501166	1501166	1501166	1501193	1501193	1501193	1501193	1501193	1501193	1503023	1503023	1503023	1503023	1503023	1503023	1503023	1503023	1503023	1503023
	Soil Distinction	Fill	Fill	Fill	Natural	Natural	Fill	Fill	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Fill	Fill	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Fill
	Soil Type				Clay	Clay			Sand/Gravel	Clay	Clay	Clay	Clay	Clay	Clay			Organics	Clay	Clay	Clay	Clay	Clay	Clay	
	Depth Interval (ft.)	3 - 6	0 - 5	5 - 13	19 - 31	34 - 46	0 - 3.33	3.33 - 6	6 - 8	9 - 11	14 - 16	19 - 21	24 - 26	29 - 31	34 - 38	0 - 3.3	3.3 - 6.6	7 - 8	9 - 11	14 - 16	19 - 21	24 - 26	29 - 31	34 - 38	0 - 3.3
	Sampling Date	3/5/2015	10/29/2014	10/29/2014	10/29/2014	10/29/2014	1/9/2015	1/9/2015	1/9/2015	1/12/2015	1/12/2015	1/12/2015	1/12/2015	1/12/2015	1/12/2015	3/2/2015	3/2/2015	3/2/2015	3/2/2015	3/2/2015	3/2/2015	3/2/2015	3/2/2015	3/2/2015	3/2/2015	3/2/2015
Preliminary Disposal Facility Category		Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type B-1	Hazardous Material Type A	MCP Restricted	MCP Restricted	MCP Restricted	MCP Restricted	MCP Restricted	Uncontaminated	MCP Regulated Type A
RCRA 8 Metals	**Units**																								
Arsenic	mg/kg	28.4	7.29	15.8	12.9	11.5	23.5	39.3	<12.4	20.2	<12.9	<13.7	<14.6	<14.9	<14.5	12.7	16.5	72.8	<8.29	8.04	8.48	12	<7.14	<7.43	10.7
Barium	mg/kg	44.5	23.5	48.1	73.4	68.7	548	189	<12.4	141	117	109	124	114	92.7	39.6	60.8	21.3	83.1	94	93.5	103	59.8	21.7	56.1
Cadmium	mg/kg	<1.51	<0.45	4.31	<0.66	<0.54	2.82	24.3	<2.48	<2.49	<2.57	<2.73	<2.92	<2.97	<2.90	<1.31	<1.60	<1.30	<1.66	<1.35	<1.63	<1.76	<1.43	<1.49	<1.34
Chromium	mg/kg	11.7	9.01	24.6	39.9	34.4	7.49	18.2	<4.97	72.7	59.6	53.3	64.6	53.5	46.2	8.14	<3.21	<2.61	45.2	47.2	45.7	52.8	26.8	13.7	16.4
Lead	mg/kg	129	243	53.3	12.7	11.1	379	574	35.9	<24.9	<25.7	<27.3	<29.2	<29.7	<29.0	277	1080	27.8	<16.6	14.7	<16.3	<17.6	<14.3	<14.9	247
Selenium	mg/kg	<7.55	<2.23	<3.20	<3.31	<2.68	<9.67	<11.4	<19.9	<9.94	<10.3	<10.9	<11.7	<11.9	<11.6	<6.54	<8.02	<6.51	<8.29	<6.77	<8.13	<8.79	<7.14	<7.43	<6.68
Silver	mg/kg	<1.51	0.83	<0.64	<0.66	<0.54	3.41	3.71	<2.48	<2.49	<2.57	<2.73	<2.92	<2.97	<2.90	<1.31	<1.60	<1.30	<1.66	<1.35	<1.63	<1.76	<1.43	<1.49	<1.34
Mercury	mg/kg	0.166	0.361	0.24	<0.042	<0.041	0.5	0.658	<0.032	<0.040	<0.040	<0.035	<0.043	<0.040	<0.045	0.757	0.221	0.04	<0.039	<0.041	<0.041	<0.037	<0.038	<0.036	0.24
Metals by Toxicity Characteristic Leaching Procedure (TCLP)																									
Arsenic	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead	mg/L	<0.500	3.97	--	--	--	0.601	2.66	--	--	--	--	--	--	--	2.01	3.07	--	--	--	--	--	--	--	<0.500
Selenium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Herbicides																									
2,4,5-T	mg/kg	<0.48	--	<0.072	<0.061	<0.059	<0.049	<0.055	--	--	--	--	--	--	--	<0.22	<0.30	--	--	--	--	--	--	--	<0.26
2,4-D	mg/kg	<2.4	--	<0.072	<0.061	<0.059	<0.049	<0.055	--	--	--	--	--	--	--	<1.1	<1.5	--	--	--	--	--	--	--	<1.3
2,4-DB	mg/kg	<0.18	--	<0.072	<0.061	<0.059	<0.049	<0.055	--	--	--	--	--	--	--	<0.083	<0.11	--	--	--	--	--	--	--	<0.096
Dalapon	mg/kg	<14	--	<0.86	<0.73	<0.71	<0.59	<0.66	--	--	--	--	--	--	--	<6.7	<9.0	--	--	--	--	--	--	--	<7.7
Dicamba	mg/kg	<0.72	--	<0.072	<0.061	<0.059	<0.049	<0.055	--	--	--	--	--	--	--	<0.33	<0.45	--	--	--	--	--	--	--	<0.39
Dichlorprop	mg/kg	<1.5	--	<0.072	<0.061	<0.059	<0.049	<0.055	--	--	--	--	--	--	--	<0.72	<0.98	--	--	--	--	--	--	--	<0.83
Dinoseb	mg/kg	<2.4	--	<0.43	<0.37	<0.35	<0.30	<0.33	--	--	--	--	--	--	--	<1.1	<1.5	--	--	--	--	--	--	--	<1.3
MCPA	mg/kg	<600	--	<17	<15	<14	<12	<13	--	--	--	--	--	--	--	<280	<380	--	--	--	--	--	--	--	<320
MCPP	mg/kg	<600	--	<17	<15	<14	<12	<13	--	--	--	--	--	--	--	<280	<380	--	--	--	--	--	--	--	<320
Silvex (2,4,5-TP)	mg/kg	<0.48	--	<0.072	<0.061	<0.059	<0.049	<0.055	--	--	--	--	--	--	--	<0.22	<0.30	--	--	--	--	--	--	--	<0.26
Pesticides																									
4,4'-DDD	mg/kg	<0.0040	--	<0.0024	<0.0022	<0.0022	<0.0093	<0.019	--	--	--	--	--	--	--	<0.0019	<0.0026	--	--	--	--	--	--	--	<0.0022
4,4'-DDE	mg/kg	<0.0040	--	<0.0024	<0.0022	<0.0022	<0.0093	<0.019	--	--	--	--	--	--	--	<0.0019	<0.0026	--	--	--	--	--	--	--	<0.0022
4,4'-DDT	mg/kg	<0.0040	--	<0.0024	<0.0022	<0.0022	<0.0093	<0.019	--	--	--	--	--	--	--	<0.0019	<0.0026	--	--	--	--	--	--	--	<0.0022
Aldrin	mg/kg	<0.0040	--	<0.0024	<0.0022	<0.0022	<0.0093	<0.019	--	--	--	--	--	--	--	<0.0019	<0.0026	--	--	--	--	--	--	--	<0.0022
alpha-BHC	mg/kg	<0.0040	--	<0.0024	<0.0022	<0.0022	<0.0093	<0.019	--	--	--	--	--	--	--	<0.0019	<0.0026	--	--	--	--	--	--	--	<0.0022
beta-BHC	mg/kg	<0.0040	--	<0.0024	<0.0022	<0.0022	<0.0093	<0.019	--	--	--	--	--	--	--	<0.0019	<0.0026	--	--	--	--	--	--	--	<0.0022
Chlordane (technical)	mg/kg	<0.040	--	<0.024	<0.022	<0.022	<0.093	<0.19	--	--	--	--	--	--	--	<0.019	<0.026	--	--	--	--	--	--	--	<0.022
delta-BHC	mg/kg	<0.0040	--	<0.0024	<0.0022	<0.0022	<0.0093	<0.019	--	--	--	--	--	--	--	<0.0019	<0.0026	--	--	--	--	--	--	--	<0.0022
Dieldrin	mg/kg	<0.0040	--	<0.0024	<0.0022	<0.0022	<0.0093	<0.019	--	--	--	--	--	--	--	<0.0019	<0.0026	--	--	--	--	--	--	--	<0.0022
Endosulfan I	mg/kg	<0.0040	--	<0.0024	<0.0022	<0.0022	<0.0093	<0.019	--	--	--	--	--	--	--	<0.0019	<0.0026	--	--	--	--	--	--	--	<0.0022
Endosulfan II	mg/kg	<0.0040	--	<0.0024	<0.0022	<0.0022	<0.0093	<0.019	--	--	--	--	--	--	--	<0.0019	<0.0026	--	--	--	--	--	--	--	<0.0022
Endosulfan sulfate	mg/kg	<0.0040	--	<0.0024	<0.0022	<0.0022	<0.0093	<0.019	--	--	--	--	--	--	--	<0.0019	<0.0026	--	--	--	--	--	--	--	<0.0022
Endrin	mg/kg	<0.0040	--	<0.0024	<0.0022	<0.0022	<0.0093	<0.019	--	--	--	--	--	--	--	<0.0019	<0.0026	--	--	--	--	--	--	--	<0.0022
Endrin ketone	mg/kg	<0.0040	--	<0.0024	<0.0022	<0.0022	<0.0093	<0.019	--	--	--	--	--	--	--	<0.0019	<0.0026	--	--	--	--	--	--	--	<0.0022
gamma-BHC (Lindane)	mg/kg	<0.0040	--	<0.0024	<0.0022	<0.0022	<0.0093	<0.019	--	--	--	--	--	--	--	<0.0019	<0.0026	--	--	--	--	--	--	--	<0.0022
Heptachlor	mg/kg	<0.0040	--	<0.0024	<0.0022	<0.0022	<0.0093	<0.019	--	--	--	--	--	--	--	<0.0019	<0.0026	--	--	--	--	--	--	--	<0.0022
Heptachlor epoxide	mg/kg	<0.0040	--	<0.0024	<0.0022	<0.0022	<0.0093	<0.019	--	--	--	--	--	--	--	<0.0019	<0.0026	--	--	--	--	--	--	--	<0.0022
Hexachlorobenzene	mg/kg	<0.0040	--	<0.0024	<0.0022	<0.0022	<0.0093	<0.019	--	--	--	--	--	--	--	<0.0019	<0.0026	--	--	--	--	--	--	--	0.0045
Methoxychlor	mg/kg	<0.0040	--	<0.0024	<0.0022	<0.0022	<0.0093	<0.019	--	--	--	--	--	--	--	<0.0019	<0.0026	--	--	--	--	--	--	--	<0.0022
Polychlorinated Biphenyls																									
Aroclor 1016	mg/kg	<0.142	<0.218	<0.252	<0.269	<0.238	<0.136	<0.151	<0.134	<0.158	<0.173	<0.164	<0.165	<0.166	<0.166	<0.142	<0.157	<0.152	<0.154	<0.158	<0.167	<0.167	<0.148	<0.136	<0.138
Aroclor 1221	mg/kg	<0.142	<0.218	<0.252	<0.269	<0.238	<0.136	<0.151	<0.134	<0.158	<0.173	<0.164	<0.165	<0.166	<0.166	<0.142	<0.157	<0.152	<0.154	<0.158	<0.167	<0.167	<0.148	<0.136	<0.138
Aroclor 1232	mg/kg	<0.142	<0.218	<0.252	<0.269	<0.238	<0.136	<0.151	<0.134	<0.158	<0.173	<0.164	<0.165	<0.166	<0.166	<0.142	<0.157	<0.152	<0.154	<0.158	<0.167	<0.167	<0.148	<0.136	<0.138
Aroclor 1242	mg/kg	<0.142	<0.218	<0.252	<0.269	<0.238	<0.136	<0.151	<0.134	<0.158	<0.173	<0.164	<0.165	<0.166	<0.166	<0.142	<0.157	<0.152	<0.154	<0.158	<0.167	<0.167	<0.148	<0.136	<0.138
Aroclor 1248	mg/kg	<0.142	<0.218	<0.252	<0.269	<0.238	<0.136	<0.151	<0.134	<0.158	<0.173	<0.164	<0.165	<0.166	<0.166	<0.142	<0.157	<0.152	<0.154	<0.158	<0.167	<0.167	<0.148	<0.136	<0.138
Aroclor 1254	mg/kg	<0.142	<0.218	<0.252	<0.269	<0.238	<0.136	<0.151	<0.134	<0.158	<0.173	<0.164	<0.165	<0.166	<0.166	<0.142	<0.157	<0.152	<0.154	<0.158	<0.167	<0.167	<0.148	<0.136	<0.138
Aroclor 1260	mg/kg	<0.142	<0.218	<0.252	<0.269	<0.238	<0.136	<0.151	<0.134	<0.158	<0.173	<0.164	<0.165	<0.166	<0.166	<0.142	<0.157	<0.152	<0.154	<0.158	<0.167	<0.167	<0.148	<0.136	<0.138
Aroclor 1262	mg/kg	<0.142	<0.218	<0.252	<0.269	<0.238	<0.136	<0.151	<0.134	<0.158	<0.173	<0.164	<0.165	<0.166	<0.166	<0.142	<0.157	<0.152	<0.154	<0.158	<0.167	<0.167	<0.148	<0.136	<0.138
Aroclor 1268	mg/kg	<0.142	<0.218	<0.252	<0.269	<0.238	<0.136	<0.151	<0.134	<0.158	<0.173	<0.164	<0.165	<0.166	<0.166	<0.142	<0.157	<0.152	<0.154	<0.158	<0.167	<0.167	<0.148	<0.136	<0.138
Total PCBs	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Petroleum Hydrocarbons	mg/kg	8420	2890	<50.3	<51.1	<46.7	242	283	<43.1	<50.5	<53.9	<50.1	<53.3	<52.4	<54.5	106	220	<47.7	<49.8	<49.8	<52.4	<54.1	<47.4	<42.1	605
Volatile Organic Compounds (VOCs)																									
1,1,1,2-Tetrachloroethane	mg/kg	<0.965	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	mg/kg	<0.483	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg	<0.483	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	mg/kg	<0.483	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	mg/kg	<0.483	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	mg/kg	<0.483	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloropropene	mg/kg	<0.483	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	mg/kg	<0.483	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	mg/kg	<0.483	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	mg/kg	<0.483	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	mg/kg	0.56	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-Chloropropane	mg/kg	<1.93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	mg/kg	<0.483	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	mg/kg	<0.483	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	mg/kg	<0.483	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	mg/kg	<0.483	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	mg/kg	<0.483	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	mg/kg	<0.483	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichloropropane	mg/kg	<0.483	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg	<0.483	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane - Screen	mg/kg	<48.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,2-Dichloropropane	mg/kg	<0.965	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Butanone	mg/kg	<1.93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chlorotoluene	mg/kg	<0.483	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	mg/kg	<1.93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Chlorotoluene	mg/kg	<0.483	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Isopropyltoluene	mg/kg	<0.483	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-Pentanone	mg/kg	<1.93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	mg/kg	4.15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzene	mg/kg	<0.483	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromobenzene	mg/kg	<0.483	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	mg/kg	<0.483	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	mg/kg	<0.483	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	mg/kg	<0.483	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	mg/kg	<0.965	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Disulfide	mg/kg	<0.483	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	mg/kg	<0.483	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	A01 A01S01S02 1503097 Fill 3 - 6 3/5/2015	A01 GZ007S01S02 1410725 Fill 0 - 5 10/29/2014	A01 GZ007S03S06 1410725 Fill 5 - 13 10/29/2014	A01 GZ007S07S09 1410725 Natural Clay 19 - 31 10/29/2014	A01 GZ007S10S12 1410725 Natural Clay 34 - 46 10/29/2014	A02 A02S01S02A 1501166 Fill 0 - 3.33 1/9/2015	A02 A02S02BS03 1501166 Fill 3.33 - 6 1/9/2015	A02 A02S04 1501166 Natural Sand/Gravel 6 - 8 1/9/2015	A02 A02S05 1501193 Natural Clay 9 - 11 1/12/2015	A02 A02S06 1501193 Natural Clay 14 - 16 1/12/2015	A02 A02S07 1501193 Natural Clay 19 - 21 1/12/2015	A02 A02S08 1501193 Natural Clay 24 - 26 1/12/2015	A02 A02S09 1501193 Natural Clay 29 - 31 1/12/2015	A02 A02S10S11 1501193 Natural Clay 34 - 38 1/12/2015	A03 A03S01S02A 1503023 Fill 0 - 3.3 3/2/2015	A03 A03S02BS04A 1503023 Fill 3.3 - 6.6 3/2/2015	A03 A03S04B 1503023 Natural Organics 7 - 8 3/2/2015	A03 A03S05 1503023 Natural Clay 9 - 11 3/2/2015	A03 A03S06 1503023 Natural Clay 14 - 16 3/2/2015	A03 A03S07 1503023 Natural Clay 19 - 21 3/2/2015	A03 A03S08 1503023 Natural Clay 24 - 26 3/2/2015	A03 A03S09 1503023 Natural Clay 29 - 31 3/2/2015	A03 A03S10S11 1503023 Natural Clay 34 - 38 3/2/2015	A04 A04S01S02A 1503023 Fill 0 - 3.3 3/2/2015
Preliminary Disposal Facility Category		Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type B-1	Hazardous Material Type A	MCP Restricted	MCP Restricted	MCP Restricted	MCP Restricted	MCP Restricted	Uncontaminated	MCP Regulated Type A
Chlorobenzene	mg/kg	<0.483	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	mg/kg	<0.965	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	mg/kg	<0.483	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	mg/kg	<0.965	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	mg/kg	<0.483	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	mg/kg	<0.483	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	mg/kg	<0.483	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromomethane	mg/kg	<0.483	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	mg/kg	<0.483	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Diethyl Ether	mg/kg	<0.483	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Di-isopropyl ether	mg/kg	<0.483	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethyl tertiary-butyl ether	mg/kg	<0.483	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	mg/kg	<0.483	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	mg/kg	<0.483	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene	mg/kg	<0.483	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	mg/kg	<0.483	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride	mg/kg	<1.93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	mg/kg	355	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	mg/kg	<0.483	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	mg/kg	<0.483	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	mg/kg	<0.483	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	mg/kg	0.85	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
tert-Butylbenzene	mg/kg	<0.483	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tertiary-amyl methyl ether	mg/kg	<0.483	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	mg/kg	<0.483	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	mg/kg	<1.93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	mg/kg	<0.483	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	mg/kg	<0.483	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	mg/kg	<0.483	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene	mg/kg	<0.483	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane	mg/kg	<0.483	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	mg/kg	<0.483	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene O	mg/kg	<0.483	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene P,M	mg/kg	0.975	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylenes (Total)	mg/kg	0.975	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total VOCs	mg/kg	362.51	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds - Low Level Analysis																										
1,1,1,2-Tetrachloroethane	mg/kg	--	<0.0063	<0.0071	<0.0054	<0.0039	<0.0051	<0.0066	<0.0038	<0.0041	<0.0038	<0.0053	<0.0047	<0.0053	<0.0054	<0.0052	<0.0082	<0.0057	<0.0064	<0.0056	<0.0038	<0.0054	<0.0041	<0.0033	<0.0048
1,1,1-Trichloroethane	mg/kg	--	<0.0063	<0.0071	<0.0054	<0.0039	<0.0051	<0.0066	<0.0038	<0.0041	<0.0038	<0.0053	<0.0047	<0.0053	<0.0054	<0.0052	<0.0082	<0.0057	<0.0064	<0.0056	<0.0038	<0.0054	<0.0041	<0.0033	<0.0048
1,1,2,2-Tetrachloroethane	mg/kg	--	<0.0025	<0.0028	<0.0022	<0.0016	<0.0020	<0.0027	<0.0015	<0.0016	<0.0015	<0.0021	<0.0019	<0.0021	<0.0022	<0.0021	<0.0033	<0.0023	<0.0025	<0.0023	<0.0015	<0.0021	<0.0017	<0.0013	<0.0019
1,1,2-Trichloroethane	mg/kg	--	<0.0063	<0.0071	<0.0054	<0.0039	<0.0051	<0.0066	<0.0038	<0.0041	<0.0038	<0.0053	<0.0047	<0.0053	<0.0054	<0.0052	<0.0082	<0.0057	<0.0064	<0.0056	<0.0038	<0.0054	<0.0041	<0.0033	<0.0048
1,1-Dichloroethane	mg/kg	--	<0.0063	<0.0071	<0.0054	<0.0039	<0.0051	<0.0066	<0.0038	<0.0041	<0.0038	<0.0053	<0.0047	<0.0053	<0.0054	<0.0052	<0.0082	<0.0057	<0.0064	<0.0056	<0.0038	<0.0054	<0.0041	<0.0033	<0.0048
1,1-Dichloroethene	mg/kg	--	<0.0063	<0.0071	<0.0054	<0.0039	<0.0051	<0.0066	<0.0038	<0.0041	<0.0038	<0.0053	<0.0047	<0.0053	<0.0054	<0.0052	<0.0082	<0.0057	<0.0064	<0.0056	<0.0038	<0.0054	<0.0041	<0.0033	<0.0048
1,1-Dichloropropene	mg/kg	--	<0.0063	<0.0071	<0.0054	<0.0039	<0.0051	<0.0066	<0.0038	<0.0041	<0.0038	<0.0053	<0.0047	<0.0053	<0.0054	<0.0052	<0.0082	<0.0057	<0.0064	<0.0056	<0.0038	<0.0054	<0.0041	<0.0033	<0.0048
1,2,3-Trichlorobenzene	mg/kg	--	<0.0063	<0.0071	<0.0054	<0.0039	<0.0051	<0.0066	<0.0038	<0.0041	<0.0038	<0.0053	<0.0047	<0.0053	<0.0054	<0.0052	<0.0082	<0.0057	<0.0064	<0.0056	<0.0038	<0.0054	<0.0041	<0.0033	<0.0048
1,2,3-Trichloropropane	mg/kg	--	<0.0063	<0.0071	<0.0054	<0.0039	<0.0051	<0.0066	0.023	<0.0041	<0.0038	<0.0053	<0.0047	<0.0053	<0.0054	<0.0052	<0.0082	<0.0057	<0.0064	<0.0056	<0.0038	<0.0054	<0.0041	<0.0033	<0.0048
1,2,4-Trichlorobenzene	mg/kg	--	<0.0063	<0.0071	<0.0054	<0.0039	<0.0051	<0.0066	<0.0038	<0.0041	<0.0038	<0.0053	<0.0047	<0.0053	<0.0054	<0.0052	<0.0082	<0.0057	<0.0064	<0.0056	<0.0038	<0.0054	<0.0041	<0.0033	<0.0048
1,2,4-Trimethylbenzene	mg/kg	--	<0.0063	<0.0071	<0.0054	<0.0039	<0.0051	<0.0066	<0.0038	<0.0041	<0.0038	<0.0053	<0.0047	<0.0053	<0.0054	<0.0052	<0.0082	<0.0057	<0.0064	<0.0056	<0.0038	<0.0054	<0.0041	<0.0033	<0.0048
1,2-Dibromo-3-Chloropropane	mg/kg	--	<0.0063	<0.0071	<0.0054	<0.0039	<0.0051	<0.0066	<0.0038	<0.0041	<0.0038	<0.0053	<0.0047	<0.0053	<0.0054	<0.0052	<0.0082	<0.0057	<0.0064	<0.0056	<0.0038	<0.0054	<0.0041	<0.0033	<0.0048
1,2-Dibromoethane	mg/kg	--	<0.0063	<0.0071	<0.0054	<0.0039	<0.0051	<0.0066	<0.0038	<0.0041	<0.0038	<0.0053	<0.0047	<0.0053	<0.0054	<0.0052	<0.0082	<0.0057	<0.0064	<0.0056	<0.0038	<0.0054	<0.0041	<0.0033	<0.0048
1,2-Dichlorobenzene	mg/kg	--	<0.0063	<0.0071	<0.0054	<0.0039	<0.0051	<0.0066	<0.0038	<0.0041	<0.0038	<0.0053	<0.0047	<0.0053	<0.0054	<0.0052	<0.0082	<0.0057	<0.0064	<0.0056	<0.0038	<0.0054	<0.0041	<0.0033	<0.0048
1,2-Dichloroethane	mg/kg	--	<0.0063	<0.0071	<0.0054	<0.0039	<0.0051	<0.0066	<0.0038	<0.0041	<0.0038	<0.0053	<0.0047	<0.0053	<0.0054	<0.0052	<0.0082	<0.0057	<0.0064	<0.0056	<0.0038	<0.0054	<0.0041	<0.0033	<0.0048
1,2-Dichloropropane	mg/kg	--	<0.0063	<0.0071	<0.0054	<0.0039	<0.0051	<0.0066	<0.0038	<0.0041	<0.0038	<0.0053	<0.0047	<0.0053	<0.0054	<0.0052	<0.0082	<0.0057	<0.0064	<0.0056	<0.0038	<0.0054	<0.0041	<0.0033	<0.0048
1,3,5-Trimethylbenzene	mg/kg	--	<0.0063	<0.0071	<0.0054	<0.0039	<0.0051	<0.0066	<0.0038	<0.0041	<0.0038	<0.0053	<0.0047	<0.0053	<0.0054	<0.0052	<0.0082	<0.0057	<0.0064	<0.0056	<0.0038	<0.0054	<0.0041	<0.0033	<0.0048
1,3-Dichlorobenzene	mg/kg	--	<0.0063	<0.0071	<0.0054	<0.0039	<0.0051	<0.0066	<0.0038	<0.0041	<0.0038	<0.0053	<0.0047	<0.0053	<0.0054	<0.0052	<0.0082	<0.0057	<0.0064	<0.0056	<0.0038	<0.0054	<0.0041	<0.0033	<0.0048
1,3-Dichloropropane	mg/kg	--	<0.0063	<0.0071	<0.0054	<0.0039	<0.0051	<0.0066	<0.0038	<0.0041	<0.0038	<0.0053	<0.0047	<0.0053	<0.0054	<0.0052	<0.0082	<0.0057	<0.0064	<0.0056	<0.0038	<0.0054	<0.0041	<0.0033	<0.0048
1,4-Dichlorobenzene	mg/kg	--	<0.0063	<0.0071	<0.0054	<0.0039	<0.0051	<0.0066	<0.0038	<0.0041	<0.0038	<0.0053	<0.0047	<0.0053	<0.0054	<0.0052	<0.0082	<0.0057	<0.0064	<0.0056	<0.0038	<0.0054	<0.0041	<0.0033	<0.0048
1,4-Dioxane	mg/kg	--	<0.126	<0.142	<0.108	<0.0785	<0.102	<0.133	<0.0762	<0.0812	<0.0752	<0.106	<0.0947	<0.106	<0.108	<0.104	<0.163	<0.113	<0.127	<0.113	<0.0767	<0.107	<0.0828	<0.0665	<0.0954
2,2-Dichloropropane	mg/kg	--	<0.0063	<0.0071	<0.0054	<0.0039	<0.0051	<0.0066	<0.0038	<0.0041	<0.0038	<0.0053	<0.0047	<0.0053	<0.0054	<0.0052	<0.0082	<0.0057	<0.0064	<0.0056	<0.0038	<0.0054	<0.0041	<0.0033	<0.0048
2-Butanone	mg/kg	--	<0.0126	0.0387	<0.0108	<0.0078	<0.0102	<0.0133	<0.0076	<0.0081	<0.0075	<0.0106	<0.0095	<0.0106	<0.0108	<0.0104	<0.0163	<0.0113	<0.0127	<0.0113	<0.0077	<0.0107	<0.0083	<0.0067	<0.0095
2-Chlorotoluene	mg/kg	--	<0.0063	<0.0071	<0.0054	<0.0039	<0.0051	<0.0066	<0.0038	<0.0041	<0.0038	<0.0053	<0.0047	<0.0053	<0.0054	<0.0052	<0.0082	<0.0057	<0.0064	<0.0056	<0.0038	<0.0054	<0.0041	<0.0033	<0.0048
2-Hexanone	mg/kg	--	<0.0126	<0.0142	<0.0108	<0.0078	<0.0102	<0.0133	<0.0076	<0.0081	<0.0075	<0.0106	<0.0095	<0.0106	<0.0108	<0.0104	<0.0163	<0.0113	<0.0127	<0.0113	<0.0077	<0.0107	<0.0083	<0.0067	<0.0095
4-Chlorotoluene	mg/kg	--	<0.0063	<0.0071	<0.0054	<0.0039	<0.0051	<0.0066	<0.0038	<0.0041	<0.0038	<0.0053	<0.0047	<0.0053	<0.0054	<0.0052	<0.0082	<0.0057	<0.0064	<0.0056	<0.0038	<0.0054	<0.0041	<0.0033	<0.0048
4-Isopropyltoluene	mg/kg	--	<0.0063	<0.0071	<0.0054	<0.0039	<0.0051	<0.0066	<0.0038	<0.0041	<0.0038	<0.0053	<0.0047	<0.0053	<0.0054	<0.0052	<0.0082	<0.0057	<0.0064	<0.0056	<0.0038	<0.0054	<0.0041	<0.0033	<0.0048
4-Methyl-2-Pentanone	mg/kg	--	<0.0126	<0.0142	<0.0108	<0.0078	<0.0102	<0.0133	<0.0076	<0.0081	<0.0075	<0.0106	<0.0095	<0.0106	<0.0108	<0.0104	<0.0163	<0.0113	<0.0127	<0.0113	<0.0077	<0.0107	<0.0083	<0.0067	<0.0095
Acetone	mg/kg	--	<0.0126	0.247	<0.0108	<0.0078	0.0206	0.0912	0.0158	0.0135	<0.0075	0.0181	0.0167	0.0161	0.0121	0.0148	<0.0163	<0.0113	<0.0127	<0.0113	<0.0077	<0.0107	<0.0083	<0.0067	<0.0095
Benzene	mg/kg	--	<0.0063	<0.0071	<0.0054	<0.0039	<0.0051	<0.0066	<0.0038	<0.0041	<0.0038	<0.0053	<0.0047	<0.0053	<0.0054	<0.0052	<0.0082	<0.0057	<0.0064	<0.0056	<0.0038	<0.0054	<0.0041	<0.0033	<0.0048
Bromobenzene	mg/kg	--	<0.0063	<0.0071	<0.0054	<0.0039	<0.0051	<0.0066	<0.0038	<0.0041	<0.0038	<0.0053	<0.0047	<0.0053	<0.0054	<0.0052	<0.0082	<0.0057	<0.0064	<0.0056	<0.0038	<0.0054	<0.0041	<0.0033	<0.0048
Bromochloromethane	mg/kg	--	<0.0063	<0.0071	<0.0054	<0.0039	<0.0051	<0.0066	<0.0038	<0.0041	<0.0038	<0.0053	<0.0047	<0.0053	<0.0054	<0.0052	<0.0082	<0.0057	<0.0064	<0.0056	<0.0038	<0.0054	<0.0041	<0.0033	<0.0048
Bromodichloromethane	mg/kg	--	<0.0063	<0.0071	<0.0054	<0.0039	<0.0051	<0.0066	<0.0038	<0.0041	<0.0038	<0.0053	<0.0047	<0.0053	<0.0054	<0.0052	<0.0082	<0.0057	<0.0064	<0.0056	<0.0038	<0.0054	<0.0041	<0.0033	<0.0048
Bromoform	mg/kg	--	<0.0063	<0.0071	<0.0054	<0.0039	<0.0051	<0.0066	<0.0038	<0.0041	<0.0038	<0.0053	<0.0047	<0.0053	<0.0054	<0.0052	<0.0082	<0.0057	<0.0064	<0.0056	<0.0038	<0.0054	<0.0041	<0.0033	<0.0048
Bromomethane	mg/kg	--	<0.0126	<0.0142	<0.0108	<0.0078	<0.0102	<0.0133	<0.0076	<0.0081	<0.0075	<0.0106	<0.0095	<0.0106	<0.0108	<0.0104	<0.0163	<0.0113	<0.0127	<0.0113	<0.0077	<0.0107	<0.0083	<0.0067	<0.0095
Carbon Disulfide	mg/kg	--	<0.0063	<0.0071	<0.0054	<0.0039	<0.0051	<0.0066	<0.0038	<0.0041	<0.0038	<0.0053	<0.0047	<0.0053	<0.0054	<0.0052	<0.0082	<0.0057	<0.0064	<0.0056	<0.0038	<0.0054	<0.0041	<0.0033	<0.0048
Carbon Tetrachloride	mg/kg	--	<0.0063	<0.0071	<0.0054	<0.0039	<0.0051	<0.0066	<0.0038	<0.0041	<0.0038	<0.0053	<0.0047	<0.0053	<0.0054	<0.0052	<0.0082	<0.0057	<0.0064	<0.0056	<0.0038	<0.0054	<0.0041	<0.0033	<0.0048
Chlorobenzene	mg/kg	--	<0.0063	<0.0071	<0.0054	<0.0039	<0.0051	<0.0066	<0.0038	<0.0041	<0.0038	<0.0053	<0.0047	<0.0053	<0.0054	<0.0052	<0.0082	<0.0057	<0.0064	<0.0056	<0.0038	<0.0054	<0.0041	<0.0033	<0.0048
Chloroethane	mg/kg	--	<0.0126	<0.0142	<0.0108	<0.0078	<0.0102	<0.0133	<0.0076	<0.0081	<0.0075	<0.0106	<0.0095	<0.0106	<0.0108	<0.0104	<0.0163	<0.0113	<0.0127	<0.0113	<0.0077	<0.0107	<0.0083	<0.0067	<0.0095
Chloroform	mg/kg	--	<0.0063	<0.0071	<0.0054	<0.0039	<0.0051	<0.0066	<0.0038	<0.0041	<0.0038	<0.0053	<0.0047	<0.0053	<0.0054	<0.0052	<0.0082	<0.0057	<0.0064	<0.0056	<0.0038	<0.0054	<0.0041	<0.0033	0.0062
Chloromethane	mg/kg	--	<0.0126	<0.0142	<0.0108	<0.0078	<0.0102	<0.0133	<0.0076	<0.0081	<0.0075	<0.0106	<0.0095	<0.0106	<0.0108	<0.0104	<0.0163	<0.0113	<0.0127	<0.0113	<0.0077	<0.0107	<0.0083	<0.0067	<0.0095
cis-1,2-Dichloroethene	mg/kg	--	<0.0063	<0.0071	<0.0054	<0.0039	<0.0051	<0.0066	<0.0038	<0.0041	<0.0038	<0.0053	<0.0047	<0.0053	<0.0054	<0.0052	<0.0082	<0.0057	<0.0064	<0.0056	<0.0038	<0.0054	<0.0041	<0.0033	<0.0048
cis-1,3-Dichloropropene	mg/kg	--	<0.0063	<0.0071	<0.0054	<0.0039	<0.0051	<0.0066	<0.0038	<0.0041	<0.0038	<0.0053	<0.0047	<0.0053	<0.0054	<0.0052	<0.0082	<0.0057	<0.0064	<0.0056	<0.0038	<0.0054	<0.0041	<0.0033	<0.0048
Dibromochloromethane	mg/kg	--	<0.0025	<0.0028	<0.0022	<0.0016	<0.0020	<0.0027	<0.0015	<0.0016	<0.0015	<0.0021	<0.0019	<0.0021	<0.0022	<0.0021	<0.0033	<0.0023	<0.0025	<0.0023	<0.0015	<0.0021	<0.0017	<0.0013	<0.0019
Dibromomethane	mg/kg	--	<0.0063	<0.0071	<0.0054	<0.0039	<0.0051	<0.0066	<0.0038	<0.0041	<0.0038	<0.0053	<0.0047	<0.0053	<0.0054	<0.0052	<0.0082	<0.0057	<0.0064	<0.0056	<0.0038	<0.0054	<0.0041	<0.0033	<0.0048
Dichlorodifluoromethane	mg/kg	--	<0.0126	<0.0142	<0.0108	<0.0078	<0.0102	<0.0133	<0.0076	<0.0081	<0.0075	<0.0106	<0.0095	<0.0106	<0.0108	<0.0104	<0.0163	<0.0113	<0.0127	<0.0113	<0.0077	<0.0107	<0.0083	<0.0067	<0.0095
Diethyl Ether	mg/kg	--	<0.0063	<0.0071	<0.0054	<0.0039	<0.0051	<0.0066	<0.0038	<0.0041	0.0057	<0.0053	<0.0047	<0.0053	<0.0054	<0.0052	<0.0082	<0.0057	<0.0064	<0.0056	<0.0038	<0.0054	<0.0041	<0.0033	<0.0048
Di-isopropyl ether	mg/kg	--	<0.0063	<0.0071	<0.0054	<0.0039	<0.0051	<0.0066	<0.0038	<0.0041	<0.0038	<0.0053	<0.0047	<0.0053	<0.0054	<0.0052	<0.0082	<0.0057	<0.0064	<0.0056	<0.0038	<0.0054	<0.0041	<0.0033	<0.0048
Ethyl tertiary-butyl ether	mg/kg	--	<0.0063	<0.0071	<0.0054	<0.0039	<0.0051	<0.0066	<0.0038	<0.0041	<0.0038	<0.0053	<0.0047	<0.0053	<0.0054	<0.0052	<0.0082	<0.0057	<0.0064	<0.0056	<0.0038	<0.0054	<0.0041	<0.0033	<0.0048
Ethylbenzene	mg/kg	--	<0.0063	<0.0071	<0.0054	<0.0039	<0.0051	<0.0066	<0.0038	<0.0041	<0.0038	<0.0053	<0.0047	<0.0053	<0.0054	<0.0052	<0.0082	<0.0057	<0.0064	<0.0056	<0.0038	<0.0054	<0.0041	<0.0033	<0.0048
Hexachlorobutadiene	mg/kg	--	<0.0063	<0.0071	<0.0054	<0.0039	<0.0051	<0.0066	<0.0038	<0.0041	<0.0038	<0.0053	<0.0047	<0.0053	<0.0054	<0.0052	<0.0082	<0.0057	<0.0064	<0.0056	<0.0038	<0.0054	<0.0041	<0.0033	<0.0048
Isopropylbenzene	mg/kg	--	<0.0063	<0.0071	<0.0054	<0.0039	<0.0051	<0.0066	<0.0038	<0.0041	<0.0038	<0.0053	<0.0047	<0.0053	<0.0054	<0.0052	<0.0082	<0.0057	<0.0064	<0.0056	<0.0038	<0.0054	<0.0041	<0.0033	<0.0048
Methyl tert-Butyl Ether	mg/kg	--	<0.0063	<0.0071	<0.0054	<0.0039	<0.0051	<0.0066	<0.0038	<0.0041	<0.0038	<0.0053	<0.0047	<0.0053	<0.0054	<0.0052	<0.0082	<0.0057	<0.0064	<0.0056	<0.0038	<0.0054	<0.0041	<0.0033	<0.0048
Methylene Chloride	mg/kg	--	<0.0126	<0.0142	<0.0108	<0.0078	<0.0102	<0.0133	<0.0076	<0.0081	<0.0075	<0.0106	<0.0095	<0.0106	<0.0108	<0.0104	<0.0163	<0.0113	<0.0127	<0.0113	<0.0077	<0.0107	<0.0083	<0.0067	<0.0095
Naphthalene	mg/kg	--	0.0244	<0.0071	<0.0054	<0.0039	<0.0051	<0.0066	<0.0038	<0.0041	<0.0038	<0.0053	<0.0047	<0.0053	<0.0054	<0.0052	0.011	<0.0057	<0.0064	<0.0056	<0.0038	<0.0054	<0.0041	<0.0033	<0.0048
n-Butylbenzene	mg/kg	--	<0.0063	<0.0071	<0.0054	<0.0039	<0.0051	<0.0066	<0.0038	<0.0041	<0.0038	<0.0053	<0.0047	<0.0053	<0.0054	<0.0052	<0.0082	<0.0057	<0.0064	<0.0056	<0.0038	<0.0054	<0.0041	<0.0033	<0.0048
n-Propylbenzene	mg/kg	--	<0.0063	<0.0071	<0.0054	<0.0039	<0.0051	<0.0066	<0.0038	<0.0041	<0.0038	<0.0053	<0.0047	<0.0053	<0.0054	<0.0052	<0.0082	<0.0057	<0.0064	<0.0056	<0.0038	<0.0054	<0.0041	<0.0033	<0.0048
sec-Butylbenzene	mg/kg	--	<0.0063	<0.0071	<0.0054	<0.0039	<0.0051	<0.0066	<0.0038	<0.0041	<0.0038	<0.0053	<0.0047	<0.0053	<0.0054	<0.0052	<0.0082	<0.0057	<0.0064	<0.0056	<0.0038	<0.0054	<0.0041	<0.0033	<0.0048

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	A01 A01S01S02 1503097 Fill 3 - 6 3/5/2015	A01 GZ007S01S02 1410725 Fill 0 - 5 10/29/2014	A01 GZ007S03S06 1410725 Fill 5 - 13 10/29/2014	A01 GZ007S07S09 1410725 Natural Clay 19 - 31 10/29/2014	A01 GZ007S10S12 1410725 Natural Clay 34 - 46 10/29/2014	A02 A02S01S02A 1501166 Fill 0 - 3.33 1/9/2015	A02 A02S02BS03 1501166 Fill 3.33 - 6 1/9/2015	A02 A02S04 1501166 Natural Sand/Gravel 6 - 8 1/9/2015	A02 A02S05 1501193 Natural Clay 9 - 11 1/12/2015	A02 A02S06 1501193 Natural Clay 14 - 16 1/12/2015	A02 A02S07 1501193 Natural Clay 19 - 21 1/12/2015	A02 A02S08 1501193 Natural Clay 24 - 26 1/12/2015	A02 A02S09 1501193 Natural Clay 29 - 31 1/12/2015	A02 A02S10S11 1501193 Natural Clay 34 - 38 1/12/2015	A03 A03S01S02A 1503023 Fill 0 - 3.3 3/2/2015	A03 A03S02BS04A 1503023 Fill 3.3 - 6.6 3/2/2015	A03 A03S04B 1503023 Natural Organics 7 - 8 3/2/2015	A03 A03S05 1503023 Natural Clay 9 - 11 3/2/2015	A03 A03S06 1503023 Natural Clay 14 - 16 3/2/2015	A03 A03S07 1503023 Natural Clay 19 - 21 3/2/2015	A03 A03S08 1503023 Natural Clay 24 - 26 3/2/2015	A03 A03S09 1503023 Natural Clay 29 - 31 3/2/2015	A03 A03S10S11 1503023 Natural Clay 34 - 38 3/2/2015	A04 A04S01S02A 1503023 Fill 0 - 3.3 3/2/2015
Preliminary Disposal Facility Category		Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type B-1	Hazardous Material Type A	MCP Restricted	MCP Restricted	MCP Restricted	MCP Restricted	MCP Restricted	Uncontaminated	MCP Regulated Type A
Styrene	mg/kg	--	<0.0063	<0.0071	<0.0054	<0.0039	<0.0051	<0.0066	<0.0038	<0.0041	<0.0038	<0.0053	<0.0047	<0.0053	<0.0054	<0.0052	<0.0082	<0.0057	<0.0064	<0.0056	<0.0038	<0.0054	<0.0041	<0.0033	<0.0048
tert-Butylbenzene	mg/kg	--	<0.0063	<0.0071	<0.0054	<0.0039	<0.0051	<0.0066	<0.0038	<0.0041	<0.0038	<0.0053	<0.0047	<0.0053	<0.0054	<0.0052	<0.0082	<0.0057	<0.0064	<0.0056	<0.0038	<0.0054	<0.0041	<0.0033	<0.0048
Tertiary-amyl methyl ether	mg/kg	--	<0.0063	<0.0071	<0.0054	<0.0039	<0.0051	<0.0066	<0.0038	<0.0041	<0.0038	<0.0053	<0.0047	<0.0053	<0.0054	<0.0052	<0.0082	<0.0057	<0.0064	<0.0056	<0.0038	<0.0054	<0.0041	<0.0033	<0.0048
Tetrachloroethene	mg/kg	--	<0.0063	<0.0071	<0.0054	<0.0039	<0.0051	<0.0066	<0.0038	<0.0041	<0.0038	<0.0053	<0.0047	<0.0053	<0.0054	<0.0052	<0.0082	<0.0057	<0.0064	<0.0056	<0.0038	<0.0054	<0.0041	<0.0033	<0.0048
Tetrahydrofuran	mg/kg	--	<0.0063	<0.0071	<0.0054	<0.0039	<0.0051	<0.0066	<0.0038	<0.0041	<0.0038	<0.0053	<0.0047	<0.0053	<0.0054	<0.0052	<0.0082	<0.0057	<0.0064	<0.0056	<0.0038	<0.0054	<0.0041	<0.0033	<0.0048
Toluene	mg/kg	--	<0.0063	<0.0071	<0.0054	<0.0039	<0.0051	<0.0066	<0.0038	<0.0041	<0.0038	<0.0053	<0.0047	<0.0053	<0.0054	<0.0052	<0.0082	<0.0057	<0.0064	<0.0056	<0.0038	<0.0054	<0.0041	<0.0033	<0.0048
trans-1,2-Dichloroethene	mg/kg	--	<0.0063	<0.0071	<0.0054	<0.0039	<0.0051	<0.0066	<0.0038	<0.0041	<0.0038	<0.0053	<0.0047	<0.0053	<0.0054	<0.0052	<0.0082	<0.0057	<0.0064	<0.0056	<0.0038	<0.0054	<0.0041	<0.0033	<0.0048
trans-1,3-Dichloropropene	mg/kg	--	<0.0063	<0.0071	<0.0054	<0.0039	<0.0051	<0.0066	<0.0038	<0.0041	<0.0038	<0.0053	<0.0047	<0.0053	<0.0054	<0.0052	<0.0082	<0.0057	<0.0064	<0.0056	<0.0038	<0.0054	<0.0041	<0.0033	<0.0048
Trichloroethene	mg/kg	--	<0.0063	<0.0071	<0.0054	<0.0039	<0.0051	<0.0066	<0.0038	<0.0041	<0.0038	<0.0053	<0.0047	<0.0053	<0.0054	<0.0052	<0.0082	<0.0057	<0.0064	<0.0056	<0.0038	<0.0054	<0.0041	<0.0033	<0.0048
Trichlorofluoromethane	mg/kg	--	<0.0063	<0.0071	<0.0054	<0.0039	<0.0051	<0.0066	<0.0038	<0.0041	<0.0038	<0.0053	<0.0047	<0.0053	<0.0054	<0.0052	<0.0082	<0.0057	<0.0064	<0.0056	<0.0038	<0.0054	<0.0041	<0.0033	<0.0048
Vinyl Chloride	mg/kg	--	<0.0126	<0.0142	<0.0108	<0.0078	<0.0102	<0.0133	<0.0076	<0.0081	<0.0075	<0.0106	<0.0095	<0.0106	<0.0108	<0.0104	<0.0163	<0.0113	<0.0127	<0.0113	<0.0077	<0.0107	<0.0083	<0.0067	<0.0095
Xylene O	mg/kg	--	<0.0063	<0.0071	<0.0054	<0.0039	<0.0051	<0.0066	<0.0038	<0.0041	<0.0038	<0.0053	<0.0047	<0.0053	<0.0054	<0.0052	<0.0082	<0.0057	<0.0064	<0.0056	<0.0038	<0.0054	<0.0041	<0.0033	<0.0048
Xylene P,M	mg/kg	--	<0.0126	<0.0142	<0.0108	<0.0078	<0.0102	<0.0133	<0.0076	<0.0081	<0.0075	<0.0106	<0.0095	<0.0106	<0.0108	<0.0104	<0.0163	<0.0113	<0.0127	<0.0113	<0.0077	<0.0107	<0.0083	<0.0067	<0.0095
Xylenes (Total)	mg/kg	--	<0.0126	<0.0142	<0.0108	<0.0078	<0.0102	<0.0133	<0.0076	<0.0081	<0.0075	<0.0106	<0.0095	<0.0106	<0.0108	<0.0104	<0.0163	<0.0113	<0.0127	<0.0113	<0.0077	<0.0107	<0.0083	<0.0067	<0.0095
Total VOCs (Low Level)	mg/kg	--	0.0244	0.2857	ND	ND	0.0206	0.0912	0.0388	0.0135	0.0057	0.0181	0.0167	0.0161	0.0121	0.0148	0.011	ND	ND	ND	ND	ND	ND	ND	0.0062
Semi-Volatile Organic Compounds																									
1,2,4-Trichlorobenzene	mg/kg	<0.917	<0.920	<1.07	<1.09	<0.996	<0.919	<0.984	<0.920	<0.943	<1.14	<1.09	<1.14	<1.07	<0.997	<0.889	<1.07	<0.972	<1.05	<1.07	<1.10	<1.11	<0.962	<0.897	<0.950
1,2-Dichlorobenzene	mg/kg	<0.917	<0.920	<1.07	<1.09	<0.996	<0.919	<0.984	<0.920	<0.943	<1.14	<1.09	<1.14	<1.07	<0.997	<0.889	<1.07	<0.972	<1.05	<1.07	<1.10	<1.11	<0.962	<0.897	<0.950
1,3-Dichlorobenzene	mg/kg	<0.917	<0.920	<1.07	<1.09	<0.996	<0.919	<0.984	<0.920	<0.943	<1.14	<1.09	<1.14	<1.07	<0.997	<0.889	<1.07	<0.972	<1.05	<1.07	<1.10	<1.11	<0.962	<0.897	<0.950
1,4-Dichlorobenzene	mg/kg	<0.460	<0.462	<0.537	<0.548	<0.499	<0.461	<0.494	<0.461	<0.473	<0.570	<0.547	<0.573	<0.537	<0.500	<0.446	<0.537	<0.488	<0.527	<0.534	<0.552	<0.556	<0.482	<0.450	<0.477
2,4,5-Trichlorophenol	mg/kg	<0.917	<0.920	<1.07	<1.09	<0.996	<0.919	<0.984	<0.920	<0.943	<1.14	<1.09	<1.14	<1.07	<0.997	<0.889	<1.07	<0.972	<1.05	<1.07	<1.10	<1.11	<0.962	<0.897	<0.950
2,4,6-Trichlorophenol	mg/kg	<0.917	<0.920	<1.07	<1.09	<0.996	<0.919	<0.984	<0.920	<0.943	<1.14	<1.09	<1.14	<1.07	<0.997	<0.889	<1.07	<0.972	<1.05	<1.07	<1.10	<1.11	<0.962	<0.897	<0.950
2,4-Dichlorophenol	mg/kg	<0.917	<0.920	<1.07	<1.09	<0.996	<0.919	<0.984	<0.920	<0.943	<1.14	<1.09	<1.14	<1.07	<0.997	<0.889	<1.07	<0.972	<1.05	<1.07	<1.10	<1.11	<0.962	<0.897	<0.950
2,4-Dimethylphenol	mg/kg	4.91	<0.920	<1.07	<1.09	<0.996	<0.919	<0.984	<0.920	<0.943	<1.14	<1.09	<1.14	<1.07	<0.997	<0.889	<1.07	<0.972	<1.05	<1.07	<1.10	<1.11	<0.962	<0.897	<0.950
2,4-Dinitrophenol	mg/kg	<4.60	<4.62	<5.37	<5.48	<4.99	<4.61	<4.94	<4.61	<4.73	<5.70	<5.47	<5.73	<5.37	<5.00	<4.46	<5.37	<4.88	<5.27	<5.34	<5.52	<5.56	<4.82	<4.50	<4.77
2,4-Dinitrotoluene	mg/kg	<0.917	<0.920	<1.07	<1.09	<0.996	<0.919	<0.984	<0.920	<0.943	<1.14	<1.09	<1.14	<1.07	<0.997	<0.889	<1.07	<0.972	<1.05	<1.07	<1.10	<1.11	<0.962	<0.897	<0.950
2,6-Dinitrotoluene	mg/kg	<0.917	<0.920	<1.07	<1.09	<0.996	<0.919	<0.984	<0.920	<0.943	<1.14	<1.09	<1.14	<1.07	<0.997	<0.889	<1.07	<0.972	<1.05	<1.07	<1.10	<1.11	<0.962	<0.897	<0.950
2-Chloronaphthalene	mg/kg	<0.917	<0.920	<1.07	<1.09	<0.996	<0.919	<0.984	<0.920	<0.943	<1.14	<1.09	<1.14	<1.07	<0.997	<0.889	<1.07	<0.972	<1.05	<1.07	<1.10	<1.11	<0.962	<0.897	<0.950
2-Chlorophenol	mg/kg	<0.917	<0.920	<1.07	<1.09	<0.996	<0.919	<0.984	<0.920	<0.943	<1.14	<1.09	<1.14	<1.07	<0.997	<0.889	<1.07	<0.972	<1.05	<1.07	<1.10	<1.11	<0.962	<0.897	<0.950
2-Methylnaphthalene	mg/kg	74.7	3.92	<1.07	<1.09	<0.996	<0.919	<0.984	<0.920	<0.943	<1.14	<1.09	<1.14	<1.07	<0.997	<0.889	<1.07	<0.972	<1.05	<1.07	<1.10	<1.11	<0.962	<0.897	<0.950
2-Methylphenol	mg/kg	2.36	<0.920	<1.07	<1.09	<0.996	<0.919	<0.984	<0.920	<0.943	<1.14	<1.09	<1.14	<1.07	<0.997	<0.889	<1.07	<0.972	<1.05	<1.07	<1.10	<1.11	<0.962	<0.897	<0.950
2-Nitrophenol	mg/kg	<0.917	<0.920	<1.07	<1.09	<0.996	<0.919	<0.984	<0.920	<0.943	<1.14	<1.09	<1.14	<1.07	<0.997	<0.889	<1.07	<0.972	<1.05	<1.07	<1.10	<1.11	<0.962	<0.897	<0.950
3,3'-Dichlorobenzidine	mg/kg	<1.84	<1.84	<2.14	<2.19	<1.99	<1.84	<1.97	<1.84	<1.89	<2.28	<2.18	<2.29	<2.14	<2.00	<1.78	<2.14	<1.95	<2.10	<2.13	<2.20	<2.22	<1.93	<1.80	<1.90
3+4-Methylphenol	mg/kg	6.32	<1.84	<2.14	<2.19	<1.99	<1.84	<1.97	<1.84	<1.89	<2.28	<2.18	<2.29	<2.14	<2.00	<1.78	<2.14	<1.95	<2.10	<2.13	<2.20	<2.22	<1.93	<1.80	<1.90
4-Bromophenyl-phenylether	mg/kg	<0.917	<0.920	<1.07	<1.09	<0.996	<0.919	<0.984	<0.920	<0.943	<1.14	<1.09	<1.14	<1.07	<0.997	<0.889	<1.07	<0.972	<1.05	<1.07	<1.10	<1.11	<0.962	<0.897	<0.950
4-Chloroaniline	mg/kg	<1.84	<1.84	<2.14	<2.19	<1.99	<1.84	<1.97	<1.84	<1.89	<2.28	<2.18	<2.29	<2.14	<2.00	<1.78	<2.14	<1.95	<2.10	<2.13	<2.20	<2.22	<1.93	<1.80	<1.90
4-Nitrophenol	mg/kg	<4.60	<4.62	<5.37	<5.48	<4.99	<4.61	<4.94	<4.61	<4.73	<5.70	<5.47	<5.73	<5.37	<5.00	<4.46	<5.37	<4.88	<5.27	<5.34	<5.52	<5.56	<4.82	<4.50	<4.77
Acenaphthene	mg/kg	75.2	4.71	<1.07	<1.09	<0.996	<0.919	<0.984	<0.920	<0.943	<1.14	<1.09	<1.14	<1.07	<0.997	<0.889	<1.07	<0.972	<1.05	<1.07	<1.10	<1.11	<0.962	<0.897	<0.950
Acenaphthylene	mg/kg	3.3	<0.920	<1.07	<1.09	<0.996	<0.919	<0.984	<0.920	<0.943	<1.14	<1.09	<1.14	<1.07	<0.997	<0.889	<1.07	<0.972	<1.05	<1.07	<1.10	<1.11	<0.962	<0.897	<0.950
Acetophenone	mg/kg	<1.84	<1.84	<2.14	<2.19	<1.99	<1.84	<1.97	<1.84	<1.89	<2.28	<2.18	<2.29	<2.14	<2.00	<1.78	<2.14	<1.95	<2.10	<2.13	<2.20	<2.22	<1.93	<1.80	<1.90
Aniline	mg/kg	<4.60	<4.62	<5.37	<5.48	<4.99	<4.61	<4.94	<4.61	<4.73	<5.70	<5.47	<5.73	<5.37	<5.00	<4.46	<5.37	<4.88	<5.27	<5.34	<5.52	<5.56	<4.82	<4.50	<4.77
Anthracene	mg/kg	168	9.89	<1.07	<1.09	<0.996	1.18	1.1	<0.920	<0.943	<1.14	<1.09	<1.14	<1.07	<0.997	<0.889	<1.07	<0.972	<1.05	<1.07	<1.10	<1.11	<0.962	<0.897	<0.950
Azobenzene	mg/kg	<0.917	<0.920	<1.07	<1.09	<0.996	<0.919	<0.984	<0.920	<0.943	<1.14	<1.09	<1.14	<1.07	<0.997	<0.889	<1.07	<0.972	<1.05	<1.07	<1.10	<1.11	<0.962	<0.897	<0.950
Benzo(a)anthracene	mg/kg	157	9	<1.07	<1.09	<0.996	2.52	2.6	<0.920	<0.943	<1.14	<1.09	<1.14	<1.07	<0.997	2.01	2.85	<0.972	<1.05	<1.07	<1.10	<1.11	<0.962	<0.897	<0.950
Benzo(a)pyrene	mg/kg	110	7.33	<0.537	<0.548	<0.499	1.9	1.96	<0.461	<0.473	<0.570	<0.547	<0.573	<0.537	<0.500	1.66	2.03	<0.488	<0.527	<0.534	<0.552	<0.556	<0.482	<0.450	0.578
Benzo(b)fluoranthene	mg/kg	83	8.78	<1.07	<1.09	<0.996	2.51	2.3	<0.920	<0.943	<1.14	<1.09	<1.14	<1.07	<0.997	2.25	2.48	<0.972	<1.05	<1.07	<1.10	<1.11	<0.962	<0.897	<0.950
Benzo(g,h,i)perylene	mg/kg	55	2.3	<1.07	<1.09	<0.996	1.28	1.39	<0.920	<0.943	<1.14	<1.09	<1.14	<1.07	<0.997	0.918	1.11	<0.972	<1.05	<1.07	<1.10	<1.11	<0.962	<0.897	<0.950
Benzo(k)fluoranthene	mg/kg	79	3.81	<1.07	<1.09	<0.996	<0.919	1.18	<0.920	<0.943	<1.14	<1.09	<1.14	<1.07	<0.997	0.948	<1.07	<0.972	<1.05	<1.07	<1.10	<1.11	<0.962	<0.897	<0.950
bis(2-Chloroethoxy)methane	mg/kg	<0.917	<0.920	<1.07	<1.09	<0.996	<0.919	<0.984	<0.920	<0.943	<1.14	<1.09	<1.14	<1.07	<0.997	<0.889	<1.07	<0.972	<1.05	<1.07	<1.10	<1.11	<0.962	<0.897	<0.950
bis(2-Chloroethyl)ether	mg/kg	<0.460	<0.462	<0.537	<0.548	<0.499	<0.461	<0.494	<0.461	<0.473	<0.570	<0.547	<0.573	<0.537	<0.500	<0.446	<0.537	<0.488	<0.527	<0.534	<0.552	<0.556	<0.482	<0.450	<0.477
bis(2-chloroisopropyl)Ether	mg/kg	<0.460	<0.462	<0.537	<0.548	<0.499	<0.461	<0.494	<0.461	<0.473	<0.570	<0.547	<0.573	<0.537	<0.500	<0.446	<0.537	<0.488	<0.527	<0.534	<0.552	<0.556	<0.482	<0.450	<0.477
bis(2-Ethylhexyl)phthalate	mg/kg	<0.917	<0.920	1.64	<1.09	<0.996	<0.919	<0.984	<0.920	<0.943	<1.14	1.79	<1.14	<1.07	<0.997	<0.889	<1.07	<0.972	<1.05	<1.07	<1.10	<1.11	<0.962	<0.897	<0.950
Butylbenzylphthalate	mg/kg	<0.917	<0.920	<1.07	<1.09	<0.996	<0.919	<0.984	<0.920	<0.943	<1.14	<1.09	<1.14	<1.07	<0.997	<0.889	<1.07	<0.972	<1.05	<1.07	<1.10	<1.11	<0.962	<0.897	<0.950
Chrysene	mg/kg	122	8.13	<0.537	<0.548	<0.499	2.3	2.38	<0.461	<0.473	<0.570	<0.547	<0.573	<0.537	<0.500	1.95	2.68	<0.488	<0.527	<0.534	<0.552	<0.556	<0.482	<0.450	0.652
Dibenzo(a,h)Anthracene	mg/kg	15.5	1.16	<0.537	<0.548	<0.499	0.617	0.667	<0.461	<0.473	<0.570	<0.547	<0.573	<0.537	<0.500	0.499	0.59	<0.488	<0.527	<0.534	<0.552	<0.556	<0.482	<0.450	<0.477
Dibenzofuran	mg/kg	85.2	5.86	<1.07	<1.09	<0.996	<0.919	<0.984	<0.920	<0.943	<1.14	<1.09	<1.14	<1.07	<0.997	<0.889	<1.07	<0.972	<1.05	<1.07	<1.10	<1.11	<0.962	<0.897	<0.950
Diethylphthalate	mg/kg	<0.917	<0.920	<1.07	<1.09	<0.996	<0.919	<0.984	<0.920	<0.943	<1.14	<1.09	<1.14	<1.07	<0.997	<0.889	<1.07	<0.972	<1.05	<1.07	<1.10	<1.11	<0.962	<0.897	<0.950
Dimethylphthalate	mg/kg	<0.917	<0.920	<1.07	<1.09	<0.996	<0.919	<0.984	<0.920	<0.943	<1.14	<1.09	<1.14	<1.07	<0.997	<0.889	<1.07	<0.972	<1.05	<1.07	<1.10	<1.11	<0.962	<0.897	<0.950
Di-n-butylphthalate	mg/kg	<0.917	<0.920	<1.07	<1.09	<0.996	<0.919	<0.984	<0.920	<0.943	<1.14	<1.09	<1.14	<1.07	<0.997	<0.889	<1.07	<0.972	<1.05	<1.07	<1.10	<1.11	<0.962	<0.897	<0.950
Di-n-octylphthalate	mg/kg	<0.917	<0.920	<1.07	<1.09	<0.996	<0.919	<0.984	<0.920	<0.943	<1.14	<1.09	<1.14	<1.07	<0.997	<0.889	<1.07	<0.972	<1.05	<1.07	<1.10	<1.11	<0.962	<0.897	<0.950
Fluoranthene	mg/kg	445	20.6	1.44	<1.09	<0.996	5.22	5.61	<0.920	<0.943	<1.14	<1.09	<1.14	<1.07	<0.997	3.61	4.62	<0.972	<1.05	<1.07	<1.10	<1.11	<0.962	<0.897	1.2
Fluorene	mg/kg	83.9	<0.920	<1.07	<1.09	<0.996	<0.919	<0.984	<0.920	<0.943	<1.14	<1.09	<1.14	<1.07	<0.997	<0.889	<1.07	<0.972	<1.05	<1.07	<1.10	<1.11	<0.962	<0.897	<0.950
Hexachlorobenzene	mg/kg	<0.460	<0.462	<0.537	<0.548	<0.499	<0.461	<0.494	<0.461	<0.473	<0.570	<0.547	<0.573	<0.537	<0.500	<0.446	<0.537	<0.488	<0.527	<0.534	<0.552	<0.556	<0.482	<0.450	<0.477
Hexachlorobutadiene	mg/kg	<0.917	<0.920	<1.07	<1.09	<0.996	<0.919	<0.984	<0.920	<0.943	<1.14	<1.09	<1.14	<1.07	<0.997	<0.889	<1.07	<0.972	<1.05	<1.07	<1.10	<1.11	<0.962	<0.897	<0.950
Hexachloroethane	mg/kg	<0.917	<0.920	<1.07	<1.09	<0.996	<0.919	<0.984	<0.920	<0.943	<1.14	<1.09	<1.14	<1.07	<0.997	<0.889	<1.07	<0.972	<1.05	<1.07	<1.10	<1.11	<0.962	<0.897	<0.950
Indeno(1,2,3-cd)Pyrene	mg/kg	55.4	2.14	<1.07	<1.09	<0.996	1.22	1.26	<0.920	<0.943	<1.14	<1.09	<1.14	<1.07	<0.997	0.902	<1.07	<0.972	<1.05	<1.07	<1.10	<1.11	<0.962	<0.897	<0.950
Isophorone	mg/kg	<0.917	<0.920	<1.07	<1.09	<0.996	<0.919	<0.984	<0.920	<0.943	<1.14	<1.09	<1.14	<1.07	<0.997	<0.889	<1.07	<0.972	<1.05	<1.07	<1.10	<1.11	<0.962	<0.897	<0.950
Naphthalene	mg/kg	138	5.53	<1.07	<1.09	<0.996	<0.919	<0.984	<0.920	<0.943	<1.14	<1.09	<1.14	<1.07	<0.997	<0.889	<1.07	<0.972	<1.05	<1.07	<1.10	<1.11	<0.962	<0.897	<0.950
Nitrobenzene	mg/kg	<0.917	<0.920	<1.07	<1.09	<0.996	<0.919	<0.984	<0.920	<0.943	<1.14	<1.09	<1.14	<1.07	<0.997	<0.889	<1.07	<0.972	<1.05	<1.07	<1.10	<1.11	<0.962	<0.897	<0.950
N-Nitrosodimethylamine	mg/kg	<0.917	<0.920	<1.07	<1.09	<0.996	<0.919	<0.984	<0.920	<0.943	<1.14	<1.09	<1.14	<1.07	<0.997	<0.889	<1.07	<0.972	<1.05	<1.07	<1.10	<1.11	<0.962	<0.897	<0.950
Pentachlorophenol	mg/kg	<4.60	<4.62	<5.37	<5.48	<4.99	<4.61	<4.94	<4.61	<4.73	<5.70	<5.47	<5.73	<5.37	<5.00	<4.46	<5.37	<4.88	<5.27	<5.34	<5.52	<5.56	<4.82	<4.50	<4.77
Phenanthrene	mg/kg	612	35.4	1.76	<1.09	<0.996	3.74	2.98	<0.920	<0.943	<1.14	<1.09	<1.14	<1.07	<0.997	2.71	3.75	<0.972	<1.05	<1.07	<1.10	<1.11	<0.962	<0.897	<0.950
Phenol	mg/kg	2.28	<0.920	<1.07	<1.09	<0.996	<0.919	<0.984	<0.920	<0.943	<1.14	<1.09	<1.14	<1.07	<0.997	<0.889	<1.07	<0.972	<1.05	<1.07	<1.10	<1.11	<0.962	<0.897	<0.950
Pyrene	mg/kg	347	13.8	<1.07	<1.09	<0.996	3.99	4.87	<0.920	<0.943	<1.14	<1.09	<1.14	<1.07	<0.997	3.14	4.16	<0.972	<1.05	<1.07	<1.10	<1.11	<0.962	<0.897	<0.950
Total SVOCs	mg/kg	2725.07	142.36	4.84	ND	ND	26.477	28.297	ND	ND	ND	1.79	ND	ND	ND	20.597	24.27	ND	ND	ND	ND	ND	ND	ND	2.43
Classic Chemistry																									
Corrosivity (pH)	S.U.	7.76	8.95	6.74	7.94	8.09	8.7	7.37	6.93	5.59	6.92	8.13	8.16	7.84	8.2	7.89	5.35	5.36	4.14	7.1	7.39	7.83	7.76	7.88	11
Conductivity	umhos/cm	393	178	1150	4970	2330	353	1180	260	910	1150	2020	2580	2370	1070	470	551	681	1570	1110	990	870	1880	780	852
Flashpoint	°F	>200	>200	>200	>200	>200	>200	>200	--	--	--	--	--	--	--	>200	>200	--	--	--	--	--	--	--	>200
Reactive Cyanide	mg/kg	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--	--	--	--	--	--	--	<2.0	<2.0	--	--	--	--	--	--	--	<2.0
Reactive Sulfide	mg/kg	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--	--	--	--	--	--	--	<2.0	<2.0	--	--	--	--	--	--	--	<2.0

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	A04 A04S02BS04A 1503023 Fill 3.3 - 6.6 3/2/2015	A04 A04S05 1503023 Natural Clay 9 - 11 3/2/2015	A04 A04S06 1503045 Natural Clay 14 - 16 3/3/2015	A04 A04S07 1503045 Natural Clay 19 - 21 3/3/2015	A04 A04S08 1503045 Natural Clay 24 - 26 3/3/2015	A04 A04S09 1503045 Natural Clay 29 - 31 3/3/2015	A04 A04S10S11 1503045 Natural Clay 34 - 38 3/3/2015	A05 A05S01S02A 1503045 Fill 0 - 3.3 3/3/2015	A05 A05S02BS04A 1503045 Fill 3.3 - 6.6 3/3/2015	A05 A05S04B 1503045 Fill 6.6 - 8 3/3/2015	A05 A05S05 1503045 Natural Clay 9 - 11 3/3/2015	A05 A05S06 1503045 Natural Clay 14 - 16 3/3/2015	A05 A05S07 1503045 Natural Clay 19 - 21 3/3/2015	A05 A05S08 1503045 Natural Clay 24 - 26 3/3/2015	A05 A05S09 1503045 Natural Clay 29 - 31 3/3/2015	A05 A05S10S11 1503045 Natural Sand/Gravel 34 - 38 3/3/2015	A06 GZ024S01S02A 1503096 Fill 0 - 3.3 3/5/2015	A06 GZ024S02BS04A 1503096 Fill 3.3 - 6.6 3/5/2015	A06 GZ024S04BS05 1503096 Fill 6.6 - 10 3/5/2015	A06 GZ024S06A 1503096 Fill 10 - 11.3 3/5/2015	A06 GZ024S07 1503111 Natural Clay 14 - 16 3/6/2015	A06 GZ024S08 1503111 Natural Clay 19 - 21 3/6/2015	A06 GZ024S09 1503111 Natural Clay 24 - 26 3/6/2015	A06 GZ024S10 1503111 Natural Clay 29 - 31 3/6/2015
Preliminary Disposal Facility Category		Hazardous Material Type A	MCP Restricted	MCP Regulated Type B-1	MCP Restricted	MCP Restricted	MCP Restricted	MCP Restricted	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Uncontaminated	Uncontaminated	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type B-1	MCP Restricted	MCP Restricted	Uncontaminated
RCRA 8 Metals	**Units**																								
Arsenic	mg/kg	64.9	16.5	13.5	<7.67	11.1	7.05	7.53	10.9	54.1	55.2	12.8	11.5	14.6	8.3	<5.80	<7.08	<7.04	42.7	23.4	10.2	12.2	<8.96	<8.00	<7.05
Barium	mg/kg	97	114	104	95.7	109	61.8	61.4	42.5	37.2	29	96.6	101	106	74.5	25.6	27.2	49.4	63.7	22.1	33.9	106	64.7	61.4	36.3
Cadmium	mg/kg	<1.60	2.71	<1.36	<1.53	<1.59	<1.35	<1.39	<1.28	<1.56	<1.65	<1.62	<1.50	<1.54	<1.39	<1.16	<1.42	<1.41	<1.47	<1.31	<1.27	<1.70	<1.79	<1.60	<1.41
Chromium	mg/kg	11	50.3	49.3	50.3	59.3	30.8	34.2	24.8	10.1	12.9	48.4	47.5	63.1	41.3	15.5	17.8	17.2	19.3	4.4	13.9	56.4	39.3	37.5	21.6
Lead	mg/kg	5230	22.5	13.8	<15.3	<15.9	<13.5	<13.9	130	170	145	<16.2	<15.0	<15.4	<13.9	<11.6	<14.2	164	977	234	24.8	<17.0	<17.9	<16.0	<14.1
Selenium	mg/kg	<7.98	<8.37	<6.79	<7.67	<7.93	<6.74	<6.96	<6.39	<7.79	<8.23	<8.12	<7.49	<7.71	<6.97	<5.80	<7.08	<7.04	<7.36	<6.54	<6.34	<8.48	<8.96	<8.00	<7.05
Silver	mg/kg	3.34	<1.67	<1.36	<1.53	<1.59	<1.35	<1.39	<1.28	<1.56	<1.65	<1.62	<1.50	<1.54	<1.39	<1.16	<1.42	<1.41	<1.47	<1.31	<1.27	<1.70	<1.79	<1.60	<1.41
Mercury	mg/kg	0.37	<0.044	<0.030	<0.036	<0.044	<0.040	<0.027	0.176	0.055	0.099	<0.038	<0.040	<0.039	<0.041	<0.023	<0.036	0.089	1.03	0.152	<0.039	<0.036	<0.044	<0.038	<0.033
Metals by Toxicity Characteristic Leaching Procedure (TCLP)																									
Arsenic	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead	mg/L	0.724	--	--	--	--	--	--	<0.500	<0.500	<0.500	--	--	--	--	--	--	<0.500	0.771	<0.500	--	--	--	--	--
Selenium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Herbicides																									
2,4,5-T	mg/kg	<0.29	--	--	--	--	--	--	<0.23	<0.24	<0.099	--	--	--	--	--	--	<0.23	<0.11	<0.046	<0.092	--	--	--	--
2,4-D	mg/kg	<1.5	--	--	--	--	--	--	<1.1	<1.2	<0.49	--	--	--	--	--	--	<1.1	<0.56	<0.23	<0.46	--	--	--	--
2,4-DB	mg/kg	<0.11	--	--	--	--	--	--	<0.085	<0.091	<0.037	--	--	--	--	--	--	<0.086	<0.042	<0.017	<0.034	--	--	--	--
Dalapon	mg/kg	<8.8	--	--	--	--	--	--	<6.8	<7.3	<3.0	--	--	--	--	--	--	<6.9	<3.3	<1.4	<2.7	--	--	--	--
Dicamba	mg/kg	<0.44	--	--	--	--	--	--	<0.34	<0.36	<0.15	--	--	--	--	--	--	<0.34	<0.17	<0.069	<0.14	--	--	--	--
Dichlorprop	mg/kg	<0.95	--	--	--	--	--	--	<0.73	<0.79	<0.32	--	--	--	--	--	--	<0.75	<0.36	<0.15	<0.30	--	--	--	--
Dinoseb	mg/kg	<1.5	--	--	--	--	--	--	<1.1	<1.2	<0.49	--	--	--	--	--	--	<1.1	<0.56	<0.23	<0.46	--	--	--	--
MCPA	mg/kg	<370	--	--	--	--	--	--	<280	<300	<120	--	--	--	--	--	--	<290	<140	<58	<110	--	--	--	--
MCPP	mg/kg	<370	--	--	--	--	--	--	<280	<300	<120	--	--	--	--	--	--	<290	<140	<58	<110	--	--	--	--
Silvex (2,4,5-TP)	mg/kg	<0.29	--	--	--	--	--	--	<0.23	<0.24	<0.099	--	--	--	--	--	--	<0.23	<0.11	<0.046	<0.092	--	--	--	--
Pesticides																									
4,4'-DDD	mg/kg	<0.0025	--	--	--	--	--	--	<0.019	<0.0041	<0.0042	--	--	--	--	--	--	<0.038	<0.0047	<0.0020	<0.0019	--	--	--	--
4,4'-DDE	mg/kg	<0.0025	--	--	--	--	--	--	<0.019	<0.0041	<0.0042	--	--	--	--	--	--	<0.038	<0.0047	<0.0020	<0.0019	--	--	--	--
4,4'-DDT	mg/kg	<0.0025	--	--	--	--	--	--	<0.019	<0.0041	<0.0042	--	--	--	--	--	--	<0.038	<0.0047	<0.0020	<0.0019	--	--	--	--
Aldrin	mg/kg	<0.0025	--	--	--	--	--	--	<0.019	<0.0041	<0.0042	--	--	--	--	--	--	<0.038	<0.0047	<0.0020	<0.0019	--	--	--	--
alpha-BHC	mg/kg	<0.0025	--	--	--	--	--	--	<0.019	<0.0041	<0.0042	--	--	--	--	--	--	<0.038	<0.0047	<0.0020	<0.0019	--	--	--	--
beta-BHC	mg/kg	<0.0025	--	--	--	--	--	--	<0.019	<0.0041	<0.0042	--	--	--	--	--	--	<0.038	<0.0047	<0.0020	<0.0019	--	--	--	--
Chlordane (technical)	mg/kg	<0.025	--	--	--	--	--	--	<0.19	<0.041	<0.042	--	--	--	--	--	--	<0.38	<0.047	<0.020	<0.019	--	--	--	--
delta-BHC	mg/kg	<0.0025	--	--	--	--	--	--	<0.019	<0.0041	<0.0042	--	--	--	--	--	--	<0.038	<0.0047	<0.0020	<0.0019	--	--	--	--
Dieldrin	mg/kg	<0.0025	--	--	--	--	--	--	<0.019	<0.0041	<0.0042	--	--	--	--	--	--	<0.038	<0.0047	<0.0020	<0.0019	--	--	--	--
Endosulfan I	mg/kg	<0.0025	--	--	--	--	--	--	<0.019	<0.0041	<0.0042	--	--	--	--	--	--	<0.038	<0.0047	<0.0020	<0.0019	--	--	--	--
Endosulfan II	mg/kg	<0.0025	--	--	--	--	--	--	<0.019	<0.0041	<0.0042	--	--	--	--	--	--	<0.038	<0.0047	<0.0020	<0.0019	--	--	--	--
Endosulfan sulfate	mg/kg	<0.0025	--	--	--	--	--	--	<0.019	<0.0041	<0.0042	--	--	--	--	--	--	<0.038	<0.0047	<0.0020	<0.0019	--	--	--	--
Endrin	mg/kg	<0.0025	--	--	--	--	--	--	<0.019	<0.0041	<0.0042	--	--	--	--	--	--	<0.038	<0.0047	<0.0020	<0.0019	--	--	--	--
Endrin ketone	mg/kg	<0.0025	--	--	--	--	--	--	<0.019	<0.0041	<0.0042	--	--	--	--	--	--	<0.038	<0.0047	<0.0020	<0.0019	--	--	--	--
gamma-BHC (Lindane)	mg/kg	<0.0025	--	--	--	--	--	--	<0.019	<0.0041	<0.0042	--	--	--	--	--	--	<0.038	<0.0047	<0.0020	<0.0019	--	--	--	--
Heptachlor	mg/kg	<0.0025	--	--	--	--	--	--	<0.019	<0.0041	<0.0042	--	--	--	--	--	--	<0.038	<0.0047	<0.0020	<0.0019	--	--	--	--
Heptachlor epoxide	mg/kg	<0.0025	--	--	--	--	--	--	<0.019	<0.0041	<0.0042	--	--	--	--	--	--	<0.038	<0.0047	<0.0020	<0.0019	--	--	--	--
Hexachlorobenzene	mg/kg	0.0033	--	--	--	--	--	--	<0.019	0.0091	0.029	--	--	--	--	--	--	<0.038	<0.0047	<0.0020	<0.0019	--	--	--	--
Methoxychlor	mg/kg	<0.0025	--	--	--	--	--	--	<0.019	<0.0041	<0.0042	--	--	--	--	--	--	<0.038	<0.0047	<0.0020	<0.0019	--	--	--	--
Polychlorinated Biphenyls																									
Aroclor 1016	mg/kg	<0.179	<0.163	<0.158	<0.163	<0.164	<0.148	<0.142	<0.134	<0.148	<0.143	<0.161	<0.159	<0.166	<0.158	<0.123	<0.135	<0.139	<0.153	<0.143	<0.154	<0.163	<0.168	<0.148	<0.140
Aroclor 1221	mg/kg	<0.179	<0.163	<0.158	<0.163	<0.164	<0.148	<0.142	<0.134	<0.148	<0.143	<0.161	<0.159	<0.166	<0.158	<0.123	<0.135	<0.139	<0.153	<0.143	<0.154	<0.163	<0.168	<0.148	<0.140
Aroclor 1232	mg/kg	<0.179	<0.163	<0.158	<0.163	<0.164	<0.148	<0.142	<0.134	<0.148	<0.143	<0.161	<0.159	<0.166	<0.158	<0.123	<0.135	<0.139	<0.153	<0.143	<0.154	<0.163	<0.168	<0.148	<0.140
Aroclor 1242	mg/kg	<0.179	<0.163	<0.158	<0.163	<0.164	<0.148	<0.142	<0.134	<0.148	<0.143	<0.161	<0.159	<0.166	<0.158	<0.123	<0.135	<0.139	<0.153	<0.143	<0.154	<0.163	<0.168	<0.148	<0.140
Aroclor 1248	mg/kg	<0.179	<0.163	<0.158	<0.163	<0.164	<0.148	<0.142	<0.134	<0.148	<0.143	<0.161	<0.159	<0.166	<0.158	<0.123	<0.135	<0.139	<0.153	<0.143	<0.154	<0.163	<0.168	<0.148	<0.140
Aroclor 1254	mg/kg	<0.179	<0.163	<0.158	<0.163	<0.164	<0.148	<0.142	<0.134	<0.148	<0.143	<0.161	<0.159	<0.166	<0.158	<0.123	<0.135	0.153	<0.153	<0.143	<0.154	<0.163	<0.168	<0.148	<0.140
Aroclor 1260	mg/kg	<0.179	<0.163	<0.158	<0.163	<0.164	<0.148	<0.142	<0.134	<0.148	<0.143	<0.161	<0.159	<0.166	<0.158	<0.123	<0.135	<0.139	<0.153	<0.143	<0.154	<0.163	<0.168	<0.148	<0.140
Aroclor 1262	mg/kg	<0.179	<0.163	<0.158	<0.163	<0.164	<0.148	<0.142	<0.134	<0.148	<0.143	<0.161	<0.159	<0.166	<0.158	<0.123	<0.135	<0.139	<0.153	<0.143	<0.154	<0.163	<0.168	<0.148	<0.140
Aroclor 1268	mg/kg	<0.179	<0.163	<0.158	<0.163	<0.164	<0.148	<0.142	<0.134	<0.148	<0.143	<0.161	<0.159	<0.166	<0.158	<0.123	<0.135	<0.139	<0.153	<0.143	<0.154	<0.163	<0.168	<0.148	<0.140
Total PCBs	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.153	ND	ND	ND	ND	ND	ND	ND
Total Petroleum Hydrocarbons	mg/kg	356	<51.5	<51.4	<52.5	<54.2	<46.4	<46.8	616	85.2	54.3	<51.8	<51.3	<54.1	<47.1	<43.9	<45.8	490	211	<43.2	<47.8	<51.7	<53.1	<47.2	<45.4
Volatile Organic Compounds (VOCs)																									
1,1,1,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-Chloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane - Screen	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Butanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Isopropyltoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-Pentanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Disulfide	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	A04 A04S02BS04A 1503023 Fill 3.3 - 6.6 3/2/2015	A04 A04S05 1503023 Natural Clay 9 - 11 3/2/2015	A04 A04S06 1503045 Natural Clay 14 - 16 3/3/2015	A04 A04S07 1503045 Natural Clay 19 - 21 3/3/2015	A04 A04S08 1503045 Natural Clay 24 - 26 3/3/2015	A04 A04S09 1503045 Natural Clay 29 - 31 3/3/2015	A04 A04S10S11 1503045 Natural Clay 34 - 38 3/3/2015	A05 A05S01S02A 1503045 Fill 0 - 3.3 3/3/2015	A05 A05S02BS04A 1503045 Fill 3.3 - 6.6 3/3/2015	A05 A05S04B 1503045 Fill 6.6 - 8 3/3/2015	A05 A05S05 1503045 Natural Clay 9 - 11 3/3/2015	A05 A05S06 1503045 Natural Clay 14 - 16 3/3/2015	A05 A05S07 1503045 Natural Clay 19 - 21 3/3/2015	A05 A05S08 1503045 Natural Clay 24 - 26 3/3/2015	A05 A05S09 1503045 Natural Clay 29 - 31 3/3/2015	A05 A05S10S11 1503045 Natural Sand/Gravel 34 - 38 3/3/2015	A06 GZ024S01S02A 1503096 Fill 0 - 3.3 3/5/2015	A06 GZ024S02BS04A 1503096 Fill 3.3 - 6.6 3/5/2015	A06 GZ024S04BS05 1503096 Fill 6.6 - 10 3/5/2015	A06 GZ024S06A 1503096 Fill 10 - 11.3 3/5/2015	A06 GZ024S07 1503111 Natural Clay 14 - 16 3/6/2015	A06 GZ024S08 1503111 Natural Clay 19 - 21 3/6/2015	A06 GZ024S09 1503111 Natural Clay 24 - 26 3/6/2015	A06 GZ024S10 1503111 Natural Clay 29 - 31 3/6/2015
Preliminary Disposal Facility Category		**Hazardous Material Type A**	**MCP Restricted**	**MCP Regulated Type B-1**	**MCP Restricted**	**MCP Restricted**	**MCP Restricted**	**MCP Restricted**	**MCP Regulated Type A**	**Hazardous Material Type A**	**Hazardous Material Type A**	**MCP Regulated Type A**	**MCP Regulated Type A**	**MCP Regulated Type A**	**MCP Regulated Type A**	**Uncontaminated**	**Uncontaminated**	**MCP Regulated Type A**	**Hazardous Material Type A**	**MCP Regulated Type A**	**MCP Regulated Type A**	**MCP Regulated Type B-1**	**MCP Restricted**	**MCP Restricted**	**Uncontaminated**
Chlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Diethyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Di-isopropyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethyl tertiary-butyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
tert-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tertiary-amyl methyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene O	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene P,M	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylenes (Total)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total VOCs	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds - Low Level Analysis																									
1,1,1,2-Tetrachloroethane	mg/kg	<0.0059	<0.0060	<0.0034	<0.0042	<0.0038	<0.0031	<0.0032	<0.0038	<0.0030	<0.0027	<0.0036	<0.0046	<0.0043	<0.0028	<0.0028	<0.0031	<0.0044	<0.0044	<0.0038	<0.0044	<0.0041	<0.0041	<0.0041	<0.0032
1,1,1-Trichloroethane	mg/kg	<0.0059	<0.0060	<0.0034	<0.0042	<0.0038	<0.0031	<0.0032	<0.0038	<0.0030	<0.0027	<0.0036	<0.0046	<0.0043	<0.0028	<0.0028	<0.0031	<0.0044	<0.0044	<0.0038	<0.0044	<0.0041	<0.0041	<0.0041	<0.0032
1,1,2,2-Tetrachloroethane	mg/kg	<0.0023	<0.0024	<0.0014	<0.0017	<0.0015	<0.0012	<0.0013	<0.0015	<0.0012	<0.0011	<0.0014	<0.0018	<0.0017	<0.0011	<0.0011	<0.0012	<0.0017	<0.0017	<0.0015	<0.0018	<0.0016	<0.0016	<0.0017	<0.0013
1,1,2-Trichloroethane	mg/kg	<0.0059	<0.0060	<0.0034	<0.0042	<0.0038	<0.0031	<0.0032	<0.0038	<0.0030	<0.0027	<0.0036	<0.0046	<0.0043	<0.0028	<0.0028	<0.0031	<0.0044	<0.0044	<0.0038	<0.0044	<0.0041	<0.0041	<0.0041	<0.0032
1,1-Dichloroethane	mg/kg	<0.0059	<0.0060	<0.0034	<0.0042	<0.0038	<0.0031	<0.0032	<0.0038	<0.0030	<0.0027	<0.0036	<0.0046	<0.0043	<0.0028	<0.0028	<0.0031	<0.0044	<0.0044	<0.0038	<0.0044	<0.0041	<0.0041	<0.0041	<0.0032
1,1-Dichloroethene	mg/kg	<0.0059	<0.0060	<0.0034	<0.0042	<0.0038	<0.0031	<0.0032	<0.0038	<0.0030	<0.0027	<0.0036	<0.0046	<0.0043	<0.0028	<0.0028	<0.0031	<0.0044	<0.0044	<0.0038	<0.0044	<0.0041	<0.0041	<0.0041	<0.0032
1,1-Dichloropropene	mg/kg	<0.0059	<0.0060	<0.0034	<0.0042	<0.0038	<0.0031	<0.0032	<0.0038	<0.0030	<0.0027	<0.0036	<0.0046	<0.0043	<0.0028	<0.0028	<0.0031	<0.0044	<0.0044	<0.0038	<0.0044	<0.0041	<0.0041	<0.0041	<0.0032
1,2,3-Trichlorobenzene	mg/kg	<0.0059	<0.0060	<0.0034	<0.0042	<0.0038	<0.0031	<0.0032	<0.0038	<0.0030	<0.0027	<0.0036	<0.0046	<0.0043	<0.0028	<0.0028	<0.0031	<0.0044	<0.0044	<0.0038	<0.0044	<0.0041	<0.0041	<0.0041	<0.0032
1,2,3-Trichloropropane	mg/kg	<0.0059	<0.0060	<0.0034	<0.0042	<0.0038	<0.0031	<0.0032	<0.0038	<0.0030	<0.0027	<0.0036	<0.0046	<0.0043	<0.0028	<0.0028	<0.0031	<0.0044	<0.0044	<0.0038	<0.0044	<0.0041	<0.0041	<0.0041	<0.0032
1,2,4-Trichlorobenzene	mg/kg	<0.0059	<0.0060	<0.0034	<0.0042	<0.0038	<0.0031	<0.0032	<0.0038	<0.0030	<0.0027	<0.0036	<0.0046	<0.0043	<0.0028	<0.0028	<0.0031	<0.0044	<0.0044	<0.0038	<0.0044	<0.0041	<0.0041	<0.0041	<0.0032
1,2,4-Trimethylbenzene	mg/kg	<0.0059	<0.0060	<0.0034	<0.0042	<0.0038	<0.0031	<0.0032	<0.0038	<0.0030	<0.0027	<0.0036	<0.0046	<0.0043	<0.0028	<0.0028	<0.0031	<0.0044	<0.0044	<0.0038	<0.0044	<0.0041	<0.0041	<0.0041	<0.0032
1,2-Dibromo-3-Chloropropane	mg/kg	<0.0059	<0.0060	<0.0034	<0.0042	<0.0038	<0.0031	<0.0032	<0.0038	<0.0030	<0.0027	<0.0036	<0.0046	<0.0043	<0.0028	<0.0028	<0.0031	<0.0044	<0.0044	<0.0038	<0.0044	<0.0041	<0.0041	<0.0041	<0.0032
1,2-Dibromoethane	mg/kg	<0.0059	<0.0060	<0.0034	<0.0042	<0.0038	<0.0031	<0.0032	<0.0038	<0.0030	<0.0027	<0.0036	<0.0046	<0.0043	<0.0028	<0.0028	<0.0031	<0.0044	<0.0044	<0.0038	<0.0044	<0.0041	<0.0041	<0.0041	<0.0032
1,2-Dichlorobenzene	mg/kg	<0.0059	<0.0060	<0.0034	<0.0042	<0.0038	<0.0031	<0.0032	<0.0038	<0.0030	<0.0027	<0.0036	<0.0046	<0.0043	<0.0028	<0.0028	<0.0031	<0.0044	<0.0044	<0.0038	<0.0044	<0.0041	<0.0041	<0.0041	<0.0032
1,2-Dichloroethane	mg/kg	<0.0059	<0.0060	<0.0034	<0.0042	<0.0038	<0.0031	<0.0032	<0.0038	<0.0030	<0.0027	<0.0036	<0.0046	<0.0043	<0.0028	<0.0028	<0.0031	<0.0044	<0.0044	<0.0038	<0.0044	<0.0041	<0.0041	<0.0041	<0.0032
1,2-Dichloropropane	mg/kg	<0.0059	<0.0060	<0.0034	<0.0042	<0.0038	<0.0031	<0.0032	<0.0038	<0.0030	<0.0027	<0.0036	<0.0046	<0.0043	<0.0028	<0.0028	<0.0031	<0.0044	<0.0044	<0.0038	<0.0044	<0.0041	<0.0041	<0.0041	<0.0032
1,3,5-Trimethylbenzene	mg/kg	<0.0059	<0.0060	<0.0034	<0.0042	<0.0038	<0.0031	<0.0032	<0.0038	<0.0030	<0.0027	<0.0036	<0.0046	<0.0043	<0.0028	<0.0028	<0.0031	<0.0044	<0.0044	<0.0038	<0.0044	<0.0041	<0.0041	<0.0041	<0.0032
1,3-Dichlorobenzene	mg/kg	<0.0059	<0.0060	<0.0034	<0.0042	<0.0038	<0.0031	<0.0032	<0.0038	<0.0030	<0.0027	<0.0036	<0.0046	<0.0043	<0.0028	<0.0028	<0.0031	<0.0044	<0.0044	<0.0038	<0.0044	<0.0041	<0.0041	<0.0041	<0.0032
1,3-Dichloropropane	mg/kg	<0.0059	<0.0060	<0.0034	<0.0042	<0.0038	<0.0031	<0.0032	<0.0038	<0.0030	<0.0027	<0.0036	<0.0046	<0.0043	<0.0028	<0.0028	<0.0031	<0.0044	<0.0044	<0.0038	<0.0044	<0.0041	<0.0041	<0.0041	<0.0032
1,4-Dichlorobenzene	mg/kg	<0.0059	<0.0060	<0.0034	<0.0042	<0.0038	<0.0031	<0.0032	<0.0038	<0.0030	<0.0027	<0.0036	<0.0046	<0.0043	<0.0028	<0.0028	<0.0031	<0.0044	<0.0044	<0.0038	<0.0044	<0.0041	<0.0041	<0.0041	<0.0032
1,4-Dioxane	mg/kg	<0.117	<0.120	<0.0686	<0.0841	<0.0754	<0.0623	<0.0637	<0.0766	<0.0598	<0.0531	<0.0714	<0.0916	<0.0864	<0.0555	<0.0569	<0.0624	<0.0872	<0.0871	<0.0763	<0.0875	<0.0814	<0.0814	<0.0827	<0.0648
2,2-Dichloropropane	mg/kg	<0.0059	<0.0060	<0.0034	<0.0042	<0.0038	<0.0031	<0.0032	<0.0038	<0.0030	<0.0027	<0.0036	<0.0046	<0.0043	<0.0028	<0.0028	<0.0031	<0.0044	<0.0044	<0.0038	<0.0044	<0.0041	<0.0041	<0.0041	<0.0032
2-Butanone	mg/kg	<0.0117	<0.0120	<0.0069	<0.0084	<0.0075	<0.0062	<0.0064	<0.0077	<0.0060	<0.0053	<0.0071	<0.0092	<0.0086	<0.0056	<0.0057	<0.0062	<0.0087	<0.0087	<0.0076	<0.0088	<0.0081	<0.0081	<0.0083	<0.0065
2-Chlorotoluene	mg/kg	<0.0059	<0.0060	<0.0034	<0.0042	<0.0038	<0.0031	<0.0032	<0.0038	<0.0030	<0.0027	<0.0036	<0.0046	<0.0043	<0.0028	<0.0028	<0.0031	<0.0044	<0.0044	<0.0038	<0.0044	<0.0041	<0.0041	<0.0041	<0.0032
2-Hexanone	mg/kg	<0.0117	<0.0120	<0.0069	<0.0084	<0.0075	<0.0062	<0.0064	<0.0077	<0.0060	<0.0053	<0.0071	<0.0092	<0.0086	<0.0056	<0.0057	<0.0062	<0.0087	<0.0087	<0.0076	<0.0088	<0.0081	<0.0081	<0.0083	<0.0065
4-Chlorotoluene	mg/kg	<0.0059	<0.0060	<0.0034	<0.0042	<0.0038	<0.0031	<0.0032	<0.0038	<0.0030	<0.0027	<0.0036	<0.0046	<0.0043	<0.0028	<0.0028	<0.0031	<0.0044	<0.0044	<0.0038	<0.0044	<0.0041	<0.0041	<0.0041	<0.0032
4-Isopropyltoluene	mg/kg	<0.0059	<0.0060	<0.0034	<0.0042	<0.0038	<0.0031	<0.0032	<0.0038	<0.0030	<0.0027	<0.0036	0.0155	0.0482	<0.0028	<0.0028	<0.0031	<0.0044	<0.0044	<0.0038	<0.0044	<0.0041	<0.0041	<0.0041	<0.0032
4-Methyl-2-Pentanone	mg/kg	<0.0117	<0.0120	<0.0069	<0.0084	<0.0075	<0.0062	<0.0064	<0.0077	<0.0060	<0.0053	<0.0071	<0.0092	<0.0086	<0.0056	<0.0057	<0.0062	<0.0087	<0.0087	<0.0076	<0.0088	<0.0081	<0.0081	<0.0083	<0.0065
Acetone	mg/kg	<0.0117	<0.0120	<0.0069	<0.0084	<0.0075	<0.0062	<0.0064	<0.0077	<0.0060	<0.0053	0.0319	0.0468	<0.0086	0.0112	<0.0057	<0.0062	<0.0087	0.0393	<0.0076	<0.0088	<0.0081	<0.0081	<0.0083	<0.0065
Benzene	mg/kg	<0.0059	<0.0060	<0.0034	<0.0042	<0.0038	<0.0031	<0.0032	<0.0038	<0.0030	<0.0027	<0.0036	<0.0046	<0.0043	<0.0028	<0.0028	<0.0031	<0.0044	<0.0044	<0.0038	<0.0044	<0.0041	<0.0041	<0.0041	<0.0032
Bromobenzene	mg/kg	<0.0059	<0.0060	<0.0034	<0.0042	<0.0038	<0.0031	<0.0032	<0.0038	<0.0030	<0.0027	<0.0036	<0.0046	<0.0043	<0.0028	<0.0028	<0.0031	<0.0044	<0.0044	<0.0038	<0.0044	<0.0041	<0.0041	<0.0041	<0.0032
Bromochloromethane	mg/kg	<0.0059	<0.0060	<0.0034	<0.0042	<0.0038	<0.0031	<0.0032	<0.0038	<0.0030	<0.0027	<0.0036	<0.0046	<0.0043	<0.0028	<0.0028	<0.0031	<0.0044	<0.0044	<0.0038	<0.0044	<0.0041	<0.0041	<0.0041	<0.0032
Bromodichloromethane	mg/kg	<0.0059	<0.0060	<0.0034	<0.0042	<0.0038	<0.0031	<0.0032	<0.0038	<0.0030	<0.0027	<0.0036	<0.0046	<0.0043	<0.0028	<0.0028	<0.0031	<0.0044	<0.0044	<0.0038	<0.0044	<0.0041	<0.0041	<0.0041	<0.0032
Bromoform	mg/kg	<0.0059	<0.0060	<0.0034	<0.0042	<0.0038	<0.0031	<0.0032	<0.0038	<0.0030	<0.0027	<0.0036	<0.0046	<0.0043	<0.0028	<0.0028	<0.0031	<0.0044	<0.0044	<0.0038	<0.0044	<0.0041	<0.0041	<0.0041	<0.0032
Bromomethane	mg/kg	<0.0117	<0.0120	<0.0069	<0.0084	<0.0075	<0.0062	<0.0064	<0.0077	<0.0060	<0.0053	<0.0071	<0.0092	<0.0086	<0.0056	<0.0057	<0.0062	<0.0087	<0.0087	<0.0076	<0.0088	<0.0081	<0.0081	<0.0083	<0.0065
Carbon Disulfide	mg/kg	<0.0059	<0.0060	<0.0034	<0.0042	<0.0038	<0.0031	<0.0032	<0.0038	<0.0030	<0.0027	<0.0036	<0.0046	<0.0043	<0.0028	<0.0028	<0.0031	<0.0044	<0.0044	<0.0038	<0.0044	<0.0041	<0.0041	<0.0041	<0.0032
Carbon Tetrachloride	mg/kg	<0.0059	<0.0060	<0.0034	<0.0042	<0.0038	<0.0031	<0.0032	<0.0038	<0.0030	<0.0027	<0.0036	<0.0046	<0.0043	<0.0028	<0.0028	<0.0031	<0.0044	<0.0044	<0.0038	<0.0044	<0.0041	<0.0041	<0.0041	<0.0032
Chlorobenzene	mg/kg	<0.0059	<0.0060	<0.0034	<0.0042	<0.0038	<0.0031	<0.0032	<0.0038	<0.0030	<0.0027	<0.0036	<0.0046	<0.0043	<0.0028	<0.0028	<0.0031	<0.0044	<0.0044	<0.0038	<0.0044	<0.0041	<0.0041	<0.0041	<0.0032
Chloroethane	mg/kg	<0.0117	<0.0120	<0.0069	<0.0084	<0.0075	<0.0062	<0.0064	<0.0077	<0.0060	<0.0053	<0.0071	<0.0092	<0.0086	<0.0056	<0.0057	<0.0062	<0.0087	<0.0087	<0.0076	<0.0088	<0.0081	<0.0081	<0.0083	<0.0065
Chloroform	mg/kg	<0.0059	<0.0060	<0.0034	<0.0042	<0.0038	<0.0031	<0.0032	<0.0038	<0.0030	<0.0027	<0.0036	<0.0046	<0.0043	<0.0028	<0.0028	<0.0031	<0.0044	<0.0044	<0.0038	<0.0044	<0.0041	<0.0041	<0.0041	<0.0032
Chloromethane	mg/kg	<0.0117	<0.0120	<0.0069	<0.0084	<0.0075	<0.0062	<0.0064	<0.0077	<0.0060	<0.0053	<0.0071	<0.0092	<0.0086	<0.0056	<0.0057	<0.0062	<0.0087	<0.0087	<0.0076	<0.0088	<0.0081	<0.0081	<0.0083	<0.0065
cis-1,2-Dichloroethene	mg/kg	<0.0059	<0.0060	<0.0034	<0.0042	<0.0038	<0.0031	<0.0032	<0.0038	<0.0030	<0.0027	<0.0036	<0.0046	<0.0043	<0.0028	<0.0028	<0.0031	<0.0044	<0.0044	<0.0038	<0.0044	<0.0041	<0.0041	<0.0041	<0.0032
cis-1,3-Dichloropropene	mg/kg	<0.0059	<0.0060	<0.0034	<0.0042	<0.0038	<0.0031	<0.0032	<0.0038	<0.0030	<0.0027	<0.0036	<0.0046	<0.0043	<0.0028	<0.0028	<0.0031	<0.0044	<0.0044	<0.0038	<0.0044	<0.0041	<0.0041	<0.0041	<0.0032
Dibromochloromethane	mg/kg	<0.0023	<0.0024	<0.0014	<0.0017	<0.0015	<0.0012	<0.0013	<0.0015	<0.0012	<0.0011	<0.0014	<0.0018	<0.0017	<0.0011	<0.0011	<0.0012	<0.0017	<0.0017	<0.0015	<0.0018	<0.0016	<0.0016	<0.0017	<0.0013
Dibromomethane	mg/kg	<0.0059	<0.0060	<0.0034	<0.0042	<0.0038	<0.0031	<0.0032	<0.0038	<0.0030	<0.0027	<0.0036	<0.0046	<0.0043	<0.0028	<0.0028	<0.0031	<0.0044	<0.0044	<0.0038	<0.0044	<0.0041	<0.0041	<0.0041	<0.0032
Dichlorodifluoromethane	mg/kg	<0.0117	<0.0120	<0.0069	<0.0084	<0.0075	<0.0062	<0.0064	<0.0077	<0.0060	<0.0053	<0.0071	<0.0092	<0.0086	<0.0056	<0.0057	<0.0062	<0.0087	<0.0087	<0.0076	<0.0088	<0.0081	<0.0081	<0.0083	<0.0065
Diethyl Ether	mg/kg	<0.0059	<0.0060	<0.0034	<0.0042	<0.0038	<0.0031	<0.0032	<0.0038	<0.0030	<0.0027	<0.0036	<0.0046	<0.0043	<0.0028	<0.0028	<0.0031	<0.0044	<0.0044	<0.0038	<0.0044	<0.0041	<0.0041	<0.0041	<0.0032
Di-isopropyl ether	mg/kg	<0.0059	<0.0060	<0.0034	<0.0042	<0.0038	<0.0031	<0.0032	<0.0038	<0.0030	<0.0027	<0.0036	<0.0046	<0.0043	<0.0028	<0.0028	<0.0031	<0.0044	<0.0044	<0.0038	<0.0044	<0.0041	<0.0041	<0.0041	<0.0032
Ethyl tertiary-butyl ether	mg/kg	<0.0059	<0.0060	<0.0034	<0.0042	<0.0038	<0.0031	<0.0032	<0.0038	<0.0030	<0.0027	<0.0036	<0.0046	<0.0043	<0.0028	<0.0028	<0.0031	<0.0044	<0.0044	<0.0038	<0.0044	<0.0041	<0.0041	<0.0041	<0.0032
Ethylbenzene	mg/kg	<0.0059	<0.0060	<0.0034	<0.0042	<0.0038	<0.0031	<0.0032	<0.0038	<0.0030	<0.0027	<0.0036	<0.0046	<0.0043	<0.0028	<0.0028	<0.0031	<0.0044	<0.0044	<0.0038	<0.0044	<0.0041	<0.0041	<0.0041	<0.0032
Hexachlorobutadiene	mg/kg	<0.0059	<0.0060	<0.0034	<0.0042	<0.0038	<0.0031	<0.0032	<0.0038	<0.0030	<0.0027	<0.0036	<0.0046	<0.0043	<0.0028	<0.0028	<0.0031	<0.0044	<0.0044	<0.0038	<0.0044	<0.0041	<0.0041	<0.0041	<0.0032
Isopropylbenzene	mg/kg	<0.0059	<0.0060	<0.0034	<0.0042	<0.0038	<0.0031	<0.0032	<0.0038	<0.0030	<0.0027	<0.0036	<0.0046	<0.0043	<0.0028	<0.0028	<0.0031	<0.0044	<0.0044	<0.0038	<0.0044	<0.0041	<0.0041	<0.0041	<0.0032
Methyl tert-Butyl Ether	mg/kg	<0.0059	<0.0060	<0.0034	<0.0042	<0.0038	<0.0031	<0.0032	<0.0038	<0.0030	<0.0027	<0.0036	<0.0046	<0.0043	<0.0028	<0.0028	<0.0031	<0.0044	<0.0044	<0.0038	<0.0044	<0.0041	<0.0041	<0.0041	<0.0032
Methylene Chloride	mg/kg	<0.0117	<0.0120	<0.0069	<0.0084	<0.0075	<0.0062	<0.0064	<0.0077	<0.0060	<0.0053	<0.0071	<0.0092	<0.0086	<0.0056	<0.0057	<0.0062	<0.0087	<0.0087	<0.0076	<0.0088	<0.0081	<0.0081	<0.0083	<0.0065
Naphthalene	mg/kg	<0.0059	<0.0060	<0.0034	<0.0042	<0.0038	<0.0031	<0.0032	0.0095	<0.0030	<0.0027	<0.0036	<0.0046	<0.0043	<0.0028	<0.0028	<0.0031	<0.0044	0.0169	<0.0038	<0.0044	<0.0041	<0.0041	<0.0041	<0.0032
n-Butylbenzene	mg/kg	<0.0059	<0.0060	<0.0034	<0.0042	<0.0038	<0.0031	<0.0032	<0.0038	<0.0030	<0.0027	<0.0036	<0.0046	<0.0043	<0.0028	<0.0028	<0.0031	<0.0044	<0.0044	<0.0038	<0.0044	<0.0041	<0.0041	<0.0041	<0.0032
n-Propylbenzene	mg/kg	<0.0059	<0.0060	<0.0034	<0.0042	<0.0038	<0.0031	<0.0032	<0.0038	<0.0030	<0.0027	<0.0036	<0.0046	<0.0043	<0.0028	<0.0028	<0.0031	<0.0044	<0.0044	<0.0038	<0.0044	<0.0041	<0.0041	<0.0041	<0.0032
sec-Butylbenzene	mg/kg	<0.0059	<0.0060	<0.0034	<0.0042	<0.0038	<0.0031	<0.0032	<0.0038	<0.0030	<0.0027	<0.0036	<0.0046	<0.0043	<0.0028	<0.0028	<0.0031	<0.0044	<0.0044	<0.0038	<0.0044	<0.0041	<0.0041	<0.0041	<0.0032

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	A04 A04S02BS04A 1503023 Fill 3.3 - 6.6 3/2/2015	A04 A04S05 1503023 Natural Clay 9 - 11 3/2/2015	A04 A04S06 1503045 Natural Clay 14 - 16 3/3/2015	A04 A04S07 1503045 Natural Clay 19 - 21 3/3/2015	A04 A04S08 1503045 Natural Clay 24 - 26 3/3/2015	A04 A04S09 1503045 Natural Clay 29 - 31 3/3/2015	A04 A04S10S11 1503045 Natural Clay 34 - 38 3/3/2015	A05 A05S01S02A 1503045 Fill 0 - 3.3 3/3/2015	A05 A05S02BS04A 1503045 Fill 3.3 - 6.6 3/3/2015	A05 A05S04B 1503045 Fill 6.6 - 8 3/3/2015	A05 A05S05 1503045 Natural Clay 9 - 11 3/3/2015	A05 A05S06 1503045 Natural Clay 14 - 16 3/3/2015	A05 A05S07 1503045 Natural Clay 19 - 21 3/3/2015	A05 A05S08 1503045 Natural Clay 24 - 26 3/3/2015	A05 A05S09 1503045 Natural Clay 29 - 31 3/3/2015	A05 A05S10S11 1503045 Natural Sand/Gravel 34 - 38 3/3/2015	A06 GZ024S01S02A 1503096 Fill 0 - 3.3 3/5/2015	A06 GZ024S02BS04A 1503096 Fill 3.3 - 6.6 3/5/2015	A06 GZ024S04BS05 1503096 Fill 6.6 - 10 3/5/2015	A06 GZ024S06A 1503096 Fill 10 - 11.3 3/5/2015	A06 GZ024S07 1503111 Natural Clay 14 - 16 3/6/2015	A06 GZ024S08 1503111 Natural Clay 19 - 21 3/6/2015	A06 GZ024S09 1503111 Natural Clay 24 - 26 3/6/2015	A06 GZ024S10 1503111 Natural Clay 29 - 31 3/6/2015
Preliminary Disposal Facility Category		Hazardous Material Type A	MCP Restricted	MCP Regulated Type B-1	MCP Restricted	MCP Restricted	MCP Restricted	MCP Restricted	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Uncontaminated	Uncontaminated	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type B-1	MCP Restricted	MCP Restricted	Uncontaminated
Styrene	mg/kg	<0.0059	<0.0060	<0.0034	<0.0042	<0.0038	<0.0031	<0.0032	<0.0038	<0.0030	<0.0027	<0.0036	<0.0046	<0.0043	<0.0028	<0.0028	<0.0031	<0.0044	<0.0044	<0.0038	<0.0044	<0.0041	<0.0041	<0.0041	<0.0032
tert-Butylbenzene	mg/kg	<0.0059	<0.0060	<0.0034	<0.0042	<0.0038	<0.0031	<0.0032	<0.0038	<0.0030	<0.0027	<0.0036	<0.0046	<0.0043	<0.0028	<0.0028	<0.0031	<0.0044	<0.0044	<0.0038	<0.0044	<0.0041	<0.0041	<0.0041	<0.0032
Tertiary-amyl methyl ether	mg/kg	<0.0059	<0.0060	<0.0034	<0.0042	<0.0038	<0.0031	<0.0032	<0.0038	<0.0030	<0.0027	<0.0036	<0.0046	<0.0043	<0.0028	<0.0028	<0.0031	<0.0044	<0.0044	<0.0038	<0.0044	<0.0041	<0.0041	<0.0041	<0.0032
Tetrachloroethene	mg/kg	<0.0059	<0.0060	<0.0034	<0.0042	<0.0038	<0.0031	<0.0032	<0.0038	<0.0030	<0.0027	<0.0036	<0.0046	<0.0043	<0.0028	<0.0028	<0.0031	<0.0044	<0.0044	<0.0038	<0.0044	<0.0041	<0.0041	<0.0041	<0.0032
Tetrahydrofuran	mg/kg	<0.0059	<0.0060	<0.0034	<0.0042	<0.0038	<0.0031	<0.0032	<0.0038	<0.0030	<0.0027	<0.0036	<0.0046	<0.0043	<0.0028	<0.0028	<0.0031	<0.0044	<0.0044	<0.0038	<0.0044	<0.0041	<0.0041	<0.0041	<0.0032
Toluene	mg/kg	<0.0059	<0.0060	<0.0034	<0.0042	<0.0038	<0.0031	<0.0032	<0.0038	<0.0030	<0.0027	<0.0036	<0.0046	<0.0043	<0.0028	<0.0028	<0.0031	<0.0044	<0.0044	<0.0038	<0.0044	<0.0041	<0.0041	<0.0041	<0.0032
trans-1,2-Dichloroethene	mg/kg	<0.0059	<0.0060	<0.0034	<0.0042	<0.0038	<0.0031	<0.0032	<0.0038	<0.0030	<0.0027	<0.0036	<0.0046	<0.0043	<0.0028	<0.0028	<0.0031	<0.0044	<0.0044	<0.0038	<0.0044	<0.0041	<0.0041	<0.0041	<0.0032
trans-1,3-Dichloropropene	mg/kg	<0.0059	<0.0060	<0.0034	<0.0042	<0.0038	<0.0031	<0.0032	<0.0038	<0.0030	<0.0027	<0.0036	<0.0046	<0.0043	<0.0028	<0.0028	<0.0031	<0.0044	<0.0044	<0.0038	<0.0044	<0.0041	<0.0041	<0.0041	<0.0032
Trichloroethene	mg/kg	<0.0059	<0.0060	<0.0034	<0.0042	<0.0038	<0.0031	<0.0032	<0.0038	<0.0030	<0.0027	<0.0036	<0.0046	<0.0043	<0.0028	<0.0028	<0.0031	<0.0044	<0.0044	<0.0038	<0.0044	<0.0041	<0.0041	<0.0041	<0.0032
Trichlorofluoromethane	mg/kg	<0.0059	<0.0060	<0.0034	<0.0042	<0.0038	<0.0031	<0.0032	<0.0038	<0.0030	<0.0027	<0.0036	<0.0046	<0.0043	<0.0028	<0.0028	<0.0031	<0.0044	<0.0044	<0.0038	<0.0044	<0.0041	<0.0041	<0.0041	<0.0032
Vinyl Chloride	mg/kg	<0.0117	<0.0120	<0.0069	<0.0084	<0.0075	<0.0062	<0.0064	<0.0077	<0.0060	<0.0053	<0.0071	<0.0092	<0.0086	<0.0056	<0.0057	<0.0062	<0.0087	<0.0087	<0.0076	<0.0088	<0.0081	<0.0081	<0.0083	<0.0065
Xylene O	mg/kg	<0.0059	<0.0060	<0.0034	<0.0042	<0.0038	<0.0031	<0.0032	<0.0038	<0.0030	<0.0027	<0.0036	<0.0046	<0.0043	<0.0028	<0.0028	<0.0031	<0.0044	<0.0044	<0.0038	<0.0044	<0.0041	<0.0041	<0.0041	<0.0032
Xylene P,M	mg/kg	<0.0117	<0.0120	<0.0069	<0.0084	<0.0075	<0.0062	<0.0064	<0.0077	<0.0060	<0.0053	<0.0071	<0.0092	<0.0086	<0.0056	<0.0057	<0.0062	<0.0087	<0.0087	<0.0076	<0.0088	<0.0081	<0.0081	<0.0083	<0.0065
Xylenes (Total)	mg/kg	<0.0117	<0.0120	<0.0069	<0.0084	<0.0075	<0.0062	<0.0064	<0.0077	<0.0060	<0.0053	<0.0071	<0.0092	<0.0086	<0.0056	<0.0057	<0.0062	<0.0087	<0.0087	<0.0076	<0.0088	<0.0081	<0.0081	<0.0083	<0.0065
Total VOCs (Low Level)	mg/kg	ND	ND	ND	ND	ND	ND	ND	0.0095	ND	ND	0.0319	0.0623	0.0482	0.0112	ND	ND	ND	0.0562	ND	ND	ND	ND	ND	ND
Semi-Volatile Organic Compounds																									
1,2,4-Trichlorobenzene	mg/kg	<1.18	<1.05	<1.06	<1.09	<1.11	<0.960	<0.958	<1.69	<1.00	<0.952	<1.03	<1.07	<1.09	<1.01	<0.940	<0.914	<0.901	<0.990	<0.950	<1.02	<1.09	<1.12	<1.02	<0.878
1,2-Dichlorobenzene	mg/kg	<1.18	<1.05	<1.06	<1.09	<1.11	<0.960	<0.958	<1.69	<1.00	<0.952	<1.03	<1.07	<1.09	<1.01	<0.940	<0.914	<0.901	<0.990	<0.950	<1.02	<1.09	<1.12	<1.02	<0.878
1,3-Dichlorobenzene	mg/kg	<1.18	<1.05	<1.06	<1.09	<1.11	<0.960	<0.958	<1.69	<1.00	<0.952	<1.03	<1.07	<1.09	<1.01	<0.940	<0.914	<0.901	<0.990	<0.950	<1.02	<1.09	<1.12	<1.02	<0.878
1,4-Dichlorobenzene	mg/kg	<0.590	<0.526	<0.529	<0.544	<0.559	<0.481	<0.481	<0.846	<0.503	<0.477	<0.518	<0.536	<0.547	<0.507	<0.471	<0.459	<0.452	<0.497	<0.476	<0.513	<0.547	<0.563	<0.512	<0.440
2,4,5-Trichlorophenol	mg/kg	<1.18	<1.05	<1.06	<1.09	<1.11	<0.960	<0.958	<1.69	<1.00	<0.952	<1.03	<1.07	<1.09	<1.01	<0.940	<0.914	<0.901	<0.990	<0.950	<1.02	<1.09	<1.12	<1.02	<0.878
2,4,6-Trichlorophenol	mg/kg	<1.18	<1.05	<1.06	<1.09	<1.11	<0.960	<0.958	<1.69	<1.00	<0.952	<1.03	<1.07	<1.09	<1.01	<0.940	<0.914	<0.901	<0.990	<0.950	<1.02	<1.09	<1.12	<1.02	<0.878
2,4-Dichlorophenol	mg/kg	<1.18	<1.05	<1.06	<1.09	<1.11	<0.960	<0.958	<1.69	<1.00	<0.952	<1.03	<1.07	<1.09	<1.01	<0.940	<0.914	<0.901	<0.990	<0.950	<1.02	<1.09	<1.12	<1.02	<0.878
2,4-Dimethylphenol	mg/kg	<1.18	<1.05	<1.06	<1.09	<1.11	<0.960	<0.958	<1.69	<1.00	<0.952	<1.03	<1.07	<1.09	<1.01	<0.940	<0.914	<0.901	<0.990	<0.950	<1.02	<1.09	<1.12	<1.02	<0.878
2,4-Dinitrophenol	mg/kg	<5.90	<5.26	<5.29	<5.44	<5.59	<4.81	<4.81	<8.46	<5.03	<4.77	<5.18	<5.36	<5.47	<5.07	<4.71	<4.59	<4.52	<4.97	<4.76	<5.13	<5.47	<5.63	<5.12	<4.40
2,4-Dinitrotoluene	mg/kg	<1.18	<1.05	<1.06	<1.09	<1.11	<0.960	<0.958	<1.69	<1.00	<0.952	<1.03	<1.07	<1.09	<1.01	<0.940	<0.914	<0.901	<0.990	<0.950	<1.02	<1.09	<1.12	<1.02	<0.878
2,6-Dinitrotoluene	mg/kg	<1.18	<1.05	<1.06	<1.09	<1.11	<0.960	<0.958	<1.69	<1.00	<0.952	<1.03	<1.07	<1.09	<1.01	<0.940	<0.914	<0.901	<0.990	<0.950	<1.02	<1.09	<1.12	<1.02	<0.878
2-Chloronaphthalene	mg/kg	<1.18	<1.05	<1.06	<1.09	<1.11	<0.960	<0.958	<1.69	<1.00	<0.952	<1.03	<1.07	<1.09	<1.01	<0.940	<0.914	<0.901	<0.990	<0.950	<1.02	<1.09	<1.12	<1.02	<0.878
2-Chlorophenol	mg/kg	<1.18	<1.05	<1.06	<1.09	<1.11	<0.960	<0.958	<1.69	<1.00	<0.952	<1.03	<1.07	<1.09	<1.01	<0.940	<0.914	<0.901	<0.990	<0.950	<1.02	<1.09	<1.12	<1.02	<0.878
2-Methylnaphthalene	mg/kg	<1.18	<1.05	<1.06	<1.09	<1.11	<0.960	<0.958	<1.69	<1.00	<0.952	<1.03	<1.07	<1.09	<1.01	<0.940	<0.914	<0.901	<0.990	<0.950	<1.02	<1.09	<1.12	<1.02	<0.878
2-Methylphenol	mg/kg	<1.18	<1.05	<1.06	<1.09	<1.11	<0.960	<0.958	<1.69	<1.00	<0.952	<1.03	<1.07	<1.09	<1.01	<0.940	<0.914	<0.901	<0.990	<0.950	<1.02	<1.09	<1.12	<1.02	<0.878
2-Nitrophenol	mg/kg	<1.18	<1.05	<1.06	<1.09	<1.11	<0.960	<0.958	<1.69	<1.00	<0.952	<1.03	<1.07	<1.09	<1.01	<0.940	<0.914	<0.901	<0.990	<0.950	<1.02	<1.09	<1.12	<1.02	<0.878
3,3´-Dichlorobenzidine	mg/kg	<2.36	<2.10	<2.11	<2.17	<2.23	<1.92	<1.92	<3.38	<2.01	<1.91	<2.07	<2.14	<2.19	<2.02	<1.88	<1.83	<1.81	<1.98	<1.90	<2.05	<2.19	<2.25	<2.04	<1.76
3+4-Methylphenol	mg/kg	<2.36	<2.10	<2.11	<2.17	<2.23	<1.92	<1.92	<3.38	<2.01	<1.91	<2.07	<2.14	<2.19	<2.02	<1.88	<1.83	<1.81	<1.98	<1.90	<2.05	<2.19	<2.25	<2.04	<1.76
4-Bromophenyl-phenylether	mg/kg	<1.18	<1.05	<1.06	<1.09	<1.11	<0.960	<0.958	<1.69	<1.00	<0.952	<1.03	<1.07	<1.09	<1.01	<0.940	<0.914	<0.901	<0.990	<0.950	<1.02	<1.09	<1.12	<1.02	<0.878
4-Chloroaniline	mg/kg	<2.36	<2.10	<2.11	<2.17	<2.23	<1.92	<1.92	<3.38	<2.01	<1.91	<2.07	<2.14	<2.19	<2.02	<1.88	<1.83	<1.81	<1.98	<1.90	<2.05	<2.19	<2.25	<2.04	<1.76
4-Nitrophenol	mg/kg	<5.90	<5.26	<5.29	<5.44	<5.59	<4.81	<4.81	<8.46	<5.03	<4.77	<5.18	<5.36	<5.47	<5.07	<4.71	<4.59	<4.52	<4.97	<4.76	<5.13	<5.47	<5.63	<5.12	<4.40
Acenaphthene	mg/kg	<1.18	<1.05	<1.06	<1.09	<1.11	<0.960	<0.958	<1.69	<1.00	<0.952	<1.03	<1.07	<1.09	<1.01	<0.940	<0.914	<0.901	<0.990	<0.950	<1.02	<1.09	<1.12	<1.02	<0.878
Acenaphthylene	mg/kg	<1.18	<1.05	<1.06	<1.09	<1.11	<0.960	<0.958	<1.69	<1.00	<0.952	<1.03	<1.07	<1.09	<1.01	<0.940	<0.914	<0.901	<0.990	<0.950	<1.02	<1.09	<1.12	<1.02	<0.878
Acetophenone	mg/kg	<2.36	<2.10	<2.11	<2.17	<2.23	<1.92	<1.92	<3.38	<2.01	<1.91	<2.07	<2.14	<2.19	<2.02	<1.88	<1.83	<1.81	<1.98	<1.90	<2.05	<2.19	<2.25	<2.04	<1.76
Aniline	mg/kg	<5.90	<5.26	<5.29	<5.44	<5.59	<4.81	<4.81	<8.46	<5.03	<4.77	<5.18	<5.36	<5.47	<5.07	<4.71	<4.59	<4.52	<4.97	<4.76	<5.13	<5.47	<5.63	<5.12	<4.40
Anthracene	mg/kg	<1.18	<1.05	<1.06	<1.09	<1.11	<0.960	<0.958	<1.69	<1.00	<0.952	<1.03	<1.07	<1.09	<1.01	<0.940	<0.914	<0.901	1.44	<0.950	<1.02	<1.09	<1.12	<1.02	<0.878
Azobenzene	mg/kg	<1.18	<1.05	<1.06	<1.09	<1.11	<0.960	<0.958	<1.69	<1.00	<0.952	<1.03	<1.07	<1.09	<1.01	<0.940	<0.914	<0.901	<0.990	<0.950	<1.02	<1.09	<1.12	<1.02	<0.878
Benzo(a)anthracene	mg/kg	4.9	<1.05	<1.06	<1.09	<1.11	<0.960	<0.958	3.57	<1.00	<0.952	<1.03	<1.07	<1.09	<1.01	<0.940	<0.914	2.44	2.91	<0.950	<1.02	<1.09	<1.12	<1.02	<0.878
Benzo(a)pyrene	mg/kg	4.54	<0.526	<0.529	<0.544	<0.559	<0.481	<0.481	3.29	1.02	<0.477	<0.518	<0.536	<0.547	<0.507	<0.471	<0.459	2.12	2.37	<0.476	<0.513	<0.547	<0.563	<0.512	<0.440
Benzo(b)fluoranthene	mg/kg	3.85	<1.05	<1.06	<1.09	<1.11	<0.960	<0.958	4.41	<1.00	<0.952	<1.03	<1.07	<1.09	<1.01	<0.940	<0.914	2.36	3.14	<0.950	<1.02	<1.09	<1.12	<1.02	<0.878
Benzo(g,h,i)perylene	mg/kg	2.29	<1.05	<1.06	<1.09	<1.11	<0.960	<0.958	<1.69	<1.00	<0.952	<1.03	<1.07	<1.09	<1.01	<0.940	<0.914	<0.901	1.39	<0.950	<1.02	<1.09	<1.12	<1.02	<0.878
Benzo(k)fluoranthene	mg/kg	4.25	<1.05	<1.06	<1.09	<1.11	<0.960	<0.958	2.57	1.07	<0.952	<1.03	<1.07	<1.09	<1.01	<0.940	<0.914	2.19	1.16	<0.950	<1.02	<1.09	<1.12	<1.02	<0.878
bis(2-Chloroethoxy)methane	mg/kg	<1.18	<1.05	<1.06	<1.09	<1.11	<0.960	<0.958	<1.69	<1.00	<0.952	<1.03	<1.07	<1.09	<1.01	<0.940	<0.914	<0.901	<0.990	<0.950	<1.02	<1.09	<1.12	<1.02	<0.878
bis(2-Chloroethyl)ether	mg/kg	<0.590	<0.526	<0.529	<0.544	<0.559	<0.481	<0.481	<0.846	<0.503	<0.477	<0.518	<0.536	<0.547	<0.507	<0.471	<0.459	<0.452	<0.497	<0.476	<0.513	<0.547	<0.563	<0.512	<0.440
bis(2-chloroisopropyl)Ether	mg/kg	<0.590	<0.526	<0.529	<0.544	<0.559	<0.481	<0.481	<0.846	<0.503	<0.477	<0.518	<0.536	<0.547	<0.507	<0.471	<0.459	<0.452	<0.497	<0.476	<0.513	<0.547	<0.563	<0.512	<0.440
bis(2-Ethylhexyl)phthalate	mg/kg	<1.18	<1.05	<1.06	<1.09	<1.11	<0.960	<0.958	<1.69	<1.00	<0.952	<1.03	<1.07	<1.09	<1.01	<0.940	<0.914	<0.901	<0.990	<0.950	<1.02	<1.09	<1.12	<1.02	<0.878
Butylbenzylphthalate	mg/kg	<1.18	<1.05	<1.06	<1.09	<1.11	<0.960	<0.958	<1.69	<1.00	<0.952	<1.03	<1.07	<1.09	<1.01	<0.940	<0.914	<0.901	<0.990	<0.950	<1.02	<1.09	<1.12	<1.02	<0.878
Chrysene	mg/kg	5.17	<0.526	<0.529	<0.544	<0.559	<0.481	<0.481	2.98	0.99	<0.477	<0.518	<0.536	<0.547	<0.507	<0.471	<0.459	2.03	2.72	<0.476	<0.513	<0.547	<0.563	<0.512	<0.440
Dibenzo(a,h)Anthracene	mg/kg	1.35	<0.526	<0.529	<0.544	<0.559	<0.481	<0.481	<0.846	<0.503	<0.477	<0.518	<0.536	<0.547	<0.507	<0.471	<0.459	0.523	0.81	<0.476	<0.513	<0.547	<0.563	<0.512	<0.440
Dibenzofuran	mg/kg	<1.18	<1.05	<1.06	<1.09	<1.11	<0.960	<0.958	<1.69	<1.00	<0.952	<1.03	<1.07	<1.09	<1.01	<0.940	<0.914	<0.901	<0.990	<0.950	<1.02	<1.09	<1.12	<1.02	<0.878
Diethylphthalate	mg/kg	<1.18	<1.05	<1.06	<1.09	<1.11	<0.960	<0.958	<1.69	<1.00	<0.952	<1.03	<1.07	<1.09	<1.01	<0.940	<0.914	<0.901	<0.990	<0.950	<1.02	<1.09	<1.12	<1.02	<0.878
Dimethylphthalate	mg/kg	<1.18	<1.05	<1.06	<1.09	<1.11	<0.960	<0.958	<1.69	<1.00	<0.952	<1.03	<1.07	<1.09	<1.01	<0.940	<0.914	<0.901	<0.990	<0.950	<1.02	<1.09	<1.12	<1.02	<0.878
Di-n-butylphthalate	mg/kg	<1.18	<1.05	<1.06	<1.09	<1.11	<0.960	<0.958	<1.69	<1.00	<0.952	<1.03	<1.07	<1.09	<1.01	<0.940	<0.914	<0.901	<0.990	<0.950	<1.02	<1.09	<1.12	<1.02	<0.878
Di-n-octylphthalate	mg/kg	<1.18	<1.05	<1.06	<1.09	<1.11	<0.960	<0.958	<1.69	<1.00	<0.952	<1.03	<1.07	<1.09	<1.01	<0.940	<0.914	<0.901	<0.990	<0.950	<1.02	<1.09	<1.12	<1.02	<0.878
Fluoranthene	mg/kg	8.1	<1.05	<1.06	<1.09	<1.11	<0.960	<0.958	7.6	1.11	<0.952	<1.03	<1.07	<1.09	<1.01	<0.940	<0.914	5.51	6.18	<0.950	<1.02	<1.09	<1.12	<1.02	<0.878
Fluorene	mg/kg	<1.18	<1.05	<1.06	<1.09	<1.11	<0.960	<0.958	<1.69	<1.00	<0.952	<1.03	<1.07	<1.09	<1.01	<0.940	<0.914	<0.901	<0.990	<0.950	<1.02	<1.09	<1.12	<1.02	<0.878
Hexachlorobenzene	mg/kg	<0.590	<0.526	<0.529	<0.544	<0.559	<0.481	<0.481	<0.846	<0.503	<0.477	<0.518	<0.536	<0.547	<0.507	<0.471	<0.459	<0.452	<0.497	<0.476	<0.513	<0.547	<0.563	<0.512	<0.440
Hexachlorobutadiene	mg/kg	<1.18	<1.05	<1.06	<1.09	<1.11	<0.960	<0.958	<1.69	<1.00	<0.952	<1.03	<1.07	<1.09	<1.01	<0.940	<0.914	<0.901	<0.990	<0.950	<1.02	<1.09	<1.12	<1.02	<0.878
Hexachloroethane	mg/kg	<1.18	<1.05	<1.06	<1.09	<1.11	<0.960	<0.958	<1.69	<1.00	<0.952	<1.03	<1.07	<1.09	<1.01	<0.940	<0.914	<0.901	<0.990	<0.950	<1.02	<1.09	<1.12	<1.02	<0.878
Indeno(1,2,3-cd)Pyrene	mg/kg	2.34	<1.05	<1.06	<1.09	<1.11	<0.960	<0.958	<1.69	<1.00	<0.952	<1.03	<1.07	<1.09	<1.01	<0.940	<0.914	<0.901	1.3	<0.950	<1.02	<1.09	<1.12	<1.02	<0.878
Isophorone	mg/kg	<1.18	<1.05	<1.06	<1.09	<1.11	<0.960	<0.958	<1.69	<1.00	<0.952	<1.03	<1.07	<1.09	<1.01	<0.940	<0.914	<0.901	<0.990	<0.950	<1.02	<1.09	<1.12	<1.02	<0.878
Naphthalene	mg/kg	<1.18	<1.05	<1.06	<1.09	<1.11	<0.960	<0.958	<1.69	<1.00	<0.952	<1.03	<1.07	<1.09	<1.01	<0.940	<0.914	<0.901	<0.990	<0.950	<1.02	<1.09	<1.12	<1.02	<0.878
Nitrobenzene	mg/kg	<1.18	<1.05	<1.06	<1.09	<1.11	<0.960	<0.958	<1.69	<1.00	<0.952	<1.03	<1.07	<1.09	<1.01	<0.940	<0.914	<0.901	<0.990	<0.950	<1.02	<1.09	<1.12	<1.02	<0.878
N-Nitrosodimethylamine	mg/kg	<1.18	<1.05	<1.06	<1.09	<1.11	<0.960	<0.958	<1.69	<1.00	<0.952	<1.03	<1.07	<1.09	<1.01	<0.940	<0.914	<0.901	<0.990	<0.950	<1.02	<1.09	<1.12	<1.02	<0.878
Pentachlorophenol	mg/kg	<5.90	<5.26	<5.29	<5.44	<5.59	<4.81	<4.81	<8.46	<5.03	<4.77	<5.18	<5.36	<5.47	<5.07	<4.71	<4.59	<4.52	<4.97	<4.76	<5.13	<5.47	<5.63	<5.12	<4.40
Phenanthrene	mg/kg	4.73	<1.05	<1.06	<1.09	<1.11	<0.960	<0.958	2.88	<1.00	<0.952	<1.03	<1.07	<1.09	<1.01	<0.940	<0.914	2.14	5.05	<0.950	<1.02	<1.09	<1.12	<1.02	<0.878
Phenol	mg/kg	<1.18	<1.05	<1.06	<1.09	<1.11	<0.960	<0.958	<1.69	<1.00	<0.952	<1.03	<1.07	<1.09	<1.01	<0.940	<0.914	<0.901	<0.990	<0.950	<1.02	<1.09	<1.12	<1.02	<0.878
Pyrene	mg/kg	5.97	<1.05	<1.06	<1.09	<1.11	<0.960	<0.958	4.12	<1.00	<0.952	<1.03	<1.07	<1.09	<1.01	<0.940	<0.914	3.03	4.48	<0.950	<1.02	<1.09	<1.12	<1.02	<0.878
Total SVOCs	mg/kg	47.49	ND	ND	ND	ND	ND	ND	31.42	4.19	ND	ND	ND	ND	ND	ND	ND	22.343	32.95	ND	ND	ND	ND	ND	ND
Classic Chemistry																									
Corrosivity (pH)	S.U.	6.85	4.12	3.95	6.82	6.99	7.05	7.46	8.06	10.2	10.1	4.39	4.76	6.87	7.32	7.53	7.53	7.62	6.57	5.71	4.96	3.95	6.58	6.79	7.34
Conductivity	umhos/cm	468	1730	4240	1830	1240	876	1160	236	303	281	807	1540	1760	668	562	462	1210	9300	538	1200	4360	1910	1430	429
Flashpoint	°F	>200	--	--	--	--	--	--	>200	>200	>200	--	--	--	--	--	--	>200	>200	>200	>200	--	--	--	--
Reactive Cyanide	mg/kg	<2.0	--	--	--	--	--	--	<2.0	<2.0	<2.0	--	--	--	--	--	--	<2.0	<2.0	<2.0	<2.0	--	--	--	--
Reactive Sulfide	mg/kg	<2.0	--	--	--	--	--	--	<2.0	<2.0	<2.0	--	--	--	--	--	--	<2.0	<2.0	<2.0	<2.0	--	--	--	--

Table 1
Soil Precharacterization Data

Wynn Resort Casino
Everett, Massachusetts

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	A06 GZ024S11 1503111 Natural Sand/Gravel 34 - 36 3/6/2015	A07 A07S01S02A 1501490 Fill 0 - 3.3 1/23/2015	A07 A07S02BS04A 1501490 Fill 3.3 - 6.6 1/23/2015	A07 A07S04BS05 1501490 Natural Sand/Gravel 6.6 - 10 1/23/2015	A07 A07S06 1501490 Natural Clay 14 - 16 1/23/2015	A07 A07S07 1501490 Natural Clay 19 - 21 1/23/2015	A07 A07S08 1501490 Natural Clay 24 - 26 1/23/2015	B01 B01S01S02A 1412149 Fill 0 - 3.3 12/8/2014	B01 B01S02BS04A 1412149 Fill 3.3 - 6.7 12/8/2014	B01 B01S04B 1412149 Fill 6.7 - 7.1 12/8/2014	B01 B01S05 1412149 Natural Clay 14 - 16 12/8/2014	B01 B01S06 1412149 Natural Clay 19 - 21 12/8/2014	B01 B01S07 1412149 Natural Clay 24 - 26 12/8/2014	B01 B01S08 1412149 Natural Clay 29 - 31 12/8/2014	B01 B01S09 1412149 Natural Clay 34 - 38 12/8/2014	B02 B02S01S02A 1412149 Fill 0 - 3.3 12/8/2014	B02 B02S02BS04A 1412149 Fill 3.3 - 6.6 12/8/2014	B02 B02S04BS05 1412149 Fill 6.6 - 10 12/8/2014	B02 B02S06 1412149 Natural Clay 14 - 16 12/8/2014	B02 B02S07 1412149 Natural Clay 19 - 21 12/8/2014	B02 B02S08 1412149 Natural Clay 24 - 26 12/8/2014	B02 B02S09 1412149 Natural Clay 29 - 31 12/8/2014	B02 B02S10 1412149 Natural Clay 34 - 38 12/8/2014	B03 B03S01S02A 1503097 Fill 0 - 3.3 3/5/2015
Preliminary Disposal Facility Category		Uncontaminated	MCP Regulated Material Type B-2	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type B-1	MCP Restricted	Uncontaminated	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type A	MCP Restricted	Hazardous Material Type A	Hazardous Material Type B	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type A	Uncontaminated	Hazardous Material Type A
RCRA 8 Metals	**Units**																									
Arsenic	mg/kg	<6.28	8.77	19.5	<6.67	8.99	14.5	<6.86	16.1	160	193	13.8	15.5	14.7	10.9	9.73	10.3	25.6	11.6	13.5	19	15.3	15	9.01	49
Barium	mg/kg	<6.28	42.3	53.4	16.7	94.7	67	39.1	81.3	292	62.2	92	92.2	83.5	59.9	58.5	33.9	58.6	103	115	106	85	92.5	45	62.4
Cadmium	mg/kg	<1.26	<1.41	<1.30	<1.33	<1.68	<1.46	<1.37	0.76	3.62	16.4	<0.49	<0.57	<0.54	<0.56	<0.48	<0.48	3.95	<0.58	<0.50	<0.59	<0.48	<0.61	<0.55	<1.50
Chromium	mg/kg	7.66	11.8	22.6	13	52.8	34.6	18.6	29.7	18.2	18.6	47.3	48.7	44.9	34.4	27.9	17.8	8.62	45	48	49	46	43.3	24.9	22.7
Lead	mg/kg	<12.6	726	120	347	<16.8	<14.6	<13.7	576	3280	693	16.8	15.4	14.3	11.6	10	126	1000	26.2	16.1	14.9	14.1	14.6	10.8	781
Selenium	mg/kg	<6.28	<7.05	<6.52	<13.3	<8.42	<7.32	<6.86	<7.60	<15.2	<14.9	<9.73	<11.4	<10.8	<5.61	<4.78	<4.79	<6.37	<5.80	<9.96	<11.7	<9.59	<6.11	<5.53	<7.52
Silver	mg/kg	<1.26	<1.41	<1.30	<1.33	<1.68	<1.46	<1.37	0.79	13.3	2.25	<0.49	<0.57	<0.54	<0.56	<0.48	0.51	2.91	<0.58	<0.50	<0.59	<0.48	<0.61	<0.55	<1.50
Mercury	mg/kg	<0.033	0.484	0.085	0.158	<0.037	<0.042	<0.029	0.578	27.1	4.42	<0.038	<0.040	<0.041	<0.035	<0.038	0.129	0.916	<0.042	<0.034	<0.044	<0.035	<0.044	<0.040	0.714
Metals by Toxicity Characteristic Leaching Procedure (TCLP)																									
Arsenic	mg/L	--	--	--	--	--	--	--	--	<0.050	0.37	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead	mg/L	--	10.8	<0.050	0.15	--	--	--	1.29	0.839	0.194	--	--	--	--	--	<0.050	11	--	--	--	--	--	--	0.763
Selenium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--	--	--	--	<0.00050	<0.00050	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Herbicides																									
2,4,5-T	mg/kg	--	<0.26	<0.055	<0.057	--	--	--	<0.053	<0.061	<0.18	--	--	--	--	--	<0.055	<0.071	--	--	--	--	--	--	<0.26
2,4-D	mg/kg	--	<0.26	<0.055	<0.057	--	--	--	<0.053	<0.061	<0.18	--	--	--	--	--	<0.055	<0.071	--	--	--	--	--	--	<1.3
2,4-DB	mg/kg	--	<0.26	<0.055	<0.057	--	--	--	<0.053	<0.061	<0.18	--	--	--	--	--	<0.055	<0.071	--	--	--	--	--	--	<0.098
Dalapon	mg/kg	--	<3.1	<0.67	<0.69	--	--	--	<0.64	<0.73	<2.2	--	--	--	--	--	<0.66	<0.85	--	--	--	--	--	--	<7.8
Dicamba	mg/kg	--	<0.26	<0.055	<0.057	--	--	--	<0.053	<0.061	<0.18	--	--	--	--	--	<0.055	<0.071	--	--	--	--	--	--	<0.39
Dichlorprop	mg/kg	--	<0.26	<0.055	<0.057	--	--	--	<0.053	<0.061	<0.18	--	--	--	--	--	<0.055	<0.071	--	--	--	--	--	--	<0.85
Dinoseb	mg/kg	--	<1.5	<0.33	<0.35	--	--	--	<0.32	<0.36	<1.1	--	--	--	--	--	<0.33	<0.43	--	--	--	--	--	--	<1.3
MCPA	mg/kg	--	<62	<13	<14	--	--	--	<13	<15	<44	--	--	--	--	--	<13	<17	--	--	--	--	--	--	<330
MCPP	mg/kg	--	<62	<13	<14	--	--	--	<13	<15	<44	--	--	--	--	--	<13	<17	--	--	--	--	--	--	<330
Silvex (2,4,5-TP)	mg/kg	--	<0.26	<0.055	<0.057	--	--	--	<0.053	<0.061	<0.18	--	--	--	--	--	<0.055	<0.071	--	--	--	--	--	--	<0.26
Pesticides																									
4,4'-DDD	mg/kg	--	<0.019	<0.0020	<0.0020	--	--	--	<0.018	<0.0021	<0.0062	--	--	--	--	--	<0.0037	<0.0048	--	--	--	--	--	--	<0.0043
4,4'-DDE	mg/kg	--	<0.019	<0.0020	<0.0020	--	--	--	<0.018	<0.0021	<0.0062	--	--	--	--	--	<0.0037	<0.0048	--	--	--	--	--	--	<0.0043
4,4'-DDT	mg/kg	--	<0.019	<0.0020	<0.0020	--	--	--	<0.018	<0.0021	<0.0062	--	--	--	--	--	<0.0037	<0.0048	--	--	--	--	--	--	<0.0043
Aldrin	mg/kg	--	<0.019	<0.0020	<0.0020	--	--	--	<0.018	<0.0021	<0.0062	--	--	--	--	--	<0.0037	<0.0048	--	--	--	--	--	--	<0.0043
alpha-BHC	mg/kg	--	<0.019	<0.0020	<0.0020	--	--	--	<0.018	<0.0021	<0.0062	--	--	--	--	--	<0.0037	<0.0048	--	--	--	--	--	--	<0.0043
beta-BHC	mg/kg	--	<0.019	<0.0020	<0.0020	--	--	--	<0.018	<0.0021	<0.0062	--	--	--	--	--	<0.0037	<0.0048	--	--	--	--	--	--	<0.0043
Chlordane (technical)	mg/kg	--	<0.19	<0.020	<0.020	--	--	--	<0.18	<0.021	<0.062	--	--	--	--	--	<0.037	<0.048	--	--	--	--	--	--	<0.043
delta-BHC	mg/kg	--	<0.019	<0.0020	<0.0020	--	--	--	<0.018	<0.0021	<0.0062	--	--	--	--	--	<0.0037	<0.0048	--	--	--	--	--	--	<0.0043
Dieldrin	mg/kg	--	<0.019	<0.0020	<0.0020	--	--	--	<0.018	<0.0021	<0.0062	--	--	--	--	--	<0.0037	<0.0048	--	--	--	--	--	--	<0.0043
Endosulfan I	mg/kg	--	<0.019	<0.0020	<0.0020	--	--	--	<0.018	<0.0021	<0.0062	--	--	--	--	--	<0.0037	<0.0048	--	--	--	--	--	--	<0.0043
Endosulfan II	mg/kg	--	<0.019	<0.0020	<0.0020	--	--	--	<0.018	<0.0021	<0.0062	--	--	--	--	--	<0.0037	<0.0048	--	--	--	--	--	--	<0.0043
Endosulfan sulfate	mg/kg	--	<0.019	<0.0020	<0.0020	--	--	--	<0.018	<0.0021	<0.0062	--	--	--	--	--	<0.0037	<0.0048	--	--	--	--	--	--	<0.0043
Endrin	mg/kg	--	<0.019	<0.0020	<0.0020	--	--	--	<0.018	<0.0021	<0.0062	--	--	--	--	--	<0.0037	<0.0048	--	--	--	--	--	--	<0.0043
Endrin ketone	mg/kg	--	<0.019	<0.0020	<0.0020	--	--	--	<0.018	<0.0021	<0.0062	--	--	--	--	--	<0.0037	<0.0048	--	--	--	--	--	--	<0.0043
gamma-BHC (Lindane)	mg/kg	--	<0.019	<0.0020	<0.0020	--	--	--	<0.018	<0.0021	<0.0062	--	--	--	--	--	<0.0037	<0.0048	--	--	--	--	--	--	<0.0043
Heptachlor	mg/kg	--	<0.019	<0.0020	<0.0020	--	--	--	<0.018	<0.0021	<0.0062	--	--	--	--	--	<0.0037	<0.0048	--	--	--	--	--	--	<0.0043
Heptachlor epoxide	mg/kg	--	<0.019	<0.0020	<0.0020	--	--	--	<0.018	<0.0021	<0.0062	--	--	--	--	--	<0.0037	<0.0048	--	--	--	--	--	--	<0.0043
Hexachlorobenzene	mg/kg	--	<0.019	<0.0020	<0.0020	--	--	--	<0.018	<0.0021	<0.0062	--	--	--	--	--	<0.0037	<0.0048	--	--	--	--	--	--	<0.0043
Methoxychlor	mg/kg	--	<0.019	<0.0020	<0.0020	--	--	--	<0.018	<0.0021	<0.0062	--	--	--	--	--	<0.0037	<0.0048	--	--	--	--	--	--	<0.0043
Polychlorinated Biphenyls																									
Aroclor 1016	mg/kg	<0.128	<0.137	<0.142	<0.126	<0.147	<0.161	<0.141	<0.205	<0.257	<0.624	<0.251	<0.266	<0.272	<0.265	<0.222	<0.207	<0.259	<0.253	<0.248	<0.263	<0.267	<0.254	<0.258	<0.140
Aroclor 1221	mg/kg	<0.128	<0.137	<0.142	<0.126	<0.147	<0.161	<0.141	<0.205	<0.257	<0.624	<0.251	<0.266	<0.272	<0.265	<0.222	<0.207	<0.259	<0.253	<0.248	<0.263	<0.267	<0.254	<0.258	<0.140
Aroclor 1232	mg/kg	<0.128	<0.137	<0.142	<0.126	<0.147	<0.161	<0.141	<0.205	<0.257	<0.624	<0.251	<0.266	<0.272	<0.265	<0.222	<0.207	<0.259	<0.253	<0.248	<0.263	<0.267	<0.254	<0.258	<0.140
Aroclor 1242	mg/kg	<0.128	<0.137	<0.142	<0.126	<0.147	<0.161	<0.141	<0.205	<0.257	<0.624	<0.251	<0.266	<0.272	<0.265	<0.222	<0.207	<0.259	<0.253	<0.248	<0.263	<0.267	<0.254	<0.258	<0.140
Aroclor 1248	mg/kg	<0.128	<0.137	<0.142	<0.126	<0.147	<0.161	<0.141	<0.205	<0.257	<0.624	<0.251	<0.266	<0.272	<0.265	<0.222	<0.207	<0.259	<0.253	<0.248	<0.263	<0.267	<0.254	<0.258	<0.140
Aroclor 1254	mg/kg	<0.128	<0.137	<0.142	<0.126	<0.147	<0.161	<0.141	<0.205	<0.257	<0.624	<0.251	<0.266	<0.272	<0.265	<0.222	<0.207	<0.259	<0.253	<0.248	<0.263	<0.267	<0.254	<0.258	<0.140
Aroclor 1260	mg/kg	<0.128	<0.137	<0.142	<0.126	<0.147	<0.161	<0.141	0.642	<0.257	<0.624	<0.251	<0.266	<0.272	<0.265	<0.222	<0.207	<0.259	<0.253	<0.248	<0.263	<0.267	<0.254	<0.258	<0.140
Aroclor 1262	mg/kg	<0.128	<0.137	<0.142	<0.126	<0.147	<0.161	<0.141	<0.205	<0.257	<0.624	<0.251	<0.266	<0.272	<0.265	<0.222	<0.207	<0.259	<0.253	<0.248	<0.263	<0.267	<0.254	<0.258	<0.140
Aroclor 1268	mg/kg	<0.128	<0.137	<0.142	<0.126	<0.147	<0.161	<0.141	<0.205	<0.257	<0.624	<0.251	<0.266	<0.272	<0.265	<0.222	<0.207	<0.259	<0.253	<0.248	<0.263	<0.267	<0.254	<0.258	<0.140
Total PCBs	mg/kg	ND	ND	ND	ND	ND	ND	ND	0.642	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Petroleum Hydrocarbons	mg/kg	<42.9	362	64.5	<44.0	<48.5	<50.8	<40.7	666	422	557	<45.7	<51.1	<53.1	<53.3	<40.8	1810	1750	<47.3	62.5	<50.2	<52.3	<51.7	<52.8	495
Volatile Organic Compounds (VOCs)																									
1,1,1,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-Chloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane - Screen	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Butanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Isopropyltoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-Pentanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Disulfide	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	A06 GZ024S11 1503111 Natural Sand/Gravel 34 - 36 3/6/2015	A07 A07S01S02A 1501490 Fill 0 - 3.3 1/23/2015	A07 A07S02BS04A 1501490 Fill 3.3 - 6.6 1/23/2015	A07 A07S04BS05 1501490 Natural Sand/Gravel 6.6 - 10 1/23/2015	A07 A07S06 1501490 Natural Clay 14 - 16 1/23/2015	A07 A07S07 1501490 Natural Clay 19 - 21 1/23/2015	A07 A07S08 1501490 Natural Clay 24 - 26 1/23/2015	B01 B01S01S02A 1412149 Fill 0 - 3.3 12/8/2014	B01 B01S02BS04A 1412149 Fill 3.3 - 6.7 12/8/2014	B01 B01S04B 1412149 Fill 6.7 - 7.1 12/8/2014	B01 B01S05 1412149 Natural Clay 14 - 16 12/8/2014	B01 B01S06 1412149 Natural Clay 19 - 21 12/8/2014	B01 B01S07 1412149 Natural Clay 24 - 26 12/8/2014	B01 B01S08 1412149 Natural Clay 29 - 31 12/8/2014	B01 B01S09 1412149 Natural Clay 34 - 38 12/8/2014	B02 B02S01S02A 1412149 Fill 0 - 3.3 12/8/2014	B02 B02S02BS04A 1412149 Fill 3.3 - 6.6 12/8/2014	B02 B02S04BS05 1412149 Fill 6.6 - 10 12/8/2014	B02 B02S06 1412149 Natural Clay 14 - 16 12/8/2014	B02 B02S07 1412149 Natural Clay 19 - 21 12/8/2014	B02 B02S08 1412149 Natural Clay 24 - 26 12/8/2014	B02 B02S09 1412149 Natural Clay 29 - 31 12/8/2014	B02 B02S10 1412149 Natural Clay 34 - 38 12/8/2014	B03 B03S01S02A 1503097 Fill 0 - 3.3 3/5/2015
Preliminary Disposal Facility Category		**Uncontaminated**	**MCP Regulated Material Type B-2**	**MCP Regulated Type A**	**MCP Regulated Type A**	**MCP Regulated Type B-1**	**MCP Restricted**	**Uncontaminated**	**Hazardous Material Type A**	**Hazardous Material Type A**	**Hazardous Material Type A**	**MCP Regulated Type B-1**	**MCP Regulated Type B-1**	**MCP Regulated Type B-1**	**MCP Regulated Type A**	**MCP Restricted**	**Hazardous Material Type A**	**Hazardous Material Type B**	**MCP Regulated Type A**	**MCP Regulated Type B-1**	**MCP Regulated Type B-1**	**MCP Regulated Type B-1**	**MCP Regulated Type A**	**Uncontaminated**	**Hazardous Material Type A**
Chlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Diethyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Di-isopropyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethyl tertiary-butyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
tert-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tertiary-amyl methyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene O	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene P,M	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylenes (Total)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total VOCs	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds - Low Level Analysis																										
1,1,1,2-Tetrachloroethane	mg/kg	<0.0029	<0.0053	<0.0033	<0.0036	<0.0051	<0.0041	<0.0030	<0.0041	<0.0044	<0.0201	<0.0043	<0.0037	<0.0044	<0.0040	<0.0034	<0.0031	<0.0035	<0.0034	<0.0040	<0.0021	<0.0035	<0.0025	<0.0035	<0.0063
1,1,1-Trichloroethane	mg/kg	<0.0029	<0.0053	<0.0033	<0.0036	<0.0051	<0.0041	<0.0030	<0.0041	<0.0044	<0.0201	<0.0043	<0.0037	<0.0044	<0.0040	<0.0034	<0.0031	<0.0035	<0.0034	<0.0040	<0.0021	<0.0035	<0.0025	<0.0035	<0.0063
1,1,2,2-Tetrachloroethane	mg/kg	<0.0012	<0.0021	<0.0013	<0.0014	<0.0020	<0.0017	<0.0012	<0.0017	<0.0018	<0.0080	<0.0017	<0.0015	<0.0018	<0.0016	<0.0013	<0.0012	<0.0014	<0.0014	<0.0016	<0.0008	<0.0014	<0.0010	<0.0014	<0.0025
1,1,2-Trichloroethane	mg/kg	<0.0029	<0.0053	<0.0033	<0.0036	<0.0051	<0.0041	<0.0030	<0.0041	<0.0044	<0.0201	<0.0043	<0.0037	<0.0044	<0.0040	<0.0034	<0.0031	<0.0035	<0.0034	<0.0040	<0.0021	<0.0035	<0.0025	<0.0035	<0.0063
1,1-Dichloroethane	mg/kg	<0.0029	<0.0053	<0.0033	<0.0036	<0.0051	<0.0041	<0.0030	<0.0041	<0.0044	<0.0201	<0.0043	<0.0037	<0.0044	<0.0040	<0.0034	<0.0031	<0.0035	<0.0034	<0.0040	<0.0021	<0.0035	<0.0025	<0.0035	<0.0063
1,1-Dichloroethene	mg/kg	<0.0029	<0.0053	<0.0033	<0.0036	<0.0051	<0.0041	<0.0030	<0.0041	<0.0044	<0.0201	<0.0043	<0.0037	<0.0044	<0.0040	<0.0034	<0.0031	<0.0035	<0.0034	<0.0040	<0.0021	<0.0035	<0.0025	<0.0035	<0.0063
1,1-Dichloropropene	mg/kg	<0.0029	<0.0053	<0.0033	<0.0036	<0.0051	<0.0041	<0.0030	<0.0041	<0.0044	<0.0201	<0.0043	<0.0037	<0.0044	<0.0040	<0.0034	<0.0031	<0.0035	<0.0034	<0.0040	<0.0021	<0.0035	<0.0025	<0.0035	<0.0063
1,2,3-Trichlorobenzene	mg/kg	<0.0029	<0.0053	<0.0033	<0.0036	<0.0051	<0.0041	<0.0030	<0.0041	<0.0044	<0.0201	<0.0043	<0.0037	<0.0044	<0.0040	<0.0034	<0.0031	<0.0035	<0.0034	<0.0040	<0.0021	<0.0035	<0.0025	<0.0035	<0.0063
1,2,3-Trichloropropane	mg/kg	<0.0029	<0.0053	<0.0033	<0.0036	<0.0051	<0.0041	<0.0030	<0.0041	<0.0044	<0.0201	<0.0043	<0.0037	<0.0044	<0.0040	<0.0034	<0.0031	<0.0035	<0.0034	<0.0040	<0.0021	<0.0035	<0.0025	<0.0035	<0.0063
1,2,4-Trichlorobenzene	mg/kg	<0.0029	<0.0053	<0.0033	<0.0036	<0.0051	<0.0041	<0.0030	<0.0041	<0.0044	<0.0201	<0.0043	<0.0037	<0.0044	<0.0040	<0.0034	<0.0031	<0.0035	<0.0034	<0.0040	<0.0021	<0.0035	<0.0025	<0.0035	<0.0063
1,2,4-Trimethylbenzene	mg/kg	<0.0029	<0.0053	<0.0033	<0.0036	<0.0051	<0.0041	<0.0030	<0.0041	<0.0044	<0.0201	<0.0043	<0.0037	<0.0044	<0.0040	<0.0034	<0.0031	<0.0035	<0.0034	<0.0040	<0.0021	<0.0035	<0.0025	<0.0035	<0.0063
1,2-Dibromo-3-Chloropropane	mg/kg	<0.0029	<0.0053	<0.0033	<0.0036	<0.0051	<0.0041	<0.0030	<0.0041	<0.0044	<0.0201	<0.0043	<0.0037	<0.0044	<0.0040	<0.0034	<0.0031	<0.0035	<0.0034	<0.0040	<0.0021	<0.0035	<0.0025	<0.0035	<0.0063
1,2-Dibromoethane	mg/kg	<0.0029	<0.0053	<0.0033	<0.0036	<0.0051	<0.0041	<0.0030	<0.0041	<0.0044	<0.0201	<0.0043	<0.0037	<0.0044	<0.0040	<0.0034	<0.0031	<0.0035	<0.0034	<0.0040	<0.0021	<0.0035	<0.0025	<0.0035	<0.0063
1,2-Dichlorobenzene	mg/kg	<0.0029	<0.0053	<0.0033	<0.0036	<0.0051	<0.0041	<0.0030	<0.0041	<0.0044	<0.0201	<0.0043	<0.0037	<0.0044	<0.0040	<0.0034	<0.0031	<0.0035	<0.0034	<0.0040	<0.0021	<0.0035	<0.0025	<0.0035	<0.0063
1,2-Dichloroethane	mg/kg	<0.0029	<0.0053	<0.0033	<0.0036	<0.0051	<0.0041	<0.0030	<0.0041	<0.0044	<0.0201	<0.0043	<0.0037	<0.0044	<0.0040	<0.0034	<0.0031	<0.0035	<0.0034	<0.0040	<0.0021	<0.0035	<0.0025	<0.0035	<0.0063
1,2-Dichloropropane	mg/kg	<0.0029	<0.0053	<0.0033	<0.0036	<0.0051	<0.0041	<0.0030	<0.0041	<0.0044	<0.0201	<0.0043	<0.0037	<0.0044	<0.0040	<0.0034	<0.0031	<0.0035	<0.0034	<0.0040	<0.0021	<0.0035	<0.0025	<0.0035	<0.0063
1,3,5-Trimethylbenzene	mg/kg	<0.0029	<0.0053	<0.0033	<0.0036	<0.0051	<0.0041	<0.0030	<0.0041	<0.0044	<0.0201	<0.0043	<0.0037	<0.0044	<0.0040	<0.0034	<0.0031	<0.0035	<0.0034	<0.0040	<0.0021	<0.0035	<0.0025	<0.0035	<0.0063
1,3-Dichlorobenzene	mg/kg	<0.0029	<0.0053	<0.0033	<0.0036	<0.0051	<0.0041	<0.0030	<0.0041	<0.0044	<0.0201	<0.0043	<0.0037	<0.0044	<0.0040	<0.0034	<0.0031	<0.0035	<0.0034	<0.0040	<0.0021	<0.0035	<0.0025	<0.0035	<0.0063
1,3-Dichloropropane	mg/kg	<0.0029	<0.0053	<0.0033	<0.0036	<0.0051	<0.0041	<0.0030	<0.0041	<0.0044	<0.0201	<0.0043	<0.0037	<0.0044	<0.0040	<0.0034	<0.0031	<0.0035	<0.0034	<0.0040	<0.0021	<0.0035	<0.0025	<0.0035	<0.0063
1,4-Dichlorobenzene	mg/kg	<0.0029	<0.0053	<0.0033	<0.0036	<0.0051	<0.0041	<0.0030	<0.0041	<0.0044	<0.0201	<0.0043	<0.0037	<0.0044	<0.0040	<0.0034	<0.0031	<0.0035	<0.0034	<0.0040	<0.0021	<0.0035	<0.0025	<0.0035	<0.0063
1,4-Dioxane	mg/kg	<0.0583	<0.106	<0.0661	<0.0713	<0.101	<0.0829	<0.0598	<0.0827	<0.0880	<0.402	<0.0864	<0.0730	<0.0879	<0.0795	<0.0672	<0.0622	<0.0695	<0.0687	<0.0792	<0.0414	<0.0700	<0.0506	<0.0706	<0.125
2,2-Dichloropropane	mg/kg	<0.0029	<0.0053	<0.0033	<0.0036	<0.0051	<0.0041	<0.0030	<0.0041	<0.0044	<0.0201	<0.0043	<0.0037	<0.0044	<0.0040	<0.0034	<0.0031	<0.0035	<0.0034	<0.0040	<0.0021	<0.0035	<0.0025	<0.0035	<0.0063
2-Butanone	mg/kg	<0.0058	<0.0106	<0.0066	<0.0071	<0.0101	<0.0083	<0.0060	<0.0083	<0.0088	0.153	<0.0086	<0.0073	<0.0088	<0.0080	<0.0067	<0.0062	<0.0070	<0.0069	<0.0079	<0.0041	<0.0070	<0.0051	<0.0071	<0.0125
2-Chlorotoluene	mg/kg	<0.0029	<0.0053	<0.0033	<0.0036	<0.0051	<0.0041	<0.0030	<0.0041	<0.0044	<0.0201	<0.0043	<0.0037	<0.0044	<0.0040	<0.0034	<0.0031	<0.0035	<0.0034	<0.0040	<0.0021	<0.0035	<0.0025	<0.0035	<0.0063
2-Hexanone	mg/kg	<0.0058	<0.0106	<0.0066	<0.0071	<0.0101	<0.0083	<0.0060	<0.0083	<0.0088	<0.0402	<0.0086	<0.0073	<0.0088	<0.0080	<0.0067	<0.0062	<0.0070	<0.0069	<0.0079	<0.0041	<0.0070	<0.0051	<0.0071	<0.0125
4-Chlorotoluene	mg/kg	<0.0029	<0.0053	<0.0033	<0.0036	<0.0051	<0.0041	<0.0030	<0.0041	<0.0044	<0.0201	<0.0043	<0.0037	<0.0044	<0.0040	<0.0034	<0.0031	<0.0035	<0.0034	<0.0040	<0.0021	<0.0035	<0.0025	<0.0035	<0.0063
4-Isopropyltoluene	mg/kg	<0.0029	<0.0053	<0.0033	<0.0036	<0.0051	<0.0041	<0.0030	<0.0041	<0.0044	<0.0201	<0.0043	<0.0037	<0.0044	<0.0040	<0.0034	<0.0031	<0.0035	<0.0034	<0.0040	<0.0021	<0.0035	<0.0025	<0.0035	<0.0063
4-Methyl-2-Pentanone	mg/kg	<0.0058	<0.0106	<0.0066	<0.0071	<0.0101	<0.0083	<0.0060	<0.0083	<0.0088	<0.0402	<0.0086	<0.0073	<0.0088	<0.0080	<0.0067	<0.0062	<0.0070	<0.0069	<0.0079	<0.0041	<0.0070	<0.0051	<0.0071	<0.0125
Acetone	mg/kg	<0.0058	0.0337	0.0111	0.0252	<0.0101	<0.0083	<0.0060	0.0193	0.131	1.18	<0.0086	<0.0073	<0.0088	<0.0080	<0.0067	<0.0062	0.0398	<0.0069	<0.0079	<0.0041	<0.0070	<0.0051	<0.0071	<0.0125
Benzene	mg/kg	<0.0029	<0.0053	<0.0033	<0.0036	<0.0051	<0.0041	<0.0030	<0.0041	<0.0044	<0.0201	<0.0043	<0.0037	<0.0044	<0.0040	<0.0034	<0.0031	<0.0035	<0.0034	<0.0040	<0.0021	<0.0035	<0.0025	<0.0035	<0.0063
Bromobenzene	mg/kg	<0.0029	<0.0053	<0.0033	<0.0036	<0.0051	<0.0041	<0.0030	<0.0041	<0.0044	<0.0201	<0.0043	<0.0037	<0.0044	<0.0040	<0.0034	<0.0031	<0.0035	<0.0034	<0.0040	<0.0021	<0.0035	<0.0025	<0.0035	<0.0063
Bromochloromethane	mg/kg	<0.0029	<0.0053	<0.0033	<0.0036	<0.0051	<0.0041	<0.0030	<0.0041	<0.0044	<0.0201	<0.0043	<0.0037	<0.0044	<0.0040	<0.0034	<0.0031	<0.0035	<0.0034	<0.0040	<0.0021	<0.0035	<0.0025	<0.0035	<0.0063
Bromodichloromethane	mg/kg	<0.0029	<0.0053	<0.0033	<0.0036	<0.0051	<0.0041	<0.0030	<0.0041	<0.0044	<0.0201	<0.0043	<0.0037	<0.0044	<0.0040	<0.0034	<0.0031	<0.0035	<0.0034	<0.0040	<0.0021	<0.0035	<0.0025	<0.0035	<0.0063
Bromoform	mg/kg	<0.0029	<0.0053	<0.0033	<0.0036	<0.0051	<0.0041	<0.0030	<0.0041	<0.0044	<0.0201	<0.0043	<0.0037	<0.0044	<0.0040	<0.0034	<0.0031	<0.0035	<0.0034	<0.0040	<0.0021	<0.0035	<0.0025	<0.0035	<0.0063
Bromomethane	mg/kg	<0.0058	<0.0106	<0.0066	<0.0071	<0.0101	<0.0083	<0.0060	<0.0083	<0.0088	<0.0402	<0.0086	<0.0073	<0.0088	<0.0080	<0.0067	<0.0062	<0.0070	<0.0069	<0.0079	<0.0041	<0.0070	<0.0051	<0.0071	<0.0125
Carbon Disulfide	mg/kg	<0.0029	<0.0053	<0.0033	<0.0036	<0.0051	<0.0041	<0.0030	<0.0041	<0.0044	0.0234	<0.0043	<0.0037	<0.0044	<0.0040	<0.0034	<0.0031	<0.0035	<0.0034	<0.0040	<0.0021	<0.0035	<0.0025	<0.0035	<0.0063
Carbon Tetrachloride	mg/kg	<0.0029	<0.0053	<0.0033	<0.0036	<0.0051	<0.0041	<0.0030	<0.0041	<0.0044	<0.0201	<0.0043	<0.0037	<0.0044	<0.0040	<0.0034	<0.0031	<0.0035	<0.0034	<0.0040	<0.0021	<0.0035	<0.0025	<0.0035	<0.0063
Chlorobenzene	mg/kg	<0.0029	<0.0053	<0.0033	<0.0036	<0.0051	<0.0041	<0.0030	<0.0041	<0.0044	<0.0201	<0.0043	<0.0037	<0.0044	<0.0040	<0.0034	<0.0031	<0.0035	<0.0034	<0.0040	<0.0021	<0.0035	<0.0025	<0.0035	<0.0063
Chloroethane	mg/kg	<0.0058	<0.0106	<0.0066	<0.0071	<0.0101	<0.0083	<0.0060	<0.0083	<0.0088	<0.0402	<0.0086	<0.0073	<0.0088	<0.0080	<0.0067	<0.0062	<0.0070	<0.0069	<0.0079	<0.0041	<0.0070	<0.0051	<0.0071	<0.0125
Chloroform	mg/kg	<0.0029	<0.0053	<0.0033	<0.0036	<0.0051	<0.0041	<0.0030	<0.0041	<0.0044	<0.0201	<0.0043	<0.0037	<0.0044	<0.0040	<0.0034	<0.0031	<0.0035	<0.0034	<0.0040	<0.0021	<0.0035	<0.0025	<0.0035	<0.0063
Chloromethane	mg/kg	<0.0058	<0.0106	<0.0066	<0.0071	<0.0101	<0.0083	<0.0060	<0.0083	<0.0088	<0.0402	<0.0086	<0.0073	<0.0088	<0.0080	<0.0067	<0.0062	<0.0070	<0.0069	<0.0079	<0.0041	<0.0070	<0.0051	<0.0071	<0.0125
cis-1,2-Dichloroethene	mg/kg	<0.0029	<0.0053	<0.0033	<0.0036	<0.0051	<0.0041	<0.0030	<0.0041	<0.0044	<0.0201	<0.0043	<0.0037	<0.0044	<0.0040	<0.0034	<0.0031	<0.0035	<0.0034	<0.0040	<0.0021	<0.0035	<0.0025	<0.0035	<0.0063
cis-1,3-Dichloropropene	mg/kg	<0.0029	<0.0053	<0.0033	<0.0036	<0.0051	<0.0041	<0.0030	<0.0041	<0.0044	<0.0201	<0.0043	<0.0037	<0.0044	<0.0040	<0.0034	<0.0031	<0.0035	<0.0034	<0.0040	<0.0021	<0.0035	<0.0025	<0.0035	<0.0063
Dibromochloromethane	mg/kg	<0.0012	<0.0021	<0.0013	<0.0014	<0.0020	<0.0017	<0.0012	<0.0017	<0.0018	<0.0080	<0.0017	<0.0015	<0.0018	<0.0016	<0.0013	<0.0012	<0.0014	<0.0014	<0.0016	<0.0008	<0.0014	<0.0010	<0.0014	<0.0025
Dibromomethane	mg/kg	<0.0029	<0.0053	<0.0033	<0.0036	<0.0051	<0.0041	<0.0030	<0.0041	<0.0044	<0.0201	<0.0043	<0.0037	<0.0044	<0.0040	<0.0034	<0.0031	<0.0035	<0.0034	<0.0040	<0.0021	<0.0035	<0.0025	<0.0035	<0.0063
Dichlorodifluoromethane	mg/kg	<0.0058	<0.0106	<0.0066	<0.0071	<0.0101	<0.0083	<0.0060	<0.0083	<0.0088	<0.0402	<0.0086	<0.0073	<0.0088	<0.0080	<0.0067	<0.0062	<0.0070	<0.0069	<0.0079	<0.0041	<0.0070	<0.0051	<0.0071	<0.0125
Diethyl Ether	mg/kg	<0.0029	<0.0053	<0.0033	<0.0036	<0.0051	<0.0041	<0.0030	<0.0041	<0.0044	<0.0201	<0.0043	<0.0037	<0.0044	<0.0040	<0.0034	<0.0031	<0.0035	<0.0034	<0.0040	<0.0021	<0.0035	<0.0025	<0.0035	<0.0063
Di-isopropyl ether	mg/kg	<0.0029	<0.0053	<0.0033	<0.0036	<0.0051	<0.0041	<0.0030	<0.0041	<0.0044	<0.0201	<0.0043	<0.0037	<0.0044	<0.0040	<0.0034	<0.0031	<0.0035	<0.0034	<0.0040	<0.0021	<0.0035	<0.0025	<0.0035	<0.0063
Ethyl tertiary-butyl ether	mg/kg	<0.0029	<0.0053	<0.0033	<0.0036	<0.0051	<0.0041	<0.0030	<0.0041	<0.0044	<0.0201	<0.0043	<0.0037	<0.0044	<0.0040	<0.0034	<0.0031	<0.0035	<0.0034	<0.0040	<0.0021	<0.0035	<0.0025	<0.0035	<0.0063
Ethylbenzene	mg/kg	<0.0029	<0.0053	<0.0033	<0.0036	<0.0051	<0.0041	<0.0030	<0.0041	<0.0044	<0.0201	<0.0043	<0.0037	<0.0044	<0.0040	<0.0034	<0.0031	<0.0035	<0.0034	<0.0040	<0.0021	<0.0035	<0.0025	<0.0035	<0.0063
Hexachlorobutadiene	mg/kg	<0.0029	<0.0053	<0.0033	<0.0036	<0.0051	<0.0041	<0.0030	<0.0041	<0.0044	<0.0201	<0.0043	<0.0037	<0.0044	<0.0040	<0.0034	<0.0031	<0.0035	<0.0034	<0.0040	<0.0021	<0.0035	<0.0025	<0.0035	<0.0063
Isopropylbenzene	mg/kg	<0.0029	<0.0053	<0.0033	<0.0036	<0.0051	<0.0041	<0.0030	<0.0041	<0.0044	<0.0201	<0.0043	<0.0037	<0.0044	<0.0040	<0.0034	<0.0031	<0.0035	<0.0034	<0.0040	<0.0021	<0.0035	<0.0025	<0.0035	<0.0063
Methyl tert-Butyl Ether	mg/kg	<0.0029	<0.0053	<0.0033	<0.0036	<0.0051	<0.0041	<0.0030	<0.0041	<0.0044	<0.0201	<0.0043	<0.0037	<0.0044	<0.0040	<0.0034	<0.0031	<0.0035	<0.0034	<0.0040	<0.0021	<0.0035	<0.0025	<0.0035	<0.0063
Methylene Chloride	mg/kg	<0.0058	<0.0106	<0.0066	<0.0071	<0.0101	<0.0083	<0.0060	<0.0083	<0.0088	<0.0402	<0.0086	<0.0073	<0.0088	<0.0080	<0.0067	<0.0062	<0.0070	<0.0069	<0.0079	<0.0041	<0.0070	<0.0051	<0.0071	<0.0125
Naphthalene	mg/kg	<0.0029	<0.0053	<0.0033	<0.0036	<0.0051	<0.0041	<0.0030	0.0044	<0.0044	<0.0201	<0.0043	<0.0037	<0.0044	<0.0040	<0.0034	<0.0031	0.0418	0.0061	<0.0040	<0.0021	<0.0035	<0.0025	<0.0035	<0.0063
n-Butylbenzene	mg/kg	<0.0029	<0.0053	<0.0033	<0.0036	<0.0051	<0.0041	<0.0030	<0.0041	<0.0044	<0.0201	<0.0043	<0.0037	<0.0044	<0.0040	<0.0034	<0.0031	<0.0035	<0.0034	<0.0040	<0.0021	<0.0035	<0.0025	<0.0035	<0.0063
n-Propylbenzene	mg/kg	<0.0029	<0.0053	<0.0033	<0.0036	<0.0051	<0.0041	<0.0030	<0.0041	<0.0044	<0.0201	<0.0043	<0.0037	<0.0044	<0.0040	<0.0034	<0.0031	<0.0035	<0.0034	<0.0040	<0.0021	<0.0035	<0.0025	<0.0035	<0.0063
sec-Butylbenzene	mg/kg	<0.0029	<0.0053	<0.0033	<0.0036	<0.0051	<0.0041	<0.0030	<0.0041	<0.0044	<0.0201	<0.0043	<0.0037	<0.0044	<0.0040	<0.0034	<0.0031	<0.0035	<0.0034	<0.0040	<0.0021	<0.0035	<0.0025	<0.0035	<0.0063

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Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	A06 GZ024S11 1503111 Natural Sand/Gravel 34 - 36 3/6/2015	A07 A07S01S02A 1501490 Fill 0 - 3.3 1/23/2015	A07 A07S02BS04A 1501490 Fill 3.3 - 6.6 1/23/2015	A07 A07S04BS05 1501490 Natural Sand/Gravel 6.6 - 10 1/23/2015	A07 A07S06 1501490 Natural Clay 14 - 16 1/23/2015	A07 A07S07 1501490 Natural Clay 19 - 21 1/23/2015	A07 A07S08 1501490 Natural Clay 24 - 26 1/23/2015	B01 B01S01S02A 1412149 Fill 0 - 3.3 12/8/2014	B01 B01S02BS04A 1412149 Fill 3.3 - 6.7 12/8/2014	B01 B01S04B 1412149 Fill 6.7 - 7.1 12/8/2014	B01 B01S05 1412149 Natural Clay 14 - 16 12/8/2014	B01 B01S06 1412149 Natural Clay 19 - 21 12/8/2014	B01 B01S07 1412149 Natural Clay 24 - 26 12/8/2014	B01 B01S08 1412149 Natural Clay 29 - 31 12/8/2014	B01 B01S09 1412149 Natural Clay 34 - 38 12/8/2014	B02 B02S01S02A 1412149 Fill 0 - 3.3 12/8/2014	B02 B02S02BS04A 1412149 Fill 3.3 - 6.6 12/8/2014	B02 B02S04BS05 1412149 Fill 6.6 - 10 12/8/2014	B02 B02S06 1412149 Natural Clay 14 - 16 12/8/2014	B02 B02S07 1412149 Natural Clay 19 - 21 12/8/2014	B02 B02S08 1412149 Natural Clay 24 - 26 12/8/2014	B02 B02S09 1412149 Natural Clay 29 - 31 12/8/2014	B02 B02S10 1412149 Natural Clay 34 - 38 12/8/2014	B03 B03S01S02A 1503097 Fill 0 - 3.3 3/5/2015
Preliminary Disposal Facility Category		Uncontaminated	MCP Regulated Material Type B-2	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type B-1	MCP Restricted	Uncontaminated	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type A	MCP Restricted	Hazardous Material Type A	Hazardous Material Type B	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type A	Uncontaminated	Hazardous Material Type A
Styrene	mg/kg	<0.0029	<0.0053	<0.0033	<0.0036	<0.0051	<0.0041	<0.0030	<0.0041	<0.0044	<0.0201	<0.0043	<0.0037	<0.0044	<0.0040	<0.0034	<0.0031	<0.0035	<0.0034	<0.0040	<0.0021	<0.0035	<0.0025	<0.0035	<0.0063
tert-Butylbenzene	mg/kg	<0.0029	<0.0053	<0.0033	<0.0036	<0.0051	<0.0041	<0.0030	<0.0041	<0.0044	<0.0201	<0.0043	<0.0037	<0.0044	<0.0040	<0.0034	<0.0031	<0.0035	<0.0034	<0.0040	<0.0021	<0.0035	<0.0025	<0.0035	<0.0063
Tertiary-amyl methyl ether	mg/kg	<0.0029	<0.0053	<0.0033	<0.0036	<0.0051	<0.0041	<0.0030	<0.0041	<0.0044	<0.0201	<0.0043	<0.0037	<0.0044	<0.0040	<0.0034	<0.0031	<0.0035	<0.0034	<0.0040	<0.0021	<0.0035	<0.0025	<0.0035	<0.0063
Tetrachloroethene	mg/kg	<0.0029	<0.0053	<0.0033	<0.0036	<0.0051	<0.0041	<0.0030	<0.0041	<0.0044	<0.0201	<0.0043	<0.0037	<0.0044	<0.0040	<0.0034	<0.0031	<0.0035	<0.0034	<0.0040	<0.0021	<0.0035	<0.0025	<0.0035	<0.0063
Tetrahydrofuran	mg/kg	<0.0029	<0.0053	<0.0033	<0.0036	<0.0051	<0.0041	<0.0030	<0.0041	<0.0044	<0.0201	<0.0043	<0.0037	<0.0044	<0.0040	<0.0034	<0.0031	<0.0035	<0.0034	<0.0040	<0.0021	<0.0035	<0.0025	<0.0035	<0.0063
Toluene	mg/kg	<0.0029	<0.0053	<0.0033	<0.0036	<0.0051	<0.0041	<0.0030	<0.0041	<0.0044	<0.0201	<0.0043	<0.0037	<0.0044	<0.0040	<0.0034	<0.0031	<0.0035	<0.0034	<0.0040	<0.0021	<0.0035	<0.0025	<0.0035	<0.0063
trans-1,2-Dichloroethene	mg/kg	<0.0029	<0.0053	<0.0033	<0.0036	<0.0051	<0.0041	<0.0030	<0.0041	<0.0044	<0.0201	<0.0043	<0.0037	<0.0044	<0.0040	<0.0034	<0.0031	<0.0035	<0.0034	<0.0040	<0.0021	<0.0035	<0.0025	<0.0035	<0.0063
trans-1,3-Dichloropropene	mg/kg	<0.0029	<0.0053	<0.0033	<0.0036	<0.0051	<0.0041	<0.0030	<0.0041	<0.0044	<0.0201	<0.0043	<0.0037	<0.0044	<0.0040	<0.0034	<0.0031	<0.0035	<0.0034	<0.0040	<0.0021	<0.0035	<0.0025	<0.0035	<0.0063
Trichloroethene	mg/kg	<0.0029	<0.0053	<0.0033	<0.0036	<0.0051	<0.0041	<0.0030	<0.0041	<0.0044	<0.0201	<0.0043	<0.0037	<0.0044	<0.0040	<0.0034	<0.0031	<0.0035	<0.0034	<0.0040	<0.0021	<0.0035	<0.0025	<0.0035	<0.0063
Trichlorofluoromethane	mg/kg	<0.0029	<0.0053	<0.0033	<0.0036	<0.0051	<0.0041	<0.0030	<0.0041	<0.0044	<0.0201	<0.0043	<0.0037	<0.0044	<0.0040	<0.0034	<0.0031	<0.0035	<0.0034	<0.0040	<0.0021	<0.0035	<0.0025	<0.0035	<0.0063
Vinyl Chloride	mg/kg	<0.0058	<0.0106	<0.0066	<0.0071	<0.0101	<0.0083	<0.0060	<0.0083	<0.0088	<0.0402	<0.0086	<0.0073	<0.0088	<0.0080	<0.0067	<0.0062	<0.0070	<0.0069	<0.0079	<0.0041	<0.0070	<0.0051	<0.0071	<0.0125
Xylene O	mg/kg	<0.0029	<0.0053	<0.0033	<0.0036	<0.0051	<0.0041	<0.0030	<0.0041	<0.0044	<0.0201	<0.0043	<0.0037	<0.0044	<0.0040	<0.0034	<0.0031	<0.0035	<0.0034	<0.0040	<0.0021	<0.0035	<0.0025	<0.0035	<0.0063
Xylene P,M	mg/kg	<0.0058	<0.0106	<0.0066	<0.0071	<0.0101	<0.0083	<0.0060	<0.0083	<0.0088	<0.0402	<0.0086	<0.0073	<0.0088	<0.0080	<0.0067	<0.0062	<0.0070	<0.0069	<0.0079	<0.0041	<0.0070	<0.0051	<0.0071	<0.0125
Xylenes (Total)	mg/kg	<0.0058	<0.0106	<0.0066	<0.0071	<0.0101	<0.0083	<0.0060	<0.0083	<0.0088	<0.0402	<0.0086	<0.0073	<0.0088	<0.0080	<0.0067	<0.0062	<0.0070	<0.0069	<0.0079	<0.0041	<0.0070	<0.0051	<0.0071	<0.0125
Total VOCs (Low Level)	mg/kg	ND	0.0337	0.0111	0.0252	ND	ND	ND	0.0237	0.131	1.3564	ND	ND	ND	ND	ND	ND	0.0816	0.0061	ND	ND	ND	ND	ND	ND
Semi-Volatile Organic Compounds																									
1,2,4-Trichlorobenzene	mg/kg	<0.907	<0.900	<0.937	<0.867	<1.05	<1.09	<0.865	<0.900	<1.03	<2.45	<1.05	<1.08	<1.09	<1.06	<0.916	<0.869	<1.12	<1.06	<1.09	<1.10	<1.08	<1.09	<1.08	<0.998
1,2-Dichlorobenzene	mg/kg	<0.907	<0.900	<0.937	<0.867	<1.05	<1.09	<0.865	<0.900	<1.03	<2.45	<1.05	<1.08	<1.09	<1.06	<0.916	<0.869	<1.12	<1.06	<1.09	<1.10	<1.08	<1.09	<1.08	<0.998
1,3-Dichlorobenzene	mg/kg	<0.907	<0.900	<0.937	<0.867	<1.05	<1.09	<0.865	<0.900	<1.03	<2.45	<1.05	<1.08	<1.09	<1.06	<0.916	<0.869	<1.12	<1.06	<1.09	<1.10	<1.08	<1.09	<1.08	<0.998
1,4-Dichlorobenzene	mg/kg	<0.455	<0.451	<0.470	<0.435	<0.526	<0.547	<0.434	<0.451	<0.515	<1.23	<0.529	<0.542	<0.548	<0.530	<0.460	<0.436	<0.561	<0.531	<0.544	<0.554	<0.544	<0.546	<0.543	<0.501
2,4,5-Trichlorophenol	mg/kg	<0.907	<0.900	<0.937	<0.867	<1.05	<1.09	<0.865	<0.900	<1.03	<2.45	<1.05	<1.08	<1.09	<1.06	<0.916	<0.869	<1.12	<1.06	<1.09	<1.10	<1.08	<1.09	<1.08	<0.998
2,4,6-Trichlorophenol	mg/kg	<0.907	<0.900	<0.937	<0.867	<1.05	<1.09	<0.865	<0.900	<1.03	<2.45	<1.05	<1.08	<1.09	<1.06	<0.916	<0.869	<1.12	<1.06	<1.09	<1.10	<1.08	<1.09	<1.08	<0.998
2,4-Dichlorophenol	mg/kg	<0.907	<0.900	<0.937	<0.867	<1.05	<1.09	<0.865	<0.900	<1.03	<2.45	<1.05	<1.08	<1.09	<1.06	<0.916	<0.869	<1.12	<1.06	<1.09	<1.10	<1.08	<1.09	<1.08	<0.998
2,4-Dimethylphenol	mg/kg	<0.907	<0.900	<0.937	<0.867	<1.05	<1.09	<0.865	<0.900	<1.03	<2.45	<1.05	<1.08	<1.09	<1.06	<0.916	<0.869	<1.12	<1.06	<1.09	<1.10	<1.08	<1.09	<1.08	<0.998
2,4-Dinitrophenol	mg/kg	<4.55	<4.51	<4.70	<4.35	<5.26	<5.47	<4.34	<4.51	<5.15	<12.3	<5.29	<5.42	<5.48	<5.30	<4.60	<4.36	<5.61	<5.31	<5.44	<5.54	<5.44	<5.46	<5.43	<5.01
2,4-Dinitrotoluene	mg/kg	<0.907	<0.900	<0.937	<0.867	<1.05	<1.09	<0.865	<0.900	<1.03	<2.45	<1.05	<1.08	<1.09	<1.06	<0.916	<0.869	<1.12	<1.06	<1.09	<1.10	<1.08	<1.09	<1.08	<0.998
2,6-Dinitrotoluene	mg/kg	<0.907	<0.900	<0.937	<0.867	<1.05	<1.09	<0.865	<0.900	<1.03	<2.45	<1.05	<1.08	<1.09	<1.06	<0.916	<0.869	<1.12	<1.06	<1.09	<1.10	<1.08	<1.09	<1.08	<0.998
2-Chloronaphthalene	mg/kg	<0.907	<0.900	<0.937	<0.867	<1.05	<1.09	<0.865	<0.900	<1.03	<2.45	<1.05	<1.08	<1.09	<1.06	<0.916	<0.869	<1.12	<1.06	<1.09	<1.10	<1.08	<1.09	<1.08	<0.998
2-Chlorophenol	mg/kg	<0.907	<0.900	<0.937	<0.867	<1.05	<1.09	<0.865	<0.900	<1.03	<2.45	<1.05	<1.08	<1.09	<1.06	<0.916	<0.869	<1.12	<1.06	<1.09	<1.10	<1.08	<1.09	<1.08	<0.998
2-Methylnaphthalene	mg/kg	<0.907	<0.900	<0.937	<0.867	<1.05	<1.09	<0.865	2.75	<1.03	<2.45	<1.05	<1.08	<1.09	<1.06	<0.916	3.42	2.75	<1.06	<1.09	<1.10	<1.08	<1.09	<1.08	<0.998
2-Methylphenol	mg/kg	<0.907	<0.900	<0.937	<0.867	<1.05	<1.09	<0.865	<0.900	<1.03	<2.45	<1.05	<1.08	<1.09	<1.06	<0.916	<0.869	<1.12	<1.06	<1.09	<1.10	<1.08	<1.09	<1.08	<0.998
2-Nitrophenol	mg/kg	<0.907	<0.900	<0.937	<0.867	<1.05	<1.09	<0.865	<0.900	<1.03	<2.45	<1.05	<1.08	<1.09	<1.06	<0.916	<0.869	<1.12	<1.06	<1.09	<1.10	<1.08	<1.09	<1.08	<0.998
3,3´-Dichlorobenzidine	mg/kg	<1.82	<1.80	<1.88	<1.74	<2.10	<2.19	<1.73	<1.80	<2.06	<4.91	<2.11	<2.16	<2.19	<2.12	<1.84	<1.74	<2.24	<2.12	<2.17	<2.21	<2.17	<2.18	<2.17	<2.00
3+4-Methylphenol	mg/kg	<1.82	<1.80	<1.88	<1.74	<2.10	<2.19	<1.73	<1.80	<2.06	<4.91	<2.11	<2.16	<2.19	<2.12	<1.84	<1.74	<2.24	<2.12	<2.17	<2.21	<2.17	<2.18	<2.17	<2.00
4-Bromophenyl-phenylether	mg/kg	<0.907	<0.900	<0.937	<0.867	<1.05	<1.09	<0.865	<0.900	<1.03	<2.45	<1.05	<1.08	<1.09	<1.06	<0.916	<0.869	<1.12	<1.06	<1.09	<1.10	<1.08	<1.09	<1.08	<0.998
4-Chloroaniline	mg/kg	<1.82	<1.80	<1.88	<1.74	<2.10	<2.19	<1.73	<1.80	<2.06	<4.91	<2.11	<2.16	<2.19	<2.12	<1.84	<1.74	<2.24	<2.12	<2.17	<2.21	<2.17	<2.18	<2.17	<2.00
4-Nitrophenol	mg/kg	<4.55	<4.51	<4.70	<4.35	<5.26	<5.47	<4.34	<4.51	<5.15	<12.3	<5.29	<5.42	<5.48	<5.30	<4.60	<4.36	<5.61	<5.31	<5.44	<5.54	<5.44	<5.46	<5.43	<5.01
Acenaphthene	mg/kg	<0.907	<0.900	<0.937	<0.867	<1.05	<1.09	<0.865	3.53	<1.03	<2.45	<1.05	<1.08	<1.09	<1.06	<0.916	6.67	4.88	<1.06	<1.09	<1.10	<1.08	<1.09	<1.08	<0.998
Acenaphthylene	mg/kg	<0.907	<0.900	<0.937	<0.867	<1.05	<1.09	<0.865	3.91	<1.03	<2.45	<1.05	<1.08	<1.09	<1.06	<0.916	<0.869	<1.12	<1.06	<1.09	<1.10	<1.08	<1.09	<1.08	<0.998
Acetophenone	mg/kg	<1.82	<1.80	<1.88	<1.74	<2.10	<2.19	<1.73	<1.80	<2.06	<4.91	<2.11	<2.16	<2.19	<2.12	<1.84	<1.74	<2.24	<2.12	<2.17	<2.21	<2.17	<2.18	<2.17	<2.00
Aniline	mg/kg	<4.55	<4.51	<4.70	<4.35	<5.26	<5.47	<4.34	<4.51	<5.15	<12.3	<5.29	<5.42	<5.48	<5.30	<4.60	<4.36	<5.61	<5.31	<5.44	<5.54	<5.44	<5.46	<5.43	<5.01
Anthracene	mg/kg	<0.907	<0.900	<0.937	<0.867	<1.05	<1.09	<0.865	17.8	<1.03	<2.45	<1.05	<1.08	<1.09	<1.06	<0.916	19.8	13.6	<1.06	<1.09	<1.10	<1.08	<1.09	<1.08	1.35
Azobenzene	mg/kg	<0.907	<0.900	<0.937	<0.867	<1.05	<1.09	<0.865	<0.900	<1.03	<2.45	<1.05	<1.08	<1.09	<1.06	<0.916	<0.869	<1.12	<1.06	<1.09	<1.10	<1.08	<1.09	<1.08	<0.998
Benzo(a)anthracene	mg/kg	<0.907	1.27	<0.937	<0.867	<1.05	<1.09	<0.865	22.3	1.18	<2.45	<1.05	<1.08	<1.09	<1.06	<0.916	29.2	15.2	1.33	<1.09	<1.10	<1.08	<1.09	<1.08	4.02
Benzo(a)pyrene	mg/kg	<0.455	1.16	<0.470	<0.435	<0.526	<0.547	<0.434	16.7	0.911	<1.23	<0.529	<0.542	<0.548	<0.530	<0.460	20.6	11.4	1.06	<0.544	<0.554	<0.544	<0.546	<0.543	3.33
Benzo(b)fluoranthene	mg/kg	<0.907	2.21	<0.937	<0.867	<1.05	<1.09	<0.865	22	1.18	<2.45	<1.05	<1.08	<1.09	<1.06	<0.916	21.7	12.8	1.08	<1.09	<1.10	<1.08	<1.09	<1.08	3.43
Benzo(g,h,i)perylene	mg/kg	<0.907	<0.900	<0.937	<0.867	<1.05	<1.09	<0.865	4.74	<1.03	<2.45	<1.05	<1.08	<1.09	<1.06	<0.916	5.37	3.63	<1.06	<1.09	<1.10	<1.08	<1.09	<1.08	1
Benzo(k)fluoranthene	mg/kg	<0.907	<0.900	<0.937	<0.867	<1.05	<1.09	<0.865	8.51	<1.03	<2.45	<1.05	<1.08	<1.09	<1.06	<0.916	12.3	5	<1.06	<1.09	<1.10	<1.08	<1.09	<1.08	3.57
bis(2-Chloroethoxy)methane	mg/kg	<0.907	<0.900	<0.937	<0.867	<1.05	<1.09	<0.865	<0.900	<1.03	<2.45	<1.05	<1.08	<1.09	<1.06	<0.916	<0.869	<1.12	<1.06	<1.09	<1.10	<1.08	<1.09	<1.08	<0.998
bis(2-Chloroethyl)ether	mg/kg	<0.455	<0.451	<0.470	<0.435	<0.526	<0.547	<0.434	<0.451	<0.515	<1.23	<0.529	<0.542	<0.548	<0.530	<0.460	<0.436	<0.561	<0.531	<0.544	<0.554	<0.544	<0.546	<0.543	<0.501
bis(2-chloroisopropyl)Ether	mg/kg	<0.455	<0.451	<0.470	<0.435	<0.526	<0.547	<0.434	<0.451	<0.515	<1.23	<0.529	<0.542	<0.548	<0.530	<0.460	<0.436	<0.561	<0.531	<0.544	<0.554	<0.544	<0.546	<0.543	<0.501
bis(2-Ethylhexyl)phthalate	mg/kg	<0.907	<0.900	<0.937	<0.867	<1.05	<1.09	<0.865	3.68	<1.03	<2.45	<1.05	<1.08	<1.09	<1.06	<0.916	<0.869	<1.12	<1.06	<1.09	<1.10	<1.08	<1.09	<1.08	<0.998
Butylbenzylphthalate	mg/kg	<0.907	<0.900	<0.937	<0.867	<1.05	<1.09	<0.865	<0.900	<1.03	<2.45	<1.05	<1.08	<1.09	<1.06	<0.916	<0.869	<1.12	<1.06	<1.09	<1.10	<1.08	<1.09	<1.08	<0.998
Chrysene	mg/kg	<0.455	1.32	<0.470	<0.435	<0.526	<0.547	<0.434	18.8	1.22	<1.23	<0.529	<0.542	<0.548	<0.530	<0.460	18.5	12.6	1.21	<0.544	<0.554	<0.544	<0.546	<0.543	3.5
Dibenzo(a,h)Anthracene	mg/kg	<0.455	<0.451	<0.470	<0.435	<0.526	<0.547	<0.434	2.35	<0.515	<1.23	<0.529	<0.542	<0.548	<0.530	<0.460	3.05	2.01	<0.531	<0.544	<0.554	<0.544	<0.546	<0.543	0.63
Dibenzofuran	mg/kg	<0.907	<0.900	<0.937	<0.867	<1.05	<1.09	<0.865	4.92	<1.03	<2.45	<1.05	<1.08	<1.09	<1.06	<0.916	6.98	5.05	<1.06	<1.09	<1.10	<1.08	<1.09	<1.08	<0.998
Diethylphthalate	mg/kg	<0.907	<0.900	<0.937	<0.867	<1.05	<1.09	<0.865	<0.900	<1.03	<2.45	<1.05	<1.08	<1.09	<1.06	<0.916	<0.869	<1.12	<1.06	<1.09	<1.10	<1.08	<1.09	<1.08	<0.998
Dimethylphthalate	mg/kg	<0.907	<0.900	<0.937	<0.867	<1.05	<1.09	<0.865	<0.900	<1.03	<2.45	<1.05	<1.08	<1.09	<1.06	<0.916	<0.869	<1.12	<1.06	<1.09	<1.10	<1.08	<1.09	<1.08	<0.998
Di-n-butylphthalate	mg/kg	<0.907	<0.900	<0.937	<0.867	<1.05	<1.09	<0.865	<0.900	<1.03	<2.45	<1.05	<1.08	<1.09	<1.06	<0.916	<0.869	<1.12	<1.06	<1.09	<1.10	<1.08	<1.09	<1.08	<0.998
Di-n-octylphthalate	mg/kg	<0.907	<0.900	<0.937	<0.867	<1.05	<1.09	<0.865	<0.900	<1.03	<2.45	<1.05	<1.08	<1.09	<1.06	<0.916	<0.869	<1.12	<1.06	<1.09	<1.10	<1.08	<1.09	<1.08	<0.998
Fluoranthene	mg/kg	<0.907	2.71	<0.937	<0.867	<1.05	<1.09	<0.865	56	1.99	<2.45	<1.05	<1.08	<1.09	<1.06	<0.916	68.1	42.8	3.05	<1.09	<1.10	<1.08	<1.09	<1.08	8.7
Fluorene	mg/kg	<0.907	<0.900	<0.937	<0.867	<1.05	<1.09	<0.865	7.28	<1.03	<2.45	<1.05	<1.08	<1.09	<1.06	<0.916	9.12	6.41	<1.06	<1.09	<1.10	<1.08	<1.09	<1.08	<0.998
Hexachlorobenzene	mg/kg	<0.455	<0.451	<0.470	<0.435	<0.526	<0.547	<0.434	<0.451	<0.515	<1.23	<0.529	<0.542	<0.548	<0.530	<0.460	<0.436	<0.561	<0.531	<0.544	<0.554	<0.544	<0.546	<0.543	<0.501
Hexachlorobutadiene	mg/kg	<0.907	<0.900	<0.937	<0.867	<1.05	<1.09	<0.865	<0.900	<1.03	<2.45	<1.05	<1.08	<1.09	<1.06	<0.916	<0.869	<1.12	<1.06	<1.09	<1.10	<1.08	<1.09	<1.08	<0.998
Hexachloroethane	mg/kg	<0.907	<0.900	<0.937	<0.867	<1.05	<1.09	<0.865	<0.900	<1.03	<2.45	<1.05	<1.08	<1.09	<1.06	<0.916	<0.869	<1.12	<1.06	<1.09	<1.10	<1.08	<1.09	<1.08	<0.998
Indeno(1,2,3-cd)Pyrene	mg/kg	<0.907	<0.900	<0.937	<0.867	<1.05	<1.09	<0.865	4.55	<1.03	<2.45	<1.05	<1.08	<1.09	<1.06	<0.916	5.72	3.73	<1.06	<1.09	<1.10	<1.08	<1.09	<1.08	1.13
Isophorone	mg/kg	<0.907	<0.900	<0.937	<0.867	<1.05	<1.09	<0.865	<0.900	<1.03	<2.45	<1.05	<1.08	<1.09	<1.06	<0.916	<0.869	<1.12	<1.06	<1.09	<1.10	<1.08	<1.09	<1.08	<0.998
Naphthalene	mg/kg	<0.907	<0.900	<0.937	<0.867	<1.05	<1.09	<0.865	4.29	<1.03	<2.45	<1.05	<1.08	<1.09	<1.06	<0.916	3.86	2.89	<1.06	<1.09	<1.10	<1.08	<1.09	<1.08	<0.998
Nitrobenzene	mg/kg	<0.907	<0.900	<0.937	<0.867	<1.05	<1.09	<0.865	<0.900	<1.03	<2.45	<1.05	<1.08	<1.09	<1.06	<0.916	<0.869	<1.12	<1.06	<1.09	<1.10	<1.08	<1.09	<1.08	<0.998
N-Nitrosodimethylamine	mg/kg	<0.907	<0.900	<0.937	<0.867	<1.05	<1.09	<0.865	<0.900	<1.03	<2.45	<1.05	<1.08	<1.09	<1.06	<0.916	<0.869	<1.12	<1.06	<1.09	<1.10	<1.08	<1.09	<1.08	<0.998
Pentachlorophenol	mg/kg	<4.55	<4.51	<4.70	<4.35	<5.26	<5.47	<4.34	<4.51	<5.15	<12.3	<5.29	<5.42	<5.48	<5.30	<4.60	<4.36	<5.61	<5.31	<5.44	<5.54	<5.44	<5.46	<5.43	<5.01
Phenanthrene	mg/kg	<0.907	1.72	<0.937	<0.867	<1.05	<1.09	<0.865	65.3	1.4	2.48	<1.05	<1.08	<1.09	<1.06	<0.916	63.6	42.3	2.77	<1.09	<1.10	<1.08	<1.09	<1.08	4.07
Phenol	mg/kg	<0.907	<0.900	<0.937	<0.867	<1.05	<1.09	<0.865	<0.900	<1.03	<2.45	<1.05	<1.08	<1.09	<1.06	<0.916	<0.869	14.4	<1.06	<1.09	<1.10	<1.08	<1.09	<1.08	<0.998
Pyrene	mg/kg	<0.907	2.18	<0.937	<0.867	<1.05	<1.09	<0.865	44.7	1.55	<2.45	<1.05	<1.08	<1.09	<1.06	<0.916	57.1	25.7	2.4	<1.09	<1.10	<1.08	<1.09	<1.08	5.14
Total SVOCs	mg/kg	ND	12.57	ND	ND	ND	ND	ND	314.11	9.431	2.48	ND	ND	ND	ND	ND	355.09	227.15	12.9	ND	ND	ND	ND	ND	39.87
Classic Chemistry																									
Corrosivity (pH)	S.U.	8.05	7.15	4.88	5.16	3.94	6.52	6.79	8.2	5.95	6.49	6.98	7.6	7.52	8.02	8.06	8.12	7.62	6.02	6.82	7.49	7.8	7.52	8.08	7.62
Conductivity	umhos/cm	349	480	495	325	7390	1650	1090	459	1750	906	4380	6740	6260	3530	1610	740	1430	1720	5060	5740	4940	3760	1290	527
Flashpoint	°F	--	>200	>200	--	--	--	--	>200	>200	>200	--	--	--	--	--	>200	>200	--	--	--	--	--	--	>200
Reactive Cyanide	mg/kg	--	<2.0	<2.0	--	--	--	--	<2.0	<2.0	<2.0	--	--	--	--	--	<2.0	<2.0	--	--	--	--	--	--	<2.0
Reactive Sulfide	mg/kg	--	<2.0	<2.0	--	--	--	--	<2.0	<2.0	<2.0	--	--	--	--	--	<2.0	<2.0	--	--	--	--	--	--	<2.0

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	B03 B03S02BS04A 1503097 Fill 3.3 - 6.6 3/5/2015	B03 B03S04B 1503097 Fill 6.6 - 8 3/5/2015	B03 B03S05 1503097 Natural Clay 8 - 10 3/5/2015	B03 B03S06 1503097 Natural Clay 14 - 16 3/5/2015	B03 B03S07 1503097 Natural Clay 19 - 21 3/5/2015	B03 B03S08 1503097 Natural Clay 24 - 26 3/5/2015	B03 B03S09 1503097 Natural Clay 29 - 31 3/5/2015	B03 B03S10S11 1503097 Natural Clay 34 - 38 3/5/2015	B04 B04S01S02A 1503073 Fill 0 - 3.3 3/4/2015	B04 B04S02BS04A 1503073 Fill 3.3 - 6.6 3/4/2015	B04 B04S04BS05A 1503073 Fill 6.6 - 9 3/4/2015	B04 B04S05B 1503073 Natural Clay 9 - 10 3/4/2015	B04 B04S06 1503098 Natural Clay 14 - 16 3/5/2015	B04 B04S07 1503098 Natural Clay 19 - 21 3/5/2015	B04 B04S08 1503098 Natural Clay 24 - 26 3/5/2015	B04 B04S09 1503098 Natural Clay 29 - 31 3/5/2015	B05 B05S01S02A 1503073 Fill 0 - 3.3 3/4/2015	B05 B05S02BS04A 1503073 Fill 3.3 - 6.6 3/4/2015	B05 B05S04B 1503073 Fill 6.6 - 8 3/4/2015	B05 B05S05 1503073 Natural Sand/Gravel 8 - 10 3/4/2015	B05 B05S06 1503073 Natural Clay 14 - 16 3/4/2015	B05 B05S07 1503073 Natural Clay 19 - 21 3/4/2015	B05 B05S08 1503073 Natural Clay 24 - 26 3/4/2015	B05 B05S09 1503073 Natural Clay 29 - 31 3/4/2015
Preliminary Disposal Facility Category		Hazardous Material Type B	Hazardous Material Type B	MCP Restricted	MCP Regulated Type B-1	MCP Restricted	MCP Regulated Type A	Uncontaminated	MCP Restricted	Hazardous Material Type B	Hazardous Material Type B	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Restricted	MCP Restricted	MCP Restricted	Hazardous Material Type B	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Restricted	MCP Regulated Type A	MCP Restricted
RCRA 8 Metals	**Units**																								
Arsenic	mg/kg	78.2	69.5	15.2	9.25	12.2	11.1	<7.73	9.88	35.7	130	16.5	10.2	12.2	<7.86	10.1	8.72	12.2	10.1	<6.99	<7.27	19.6	17.9	19.4	8.31
Barium	mg/kg	89.7	70	95.5	98.2	103	106	23.5	81.9	62.4	91.8	<7.43	69.1	98.6	80.3	82.9	71.3	69.7	56.3	24.2	15.8	118	115	89.3	77.2
Cadmium	mg/kg	<1.61	<1.44	<1.68	<1.68	<1.71	<1.61	<1.55	<1.76	<1.69	<4.35	<1.49	<1.64	<1.58	<1.57	<1.69	<1.65	<1.61	<1.64	<1.40	<1.45	<1.49	<1.78	<1.68	<1.58
Chromium	mg/kg	19.1	8.8	55.5	45.4	52.5	58.1	18.4	40.3	24.7	14.1	15.4	45.4	49.5	43.6	49.9	39.7	15.3	39.6	15.1	23	54.3	58	51.2	40.2
Lead	mg/kg	2790	3610	25.6	<16.8	<17.1	<16.1	<15.5	<17.6	6300	9240	71.1	<16.4	<15.8	<15.7	<16.9	<16.5	16200	73.2	15.2	15.8	<14.9	<17.8	<16.8	<15.8
Selenium	mg/kg	12.3	<7.21	<8.42	<8.38	<8.57	<8.06	<7.73	<8.80	<8.43	<8.69	<7.43	<8.19	<7.88	<7.86	<8.43	<8.24	<8.05	<8.18	<6.99	<7.27	<7.45	<8.92	<8.38	<7.89
Silver	mg/kg	2.56	<1.44	<1.68	<1.68	<1.71	<1.61	<1.55	<1.76	<1.69	<1.74	<1.49	<1.64	<1.58	<1.57	<1.69	<1.65	1.83	<1.64	<1.40	<1.45	<1.49	<1.78	<1.68	<1.58
Mercury	mg/kg	1.45	2.19	<0.036	<0.040	<0.041	<0.042	<0.035	<0.042	3.51	11.5	0.069	<0.036	<0.037	<0.044	<0.042	<0.037	1.49	<0.041	<0.038	<0.033	<0.042	<0.040	<0.038	<0.038
Metals by Toxicity Characteristic Leaching Procedure (TCLP)																									
Arsenic	mg/L	--	--	--	--	--	--	--	--	--	<0.500	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead	mg/L	8.06	13.5	--	--	--	--	--	--	38.4	9.72	--	--	--	--	--	--	22.7	--	--	--	--	--	--	--
Selenium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--	--	--	--	--	<0.00050	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Herbicides																									
2,4,5-T	mg/kg	<0.52	<0.46	--	--	--	--	--	--	<0.057	<0.058	<0.051	--	<0.052	--	--	--	<0.25	<0.11	<0.050	--	<0.051	--	--	--
2,4-D	mg/kg	<2.6	<2.3	--	--	--	--	--	--	<0.29	<0.29	<0.26	--	<0.26	--	--	--	<1.3	<0.55	<0.25	--	<0.26	--	--	--
2,4-DB	mg/kg	<0.20	<0.17	--	--	--	--	--	--	<0.022	<0.022	<0.019	--	<0.019	--	--	--	<0.094	<0.041	<0.019	--	<0.019	--	--	--
Dalapon	mg/kg	<16	<14	--	--	--	--	--	--	<1.7	<1.7	<1.5	--	<1.6	--	--	--	<7.6	<3.3	<1.5	--	<1.5	--	--	--
Dicamba	mg/kg	<0.78	<0.68	--	--	--	--	--	--	<0.086	<0.087	<0.077	--	<0.078	--	--	--	<0.38	<0.16	<0.075	--	<0.077	--	--	--
Dichlorprop	mg/kg	<1.7	<1.5	--	--	--	--	--	--	<0.19	<0.19	<0.17	--	<0.17	--	--	--	<0.82	<0.35	<0.16	--	<0.17	--	--	--
Dinoseb	mg/kg	<2.6	<2.3	--	--	--	--	--	--	<0.29	<0.29	<0.26	--	<0.26	--	--	--	<1.3	<0.55	<0.25	--	<0.26	--	--	--
MCPA	mg/kg	<650	<570	--	--	--	--	--	--	<72	<72	<64	--	<65	--	--	--	<310	<140	<63	--	<64	--	--	--
MCPP	mg/kg	<650	<570	--	--	--	--	--	--	<72	<72	<64	--	<65	--	--	--	<310	<140	<63	--	<64	--	--	--
Silvex (2,4,5-TP)	mg/kg	<0.52	<0.46	--	--	--	--	--	--	<0.057	<0.058	<0.051	--	<0.052	--	--	--	<0.25	<0.11	<0.050	--	<0.051	--	--	--
Pesticides																									
4,4'-DDD	mg/kg	<0.011	<0.0038	--	--	--	--	--	--	<0.012	<0.0024	<0.0021	--	<0.0022	--	--	--	<0.021	<0.0023	<0.0021	--	<0.0021	--	--	--
4,4'-DDE	mg/kg	<0.011	<0.0038	--	--	--	--	--	--	<0.012	<0.0024	<0.0021	--	<0.0022	--	--	--	<0.021	<0.0023	<0.0021	--	<0.0021	--	--	--
4,4'-DDT	mg/kg	<0.011	<0.0038	--	--	--	--	--	--	<0.012	<0.0024	<0.0021	--	<0.0022	--	--	--	<0.021	<0.0023	<0.0021	--	<0.0021	--	--	--
Aldrin	mg/kg	<0.011	<0.0038	--	--	--	--	--	--	<0.012	<0.0024	<0.0021	--	<0.0022	--	--	--	<0.021	<0.0023	<0.0021	--	<0.0021	--	--	--
alpha-BHC	mg/kg	<0.011	<0.0038	--	--	--	--	--	--	<0.012	<0.0024	<0.0021	--	<0.0022	--	--	--	<0.021	<0.0023	<0.0021	--	<0.0021	--	--	--
beta-BHC	mg/kg	<0.011	<0.0038	--	--	--	--	--	--	<0.012	<0.0024	<0.0021	--	<0.0022	--	--	--	<0.021	<0.0023	<0.0021	--	<0.0021	--	--	--
Chlordane (technical)	mg/kg	<0.11	<0.038	--	--	--	--	--	--	<0.12	<0.024	<0.021	--	<0.022	--	--	--	<0.21	<0.023	<0.021	--	<0.021	--	--	--
delta-BHC	mg/kg	<0.011	<0.0038	--	--	--	--	--	--	<0.012	<0.0024	<0.0021	--	<0.0022	--	--	--	<0.021	<0.0023	<0.0021	--	<0.0021	--	--	--
Dieldrin	mg/kg	<0.011	<0.0038	--	--	--	--	--	--	<0.012	<0.0024	<0.0021	--	<0.0022	--	--	--	<0.021	<0.0023	<0.0021	--	<0.0021	--	--	--
Endosulfan I	mg/kg	<0.011	<0.0038	--	--	--	--	--	--	<0.012	<0.0024	<0.0021	--	<0.0022	--	--	--	<0.021	<0.0023	<0.0021	--	<0.0021	--	--	--
Endosulfan II	mg/kg	<0.011	<0.0038	--	--	--	--	--	--	<0.012	<0.0024	<0.0021	--	<0.0022	--	--	--	<0.021	<0.0023	<0.0021	--	<0.0021	--	--	--
Endosulfan sulfate	mg/kg	<0.011	<0.0038	--	--	--	--	--	--	<0.012	<0.0024	<0.0021	--	<0.0022	--	--	--	<0.021	<0.0023	<0.0021	--	<0.0021	--	--	--
Endrin	mg/kg	<0.011	<0.0038	--	--	--	--	--	--	<0.012	<0.0024	<0.0021	--	<0.0022	--	--	--	<0.021	<0.0023	<0.0021	--	<0.0021	--	--	--
Endrin ketone	mg/kg	<0.011	<0.0038	--	--	--	--	--	--	<0.012	<0.0024	<0.0021	--	<0.0022	--	--	--	<0.021	<0.0023	<0.0021	--	<0.0021	--	--	--
gamma-BHC (Lindane)	mg/kg	<0.011	<0.0038	--	--	--	--	--	--	<0.012	<0.0024	<0.0021	--	<0.0022	--	--	--	<0.021	<0.0023	<0.0021	--	<0.0021	--	--	--
Heptachlor	mg/kg	<0.011	<0.0038	--	--	--	--	--	--	<0.012	<0.0024	<0.0021	--	<0.0022	--	--	--	<0.021	<0.0023	<0.0021	--	<0.0021	--	--	--
Heptachlor epoxide	mg/kg	<0.011	<0.0038	--	--	--	--	--	--	<0.012	<0.0024	<0.0021	--	<0.0022	--	--	--	<0.021	<0.0023	<0.0021	--	<0.0021	--	--	--
Hexachlorobenzene	mg/kg	<0.011	<0.0038	--	--	--	--	--	--	<0.012	<0.0024	<0.0021	--	<0.0022	--	--	--	<0.021	<0.0023	<0.0021	--	<0.0021	--	--	--
Methoxychlor	mg/kg	<0.011	<0.0038	--	--	--	--	--	--	<0.012	<0.0024	<0.0021	--	<0.0022	--	--	--	<0.021	<0.0023	<0.0021	--	<0.0021	--	--	--
Polychlorinated Biphenyls																									
Aroclor 1016	mg/kg	<0.153	<0.152	<0.160	<0.164	<0.176	<0.172	<0.153	<0.167	<0.153	<0.174	<0.131	<0.143	<0.156	<0.160	<0.170	<0.156	<0.148	<0.145	<0.135	<0.142	<0.146	<0.170	<0.167	<0.145
Aroclor 1221	mg/kg	<0.153	<0.152	<0.160	<0.164	<0.176	<0.172	<0.153	<0.167	<0.153	<0.174	<0.131	<0.143	<0.156	<0.160	<0.170	<0.156	<0.148	<0.145	<0.135	<0.142	<0.146	<0.170	<0.167	<0.145
Aroclor 1232	mg/kg	<0.153	<0.152	<0.160	<0.164	<0.176	<0.172	<0.153	<0.167	<0.153	<0.174	<0.131	<0.143	<0.156	<0.160	<0.170	<0.156	<0.148	<0.145	<0.135	<0.142	<0.146	<0.170	<0.167	<0.145
Aroclor 1242	mg/kg	<0.153	<0.152	<0.160	<0.164	<0.176	<0.172	<0.153	<0.167	<0.153	<0.174	<0.131	<0.143	<0.156	<0.160	<0.170	<0.156	<0.148	<0.145	<0.135	<0.142	<0.146	<0.170	<0.167	<0.145
Aroclor 1248	mg/kg	<0.153	<0.152	<0.160	<0.164	<0.176	<0.172	<0.153	<0.167	<0.153	<0.174	<0.131	<0.143	<0.156	<0.160	<0.170	<0.156	1.7	<0.145	<0.135	<0.142	<0.146	<0.170	<0.167	<0.145
Aroclor 1254	mg/kg	<0.153	<0.152	<0.160	<0.164	<0.176	<0.172	<0.153	<0.167	0.181	<0.174	<0.131	<0.143	<0.156	<0.160	<0.170	<0.156	<0.148	<0.145	<0.135	<0.142	<0.146	<0.170	<0.167	<0.145
Aroclor 1260	mg/kg	<0.153	<0.152	<0.160	<0.164	<0.176	<0.172	<0.153	<0.167	<0.153	<0.174	<0.131	<0.143	<0.156	<0.160	<0.170	<0.156	<0.148	<0.145	<0.135	<0.142	<0.146	<0.170	<0.167	<0.145
Aroclor 1262	mg/kg	<0.153	<0.152	<0.160	<0.164	<0.176	<0.172	<0.153	<0.167	<0.153	<0.174	<0.131	<0.143	<0.156	<0.160	<0.170	<0.156	<0.148	<0.145	<0.135	<0.142	<0.146	<0.170	<0.167	<0.145
Aroclor 1268	mg/kg	<0.153	<0.152	<0.160	<0.164	<0.176	<0.172	<0.153	<0.167	<0.153	<0.174	<0.131	<0.143	<0.156	<0.160	<0.170	<0.156	<0.148	<0.145	<0.135	<0.142	<0.146	<0.170	<0.167	<0.145
Total PCBs	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	0.181	ND	ND	ND	ND	ND	ND	ND	1.7	ND	ND	ND	ND	ND	ND	ND
Total Petroleum Hydrocarbons	mg/kg	1100	1020	<48.5	<51.5	<56.5	<54.2	<48.0	<52.0	751	<51.0	<46.1	<44.1	<49.1	<53.6	<52.4	<49.9	981	60.4	<42.1	<40.8	<49.3	<51.6	<51.0	<49.4
Volatile Organic Compounds (VOCs)																									
1,1,1,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0868	--	--	--	--	--
1,1,1-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0434	--	--	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0434	--	--	--	--	--
1,1,2-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0434	--	--	--	--	--
1,1-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0434	--	--	--	--	--
1,1-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0434	--	--	--	--	--
1,1-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0434	--	--	--	--	--
1,2,3-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0434	--	--	--	--	--
1,2,3-Trichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0434	--	--	--	--	--
1,2,4-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0434	--	--	--	--	--
1,2,4-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0434	--	--	--	--	--
1,2-Dibromo-3-Chloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.174	--	--	--	--	--
1,2-Dibromoethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0434	--	--	--	--	--
1,2-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0434	--	--	--	--	--
1,2-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0434	--	--	--	--	--
1,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0434	--	--	--	--	--
1,3,5-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0434	--	--	--	--	--
1,3-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0434	--	--	--	--	--
1,3-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0434	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0434	--	--	--	--	--
1,4-Dioxane - Screen	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<4.34	--	--	--	--	--
2,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0868	--	--	--	--	--
2-Butanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.174	--	--	--	--	--
2-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0434	--	--	--	--	--
2-Hexanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.174	--	--	--	--	--
4-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0434	--	--	--	--	--
4-Isopropyltoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0434	--	--	--	--	--
4-Methyl-2-Pentanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.174	--	--	--	--	--
Acetone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.235	--	--	--	--	--
Benzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0434	--	--	--	--	--
Bromobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0434	--	--	--	--	--
Bromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0434	--	--	--	--	--
Bromodichloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0434	--	--	--	--	--
Bromoform	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0434	--	--	--	--	--
Bromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0868	--	--	--	--	--
Carbon Disulfide	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0434	--	--	--	--	--
Carbon Tetrachloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0434	--	--	--	--	--

Analyte	Precharacterization Cell	B03	B03	B03	B03	B03	B03	B03	B03	B04	B04	B04	B04	B04	B04	B04	B04	B05	B05	B05	B05	B05	B05	B05
	Sample ID	B03S02BS04A	B03S04B	B03S05	B03S06	B03S07	B03S08	B03S09	B03S10S11	B04S01S02A	B04S02BS04A	B04S04BS05A	B04S05B	B04S06	B04S07	B04S08	B04S09	B05S01S02A	B05S02BS04A	B05S04B	B05S05	B05S06	B05S07	B05S08	B05S09
	Laboratory Work Order	1503097	1503097	1503097	1503097	1503097	1503097	1503097	1503097	1503073	1503073	1503073	1503073	1503098	1503098	1503098	1503098	1503073	1503073	1503073	1503073	1503073	1503073	1503073	1503073
	Soil Distinction	Fill	Fill	Natural	Natural	Natural	Natural	Natural	Natural	Fill	Fill	Fill	Natural	Natural	Natural	Natural	Natural	Fill	Fill	Fill	Natural	Natural	Natural	Natural	Natural
	Soil Type			Clay	Clay	Clay	Clay	Clay	Clay				Clay	Clay	Clay	Clay	Clay				Sand/Gravel	Clay	Clay	Clay	Clay
	Depth Interval (ft.)	3.3 - 6.6	6.6 - 8	8 - 10	14 - 16	19 - 21	24 - 26	29 - 31	34 - 38	0 - 3.3	3.3 - 6.6	6.6 - 9	9 - 10	14 - 16	19 - 21	24 - 26	29 - 31	0 - 3.3	3.3 - 6.6	6.6 - 8	8 - 10	14 - 16	19 - 21	24 - 26	29 - 31
	Sampling Date	3/5/2015	3/5/2015	3/5/2015	3/5/2015	3/5/2015	3/5/2015	3/5/2015	3/5/2015	3/4/2015	3/4/2015	3/4/2015	3/4/2015	3/5/2015	3/5/2015	3/5/2015	3/5/2015	3/4/2015	3/4/2015	3/4/2015	3/4/2015	3/4/2015	3/4/2015	3/4/2015	3/4/2015
Preliminary Disposal Facility Category		Hazardous Material Type B	Hazardous Material Type B	MCP Restricted	MCP Regulated Type B-1	MCP Restricted	MCP Regulated Type A	Uncontaminated	MCP Restricted	Hazardous Material Type B	Hazardous Material Type B	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Restricted	MCP Restricted	MCP Restricted	Hazardous Material Type B	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Restricted	MCP Regulated Type A	MCP Restricted
Chlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0434	--	--	--	--	--
Chloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0868	--	--	--	--	--
Chloroform	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0434	--	--	--	--	--
Chloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0868	--	--	--	--	--
cis-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0434	--	--	--	--	--
cis-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0434	--	--	--	--	--
Dibromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0434	--	--	--	--	--
Dibromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0434	--	--	--	--	--
Dichlorodifluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0434	--	--	--	--	--
Diethyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0434	--	--	--	--	--
Di-isopropyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0434	--	--	--	--	--
Ethyl tertiary-butyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0434	--	--	--	--	--
Ethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0434	--	--	--	--	--
Hexachlorobutadiene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0434	--	--	--	--	--
Isopropylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0434	--	--	--	--	--
Methyl tert-Butyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0434	--	--	--	--	--
Methylene Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.174	--	--	--	--	--
Naphthalene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0434	--	--	--	--	--
n-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0434	--	--	--	--	--
n-Propylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0434	--	--	--	--	--
sec-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0434	--	--	--	--	--
Styrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0434	--	--	--	--	--
tert-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0434	--	--	--	--	--
Tertiary-amyl methyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0434	--	--	--	--	--
Tetrachloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0434	--	--	--	--	--
Tetrahydrofuran	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.174	--	--	--	--	--
Toluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0434	--	--	--	--	--
trans-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0434	--	--	--	--	--
trans-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0434	--	--	--	--	--
Trichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0434	--	--	--	--	--
Trichlorofluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0434	--	--	--	--	--
Vinyl Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0434	--	--	--	--	--
Xylene O	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0434	--	--	--	--	--
Xylene P,M	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0868	--	--	--	--	--
Xylenes (Total)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0868	--	--	--	--	--
Total VOCs	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.235	--	--	--	--	--
Volatile Organic Compounds - Low Level Analysis																									
1,1,1,2-Tetrachloroethane	mg/kg	<0.0039	<0.0060	<0.0034	<0.0034	<0.0049	<0.0041	<0.0029	<0.0035	<0.0061	<0.0060	<0.0049	<0.0052	<0.0046	<0.0041	<0.0043	<0.0038	<0.0070	<0.0065	--	<0.0040	<0.0051	<0.0047	<0.0057	<0.0038
1,1,1-Trichloroethane	mg/kg	<0.0039	<0.0060	<0.0034	<0.0034	<0.0049	<0.0041	<0.0029	<0.0035	<0.0061	<0.0060	<0.0049	<0.0052	<0.0046	<0.0041	<0.0043	<0.0038	<0.0070	<0.0065	--	<0.0040	<0.0051	<0.0047	<0.0057	<0.0038
1,1,2,2-Tetrachloroethane	mg/kg	<0.0016	<0.0024	<0.0014	<0.0014	<0.0020	<0.0016	<0.0012	<0.0014	<0.0024	<0.0024	<0.0019	<0.0021	<0.0018	<0.0016	<0.0017	<0.0015	<0.0028	<0.0026	--	<0.0016	<0.0020	<0.0019	<0.0023	<0.0015
1,1,2-Trichloroethane	mg/kg	<0.0039	<0.0060	<0.0034	<0.0034	<0.0049	<0.0041	<0.0029	<0.0035	<0.0061	<0.0060	<0.0049	<0.0052	<0.0046	<0.0041	<0.0043	<0.0038	<0.0070	<0.0065	--	<0.0040	<0.0051	<0.0047	<0.0057	<0.0038
1,1-Dichloroethane	mg/kg	<0.0039	<0.0060	<0.0034	<0.0034	<0.0049	<0.0041	<0.0029	<0.0035	<0.0061	<0.0060	<0.0049	<0.0052	<0.0046	<0.0041	<0.0043	<0.0038	<0.0070	<0.0065	--	<0.0040	<0.0051	<0.0047	<0.0057	<0.0038
1,1-Dichloroethene	mg/kg	<0.0039	<0.0060	<0.0034	<0.0034	<0.0049	<0.0041	<0.0029	<0.0035	<0.0061	<0.0060	<0.0049	<0.0052	<0.0046	<0.0041	<0.0043	<0.0038	<0.0070	<0.0065	--	<0.0040	<0.0051	<0.0047	<0.0057	<0.0038
1,1-Dichloropropene	mg/kg	<0.0039	<0.0060	<0.0034	<0.0034	<0.0049	<0.0041	<0.0029	<0.0035	<0.0061	<0.0060	<0.0049	<0.0052	<0.0046	<0.0041	<0.0043	<0.0038	<0.0070	<0.0065	--	<0.0040	<0.0051	<0.0047	<0.0057	<0.0038
1,2,3-Trichlorobenzene	mg/kg	<0.0039	<0.0060	<0.0034	<0.0034	<0.0049	<0.0041	<0.0029	<0.0035	<0.0061	<0.0060	<0.0049	<0.0052	<0.0046	<0.0041	<0.0043	<0.0038	<0.0070	<0.0065	--	<0.0040	<0.0051	<0.0047	<0.0057	<0.0038
1,2,3-Trichloropropane	mg/kg	<0.0039	<0.0060	<0.0034	<0.0034	<0.0049	<0.0041	<0.0029	<0.0035	<0.0061	<0.0060	<0.0049	<0.0052	<0.0046	<0.0041	<0.0043	<0.0038	<0.0070	<0.0065	--	<0.0040	<0.0051	<0.0047	<0.0057	<0.0038
1,2,4-Trichlorobenzene	mg/kg	<0.0039	<0.0060	<0.0034	<0.0034	<0.0049	<0.0041	<0.0029	<0.0035	<0.0061	<0.0060	<0.0049	<0.0052	<0.0046	<0.0041	<0.0043	<0.0038	<0.0070	<0.0065	--	<0.0040	<0.0051	<0.0047	<0.0057	<0.0038
1,2,4-Trimethylbenzene	mg/kg	<0.0039	<0.0060	<0.0034	<0.0034	<0.0049	<0.0041	<0.0029	<0.0035	<0.0061	<0.0060	<0.0049	<0.0052	<0.0046	<0.0041	<0.0043	<0.0038	<0.0070	<0.0065	--	<0.0040	<0.0051	<0.0047	<0.0057	<0.0038
1,2-Dibromo-3-Chloropropane	mg/kg	<0.0039	<0.0060	<0.0034	<0.0034	<0.0049	<0.0041	<0.0029	<0.0035	<0.0061	<0.0060	<0.0049	<0.0052	<0.0046	<0.0041	<0.0043	<0.0038	<0.0070	<0.0065	--	<0.0040	<0.0051	<0.0047	<0.0057	<0.0038
1,2-Dibromoethane	mg/kg	<0.0039	<0.0060	<0.0034	<0.0034	<0.0049	<0.0041	<0.0029	<0.0035	<0.0061	<0.0060	<0.0049	<0.0052	<0.0046	<0.0041	<0.0043	<0.0038	<0.0070	<0.0065	--	<0.0040	<0.0051	<0.0047	<0.0057	<0.0038
1,2-Dichlorobenzene	mg/kg	<0.0039	<0.0060	<0.0034	<0.0034	<0.0049	<0.0041	<0.0029	<0.0035	<0.0061	<0.0060	<0.0049	<0.0052	<0.0046	<0.0041	<0.0043	<0.0038	<0.0070	<0.0065	--	<0.0040	<0.0051	<0.0047	<0.0057	<0.0038
1,2-Dichloroethane	mg/kg	<0.0039	<0.0060	<0.0034	<0.0034	<0.0049	<0.0041	<0.0029	<0.0035	<0.0061	<0.0060	<0.0049	<0.0052	<0.0046	<0.0041	<0.0043	<0.0038	<0.0070	<0.0065	--	<0.0040	<0.0051	<0.0047	<0.0057	<0.0038
1,2-Dichloropropane	mg/kg	<0.0039	<0.0060	<0.0034	<0.0034	<0.0049	<0.0041	<0.0029	<0.0035	<0.0061	<0.0060	<0.0049	<0.0052	<0.0046	<0.0041	<0.0043	<0.0038	<0.0070	<0.0065	--	<0.0040	<0.0051	<0.0047	<0.0057	<0.0038
1,3,5-Trimethylbenzene	mg/kg	<0.0039	<0.0060	<0.0034	<0.0034	<0.0049	<0.0041	<0.0029	<0.0035	<0.0061	<0.0060	<0.0049	<0.0052	<0.0046	<0.0041	<0.0043	<0.0038	<0.0070	<0.0065	--	<0.0040	<0.0051	<0.0047	<0.0057	<0.0038
1,3-Dichlorobenzene	mg/kg	<0.0039	<0.0060	<0.0034	<0.0034	<0.0049	<0.0041	<0.0029	<0.0035	<0.0061	<0.0060	<0.0049	<0.0052	<0.0046	<0.0041	<0.0043	<0.0038	<0.0070	<0.0065	--	<0.0040	<0.0051	<0.0047	<0.0057	<0.0038
1,3-Dichloropropane	mg/kg	<0.0039	<0.0060	<0.0034	<0.0034	<0.0049	<0.0041	<0.0029	<0.0035	<0.0061	<0.0060	<0.0049	<0.0052	<0.0046	<0.0041	<0.0043	<0.0038	<0.0070	<0.0065	--	<0.0040	<0.0051	<0.0047	<0.0057	<0.0038
1,4-Dichlorobenzene	mg/kg	<0.0039	<0.0060	<0.0034	<0.0034	<0.0049	<0.0041	<0.0029	<0.0035	<0.0061	<0.0060	<0.0049	<0.0052	<0.0046	<0.0041	<0.0043	<0.0038	<0.0070	<0.0065	--	<0.0040	<0.0051	<0.0047	<0.0057	<0.0038
1,4-Dioxane	mg/kg	<0.0788	<0.120	<0.0681	<0.0677	<0.0983	<0.0811	<0.0585	<0.0708	<0.121	<0.121	<0.0972	<0.104	<0.0921	<0.0820	<0.0861	<0.0769	<0.141	<0.130	--	<0.0806	<0.102	<0.0937	<0.114	<0.0758
2,2-Dichloropropane	mg/kg	<0.0039	<0.0060	<0.0034	<0.0034	<0.0049	<0.0041	<0.0029	<0.0035	<0.0061	<0.0060	<0.0049	<0.0052	<0.0046	<0.0041	<0.0043	<0.0038	<0.0070	<0.0065	--	<0.0040	<0.0051	<0.0047	<0.0057	<0.0038
2-Butanone	mg/kg	<0.0079	<0.0120	<0.0068	<0.0068	<0.0098	<0.0081	<0.0059	<0.0071	<0.0121	<0.0121	<0.0097	<0.0104	<0.0092	<0.0082	<0.0086	<0.0077	<0.0141	<0.0130	--	<0.0081	<0.0102	<0.0094	<0.0114	<0.0076
2-Chlorotoluene	mg/kg	<0.0039	<0.0060	<0.0034	<0.0034	<0.0049	<0.0041	<0.0029	<0.0035	<0.0061	<0.0060	<0.0049	<0.0052	<0.0046	<0.0041	<0.0043	<0.0038	<0.0070	<0.0065	--	<0.0040	<0.0051	<0.0047	<0.0057	<0.0038
2-Hexanone	mg/kg	<0.0079	<0.0120	<0.0068	<0.0068	<0.0098	<0.0081	<0.0059	<0.0071	<0.0121	<0.0121	<0.0097	<0.0104	<0.0092	<0.0082	<0.0086	<0.0077	<0.0141	<0.0130	--	<0.0081	<0.0102	<0.0094	<0.0114	<0.0076
4-Chlorotoluene	mg/kg	<0.0039	<0.0060	<0.0034	<0.0034	<0.0049	<0.0041	<0.0029	<0.0035	<0.0061	<0.0060	<0.0049	<0.0052	<0.0046	<0.0041	<0.0043	<0.0038	<0.0070	<0.0065	--	<0.0040	<0.0051	<0.0047	<0.0057	<0.0038
4-Isopropyltoluene	mg/kg	<0.0039	<0.0060	<0.0034	<0.0034	<0.0049	<0.0041	<0.0029	<0.0035	<0.0061	<0.0060	<0.0049	<0.0052	<0.0046	<0.0041	<0.0043	<0.0038	<0.0070	<0.0065	--	<0.0040	<0.0051	<0.0047	<0.0057	<0.0038
4-Methyl-2-Pentanone	mg/kg	<0.0079	<0.0120	<0.0068	<0.0068	<0.0098	<0.0081	<0.0059	<0.0071	<0.0121	<0.0121	<0.0097	<0.0104	<0.0092	<0.0082	<0.0086	<0.0077	<0.0141	<0.0130	--	<0.0081	<0.0102	<0.0094	<0.0114	<0.0076
Acetone	mg/kg	0.0475	0.0124	<0.0068	<0.0068	<0.0098	<0.0081	<0.0059	<0.0071	0.0209	<0.0121	<0.0097	0.0179	<0.0092	<0.0082	<0.0086	<0.0077	<0.0141	0.0461	--	0.0479	0.0571	<0.0094	0.0184	<0.0076
Benzene	mg/kg	<0.0039	<0.0060	<0.0034	<0.0034	<0.0049	<0.0041	<0.0029	<0.0035	<0.0061	<0.0060	<0.0049	<0.0052	<0.0046	<0.0041	<0.0043	<0.0038	<0.0070	<0.0065	--	<0.0040	<0.0051	<0.0047	<0.0057	<0.0038
Bromobenzene	mg/kg	<0.0039	<0.0060	<0.0034	<0.0034	<0.0049	<0.0041	<0.0029	<0.0035	<0.0061	<0.0060	<0.0049	<0.0052	<0.0046	<0.0041	<0.0043	<0.0038	<0.0070	<0.0065	--	<0.0040	<0.0051	<0.0047	<0.0057	<0.0038
Bromochloromethane	mg/kg	<0.0039	<0.0060	<0.0034	<0.0034	<0.0049	<0.0041	<0.0029	<0.0035	<0.0061	<0.0060	<0.0049	<0.0052	<0.0046	<0.0041	<0.0043	<0.0038	<0.0070	<0.0065	--	<0.0040	<0.0051	<0.0047	<0.0057	<0.0038
Bromodichloromethane	mg/kg	<0.0039	<0.0060	<0.0034	<0.0034	<0.0049	<0.0041	<0.0029	<0.0035	<0.0061	<0.0060	<0.0049	<0.0052	<0.0046	<0.0041	<0.0043	<0.0038	<0.0070	<0.0065	--	<0.0040	<0.0051	<0.0047	<0.0057	<0.0038
Bromoform	mg/kg	<0.0039	<0.0060	<0.0034	<0.0034	<0.0049	<0.0041	<0.0029	<0.0035	<0.0061	<0.0060	<0.0049	<0.0052	<0.0046	<0.0041	<0.0043	<0.0038	<0.0070	<0.0065	--	<0.0040	<0.0051	<0.0047	<0.0057	<0.0038
Bromomethane	mg/kg	<0.0079	<0.0120	<0.0068	<0.0068	<0.0098	<0.0081	<0.0059	<0.0071	<0.0121	<0.0121	<0.0097	<0.0104	<0.0092	<0.0082	<0.0086	<0.0077	<0.0141	<0.0130	--	<0.0081	<0.0102	<0.0094	<0.0114	<0.0076
Carbon Disulfide	mg/kg	<0.0039	<0.0060	<0.0034	<0.0034	<0.0049	<0.0041	<0.0029	<0.0035	<0.0061	<0.0060	<0.0049	<0.0052	<0.0046	<0.0041	<0.0043	<0.0038	<0.0070	<0.0065	--	<0.0040	<0.0051	<0.0047	<0.0057	<0.0038
Carbon Tetrachloride	mg/kg	<0.0039	<0.0060	<0.0034	<0.0034	<0.0049	<0.0041	<0.0029	<0.0035	<0.0061	<0.0060	<0.0049	<0.0052	<0.0046	<0.0041	<0.0043	<0.0038	<0.0070	<0.0065	--	<0.0040	<0.0051	<0.0047	<0.0057	<0.0038
Chlorobenzene	mg/kg	<0.0039	<0.0060	<0.0034	<0.0034	<0.0049	<0.0041	<0.0029	<0.0035	<0.0061	<0.0060	<0.0049	<0.0052	<0.0046	<0.0041	<0.0043	<0.0038	<0.0070	<0.0065	--	<0.0040	<0.0051	<0.0047	<0.0057	<0.0038
Chloroethane	mg/kg	<0.0079	<0.0120	<0.0068	<0.0068	<0.0098	<0.0081	<0.0059	<0.0071	<0.0121	<0.0121	<0.0097	<0.0104	<0.0092	<0.0082	<0.0086	<0.0077	<0.0141	<0.0130	--	<0.0081	<0.0102	<0.0094	<0.0114	<0.0076
Chloroform	mg/kg	<0.0039	<0.0060	<0.0034	<0.0034	<0.0049	<0.0041	<0.0029	<0.0035	<0.0061	<0.0060	<0.0049	<0.0052	<0.0046	<0.0041	<0.0043	<0.0038	<0.0070	<0.0065	--	<0.0040	<0.0051	<0.0047	<0.0057	<0.0038
Chloromethane	mg/kg	<0.0079	<0.0120	<0.0068	<0.0068	<0.0098	<0.0081	<0.0059	<0.0071	<0.0121	<0.0121	<0.0097	<0.0104	<0.0092	<0.0082	<0.0086	<0.0077	<0.0141	<0.0130	--	<0.0081	<0.0102	<0.0094	<0.0114	<0.0076
cis-1,2-Dichloroethene	mg/kg	<0.0039	<0.0060	<0.0034	<0.0034	<0.0049	<0.0041	<0.0029	<0.0035	<0.0061	<0.0060	<0.0049	<0.0052	<0.0046	<0.0041	<0.0043	<0.0038	<0.0070	<0.0065	--	<0.0040	<0.0051	<0.0047	<0.0057	<0.0038
cis-1,3-Dichloropropene	mg/kg	<0.0039	<0.0060	<0.0034	<0.0034	<0.0049	<0.0041	<0.0029	<0.0035	<0.0061	<0.0060	<0.0049	<0.0052	<0.0046	<0.0041	<0.0043	<0.0038	<0.0070	<0.0065	--	<0.0040	<0.0051	<0.0047	<0.0057	<0.0038
Dibromochloromethane	mg/kg	<0.0016	<0.0024	<0.0014	<0.0014	<0.0020	<0.0016	<0.0012	<0.0014	<0.0024	<0.0024	<0.0019	<0.0021	<0.0018	<0.0016	<0.0017	<0.0015	<0.0028	<0.0026	--	<0.0016	<0.0020	<0.0019	<0.0023	<0.0015
Dibromomethane	mg/kg	<0.0039	<0.0060	<0.0034	<0.0034	<0.0049	<0.0041	<0.0029	<0.0035	<0.0061	<0.0060	<0.0049	<0.0052	<0.0046	<0.0041	<0.0043	<0.0038	<0.0070	<0.0065	--	<0.0040	<0.0051	<0.0047	<0.0057	<0.0038
Dichlorodifluoromethane	mg/kg	<0.0079	<0.0120	<0.0068	<0.0068	<0.0098	<0.0081	<0.0059	<0.0071	<0.0121	<0.0121	<0.0097	<0.0104	<0.0092	<0.0082	<0.0086	<0.0077	<0.0141	<0.0130	--	<0.0081	<0.0102	<0.0094	<0.0114	<0.0076
Diethyl Ether	mg/kg	<0.0039	<0.0060	<0.0034	<0.0034	<0.0049	<0.0041	<0.0029	<0.0035	<0.0061	<0.0060	<0.0049	<0.0052	<0.0046	<0.0041	<0.0043	<0.0038	<0.0070	<0.0065	--	<0.0040	<0.0051	<0.0047	<0.0057	<0.0038
Di-isopropyl ether	mg/kg	<0.0039	<0.0060	<0.0034	<0.0034	<0.0049	<0.0041	<0.0029	<0.0035	<0.0061	<0.0060	<0.0049	<0.0052	<0.0046	<0.0041	<0.0043	<0.0038	<0.0070	<0.0065	--	<0.0040	<0.0051	<0.0047	<0.0057	<0.0038
Ethyl tertiary-butyl ether	mg/kg	<0.0039	<0.0060	<0.0034	<0.0034	<0.0049	<0.0041	<0.0029	<0.0035	<0.0061	<0.0060	<0.0049	<0.0052	<0.0046	<0.0041	<0.0043	<0.0038	<0.0070	<0.0065	--	<0.0040	<0.0051	<0.0047	<0.0057	<0.0038
Ethylbenzene	mg/kg	<0.0039	<0.0060	<0.0034	<0.0034	<0.0049	<0.0041	<0.0029	<0.0035	<0.0061	<0.0060	<0.0049	<0.0052	<0.0046	<0.0041	<0.0043	<0.0038	<0.0070	<0.0065	--	<0.0040	<0.0051	<0.0047	<0.0057	<0.0038
Hexachlorobutadiene	mg/kg	<0.0039	<0.0060	<0.0034	<0.0034	<0.0049	<0.0041	<0.0029	<0.0035	<0.0061	<0.0060	<0.0049	<0.0052	<0.0046	<0.0041	<0.0043	<0.0038	<0.0070	<0.0065	--	<0.0040	<0.0051	<0.0047	<0.0057	<0.0038
Isopropylbenzene	mg/kg	<0.0039	<0.0060	<0.0034	<0.0034	<0.0049	<0.0041	<0.0029	<0.0035	<0.0061	<0.0060	<0.0049	<0.0052	<0.0046	<0.0041	<0.0043	<0.0038	<0.0070	<0.0065	--	<0.0040	<0.0051	<0.0047	<0.0057	<0.0038
Methyl tert-Butyl Ether	mg/kg	<0.0039	<0.0060	<0.0034	<0.0034	<0.0049	<0.0041	<0.0029	<0.0035	<0.0061	<0.0060	<0.0049	<0.0052	<0.0046	<0.0041	<0.0043	<0.0038	<0.0070	<0.0065	--	<0.0040	<0.0051	<0.0047	<0.0057	<0.0038
Methylene Chloride	mg/kg	<0.0079	<0.0120	<0.0068	<0.0068	<0.0098	<0.0081	<0.0059	<0.0071	<0.0121	<0.0121	<0.0097	<0.0104	<0.0092	<0.0082	<0.0086	<0.0077	<0.0141	<0.0130	--	<0.0081	<0.0102	<0.0094	<0.0114	<0.0076
Naphthalene	mg/kg	0.0054	0.0119	<0.0034	<0.0034	<0.0049	<0.0041	<0.0029	<0.0035	0.0095	<0.0060	<0.0049	<0.0052	<0.0046	<0.0041	<0.0043	<0.0038	<0.0070	<0.0065	--	<0.0040	<0.0051	<0.0047	<0.0057	<0.0038
n-Butylbenzene	mg/kg	<0.0039	<0.0060	<0.0034	<0.0034	<0.0049	<0.0041	<0.0029	<0.0035	<0.0061	<0.0060	<0.0049	<0.0052	<0.0046	<0.0041	<0.0043	<0.0038	<0.0070	<0.0065	--	<0.0040	<0.0051	<0.0047	<0.0057	<0.0038
n-Propylbenzene	mg/kg	<0.0039	<0.0060	<0.0034	<0.0034	<0.0049	<0.0041	<0.0029	<0.0035	<0.0061	<0.0060	<0.0049	<0.0052	<0.0046	<0.0041	<0.0043	<0.0038	<0.0070	<0.0065	--	<0.0040	<0.0051	<0.0047	<0.0057	<0.0038
sec-Butylbenzene	mg/kg	<0.0039	<0.0060	<0.0034	<0.0034	<0.0049	<0.0041	<0.0029	<0.0035	<0.0061	<0.0060	<0.0049	<0.0052	<0.0046	<0.0041	<0.0043	<0.0038	<0.0070	<0.0065	--	<0.0040	<0.0051	<0.0047	<0.0057	<0.0038

Table 1
Soil Precharacterization Data

Wynn Resort Casino
Everett, Massachusetts

Analyte	Precharacterization Cell	B03	B03	B03	B03	B03	B03	B03	B03	B04	B04	B04	B04	B04	B04	B04	B04	B05	B05	B05	B05	B05	B05	B05	B05
	Sample ID	B03S02BS04A	B03S04B	B03S05	B03S06	B03S07	B03S08	B03S09	B03S10S11	B04S01S02A	B04S02BS04A	B04S04BS05A	B04S05B	B04S06	B04S07	B04S08	B04S09	B05S01S02A	B05S02BS04A	B05S04B	B05S05	B05S06	B05S07	B05S08	B05S09
	Laboratory Work Order	1503097	1503097	1503097	1503097	1503097	1503097	1503097	1503097	1503073	1503073	1503073	1503073	1503098	1503098	1503098	1503098	1503073	1503073	1503073	1503073	1503073	1503073	1503073	1503073
	Soil Distinction	Fill	Fill	Natural	Natural	Natural	Natural	Natural	Natural	Fill	Fill	Fill	Natural	Natural	Natural	Natural	Natural	Fill	Fill	Fill	Natural	Natural	Natural	Natural	Natural
	Soil Type			Clay	Clay	Clay	Clay	Clay	Clay				Clay	Clay	Clay	Clay	Clay				Sand/Gravel	Clay	Clay	Clay	Clay
	Depth Interval (ft.)	3.3 - 6.6	6.6 - 8	8 - 10	14 - 16	19 - 21	24 - 26	29 - 31	34 - 38	0 - 3.3	3.3 - 6.6	6.6 - 9	9 - 10	14 - 16	19 - 21	24 - 26	29 - 31	0 - 3.3	3.3 - 6.6	6.6 - 8	8 - 10	14 - 16	19 - 21	24 - 26	29 - 31
	Sampling Date	3/5/2015	3/5/2015	3/5/2015	3/5/2015	3/5/2015	3/5/2015	3/5/2015	3/5/2015	3/4/2015	3/4/2015	3/4/2015	3/4/2015	3/5/2015	3/5/2015	3/5/2015	3/5/2015	3/4/2015	3/4/2015	3/4/2015	3/4/2015	3/4/2015	3/4/2015	3/4/2015	3/4/2015	3/4/2015
Preliminary Disposal Facility Category		Hazardous Material Type B	Hazardous Material Type B	MCP Restricted	MCP Regulated Type B-1	MCP Restricted	MCP Regulated Type A	Uncontaminated	MCP Restricted	Hazardous Material Type B	Hazardous Material Type B	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Restricted	MCP Restricted	MCP Restricted	Hazardous Material Type B	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Restricted	MCP Regulated Type A	MCP Restricted
Styrene	mg/kg	<0.0039	<0.0060	<0.0034	<0.0034	<0.0049	<0.0041	<0.0029	<0.0035	<0.0061	<0.0060	<0.0049	<0.0052	<0.0046	<0.0041	<0.0043	<0.0038	<0.0070	<0.0065	--	<0.0040	<0.0051	<0.0047	<0.0057	<0.0038
tert-Butylbenzene	mg/kg	<0.0039	<0.0060	<0.0034	<0.0034	<0.0049	<0.0041	<0.0029	<0.0035	<0.0061	<0.0060	<0.0049	<0.0052	<0.0046	<0.0041	<0.0043	<0.0038	<0.0070	<0.0065	--	<0.0040	<0.0051	<0.0047	<0.0057	<0.0038
Tertiary-amyl methyl ether	mg/kg	<0.0039	<0.0060	<0.0034	<0.0034	<0.0049	<0.0041	<0.0029	<0.0035	<0.0061	<0.0060	<0.0049	<0.0052	<0.0046	<0.0041	<0.0043	<0.0038	<0.0070	<0.0065	--	<0.0040	<0.0051	<0.0047	<0.0057	<0.0038
Tetrachloroethene	mg/kg	<0.0039	<0.0060	<0.0034	<0.0034	<0.0049	<0.0041	<0.0029	<0.0035	<0.0061	<0.0060	<0.0049	<0.0052	<0.0046	<0.0041	<0.0043	<0.0038	<0.0070	<0.0065	--	<0.0040	<0.0051	<0.0047	<0.0057	<0.0038
Tetrahydrofuran	mg/kg	<0.0039	<0.0060	<0.0034	<0.0034	<0.0049	<0.0041	<0.0029	<0.0035	<0.0061	<0.0060	<0.0049	<0.0052	<0.0046	<0.0041	<0.0043	<0.0038	<0.0070	<0.0065	--	<0.0040	<0.0051	<0.0047	<0.0057	<0.0038
Toluene	mg/kg	<0.0039	<0.0060	<0.0034	<0.0034	<0.0049	<0.0041	<0.0029	<0.0035	<0.0061	<0.0060	<0.0049	<0.0052	<0.0046	<0.0041	<0.0043	<0.0038	<0.0070	<0.0065	--	<0.0040	<0.0051	<0.0047	<0.0057	<0.0038
trans-1,2-Dichloroethene	mg/kg	<0.0039	<0.0060	<0.0034	<0.0034	<0.0049	<0.0041	<0.0029	<0.0035	<0.0061	<0.0060	<0.0049	<0.0052	<0.0046	<0.0041	<0.0043	<0.0038	<0.0070	<0.0065	--	<0.0040	<0.0051	<0.0047	<0.0057	<0.0038
trans-1,3-Dichloropropene	mg/kg	<0.0039	<0.0060	<0.0034	<0.0034	<0.0049	<0.0041	<0.0029	<0.0035	<0.0061	<0.0060	<0.0049	<0.0052	<0.0046	<0.0041	<0.0043	<0.0038	<0.0070	<0.0065	--	<0.0040	<0.0051	<0.0047	<0.0057	<0.0038
Trichloroethene	mg/kg	<0.0039	<0.0060	<0.0034	<0.0034	<0.0049	<0.0041	<0.0029	<0.0035	<0.0061	<0.0060	<0.0049	<0.0052	<0.0046	<0.0041	<0.0043	<0.0038	<0.0070	<0.0065	--	<0.0040	<0.0051	<0.0047	<0.0057	<0.0038
Trichlorofluoromethane	mg/kg	<0.0039	<0.0060	<0.0034	<0.0034	<0.0049	<0.0041	<0.0029	<0.0035	<0.0061	<0.0060	<0.0049	<0.0052	<0.0046	<0.0041	<0.0043	<0.0038	<0.0070	<0.0065	--	<0.0040	<0.0051	<0.0047	<0.0057	<0.0038
Vinyl Chloride	mg/kg	<0.0079	<0.0120	<0.0068	<0.0068	<0.0098	<0.0081	<0.0059	<0.0071	<0.0121	<0.0121	<0.0097	<0.0104	<0.0092	<0.0082	<0.0086	<0.0077	<0.0141	<0.0130	--	<0.0081	<0.0102	<0.0094	<0.0114	<0.0076
Xylene O	mg/kg	<0.0039	<0.0060	<0.0034	<0.0034	<0.0049	<0.0041	<0.0029	<0.0035	<0.0061	<0.0060	<0.0049	<0.0052	<0.0046	<0.0041	<0.0043	<0.0038	<0.0070	<0.0065	--	<0.0040	<0.0051	<0.0047	<0.0057	<0.0038
Xylene P,M	mg/kg	<0.0079	<0.0120	<0.0068	<0.0068	<0.0098	<0.0081	<0.0059	<0.0071	<0.0121	<0.0121	<0.0097	<0.0104	<0.0092	<0.0082	<0.0086	<0.0077	<0.0141	<0.0130	--	<0.0081	<0.0102	<0.0094	<0.0114	<0.0076
Xylenes (Total)	mg/kg	<0.0079	<0.0120	<0.0068	<0.0068	<0.0098	<0.0081	<0.0059	<0.0071	<0.0121	<0.0121	<0.0097	<0.0104	<0.0092	<0.0082	<0.0086	<0.0077	<0.0141	<0.0130	--	<0.0081	<0.0102	<0.0094	<0.0114	<0.0076
Total VOCs (Low Level)	mg/kg	0.0529	0.0243	ND	ND	ND	ND	ND	ND	0.0304	ND	ND	0.0179	ND	ND	ND	ND	ND	0.0461	--	0.0479	0.0571	ND	0.0184	ND
Semi-Volatile Organic Compounds																									
1,2,4-Trichlorobenzene	mg/kg	<1.05	<1.03	<1.05	<1.07	<1.14	<1.14	<1.01	<1.04	<1.06	<1.07	<0.919	<1.03	<1.03	<1.09	<1.12	<1.03	<0.945	<1.03	<0.918	<0.908	<1.02	<1.09	<1.13	<0.929
1,2-Dichlorobenzene	mg/kg	<1.05	<1.03	<1.05	<1.07	<1.14	<1.14	<1.01	<1.04	<1.06	<1.07	<0.919	<1.03	<1.03	<1.09	<1.12	<1.03	<0.945	<1.03	<0.918	<0.908	<1.02	<1.09	<1.13	<0.929
1,3-Dichlorobenzene	mg/kg	<1.05	<1.03	<1.05	<1.07	<1.14	<1.14	<1.01	<1.04	<1.06	<1.07	<0.919	<1.03	<1.03	<1.09	<1.12	<1.03	<0.945	<1.03	<0.918	<0.908	<1.02	<1.09	<1.13	<0.929
1,4-Dichlorobenzene	mg/kg	<0.525	<0.515	<0.527	<0.537	<0.574	<0.574	<0.508	<0.523	<0.532	<0.539	<0.461	<0.518	<0.518	<0.548	<0.561	<0.518	<0.474	<0.517	<0.461	<0.455	<0.510	<0.547	<0.568	<0.466
2,4,5-Trichlorophenol	mg/kg	<1.05	<1.03	<1.05	<1.07	<1.14	<1.14	<1.01	<1.04	<1.06	<1.07	<0.919	<1.03	<1.03	<1.09	<1.12	<1.03	<0.945	<1.03	<0.918	<0.908	<1.02	<1.09	<1.13	<0.929
2,4,6-Trichlorophenol	mg/kg	<1.05	<1.03	<1.05	<1.07	<1.14	<1.14	<1.01	<1.04	<1.06	<1.07	<0.919	<1.03	<1.03	<1.09	<1.12	<1.03	<0.945	<1.03	<0.918	<0.908	<1.02	<1.09	<1.13	<0.929
2,4-Dichlorophenol	mg/kg	<1.05	<1.03	<1.05	<1.07	<1.14	<1.14	<1.01	<1.04	<1.06	<1.07	<0.919	<1.03	<1.03	<1.09	<1.12	<1.03	<0.945	<1.03	<0.918	<0.908	<1.02	<1.09	<1.13	<0.929
2,4-Dimethylphenol	mg/kg	<1.05	<1.03	<1.05	<1.07	<1.14	<1.14	<1.01	<1.04	<1.06	<1.07	<0.919	<1.03	<1.03	<1.09	<1.12	<1.03	<0.945	<1.03	<0.918	<0.908	<1.02	<1.09	<1.13	<0.929
2,4-Dinitrophenol	mg/kg	<5.25	<5.15	<5.27	<5.37	<5.74	<5.74	<5.08	<5.23	<5.32	<5.39	<4.61	<5.18	<5.18	<5.48	<5.61	<5.18	<4.74	<5.17	<4.61	<4.55	<5.10	<5.47	<5.68	<4.66
2,4-Dinitrotoluene	mg/kg	<1.05	<1.03	<1.05	<1.07	<1.14	<1.14	<1.01	<1.04	<1.06	<1.07	<0.919	<1.03	<1.03	<1.09	<1.12	<1.03	<0.945	<1.03	<0.918	<0.908	<1.02	<1.09	<1.13	<0.929
2,6-Dinitrotoluene	mg/kg	<1.05	<1.03	<1.05	<1.07	<1.14	<1.14	<1.01	<1.04	<1.06	<1.07	<0.919	<1.03	<1.03	<1.09	<1.12	<1.03	<0.945	<1.03	<0.918	<0.908	<1.02	<1.09	<1.13	<0.929
2-Chloronaphthalene	mg/kg	<1.05	<1.03	<1.05	<1.07	<1.14	<1.14	<1.01	<1.04	<1.06	<1.07	<0.919	<1.03	<1.03	<1.09	<1.12	<1.03	<0.945	<1.03	<0.918	<0.908	<1.02	<1.09	<1.13	<0.929
2-Chlorophenol	mg/kg	<1.05	<1.03	<1.05	<1.07	<1.14	<1.14	<1.01	<1.04	<1.06	<1.07	<0.919	<1.03	<1.03	<1.09	<1.12	<1.03	<0.945	<1.03	<0.918	<0.908	<1.02	<1.09	<1.13	<0.929
2-Methylnaphthalene	mg/kg	<1.05	<1.03	<1.05	<1.07	<1.14	<1.14	<1.01	<1.04	<1.06	<1.07	<0.919	<1.03	<1.03	<1.09	<1.12	<1.03	<0.945	<1.03	<0.918	<0.908	<1.02	<1.09	<1.13	<0.929
2-Methylphenol	mg/kg	<1.05	<1.03	<1.05	<1.07	<1.14	<1.14	<1.01	<1.04	<1.06	<1.07	<0.919	<1.03	<1.03	<1.09	<1.12	<1.03	<0.945	<1.03	<0.918	<0.908	<1.02	<1.09	<1.13	<0.929
2-Nitrophenol	mg/kg	<1.05	<1.03	<1.05	<1.07	<1.14	<1.14	<1.01	<1.04	<1.06	<1.07	<0.919	<1.03	<1.03	<1.09	<1.12	<1.03	<0.945	<1.03	<0.918	<0.908	<1.02	<1.09	<1.13	<0.929
3,3´-Dichlorobenzidine	mg/kg	<2.10	<2.06	<2.10	<2.15	<2.29	<2.29	<2.03	<2.09	<2.13	<2.15	<1.84	<2.07	<2.07	<2.19	<2.24	<2.07	<1.89	<2.07	<1.84	<1.82	<2.04	<2.18	<2.27	<1.86
3+4-Methylphenol	mg/kg	<2.10	<2.06	<2.10	<2.15	<2.29	<2.29	<2.03	<2.09	<2.13	<2.15	<1.84	<2.07	<2.07	<2.19	<2.24	<2.07	<1.89	<2.07	<1.84	<1.82	<2.04	<2.18	<2.27	<1.86
4-Bromophenyl-phenylether	mg/kg	<1.05	<1.03	<1.05	<1.07	<1.14	<1.14	<1.01	<1.04	<1.06	<1.07	<0.919	<1.03	<1.03	<1.09	<1.12	<1.03	<0.945	<1.03	<0.918	<0.908	<1.02	<1.09	<1.13	<0.929
4-Chloroaniline	mg/kg	<2.10	<2.06	<2.10	<2.15	<2.29	<2.29	<2.03	<2.09	<2.13	<2.15	<1.84	<2.07	<2.07	<2.19	<2.24	<2.07	<1.89	<2.07	<1.84	<1.82	<2.04	<2.18	<2.27	<1.86
4-Nitrophenol	mg/kg	<5.25	<5.15	<5.27	<5.37	<5.74	<5.74	<5.08	<5.23	<5.32	<5.39	<4.61	<5.18	<5.18	<5.48	<5.61	<5.18	<4.74	<5.17	<4.61	<4.55	<5.10	<5.47	<5.68	<4.66
Acenaphthene	mg/kg	1.66	1.94	<1.05	<1.07	<1.14	<1.14	<1.01	<1.04	<1.06	<1.07	<0.919	<1.03	<1.03	<1.09	<1.12	<1.03	<0.945	<1.03	<0.918	<0.908	<1.02	<1.09	<1.13	<0.929
Acenaphthylene	mg/kg	<1.05	<1.03	<1.05	<1.07	<1.14	<1.14	<1.01	<1.04	<1.06	<1.07	<0.919	<1.03	<1.03	<1.09	<1.12	<1.03	<0.945	<1.03	<0.918	<0.908	<1.02	<1.09	<1.13	<0.929
Acetophenone	mg/kg	<2.10	<2.06	<2.10	<2.15	<2.29	<2.29	<2.03	<2.09	<2.13	<2.15	<1.84	<2.07	<2.07	<2.19	<2.24	<2.07	<1.89	<2.07	<1.84	<1.82	<2.04	<2.18	<2.27	<1.86
Aniline	mg/kg	<5.25	<5.15	<5.27	<5.37	<5.74	<5.74	<5.08	<5.23	<5.32	<5.39	<4.61	<5.18	<5.18	<5.48	<5.61	<5.18	<4.74	<5.17	<4.61	<4.55	<5.10	<5.47	<5.68	<4.66
Anthracene	mg/kg	4.09	5.49	<1.05	<1.07	<1.14	<1.14	<1.01	<1.04	1.78	<1.07	<0.919	<1.03	<1.03	<1.09	<1.12	<1.03	<0.945	<1.03	<0.918	<0.908	<1.02	<1.09	<1.13	<0.929
Azobenzene	mg/kg	<1.05	<1.03	<1.05	<1.07	<1.14	<1.14	<1.01	<1.04	<1.06	<1.07	<0.919	<1.03	<1.03	<1.09	<1.12	<1.03	<0.945	<1.03	<0.918	<0.908	<1.02	<1.09	<1.13	<0.929
Benzo(a)anthracene	mg/kg	8.8	14.3	<1.05	<1.07	<1.14	<1.14	<1.01	<1.04	6.79	4.6	<0.919	<1.03	<1.03	<1.09	<1.12	<1.03	1.76	<1.03	<0.918	<0.908	<1.02	<1.09	<1.13	<0.929
Benzo(a)pyrene	mg/kg	6.92	11.1	<0.527	<0.537	<0.574	<0.574	<0.508	<0.523	5.56	2.49	<0.461	<0.518	<0.518	<0.548	<0.561	<0.518	1.63	0.654	<0.461	<0.455	<0.510	<0.547	<0.568	<0.466
Benzo(b)fluoranthene	mg/kg	6.73	9.91	<1.05	<1.07	<1.14	<1.14	<1.01	<1.04	6.34	4.78	<0.919	<1.03	<1.03	<1.09	<1.12	<1.03	2.52	<1.03	<0.918	<0.908	<1.02	<1.09	<1.13	<0.929
Benzo(g,h,i)perylene	mg/kg	2.46	3.77	<1.05	<1.07	<1.14	<1.14	<1.01	<1.04	1.93	1.99	<0.919	<1.03	<1.03	<1.09	<1.12	<1.03	<0.945	<1.03	<0.918	<0.908	<1.02	<1.09	<1.13	<0.929
Benzo(k)fluoranthene	mg/kg	5.63	8.83	<1.05	<1.07	<1.14	<1.14	<1.01	<1.04	6.84	1.94	<0.919	<1.03	<1.03	<1.09	<1.12	<1.03	<0.945	<1.03	<0.918	<0.908	<1.02	<1.09	<1.13	<0.929
bis(2-Chloroethoxy)methane	mg/kg	<1.05	<1.03	<1.05	<1.07	<1.14	<1.14	<1.01	<1.04	<1.06	<1.07	<0.919	<1.03	<1.03	<1.09	<1.12	<1.03	<0.945	<1.03	<0.918	<0.908	<1.02	<1.09	<1.13	<0.929
bis(2-Chloroethyl)ether	mg/kg	<0.525	<0.515	<0.527	<0.537	<0.574	<0.574	<0.508	<0.523	<0.532	<0.539	<0.461	<0.518	<0.518	<0.548	<0.561	<0.518	<0.474	<0.517	<0.461	<0.455	<0.510	<0.547	<0.568	<0.466
bis(2-chloroisopropyl)Ether	mg/kg	<0.525	<0.515	<0.527	<0.537	<0.574	<0.574	<0.508	<0.523	<0.532	<0.539	<0.461	<0.518	<0.518	<0.548	<0.561	<0.518	<0.474	<0.517	<0.461	<0.455	<0.510	<0.547	<0.568	<0.466
bis(2-Ethylhexyl)phthalate	mg/kg	<1.05	<1.03	<1.05	<1.07	<1.14	<1.14	<1.01	<1.04	<1.06	<1.07	<0.919	<1.03	<1.03	<1.09	<1.12	<1.03	<0.945	<1.03	<0.918	<0.908	<1.02	<1.09	<1.13	<0.929
Butylbenzylphthalate	mg/kg	<1.05	<1.03	<1.05	<1.07	<1.14	<1.14	<1.01	<1.04	<1.06	<1.07	<0.919	<1.03	<1.03	<1.09	<1.12	<1.03	<0.945	<1.03	<0.918	<0.908	<1.02	<1.09	<1.13	<0.929
Chrysene	mg/kg	7.57	11.6	<0.527	<0.537	<0.574	<0.574	<0.508	<0.523	6.36	5.26	<0.461	<0.518	<0.518	<0.548	<0.561	<0.518	1.92	0.867	<0.461	<0.455	<0.510	<0.547	<0.568	<0.466
Dibenzo(a,h)Anthracene	mg/kg	1.44	2.25	<0.527	<0.537	<0.574	<0.574	<0.508	<0.523	1.16	1.11	<0.461	<0.518	<0.518	<0.548	<0.561	<0.518	<0.474	<0.517	<0.461	<0.455	<0.510	<0.547	<0.568	<0.466
Dibenzofuran	mg/kg	1.36	1.43	<1.05	<1.07	<1.14	<1.14	<1.01	<1.04	<1.06	<1.07	<0.919	<1.03	<1.03	<1.09	<1.12	<1.03	<0.945	<1.03	<0.918	<0.908	<1.02	<1.09	<1.13	<0.929
Diethylphthalate	mg/kg	<1.05	<1.03	<1.05	<1.07	<1.14	<1.14	<1.01	<1.04	<1.06	<1.07	<0.919	<1.03	<1.03	<1.09	<1.12	<1.03	<0.945	<1.03	<0.918	<0.908	<1.02	<1.09	<1.13	<0.929
Dimethylphthalate	mg/kg	<1.05	<1.03	<1.05	<1.07	<1.14	<1.14	<1.01	<1.04	<1.06	<1.07	<0.919	<1.03	<1.03	<1.09	<1.12	<1.03	<0.945	<1.03	<0.918	<0.908	<1.02	<1.09	<1.13	<0.929
Di-n-butylphthalate	mg/kg	<1.05	<1.03	<1.05	<1.07	<1.14	<1.14	<1.01	<1.04	<1.06	<1.07	<0.919	<1.03	<1.03	<1.09	<1.12	<1.03	<0.945	<1.03	<0.918	<0.908	<1.02	<1.09	<1.13	<0.929
Di-n-octylphthalate	mg/kg	<1.05	<1.03	<1.05	<1.07	<1.14	<1.14	<1.01	<1.04	<1.06	<1.07	<0.919	<1.03	<1.03	<1.09	<1.12	<1.03	<0.945	<1.03	<0.918	<0.908	<1.02	<1.09	<1.13	<0.929
Fluoranthene	mg/kg	19.5	37.8	<1.05	<1.07	<1.14	<1.14	<1.01	<1.04	14.9	7.64	<0.919	<1.03	<1.03	<1.09	<1.12	<1.03	2.84	1.89	<0.918	<0.908	<1.02	<1.09	<1.13	<0.929
Fluorene	mg/kg	2	2.12	<1.05	<1.07	<1.14	<1.14	<1.01	<1.04	<1.06	<1.07	<0.919	<1.03	<1.03	<1.09	<1.12	<1.03	<0.945	<1.03	<0.918	<0.908	<1.02	<1.09	<1.13	<0.929
Hexachlorobenzene	mg/kg	<0.525	<0.515	<0.527	<0.537	<0.574	<0.574	<0.508	<0.523	<0.532	<0.539	<0.461	<0.518	<0.518	<0.548	<0.561	<0.518	<0.474	<0.517	<0.461	<0.455	<0.510	<0.547	<0.568	<0.466
Hexachlorobutadiene	mg/kg	<1.05	<1.03	<1.05	<1.07	<1.14	<1.14	<1.01	<1.04	<1.06	<1.07	<0.919	<1.03	<1.03	<1.09	<1.12	<1.03	<0.945	<1.03	<0.918	<0.908	<1.02	<1.09	<1.13	<0.929
Hexachloroethane	mg/kg	<1.05	<1.03	<1.05	<1.07	<1.14	<1.14	<1.01	<1.04	<1.06	<1.07	<0.919	<1.03	<1.03	<1.09	<1.12	<1.03	<0.945	<1.03	<0.918	<0.908	<1.02	<1.09	<1.13	<0.929
Indeno(1,2,3-cd)Pyrene	mg/kg	2.78	4.31	<1.05	<1.07	<1.14	<1.14	<1.01	<1.04	2.03	1.88	<0.919	<1.03	<1.03	<1.09	<1.12	<1.03	<0.945	<1.03	<0.918	<0.908	<1.02	<1.09	<1.13	<0.929
Isophorone	mg/kg	<1.05	<1.03	<1.05	<1.07	<1.14	<1.14	<1.01	<1.04	<1.06	<1.07	<0.919	<1.03	<1.03	<1.09	<1.12	<1.03	<0.945	<1.03	<0.918	<0.908	<1.02	<1.09	<1.13	<0.929
Naphthalene	mg/kg	1.42	<1.03	<1.05	<1.07	<1.14	<1.14	<1.01	<1.04	<1.06	<1.07	<0.919	<1.03	<1.03	<1.09	<1.12	<1.03	<0.945	<1.03	<0.918	<0.908	<1.02	<1.09	<1.13	<0.929
Nitrobenzene	mg/kg	<1.05	<1.03	<1.05	<1.07	<1.14	<1.14	<1.01	<1.04	<1.06	<1.07	<0.919	<1.03	<1.03	<1.09	<1.12	<1.03	<0.945	<1.03	<0.918	<0.908	<1.02	<1.09	<1.13	<0.929
N-Nitrosodimethylamine	mg/kg	<1.05	<1.03	<1.05	<1.07	<1.14	<1.14	<1.01	<1.04	<1.06	<1.07	<0.919	<1.03	<1.03	<1.09	<1.12	<1.03	<0.945	<1.03	<0.918	<0.908	<1.02	<1.09	<1.13	<0.929
Pentachlorophenol	mg/kg	<5.25	<5.15	<5.27	<5.37	<5.74	<5.74	<5.08	<5.23	<5.32	<5.39	<4.61	<5.18	<5.18	<5.48	<5.61	<5.18	<4.74	<5.17	<4.61	<4.55	<5.10	<5.47	<5.68	<4.66
Phenanthrene	mg/kg	13.7	18.2	<1.05	<1.07	<1.14	<1.14	<1.01	<1.04	6.16	3.63	<0.919	<1.03	<1.03	<1.09	<1.12	<1.03	1.58	2.21	<0.918	<0.908	<1.02	<1.09	<1.13	<0.929
Phenol	mg/kg	<1.05	<1.03	<1.05	<1.07	<1.14	<1.14	<1.01	<1.04	<1.06	<1.07	<0.919	<1.03	<1.03	<1.09	<1.12	<1.03	<0.945	<1.03	<0.918	<0.908	<1.02	<1.09	<1.13	<0.929
Pyrene	mg/kg	13.4	19.1	<1.05	<1.07	<1.14	<1.14	<1.01	<1.04	7.45	7.4	<0.919	<1.03	<1.03	<1.09	<1.12	<1.03	2.34	1.67	<0.918	<0.908	<1.02	<1.09	<1.13	<0.929
Total SVOCs	mg/kg	99.46	152.15	ND	ND	ND	ND	ND	ND	67.3	42.72	ND	ND	ND	ND	ND	ND	14.59	7.291	ND	ND	ND	ND	ND	ND
Classic Chemistry																									
Corrosivity (pH)	S.U.	7.5	6.55	3.82	3.89	7.54	7.96	8.01	8.03	8.01	4.09	5.77	3.85	6.62	7.55	7.89	8.05	6.73	5.36	5.89	5.8	3.79	7.09	6.54	8.29
Conductivity	umhos/cm	1260	1170	1570	5610	1610	2380	1550	580	1660	1600	1330	1410	2970	1880	1370	1810	785	1160	554	440	2700	1880	670	1860
Flashpoint	°F	>200	>200	--	--	--	--	--	--	>200	>200	>200	>200	--	--	--	--	>200	>200	>200	--	--	--	--	--
Reactive Cyanide	mg/kg	<2.0	<2.0	--	--	--	--	--	--	<2.0	<2.0	<2.0	--	--	--	--	--	<2.0	<2.0	<2.0	--	--	--	--	--
Reactive Sulfide	mg/kg	<2.0	<2.0	--	--	--	--	--	--	<2.0	<2.0	<2.0	--	--	--	--	--	<2.0	<2.0	<2.0	--	--	--	--	--

Table 1
Soil Precharacterization Data

Wynn Resort Casino
Everett, Massachusetts

Analyte	Precharacterization Cell	B05	B06	B06	B06	B06	B06	B06	B06	B06	B07	B07	B07	B07	B07	B07	B07	B07	B09	B09	B09	B09	B09	B09	B09
	Sample ID	B05S10S11	B06S01S02A	B06S02BS04A	B06S04BS05	B06S06	B06S07	B06S08	B06S09	B06S10	B07S01S02A	B07S02BS04A	B07S04BS05	B07S07	B07S08	B07S09	B07S10	B07S11S12	B09S01S02A	B09S04S05	B09S06	B09S07	B09S08	B09S09S10	B09S11S12A
	Laboratory Work Order	1503073	1503098	1503098	1503098	1503110	1503110	1503110	1503110	1503110	1503110	1503110	1503110	1503110	1503110	1503110	1503134	1503134	1502189	1502189	1502189	1502189	1502189	1502189	1503247
	Soil Distinction	Natural	Fill	Fill	Natural	Natural	Natural	Natural	Natural	Natural	Fill	Fill	Fill	Natural	Natural	Natural	Natural	Natural	Fill	Natural	Natural	Natural	Natural	Natural	Fill
	Soil Type	Clay			Sand/Gravel	Clay	Clay	Clay	Clay	Clay				Clay	Clay	Clay	Clay	Clay		Clay	Clay	Clay	Clay	Sand/Gravel	
	Depth Interval (ft.)	34 - 38	0 - 3.3	3.3 - 6.6	7 - 10	14 - 16	19 - 21	24 - 26	29 - 31	34 - 36	0 - 3.3	3.3 - 6.6	6.6 - 10	12 - 14	19 - 21	24 - 26	29 - 31	34 - 38	0 - 3	12 - 16	19 - 21	24 - 26	29 - 31	34 - 38	4 - 6.6
	Sampling Date	3/4/2015	3/5/2015	3/5/2015	3/5/2015	3/6/2015	3/6/2015	3/6/2015	3/6/2015	3/6/2015	3/6/2015	3/6/2015	3/6/2015	3/6/2015	3/6/2015	3/6/2015	3/9/2015	3/9/2015	2/12/2015	2/12/2015	2/12/2015	2/12/2015	2/12/2015	2/12/2015	3/13/2015
Preliminary Disposal Facility Category		Uncontaminated	Hazardous Material Type A	Hazardous Material Type B	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Restricted	Uncontaminated	MCP Restricted	Hazardous Material Type A	Hazardous Material Type B	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Restricted	Uncontaminated	MCP Regulated Type A	Hazardous Material Type B	MCP Regulated Type B-1	MCP Restricted	MCP Restricted	Uncontaminated	MCP Restricted	MCP Regulated Type A
RCRA 8 Metals	**Units**																								
Arsenic	mg/kg	<6.61	21.1	148	7.2	12.9	10.2	<8.48	<7.43	9.21	21.6	31.5	<7.66	17.2	18.1	<7.95	<6.83	<7.50	19.5	14.2	9.88	18.6	<7.95	<7.46	8.99
Barium	mg/kg	28.6	68.1	121	39.9	118	110	102	40.4	67.5	90	149	43.7	139	110	42.2	25.9	19.5	69.6	114	73	100	21.4	62.1	22.3
Cadmium	mg/kg	<1.32	<1.43	<1.66	<1.35	<1.66	<1.71	<1.70	<1.49	<1.56	2.14	2.1	<1.53	<1.60	<1.70	<1.59	<1.37	<1.50	<1.54	<1.67	<1.51	<1.68	<1.59	<1.49	<1.42
Chromium	mg/kg	19.1	12.4	9.22	34.6	52.8	59.8	52.4	21.7	40.1	15.8	46.7	12.6	69	57.1	30.4	15.8	15.5	18.3	60.7	48.5	60.2	13.6	27.1	5.64
Lead	mg/kg	<13.2	458	17500	24.4	<16.6	<17.1	<17.0	<14.9	<15.6	2700	2230	321	17.3	20.4	<15.9	<13.7	<15.0	1440	<16.7	<15.1	<16.8	<15.9	<14.9	694
Selenium	mg/kg	<6.61	<7.14	67.1	<6.74	<8.28	<8.56	<8.48	<7.43	<7.78	9.77	8.4	<7.66	<7.99	<8.52	<7.95	<6.83	<7.50	<7.69	<8.37	<7.55	<8.38	<7.95	<7.46	<7.09
Silver	mg/kg	<1.32	<1.43	6.49	<1.35	<1.66	<1.71	<1.70	<1.49	<1.56	3.5	2.78	<1.53	<1.60	<1.70	<1.59	<1.37	<1.50	<1.54	<1.67	<1.51	<1.68	<1.59	<1.49	<1.42
Mercury	mg/kg	<0.037	0.488	24.4	<0.034	<0.039	<0.040	<0.041	<0.035	<0.040	0.778	0.626	0.092	<0.038	<0.039	<0.039	<0.030	<0.036	1.46	<0.032	<0.044	<0.047	<0.038	<0.031	0.155
Metals by Toxicity Characteristic Leaching Procedure (TCLP)																									
Arsenic	mg/L	--	--	<0.500	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead	mg/L	--	<0.500	198	--	--	--	--	--	--	2.59	24.4	<0.500	--	--	--	--	--	37.8	--	--	--	--	--	4.23
Selenium	mg/L	--	--	<0.500	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	mg/L	--	--	<0.00050	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Herbicides																									
2,4,5-T	mg/kg	--	<0.48	<0.51	<0.052	--	--	--	--	--	<0.25	<0.10	<0.048	<0.051	--	--	--	--	<0.060	<0.062	--	--	--	--	<0.058
2,4-D	mg/kg	--	<2.4	<2.5	<0.26	--	--	--	--	--	<1.3	<0.50	<0.24	<0.25	--	--	--	--	<0.060	<0.062	--	--	--	--	<0.058
2,4-DB	mg/kg	--	<0.18	<0.19	<0.019	--	--	--	--	--	<0.094	<0.038	<0.018	<0.019	--	--	--	--	<0.060	<0.062	--	--	--	--	<0.058
Dalapon	mg/kg	--	<14	<15	<1.5	--	--	--	--	--	<7.5	<3.0	<1.4	<1.5	--	--	--	--	<0.73	<0.75	--	--	--	--	<0.70
Dicamba	mg/kg	--	<0.71	<0.76	<0.077	--	--	--	--	--	<0.38	<0.15	<0.072	<0.076	--	--	--	--	<0.060	<0.062	--	--	--	--	<0.058
Dichlorprop	mg/kg	--	<1.5	<1.7	<0.17	--	--	--	--	--	<0.81	<0.33	<0.16	<0.17	--	--	--	--	<0.060	<0.062	--	--	--	--	<0.058
Dinoseb	mg/kg	--	<2.4	<2.5	<0.26	--	--	--	--	--	<1.3	<0.50	<0.24	<0.25	--	--	--	--	<0.36	<0.37	--	--	--	--	<0.35
MCPA	mg/kg	--	<600	<640	<64	--	--	--	--	--	<310	<130	<60	<64	--	--	--	--	<15	<15	--	--	--	--	<14
MCPP	mg/kg	--	<600	<640	<64	--	--	--	--	--	<310	<130	<60	<64	--	--	--	--	<15	<15	--	--	--	--	<14
Silvex (2,4,5-TP)	mg/kg	--	<0.48	<0.51	<0.052	--	--	--	--	--	<0.25	<0.10	<0.048	<0.051	--	--	--	--	<0.060	<0.062	--	--	--	--	<0.058
Pesticides																									
4,4'-DDD	mg/kg	--	<0.041	<0.011	<0.0022	--	--	--	--	--	<0.0041	<0.0021	<0.0020	<0.0022	--	--	--	--	<0.0043	<0.0021	--	--	--	--	<0.0021
4,4'-DDE	mg/kg	--	<0.041	<0.011	<0.0022	--	--	--	--	--	<0.0041	<0.0021	<0.0020	<0.0022	--	--	--	--	<0.0043	<0.0021	--	--	--	--	<0.0021
4,4'-DDT	mg/kg	--	<0.041	<0.011	<0.0022	--	--	--	--	--	<0.0041	<0.0021	<0.0020	<0.0022	--	--	--	--	<0.0043	<0.0021	--	--	--	--	<0.0021
Aldrin	mg/kg	--	<0.041	<0.011	<0.0022	--	--	--	--	--	<0.0041	<0.0021	<0.0020	<0.0022	--	--	--	--	<0.0043	<0.0021	--	--	--	--	<0.0021
alpha-BHC	mg/kg	--	<0.041	<0.011	<0.0022	--	--	--	--	--	<0.0041	<0.0021	<0.0020	<0.0022	--	--	--	--	<0.0043	<0.0021	--	--	--	--	<0.0021
beta-BHC	mg/kg	--	<0.041	<0.011	<0.0022	--	--	--	--	--	<0.0041	<0.0021	<0.0020	<0.0022	--	--	--	--	<0.0043	<0.0021	--	--	--	--	<0.0021
Chlordane (technical)	mg/kg	--	<0.41	<0.11	<0.022	--	--	--	--	--	<0.041	<0.021	<0.020	<0.022	--	--	--	--	<0.043	<0.021	--	--	--	--	<0.021
delta-BHC	mg/kg	--	<0.041	<0.011	<0.0022	--	--	--	--	--	<0.0041	<0.0021	<0.0020	<0.0022	--	--	--	--	<0.0043	<0.0021	--	--	--	--	<0.0021
Dieldrin	mg/kg	--	<0.041	<0.011	<0.0022	--	--	--	--	--	<0.0041	<0.0021	<0.0020	<0.0022	--	--	--	--	<0.0043	<0.0021	--	--	--	--	<0.0021
Endosulfan I	mg/kg	--	<0.041	<0.011	<0.0022	--	--	--	--	--	<0.0041	<0.0021	<0.0020	<0.0022	--	--	--	--	<0.0043	<0.0021	--	--	--	--	<0.0021
Endosulfan II	mg/kg	--	<0.041	<0.011	<0.0022	--	--	--	--	--	<0.0041	<0.0021	<0.0020	<0.0022	--	--	--	--	<0.0043	<0.0021	--	--	--	--	<0.0021
Endosulfan sulfate	mg/kg	--	<0.041	<0.011	<0.0022	--	--	--	--	--	<0.0041	<0.0021	<0.0020	<0.0022	--	--	--	--	<0.0043	<0.0021	--	--	--	--	<0.0021
Endrin	mg/kg	--	<0.041	<0.011	<0.0022	--	--	--	--	--	<0.0041	<0.0021	<0.0020	<0.0022	--	--	--	--	<0.0043	<0.0021	--	--	--	--	<0.0021
Endrin ketone	mg/kg	--	<0.041	<0.011	<0.0022	--	--	--	--	--	<0.0041	<0.0021	<0.0020	<0.0022	--	--	--	--	<0.0043	<0.0021	--	--	--	--	<0.0021
gamma-BHC (Lindane)	mg/kg	--	<0.041	<0.011	<0.0022	--	--	--	--	--	<0.0041	<0.0021	<0.0020	<0.0022	--	--	--	--	<0.0043	<0.0021	--	--	--	--	<0.0021
Heptachlor	mg/kg	--	<0.041	<0.011	<0.0022	--	--	--	--	--	<0.0041	<0.0021	<0.0020	<0.0022	--	--	--	--	<0.0043	<0.0021	--	--	--	--	<0.0021
Heptachlor epoxide	mg/kg	--	<0.041	<0.011	<0.0022	--	--	--	--	--	<0.0041	<0.0021	<0.0020	<0.0022	--	--	--	--	<0.0043	<0.0021	--	--	--	--	<0.0021
Hexachlorobenzene	mg/kg	--	<0.041	<0.011	<0.0022	--	--	--	--	--	<0.0041	<0.0021	<0.0020	<0.0022	--	--	--	--	<0.0043	<0.0021	--	--	--	--	<0.0021
Methoxychlor	mg/kg	--	<0.041	<0.011	<0.0022	--	--	--	--	--	<0.0041	<0.0021	<0.0020	<0.0022	--	--	--	--	<0.0043	<0.0021	--	--	--	--	<0.0021
Polychlorinated Biphenyls																									
Aroclor 1016	mg/kg	<0.127	<0.143	<0.166	<0.140	<0.156	<0.154	<0.154	<0.142	<0.134	<0.145	<0.142	<0.138	<0.161	<0.158	<0.144	<0.137	<0.147	<0.126	<0.160	<0.162	<0.176	<0.149	<0.150	<0.143
Aroclor 1221	mg/kg	<0.127	<0.143	<0.166	<0.140	<0.156	<0.154	<0.154	<0.142	<0.134	<0.145	<0.142	<0.138	<0.161	<0.158	<0.144	<0.137	<0.147	<0.126	<0.160	<0.162	<0.176	<0.149	<0.150	<0.143
Aroclor 1232	mg/kg	<0.127	<0.143	<0.166	<0.140	<0.156	<0.154	<0.154	<0.142	<0.134	<0.145	<0.142	<0.138	<0.161	<0.158	<0.144	<0.137	<0.147	<0.126	<0.160	<0.162	<0.176	<0.149	<0.150	<0.143
Aroclor 1242	mg/kg	<0.127	<0.143	<0.166	<0.140	<0.156	<0.154	<0.154	<0.142	<0.134	<0.145	<0.142	<0.138	<0.161	<0.158	<0.144	<0.137	<0.147	<0.126	<0.160	<0.162	<0.176	<0.149	<0.150	<0.143
Aroclor 1248	mg/kg	<0.127	<0.143	<0.166	<0.140	<0.156	<0.154	<0.154	<0.142	<0.134	<0.145	<0.142	<0.138	<0.161	<0.158	<0.144	<0.137	<0.147	<0.126	<0.160	<0.162	<0.176	<0.149	<0.150	<0.143
Aroclor 1254	mg/kg	<0.127	0.754	<0.166	<0.140	<0.156	<0.154	<0.154	<0.142	<0.134	0.407	<0.142	<0.138	<0.161	<0.158	<0.144	<0.137	<0.147	1.04	<0.160	<0.162	<0.176	<0.149	<0.150	<0.143
Aroclor 1260	mg/kg	<0.127	<0.143	<0.166	<0.140	<0.156	<0.154	<0.154	<0.142	<0.134	<0.145	<0.142	<0.138	<0.161	<0.158	<0.144	<0.137	<0.147	0.287	<0.160	<0.162	<0.176	<0.149	<0.150	<0.143
Aroclor 1262	mg/kg	<0.127	0.403	<0.166	<0.140	<0.156	<0.154	<0.154	<0.142	<0.134	<0.145	<0.142	<0.138	<0.161	<0.158	<0.144	<0.137	<0.147	<0.126	<0.160	<0.162	<0.176	<0.149	<0.150	<0.143
Aroclor 1268	mg/kg	<0.127	<0.143	<0.166	<0.140	<0.156	<0.154	<0.154	<0.142	<0.134	<0.145	<0.142	<0.138	<0.161	<0.158	<0.144	<0.137	<0.147	<0.126	<0.160	<0.162	<0.176	<0.149	<0.150	<0.143
Total PCBs	mg/kg	ND	1.157	ND	ND	ND	ND	ND	ND	ND	0.407	ND	ND	ND	ND	ND	ND	ND	1.327	ND	ND	ND	ND	ND	ND
Total Petroleum Hydrocarbons	mg/kg	<44.3	2150	1040	56	<45.9	<49.6	<45.6	<43.0	<45.4	306	443	<41.1	<51.4	<51.6	<46.6	<39.6	<46.8	1480	<47.4	<51.5	<55.8	<47.7	<45.7	<44.8
Volatile Organic Compounds (VOCs)																									
1,1,1,2-Tetrachloroethane	mg/kg	--	--	<0.125	--	--	--	--	--	--	<0.103	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	mg/kg	--	--	<0.0623	--	--	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg	--	--	<0.0623	--	--	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	mg/kg	--	--	<0.0623	--	--	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	mg/kg	--	--	<0.0623	--	--	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	mg/kg	--	--	<0.0623	--	--	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloropropene	mg/kg	--	--	<0.0623	--	--	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	mg/kg	--	--	<0.0623	--	--	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	mg/kg	--	--	<0.0623	--	--	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	mg/kg	--	--	<0.0623	--	--	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	mg/kg	--	--	<0.0623	--	--	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-Chloropropane	mg/kg	--	--	<0.249	--	--	--	--	--	--	<0.206	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	mg/kg	--	--	<0.0623	--	--	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	mg/kg	--	--	<0.0623	--	--	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	mg/kg	--	--	<0.0623	--	--	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	mg/kg	--	--	<0.0623	--	--	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	mg/kg	--	--	<0.0623	--	--	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	mg/kg	--	--	<0.0623	--	--	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichloropropane	mg/kg	--	--	<0.0623	--	--	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg	--	--	<0.0623	--	--	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane - Screen	mg/kg	--	--	<6.23	--	--	--	--	--	--	<5.15	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,2-Dichloropropane	mg/kg	--	--	<0.125	--	--	--	--	--	--	<0.103	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Butanone	mg/kg	--	--	<0.249	--	--	--	--	--	--	<0.206	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chlorotoluene	mg/kg	--	--	<0.0623	--	--	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	mg/kg	--	--	<0.249	--	--	--	--	--	--	<0.206	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Chlorotoluene	mg/kg	--	--	<0.0623	--	--	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Isopropyltoluene	mg/kg	--	--	<0.0623	--	--	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-Pentanone	mg/kg	--	--	<0.249	--	--	--	--	--	--	<0.206	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	mg/kg	--	--	<0.249	--	--	--	--	--	--	0.288	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzene	mg/kg	--	--	<0.0623	--	--	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromobenzene	mg/kg	--	--	<0.0623	--	--	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	mg/kg	--	--	<0.0623	--	--	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	mg/kg	--	--	<0.0623	--	--	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	mg/kg	--	--	<0.0623	--	--	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	mg/kg	--	--	<0.125	--	--	--	--	--	--	<0.103	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Disulfide	mg/kg	--	--	<0.0623	--	--	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	mg/kg	--	--	<0.0623	--	--	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Analyte	Precharacterization Cell	B05	B06	B06	B06	B06	B06	B06	B06	B06	B06	B07	B07	B07	B07	B07	B07	B07	B09	B09	B09	B09	B09	B09	B09
	Sample ID	B05S10S11	B06S01S02A	B06S02BS04A	B06S04BS05	B06S06	B06S07	B06S08	B06S09	B06S10	B07S01S02A	B07S02BS04A	B07S04BS05	B07S07	B07S08	B07S09	B07S10	B07S11S12	B09S01S02A	B09S04S05	B09S06	B09S07	B09S08	B09S09S10	B09S11S12A
	Laboratory Work Order	1503073	1503098	1503098	1503098	1503110	1503110	1503110	1503110	1503110	1503110	1503110	1503110	1503110	1503110	1503110	1503134	1503134	1502189	1502189	1502189	1502189	1502189	1502189	1503247
	Soil Distinction	Natural	Fill	Fill	Natural	Natural	Natural	Natural	Natural	Natural	Fill	Fill	Fill	Natural	Natural	Natural	Natural	Natural	Fill	Natural	Natural	Natural	Natural	Natural	Fill
	Soil Type	Clay			Sand/Gravel	Clay	Clay	Clay	Clay	Clay				Clay	Clay	Clay	Clay	Clay		Clay	Clay	Clay	Clay	Sand/Gravel	
	Depth Interval (ft.)	34 - 38	0 - 3.3	3.3 - 6.6	7 - 10	14 - 16	19 - 21	24 - 26	29 - 31	34 - 36	0 - 3.3	3.3 - 6.6	6.6 - 10	12 - 14	19 - 21	24 - 26	29 - 31	34 - 38	0 - 3	12 - 16	19 - 21	24 - 26	29 - 31	34 - 38	4 - 6.6
	Sampling Date	3/4/2015	3/5/2015	3/5/2015	3/5/2015	3/6/2015	3/6/2015	3/6/2015	3/6/2015	3/6/2015	3/6/2015	3/6/2015	3/6/2015	3/6/2015	3/6/2015	3/6/2015	3/9/2015	3/9/2015	2/12/2015	2/12/2015	2/12/2015	2/12/2015	2/12/2015	2/12/2015	3/13/2015
Preliminary Disposal Facility Category		Uncontaminated	Hazardous Material Type A	Hazardous Material Type B	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Restricted	Uncontaminated	MCP Restricted	Hazardous Material Type A	Hazardous Material Type B	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Restricted	Uncontaminated	MCP Regulated Type A	Hazardous Material Type B	MCP Regulated Type B-1	MCP Restricted	MCP Restricted	Uncontaminated	MCP Restricted	MCP Regulated Type A
Chlorobenzene	mg/kg	--	--	<0.0623	--	--	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	mg/kg	--	--	<0.125	--	--	--	--	--	--	<0.103	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	mg/kg	--	--	<0.0623	--	--	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	mg/kg	--	--	<0.125	--	--	--	--	--	--	<0.103	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	mg/kg	--	--	<0.0623	--	--	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	mg/kg	--	--	<0.0623	--	--	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	mg/kg	--	--	<0.0623	--	--	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromomethane	mg/kg	--	--	<0.0623	--	--	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	mg/kg	--	--	<0.0623	--	--	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Diethyl Ether	mg/kg	--	--	<0.0623	--	--	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Di-isopropyl ether	mg/kg	--	--	<0.0623	--	--	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethyl tertiary-butyl ether	mg/kg	--	--	<0.0623	--	--	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	mg/kg	--	--	<0.0623	--	--	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	mg/kg	--	--	<0.0623	--	--	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene	mg/kg	--	--	<0.0623	--	--	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	mg/kg	--	--	<0.0623	--	--	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride	mg/kg	--	--	<0.249	--	--	--	--	--	--	<0.206	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	mg/kg	--	--	0.514	--	--	--	--	--	--	0.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	mg/kg	--	--	<0.0623	--	--	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	mg/kg	--	--	<0.0623	--	--	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	mg/kg	--	--	<0.0623	--	--	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	mg/kg	--	--	<0.0623	--	--	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--
tert-Butylbenzene	mg/kg	--	--	<0.0623	--	--	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tertiary-amyl methyl ether	mg/kg	--	--	<0.0623	--	--	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	mg/kg	--	--	<0.0623	--	--	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	mg/kg	--	--	<0.249	--	--	--	--	--	--	<0.206	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	mg/kg	--	--	<0.0623	--	--	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	mg/kg	--	--	<0.0623	--	--	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	mg/kg	--	--	<0.0623	--	--	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene	mg/kg	--	--	<0.0623	--	--	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane	mg/kg	--	--	<0.0623	--	--	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	mg/kg	--	--	<0.0623	--	--	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene O	mg/kg	--	--	<0.0623	--	--	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene P,M	mg/kg	--	--	<0.125	--	--	--	--	--	--	<0.103	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylenes (Total)	mg/kg	--	--	<0.125	--	--	--	--	--	--	<0.103	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total VOCs	mg/kg	--	--	0.514	--	--	--	--	--	--	0.478	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds - Low Level Analysis																									
1,1,1,2-Tetrachloroethane	mg/kg	<0.0037	<0.0055	<0.0067	<0.0042	<0.0049	<0.0042	<0.0040	<0.0048	<0.0061	<0.0062	<0.0051	<0.0074	<0.0047	<0.0050	<0.0039	<0.0033	<0.0034	<0.0043	<0.0034	<0.0036	<0.0041	<0.0031	<0.0034	<0.0043
1,1,1-Trichloroethane	mg/kg	<0.0037	<0.0055	<0.0067	<0.0042	<0.0049	<0.0042	<0.0040	<0.0048	<0.0061	<0.0062	<0.0051	<0.0074	<0.0047	<0.0050	<0.0039	<0.0033	<0.0034	<0.0043	<0.0034	<0.0036	<0.0041	<0.0031	<0.0034	<0.0043
1,1,2,2-Tetrachloroethane	mg/kg	<0.0015	<0.0022	<0.0027	<0.0017	<0.0020	<0.0017	<0.0016	<0.0019	<0.0025	<0.0025	<0.0020	<0.0030	<0.0019	<0.0020	<0.0016	<0.0013	<0.0014	<0.0017	<0.0014	<0.0014	<0.0016	<0.0012	<0.0014	<0.0017
1,1,2-Trichloroethane	mg/kg	<0.0037	<0.0055	<0.0067	<0.0042	<0.0049	<0.0042	<0.0040	<0.0048	<0.0061	<0.0062	<0.0051	<0.0074	<0.0047	<0.0050	<0.0039	<0.0033	<0.0034	<0.0043	<0.0034	<0.0036	<0.0041	<0.0031	<0.0034	<0.0043
1,1-Dichloroethane	mg/kg	<0.0037	<0.0055	<0.0067	<0.0042	<0.0049	<0.0042	<0.0040	<0.0048	<0.0061	<0.0062	<0.0051	<0.0074	<0.0047	<0.0050	<0.0039	<0.0033	<0.0034	<0.0043	<0.0034	<0.0036	<0.0041	<0.0031	<0.0034	<0.0043
1,1-Dichloroethene	mg/kg	<0.0037	<0.0055	<0.0067	<0.0042	<0.0049	<0.0042	<0.0040	<0.0048	<0.0061	<0.0062	<0.0051	<0.0074	<0.0047	<0.0050	<0.0039	<0.0033	<0.0034	<0.0043	<0.0034	<0.0036	<0.0041	<0.0031	<0.0034	<0.0043
1,1-Dichloropropene	mg/kg	<0.0037	<0.0055	<0.0067	<0.0042	<0.0049	<0.0042	<0.0040	<0.0048	<0.0061	<0.0062	<0.0051	<0.0074	<0.0047	<0.0050	<0.0039	<0.0033	<0.0034	<0.0043	<0.0034	<0.0036	<0.0041	<0.0031	<0.0034	<0.0043
1,2,3-Trichlorobenzene	mg/kg	<0.0037	<0.0055	<0.0067	<0.0042	<0.0049	<0.0042	<0.0040	<0.0048	<0.0061	<0.0062	<0.0051	<0.0074	<0.0047	<0.0050	<0.0039	<0.0033	<0.0034	<0.0043	<0.0034	<0.0036	<0.0041	<0.0031	<0.0034	<0.0043
1,2,3-Trichloropropane	mg/kg	<0.0037	<0.0055	<0.0067	<0.0042	<0.0049	<0.0042	<0.0040	<0.0048	<0.0061	<0.0062	<0.0051	<0.0074	<0.0047	<0.0050	<0.0039	<0.0033	<0.0034	<0.0043	<0.0034	<0.0036	<0.0041	<0.0031	<0.0034	<0.0043
1,2,4-Trichlorobenzene	mg/kg	<0.0037	<0.0055	<0.0067	<0.0042	<0.0049	<0.0042	<0.0040	<0.0048	<0.0061	<0.0062	<0.0051	<0.0074	<0.0047	<0.0050	<0.0039	<0.0033	<0.0034	<0.0043	<0.0034	<0.0036	<0.0041	<0.0031	<0.0034	<0.0043
1,2,4-Trimethylbenzene	mg/kg	<0.0037	<0.0055	<0.0067	<0.0042	<0.0049	<0.0042	<0.0040	<0.0048	<0.0061	<0.0062	<0.0051	<0.0074	<0.0047	<0.0050	<0.0039	<0.0033	<0.0034	<0.0043	<0.0034	<0.0036	<0.0041	<0.0031	<0.0034	<0.0043
1,2-Dibromo-3-Chloropropane	mg/kg	<0.0037	<0.0055	<0.0067	<0.0042	<0.0049	<0.0042	<0.0040	<0.0048	<0.0061	<0.0062	<0.0051	<0.0074	<0.0047	<0.0050	<0.0039	<0.0033	<0.0034	<0.0043	<0.0034	<0.0036	<0.0041	<0.0031	<0.0034	<0.0043
1,2-Dibromoethane	mg/kg	<0.0037	<0.0055	<0.0067	<0.0042	<0.0049	<0.0042	<0.0040	<0.0048	<0.0061	<0.0062	<0.0051	<0.0074	<0.0047	<0.0050	<0.0039	<0.0033	<0.0034	<0.0043	<0.0034	<0.0036	<0.0041	<0.0031	<0.0034	<0.0043
1,2-Dichlorobenzene	mg/kg	<0.0037	<0.0055	<0.0067	<0.0042	<0.0049	<0.0042	<0.0040	<0.0048	<0.0061	<0.0062	<0.0051	<0.0074	<0.0047	<0.0050	<0.0039	<0.0033	<0.0034	<0.0043	<0.0034	<0.0036	<0.0041	<0.0031	<0.0034	<0.0043
1,2-Dichloroethane	mg/kg	<0.0037	<0.0055	<0.0067	<0.0042	<0.0049	<0.0042	<0.0040	<0.0048	<0.0061	<0.0062	<0.0051	<0.0074	<0.0047	<0.0050	<0.0039	<0.0033	<0.0034	<0.0043	<0.0034	<0.0036	<0.0041	<0.0031	<0.0034	<0.0043
1,2-Dichloropropane	mg/kg	<0.0037	<0.0055	<0.0067	<0.0042	<0.0049	<0.0042	<0.0040	<0.0048	<0.0061	<0.0062	<0.0051	<0.0074	<0.0047	<0.0050	<0.0039	<0.0033	<0.0034	<0.0043	<0.0034	<0.0036	<0.0041	<0.0031	<0.0034	<0.0043
1,3,5-Trimethylbenzene	mg/kg	<0.0037	<0.0055	<0.0067	<0.0042	<0.0049	<0.0042	<0.0040	<0.0048	<0.0061	<0.0062	<0.0051	<0.0074	<0.0047	<0.0050	<0.0039	<0.0033	<0.0034	<0.0043	<0.0034	<0.0036	<0.0041	<0.0031	<0.0034	<0.0043
1,3-Dichlorobenzene	mg/kg	<0.0037	<0.0055	<0.0067	<0.0042	<0.0049	<0.0042	<0.0040	<0.0048	<0.0061	<0.0062	<0.0051	<0.0074	<0.0047	<0.0050	<0.0039	<0.0033	<0.0034	<0.0043	<0.0034	<0.0036	<0.0041	<0.0031	<0.0034	<0.0043
1,3-Dichloropropane	mg/kg	<0.0037	<0.0055	<0.0067	<0.0042	<0.0049	<0.0042	<0.0040	<0.0048	<0.0061	<0.0062	<0.0051	<0.0074	<0.0047	<0.0050	<0.0039	<0.0033	<0.0034	<0.0043	<0.0034	<0.0036	<0.0041	<0.0031	<0.0034	<0.0043
1,4-Dichlorobenzene	mg/kg	<0.0037	<0.0055	<0.0067	<0.0042	<0.0049	<0.0042	<0.0040	<0.0048	<0.0061	<0.0062	<0.0051	<0.0074	<0.0047	<0.0050	<0.0039	<0.0033	<0.0034	<0.0043	<0.0034	<0.0036	<0.0041	<0.0031	<0.0034	<0.0043
1,4-Dioxane	mg/kg	<0.0743	<0.111	<0.133	<0.0843	<0.0990	<0.0841	<0.0798	<0.0953	<0.123	<0.124	<0.101	<0.149	<0.0943	<0.0991	<0.0780	<0.0657	<0.0683	<0.0858	<0.0680	<0.0722	<0.0811	<0.0617	<0.0679	<0.0868
2,2-Dichloropropane	mg/kg	<0.0037	<0.0055	<0.0067	<0.0042	<0.0049	<0.0042	<0.0040	<0.0048	<0.0061	<0.0062	<0.0051	<0.0074	<0.0047	<0.0050	<0.0039	<0.0033	<0.0034	<0.0043	<0.0034	<0.0036	<0.0041	<0.0031	<0.0034	<0.0043
2-Butanone	mg/kg	<0.0074	<0.0111	<0.0133	0.0152	<0.0099	<0.0084	<0.0080	<0.0095	<0.0123	<0.0124	<0.0101	<0.0149	<0.0094	<0.0099	<0.0078	<0.0066	<0.0068	<0.0086	<0.0068	<0.0072	<0.0081	<0.0062	<0.0068	<0.0087
2-Chlorotoluene	mg/kg	<0.0037	<0.0055	<0.0067	<0.0042	<0.0049	<0.0042	<0.0040	<0.0048	<0.0061	<0.0062	<0.0051	<0.0074	<0.0047	<0.0050	<0.0039	<0.0033	<0.0034	<0.0043	<0.0034	<0.0036	<0.0041	<0.0031	<0.0034	<0.0043
2-Hexanone	mg/kg	<0.0074	<0.0111	<0.0133	<0.0084	<0.0099	<0.0084	<0.0080	<0.0095	<0.0123	<0.0124	<0.0101	<0.0149	<0.0094	<0.0099	<0.0078	<0.0066	<0.0068	<0.0086	<0.0068	<0.0072	<0.0081	<0.0062	<0.0068	<0.0087
4-Chlorotoluene	mg/kg	<0.0037	<0.0055	<0.0067	<0.0042	<0.0049	<0.0042	<0.0040	<0.0048	<0.0061	<0.0062	<0.0051	<0.0074	<0.0047	<0.0050	<0.0039	<0.0033	<0.0034	<0.0043	<0.0034	<0.0036	<0.0041	<0.0031	<0.0034	<0.0043
4-Isopropyltoluene	mg/kg	<0.0037	<0.0055	<0.0067	<0.0042	<0.0049	<0.0042	<0.0040	<0.0048	<0.0061	<0.0062	<0.0051	<0.0074	<0.0047	<0.0050	<0.0039	<0.0033	<0.0034	<0.0043	0.0163	<0.0036	<0.0041	<0.0031	<0.0034	<0.0043
4-Methyl-2-Pentanone	mg/kg	<0.0074	<0.0111	<0.0133	<0.0084	<0.0099	<0.0084	<0.0080	<0.0095	<0.0123	<0.0124	<0.0101	<0.0149	<0.0094	<0.0099	<0.0078	<0.0066	<0.0068	<0.0086	<0.0068	<0.0072	<0.0081	<0.0062	<0.0068	<0.0087
Acetone	mg/kg	<0.0074	0.0214	0.0214	0.127	<0.0099	<0.0084	<0.0080	<0.0095	<0.0123	0.0279	0.0274	0.0755	<0.0094	0.0122	<0.0078	<0.0066	0.0073	<0.0086	0.0721	<0.0072	<0.0081	<0.0062	<0.0068	<0.0087
Benzene	mg/kg	<0.0037	<0.0055	<0.0067	<0.0042	<0.0049	<0.0042	<0.0040	<0.0048	<0.0061	<0.0062	<0.0051	<0.0074	<0.0047	<0.0050	<0.0039	<0.0033	<0.0034	<0.0043	<0.0034	<0.0036	<0.0041	<0.0031	<0.0034	<0.0043
Bromobenzene	mg/kg	<0.0037	<0.0055	<0.0067	<0.0042	<0.0049	<0.0042	<0.0040	<0.0048	<0.0061	<0.0062	<0.0051	<0.0074	<0.0047	<0.0050	<0.0039	<0.0033	<0.0034	<0.0043	<0.0034	<0.0036	<0.0041	<0.0031	<0.0034	<0.0043
Bromochloromethane	mg/kg	<0.0037	<0.0055	<0.0067	<0.0042	<0.0049	<0.0042	<0.0040	<0.0048	<0.0061	<0.0062	<0.0051	<0.0074	<0.0047	<0.0050	<0.0039	<0.0033	<0.0034	<0.0043	<0.0034	<0.0036	<0.0041	<0.0031	<0.0034	<0.0043
Bromodichloromethane	mg/kg	<0.0037	<0.0055	<0.0067	<0.0042	<0.0049	<0.0042	<0.0040	<0.0048	<0.0061	<0.0062	<0.0051	<0.0074	<0.0047	<0.0050	<0.0039	<0.0033	<0.0034	<0.0043	<0.0034	<0.0036	<0.0041	<0.0031	<0.0034	<0.0043
Bromoform	mg/kg	<0.0037	<0.0055	<0.0067	<0.0042	<0.0049	<0.0042	<0.0040	<0.0048	<0.0061	<0.0062	<0.0051	<0.0074	<0.0047	<0.0050	<0.0039	<0.0033	<0.0034	<0.0043	<0.0034	<0.0036	<0.0041	<0.0031	<0.0034	<0.0043
Bromomethane	mg/kg	<0.0074	<0.0111	<0.0133	<0.0084	<0.0099	<0.0084	<0.0080	<0.0095	<0.0123	<0.0124	<0.0101	<0.0149	<0.0094	<0.0099	<0.0078	<0.0066	<0.0068	<0.0086	<0.0068	<0.0072	<0.0081	<0.0062	<0.0068	<0.0087
Carbon Disulfide	mg/kg	<0.0037	<0.0055	<0.0067	<0.0042	<0.0049	<0.0042	<0.0040	<0.0048	<0.0061	<0.0062	<0.0051	<0.0074	<0.0047	<0.0050	<0.0039	<0.0033	<0.0034	<0.0043	<0.0034	<0.0036	<0.0041	<0.0031	<0.0034	<0.0043
Carbon Tetrachloride	mg/kg	<0.0037	<0.0055	<0.0067	<0.0042	<0.0049	<0.0042	<0.0040	<0.0048	<0.0061	<0.0062	<0.0051	<0.0074	<0.0047	<0.0050	<0.0039	<0.0033	<0.0034	<0.0043	<0.0034	<0.0036	<0.0041	<0.0031	<0.0034	<0.0043
Chlorobenzene	mg/kg	<0.0037	<0.0055	<0.0067	<0.0042	<0.0049	<0.0042	<0.0040	<0.0048	<0.0061	<0.0062	<0.0051	<0.0074	<0.0047	<0.0050	<0.0039	<0.0033	<0.0034	<0.0043	<0.0034	<0.0036	<0.0041	<0.0031	<0.0034	<0.0043
Chloroethane	mg/kg	<0.0074	<0.0111	<0.0133	<0.0084	<0.0099	<0.0084	<0.0080	<0.0095	<0.0123	<0.0124	<0.0101	<0.0149	<0.0094	<0.0099	<0.0078	<0.0066	<0.0068	<0.0086	<0.0068	<0.0072	<0.0081	<0.0062	<0.0068	<0.0087
Chloroform	mg/kg	<0.0037	<0.0055	<0.0067	<0.0042	<0.0049	<0.0042	<0.0040	<0.0048	<0.0061	<0.0062	<0.0051	<0.0074	<0.0047	<0.0050	<0.0039	<0.0033	<0.0034	<0.0043	<0.0034	<0.0036	<0.0041	<0.0031	<0.0034	<0.0043
Chloromethane	mg/kg	<0.0074	<0.0111	<0.0133	<0.0084	<0.0099	<0.0084	<0.0080	<0.0095	<0.0123	<0.0124	<0.0101	<0.0149	<0.0094	<0.0099	<0.0078	<0.0066	<0.0068	<0.0086	<0.0068	<0.0072	<0.0081	<0.0062	<0.0068	<0.0087
cis-1,2-Dichloroethene	mg/kg	<0.0037	<0.0055	<0.0067	<0.0042	<0.0049	<0.0042	<0.0040	<0.0048	<0.0061	<0.0062	<0.0051	<0.0074	<0.0047	<0.0050	<0.0039	<0.0033	<0.0034	<0.0043	<0.0034	<0.0036	<0.0041	<0.0031	<0.0034	<0.0043
cis-1,3-Dichloropropene	mg/kg	<0.0037	<0.0055	<0.0067	<0.0042	<0.0049	<0.0042	<0.0040	<0.0048	<0.0061	<0.0062	<0.0051	<0.0074	<0.0047	<0.0050	<0.0039	<0.0033	<0.0034	<0.0043	<0.0034	<0.0036	<0.0041	<0.0031	<0.0034	<0.0043
Dibromochloromethane	mg/kg	<0.0015	<0.0022	<0.0027	<0.0017	<0.0020	<0.0017	<0.0016	<0.0019	<0.0025	<0.0025	<0.0020	<0.0030	<0.0019	<0.0020	<0.0016	<0.0013	<0.0014	<0.0017	<0.0014	<0.0014	<0.0016	<0.0012	<0.0014	<0.0017
Dibromomethane	mg/kg	<0.0037	<0.0055	<0.0067	<0.0042	<0.0049	<0.0042	<0.0040	<0.0048	<0.0061	<0.0062	<0.0051	<0.0074	<0.0047	<0.0050	<0.0039	<0.0033	<0.0034	<0.0043	<0.0034	<0.0036	<0.0041	<0.0031	<0.0034	<0.0043
Dichlorodifluoromethane	mg/kg	<0.0074	<0.0111	<0.0133	<0.0084	<0.0099	<0.0084	<0.0080	<0.0095	<0.0123	<0.0124	<0.0101	<0.0149	<0.0094	<0.0099	<0.0078	<0.0066	<0.0068	<0.0086	<0.0068	<0.0072	<0.0081	<0.0062	<0.0068	<0.0087
Diethyl Ether	mg/kg	<0.0037	<0.0055	<0.0067	<0.0042	<0.0049	<0.0042	<0.0040	<0.0048	<0.0061	<0.0062	<0.0051	<0.0074	<0.0047	<0.0050	<0.0039	<0.0033	<0.0034	<0.0043	<0.0034	<0.0036	<0.0041	<0.0031	<0.0034	<0.0043
Di-isopropyl ether	mg/kg	<0.0037	<0.0055	<0.0067	<0.0042	<0.0049	<0.0042	<0.0040	<0.0048	<0.0061	<0.0062	<0.0051	<0.0074	<0.0047	<0.0050	<0.0039	<0.0033	<0.0034	<0.0043	<0.0034	<0.0036	<0.0041	<0.0031	<0.0034	<0.0043
Ethyl tertiary-butyl ether	mg/kg	<0.0037	<0.0055	<0.0067	<0.0042	<0.0049	<0.0042	<0.0040	<0.0048	<0.0061	<0.0062	<0.0051	<0.0074	<0.0047	<0.0050	<0.0039	<0.0033	<0.0034	<0.0043	<0.0034	<0.0036	<0.0041	<0.0031	<0.0034	<0.0043
Ethylbenzene	mg/kg	<0.0037	<0.0055	<0.0067	<0.0042	<0.0049	<0.0042	<0.0040	<0.0048	<0.0061	<0.0062	<0.0051	<0.0074	<0.0047	<0.0050	<0.0039	<0.0033	<0.0034	<0.0043	<0.0034	<0.0036	<0.0041	<0.0031	<0.0034	<0.0043
Hexachlorobutadiene	mg/kg	<0.0037	<0.0055	<0.0067	<0.0042	<0.0049	<0.0042	<0.0040	<0.0048	<0.0061	<0.0062	<0.0051	<0.0074	<0.0047	<0.0050	<0.0039	<0.0033	<0.0034	<0.0043	<0.0034	<0.0036	<0.0041	<0.0031	<0.0034	<0.0043
Isopropylbenzene	mg/kg	<0.0037	<0.0055	<0.0067	<0.0042	<0.0049	<0.0042	<0.0040	<0.0048	<0.0061	<0.0062	<0.0051	<0.0074	<0.0047	<0.0050	<0.0039	<0.0033	<0.0034	<0.0043	<0.0034	<0.0036	<0.0041	<0.0031	<0.0034	<0.0043
Methyl tert-Butyl Ether	mg/kg	<0.0037	<0.0055	<0.0067	<0.0042	<0.0049	<0.0042	<0.0040	<0.0048	<0.0061	<0.0062	<0.0051	<0.0074	<0.0047	<0.0050	<0.0039	<0.0033	<0.0034	<0.0043	<0.0034	<0.0036	<0.0041	<0.0031	<0.0034	<0.0043
Methylene Chloride	mg/kg	<0.0074	<0.0111	<0.0133	<0.0084	<0.0099	<0.0084	<0.0080	<0.0095	<0.0123	<0.0124	<0.0101	<0.0149	<0.0094	<0.0099	<0.0078	<0.0066	<0.0068	<0.0086	<0.0068	<0.0072	<0.0081	<0.0062	<0.0068	<0.0087
Naphthalene	mg/kg	<0.0037	<0.0055	0.0281	<0.0042	<0.0049	<0.0042	<0.0040	<0.0048	<0.0061	<0.0062	<0.0051	<0.0074	<0.0047	<0.0050	<0.0039	<0.0033	<0.0034	<0.0043	<0.0034	<0.0036	<0.0041	<0.0031	<0.0034	<0.0043
n-Butylbenzene	mg/kg	<0.0037	<0.0055	<0.0067	<0.0042	<0.0049	<0.0042	<0.0040	<0.0048	<0.0061	<0.0062	<0.0051	<0.0074	<0.0047	<0.0050	<0.0039	<0.0033	<0.0034	<0.0043	<0.0034	<0.0036	<0.0041	<0.0031	<0.0034	<0.0043
n-Propylbenzene	mg/kg	<0.0037	<0.0055	<0.0067	<0.0042	<0.0049	<0.0042	<0.0040	<0.0048	<0.0061	<0.0062	<0.0051	<0.0074	<0.0047	<0.0050	<0.0039	<0.0033	<0.0034	<0.0043	<0.0034	<0.0036	<0.0041	<0.0031	<0.0034	<0.0043
sec-Butylbenzene	mg/kg	<0.0037	<0.0055	<0.0067	<0.0042	<0.0049	<0.0042	<0.0040	<0.0048	<0.0061	<0.0062	<0.0051	<0.0074	<0.0047	<0.0050	<0.0039	<0.0033	<0.0034	<0.0043	<0.0034	<0.0036	<0.0041	<0.0031	<0.0034	<0.0043

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Table 1
Soil Precharacterization Data

Wynn Resort Casino
Everett, Massachusetts

Analyte	Precharacterization Cell	B05	B06	B06	B06	B06	B06	B06	B06	B06	B06	B07	B07	B07	B07	B07	B07	B07	B09	B09	B09	B09	B09	B09	B09
	Sample ID	B05S10S11	B06S01S02A	B06S02BS04A	B06S04BS05	B06S06	B06S07	B06S08	B06S09	B06S10	B06S10	B07S01S02A	B07S02BS04A	B07S04BS05	B07S07	B07S08	B07S09	B07S10	B07S11S12	B09S01S02A	B09S04S05	B09S06	B09S07	B09S08	B09S09S10	B09S11S12A
	Laboratory Work Order	1503073	1503098	1503098	1503098	1503110	1503110	1503110	1503110	1503110	1503110	1503110	1503110	1503110	1503110	1503110	1503110	1503134	1503134	1502189	1502189	1502189	1502189	1502189	1502189	1503247
	Soil Distinction	Natural	Fill	Fill	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Fill	Fill	Fill	Natural	Natural	Natural	Natural	Natural	Fill	Natural	Natural	Natural	Natural	Natural	Fill
	Soil Type	Clay			Sand/Gravel	Clay	Clay	Clay	Clay	Clay	Clay				Clay	Clay	Clay	Clay	Clay		Clay	Clay	Clay	Sand/Gravel	Sand/Gravel	
	Depth Interval (ft.)	34 - 38	0 - 3.3	3.3 - 6.6	7 - 10	14 - 16	19 - 21	24 - 26	29 - 31	34 - 36	34 - 36	0 - 3.3	3.3 - 6.6	6.6 - 10	12 - 14	19 - 21	24 - 26	29 - 31	34 - 38	0 - 3	12 - 16	19 - 21	24 - 26	29 - 31	34 - 38	4 - 6.6
	Sampling Date	3/4/2015	3/5/2015	3/5/2015	3/5/2015	3/6/2015	3/6/2015	3/6/2015	3/6/2015	3/6/2015	3/6/2015	3/6/2015	3/6/2015	3/6/2015	3/6/2015	3/6/2015	3/6/2015	3/6/2015	3/9/2015	3/9/2015	2/12/2015	2/12/2015	2/12/2015	2/12/2015	2/12/2015	2/12/2015	3/13/2015
Preliminary Disposal Facility Category		Uncontaminated	Hazardous Material Type A	Hazardous Material Type B	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Restricted	Uncontaminated	MCP Restricted	Hazardous Material Type A	Hazardous Material Type B	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Restricted	Uncontaminated	MCP Regulated Type A	Hazardous Material Type B	MCP Regulated Type B-1	MCP Restricted	MCP Restricted	Uncontaminated	MCP Restricted	MCP Regulated Type A
Styrene	mg/kg	<0.0037	<0.0055	<0.0067	<0.0042	<0.0049	<0.0042	<0.0040	<0.0048	<0.0061	<0.0062	<0.0051	<0.0074	<0.0047	<0.0050	<0.0039	<0.0033	<0.0034	<0.0043	<0.0034	<0.0036	<0.0041	<0.0031	<0.0034	<0.0043
tert-Butylbenzene	mg/kg	<0.0037	<0.0055	<0.0067	<0.0042	<0.0049	<0.0042	<0.0040	<0.0048	<0.0061	<0.0062	<0.0051	<0.0074	<0.0047	<0.0050	<0.0039	<0.0033	<0.0034	<0.0043	<0.0034	<0.0036	<0.0041	<0.0031	<0.0034	<0.0043
Tertiary-amyl methyl ether	mg/kg	<0.0037	<0.0055	<0.0067	<0.0042	<0.0049	<0.0042	<0.0040	<0.0048	<0.0061	<0.0062	<0.0051	<0.0074	<0.0047	<0.0050	<0.0039	<0.0033	<0.0034	<0.0043	<0.0034	<0.0036	<0.0041	<0.0031	<0.0034	<0.0043
Tetrachloroethene	mg/kg	<0.0037	<0.0055	<0.0067	<0.0042	<0.0049	<0.0042	<0.0040	<0.0048	<0.0061	<0.0062	<0.0051	<0.0074	<0.0047	<0.0050	<0.0039	<0.0033	<0.0034	<0.0043	<0.0034	<0.0036	<0.0041	<0.0031	<0.0034	<0.0043
Tetrahydrofuran	mg/kg	<0.0037	<0.0055	<0.0067	<0.0042	<0.0049	<0.0042	<0.0040	<0.0048	<0.0061	<0.0062	<0.0051	<0.0074	<0.0047	<0.0050	<0.0039	<0.0033	<0.0034	<0.0043	<0.0034	<0.0036	<0.0041	<0.0031	<0.0034	<0.0043
Toluene	mg/kg	<0.0037	<0.0055	<0.0067	<0.0042	<0.0049	<0.0042	<0.0040	<0.0048	<0.0061	<0.0062	<0.0051	<0.0074	<0.0047	<0.0050	<0.0039	<0.0033	<0.0034	<0.0043	<0.0034	<0.0036	<0.0041	<0.0031	<0.0034	<0.0043
trans-1,2-Dichloroethene	mg/kg	<0.0037	<0.0055	<0.0067	<0.0042	<0.0049	<0.0042	<0.0040	<0.0048	<0.0061	<0.0062	<0.0051	<0.0074	<0.0047	<0.0050	<0.0039	<0.0033	<0.0034	<0.0043	<0.0034	<0.0036	<0.0041	<0.0031	<0.0034	<0.0043
trans-1,3-Dichloropropene	mg/kg	<0.0037	<0.0055	<0.0067	<0.0042	<0.0049	<0.0042	<0.0040	<0.0048	<0.0061	<0.0062	<0.0051	<0.0074	<0.0047	<0.0050	<0.0039	<0.0033	<0.0034	<0.0043	<0.0034	<0.0036	<0.0041	<0.0031	<0.0034	<0.0043
Trichloroethene	mg/kg	<0.0037	<0.0055	<0.0067	<0.0042	<0.0049	<0.0042	<0.0040	<0.0048	<0.0061	<0.0062	<0.0051	<0.0074	<0.0047	<0.0050	<0.0039	<0.0033	<0.0034	<0.0043	<0.0034	<0.0036	<0.0041	<0.0031	<0.0034	<0.0043
Trichlorofluoromethane	mg/kg	<0.0037	<0.0055	<0.0067	<0.0042	<0.0049	<0.0042	<0.0040	<0.0048	<0.0061	<0.0062	<0.0051	<0.0074	<0.0047	<0.0050	<0.0039	<0.0033	<0.0034	<0.0043	<0.0034	<0.0036	<0.0041	<0.0031	<0.0034	<0.0043
Vinyl Chloride	mg/kg	<0.0074	<0.0111	<0.0133	<0.0084	<0.0099	<0.0084	<0.0080	<0.0095	<0.0123	<0.0124	<0.0101	<0.0149	<0.0094	<0.0099	<0.0078	<0.0066	<0.0068	<0.0086	<0.0068	<0.0072	<0.0081	<0.0062	<0.0068	<0.0087
Xylene O	mg/kg	<0.0037	<0.0055	<0.0067	<0.0042	<0.0049	<0.0042	<0.0040	<0.0048	<0.0061	<0.0062	<0.0051	<0.0074	<0.0047	<0.0050	<0.0039	<0.0033	<0.0034	<0.0043	<0.0034	<0.0036	<0.0041	<0.0031	<0.0034	<0.0043
Xylene P,M	mg/kg	<0.0074	<0.0111	<0.0133	<0.0084	<0.0099	<0.0084	<0.0080	<0.0095	<0.0123	<0.0124	<0.0101	<0.0149	<0.0094	<0.0099	<0.0078	<0.0066	<0.0068	<0.0086	<0.0068	<0.0072	<0.0081	<0.0062	<0.0068	<0.0087
Xylenes (Total)	mg/kg	<0.0074	<0.0111	<0.0133	<0.0084	<0.0099	<0.0084	<0.0080	<0.0095	<0.0123	<0.0124	<0.0101	<0.0149	<0.0094	<0.0099	<0.0078	<0.0066	<0.0068	<0.0086	<0.0068	<0.0072	<0.0081	<0.0062	<0.0068	<0.0087
Total VOCs (Low Level)	mg/kg	ND	0.0214	0.0495	0.1422	ND	ND	ND	ND	ND	0.0279	0.0274	0.0755	ND	0.0122	ND	ND	0.0073	ND	0.0884	ND	ND	ND	ND	ND	ND
Semi-Volatile Organic Compounds																										
1,2,4-Trichlorobenzene	mg/kg	<0.835	<0.913	<1.09	<0.911	<1.06	<1.09	<1.13	<0.844	<0.950	<0.881	<0.892	<0.863	<1.06	<1.10	<0.873	<0.914	<1.00	<0.962	<1.07	<1.11	<1.11	<0.969	<0.966	<0.973
1,2-Dichlorobenzene	mg/kg	<0.835	<0.913	<1.09	<0.911	<1.06	<1.09	<1.13	<0.844	<0.950	<0.881	<0.892	<0.863	<1.06	<1.10	<0.873	<0.914	<1.00	<0.962	<1.07	<1.11	<1.11	<0.969	<0.966	<0.973
1,3-Dichlorobenzene	mg/kg	<0.835	<0.913	<1.09	<0.911	<1.06	<1.09	<1.13	<0.844	<0.950	<0.881	<0.892	<0.863	<1.06	<1.10	<0.873	<0.914	<1.00	<0.962	<1.07	<1.11	<1.11	<0.969	<0.966	<0.973
1,4-Dichlorobenzene	mg/kg	<0.419	<0.458	<0.546	<0.457	<0.530	<0.546	<0.565	<0.423	<0.476	<0.442	<0.447	<0.433	<0.534	<0.551	<0.438	<0.458	<0.502	<0.482	<0.535	<0.555	<0.554	<0.486	<0.485	<0.488
2,4,5-Trichlorophenol	mg/kg	<0.835	<0.913	<1.09	<0.911	<1.06	<1.09	<1.13	<0.844	<0.950	<0.881	<0.892	<0.863	<1.06	<1.10	<0.873	<0.914	<1.00	<0.962	<1.07	<1.11	<1.11	<0.969	<0.966	<0.973
2,4,6-Trichlorophenol	mg/kg	<0.835	<0.913	<1.09	<0.911	<1.06	<1.09	<1.13	<0.844	<0.950	<0.881	<0.892	<0.863	<1.06	<1.10	<0.873	<0.914	<1.00	<0.962	<1.07	<1.11	<1.11	<0.969	<0.966	<0.973
2,4-Dichlorophenol	mg/kg	<0.835	<0.913	<1.09	<0.911	<1.06	<1.09	<1.13	<0.844	<0.950	<0.881	<0.892	<0.863	<1.06	<1.10	<0.873	<0.914	<1.00	<0.962	<1.07	<1.11	<1.11	<0.969	<0.966	<0.973
2,4-Dimethylphenol	mg/kg	<0.835	<0.913	<1.09	<0.911	<1.06	<1.09	<1.13	<0.844	<0.950	<0.881	<0.892	<0.863	<1.06	<1.10	<0.873	<0.914	<1.00	<0.962	<1.07	<1.11	<1.11	<0.969	<0.966	<0.973
2,4-Dinitrophenol	mg/kg	<4.19	<4.58	<5.46	<4.57	<5.30	<5.46	<5.65	<4.23	<4.76	<4.42	<4.47	<4.33	<5.34	<5.51	<4.38	<4.58	<5.02	<4.82	<5.35	<5.55	<5.54	<4.86	<4.85	<4.88
2,4-Dinitrotoluene	mg/kg	<0.835	<0.913	<1.09	<0.911	<1.06	<1.09	<1.13	<0.844	<0.950	<0.881	<0.892	<0.863	<1.06	<1.10	<0.873	<0.914	<1.00	<0.962	<1.07	<1.11	<1.11	<0.969	<0.966	<0.973
2,6-Dinitrotoluene	mg/kg	<0.835	<0.913	<1.09	<0.911	<1.06	<1.09	<1.13	<0.844	<0.950	<0.881	<0.892	<0.863	<1.06	<1.10	<0.873	<0.914	<1.00	<0.962	<1.07	<1.11	<1.11	<0.969	<0.966	<0.973
2-Chloronaphthalene	mg/kg	<0.835	<0.913	<1.09	<0.911	<1.06	<1.09	<1.13	<0.844	<0.950	<0.881	<0.892	<0.863	<1.06	<1.10	<0.873	<0.914	<1.00	<0.962	<1.07	<1.11	<1.11	<0.969	<0.966	<0.973
2-Chlorophenol	mg/kg	<0.835	<0.913	<1.09	<0.911	<1.06	<1.09	<1.13	<0.844	<0.950	<0.881	<0.892	<0.863	<1.06	<1.10	<0.873	<0.914	<1.00	<0.962	<1.07	<1.11	<1.11	<0.969	<0.966	<0.973
2-Methylnaphthalene	mg/kg	<0.835	<0.913	<1.09	<0.911	<1.06	<1.09	<1.13	<0.844	<0.950	<0.881	<0.892	<0.863	<1.06	<1.10	<0.873	<0.914	<1.00	<0.962	<1.07	<1.11	<1.11	<0.969	<0.966	<0.973
2-Methylphenol	mg/kg	<0.835	<0.913	<1.09	<0.911	<1.06	<1.09	<1.13	<0.844	<0.950	<0.881	<0.892	<0.863	<1.06	<1.10	<0.873	<0.914	<1.00	<0.962	<1.07	<1.11	<1.11	<0.969	<0.966	<0.973
2-Nitrophenol	mg/kg	<0.835	<0.913	<1.09	<0.911	<1.06	<1.09	<1.13	<0.844	<0.950	<0.881	<0.892	<0.863	<1.06	<1.10	<0.873	<0.914	<1.00	<0.962	<1.07	<1.11	<1.11	<0.969	<0.966	<0.973
3,3´-Dichlorobenzidine	mg/kg	<1.67	<1.83	<2.18	<1.82	<2.12	<2.18	<2.26	<1.69	<1.90	<1.77	<1.79	<1.73	<2.13	<2.20	<1.75	<1.83	<2.01	<1.93	<2.14	<2.22	<2.21	<1.94	<1.94	<1.95
3+4-Methylphenol	mg/kg	<1.67	<1.83	<2.18	<1.82	<2.12	<2.18	<2.26	<1.69	<1.90	<1.77	<1.79	<1.73	<2.13	<2.20	<1.75	<1.83	<2.01	<1.93	<2.14	<2.22	<2.21	<1.94	<1.94	<1.95
4-Bromophenyl-phenylether	mg/kg	<0.835	<0.913	<1.09	<0.911	<1.06	<1.09	<1.13	<0.844	<0.950	<0.881	<0.892	<0.863	<1.06	<1.10	<0.873	<0.914	<1.00	<0.962	<1.07	<1.11	<1.11	<0.969	<0.966	<0.973
4-Chloroaniline	mg/kg	<1.67	<1.83	<2.18	<1.82	<2.12	<2.18	<2.26	<1.69	<1.90	<1.77	<1.79	<1.73	<2.13	<2.20	<1.75	<1.83	<2.01	<1.93	<2.14	<2.22	<2.21	<1.94	<1.94	<1.95
4-Nitrophenol	mg/kg	<4.19	<4.58	<5.46	<4.57	<5.30	<5.46	<5.65	<4.23	<4.76	<4.42	<4.47	<4.33	<5.34	<5.51	<4.38	<4.58	<5.02	<4.82	<5.35	<5.55	<5.54	<4.86	<4.85	<4.88
Acenaphthene	mg/kg	<0.835	2.12	1.66	<0.911	<1.06	<1.09	<1.13	<0.844	<0.950	<0.881	1.52	<0.863	<1.06	<1.10	<0.873	<0.914	<1.00	5.67	<1.07	<1.11	<1.11	<0.969	<0.966	<0.973
Acenaphthylene	mg/kg	<0.835	<0.913	<1.09	<0.911	<1.06	<1.09	<1.13	<0.844	<0.950	<0.881	<0.892	<0.863	<1.06	<1.10	<0.873	<0.914	<1.00	<0.962	<1.07	<1.11	<1.11	<0.969	<0.966	<0.973
Acetophenone	mg/kg	<1.67	<1.83	<2.18	<1.82	<2.12	<2.18	<2.26	<1.69	<1.90	<1.77	<1.79	<1.73	<2.13	<2.20	<1.75	<1.83	<2.01	<1.93	<2.14	<2.22	<2.21	<1.94	<1.94	<1.95
Aniline	mg/kg	<4.19	<4.58	<5.46	<4.57	<5.30	<5.46	<5.65	<4.23	<4.76	<4.42	<4.47	<4.33	<5.34	<5.51	<4.38	<4.58	<5.02	<4.82	<5.35	<5.55	<5.54	<4.86	<4.85	<4.88
Anthracene	mg/kg	<0.835	5.47	5.75	<0.911	<1.06	<1.09	<1.13	<0.844	<0.950	1.76	4.7	<0.863	<1.06	<1.10	<0.873	<0.914	<1.00	14	<1.07	<1.11	<1.11	<0.969	<0.966	<0.973
Azobenzene	mg/kg	<0.835	<0.913	<1.09	<0.911	<1.06	<1.09	<1.13	<0.844	<0.950	<0.881	<0.892	<0.863	<1.06	<1.10	<0.873	<0.914	<1.00	<0.962	<1.07	<1.11	<1.11	<0.969	<0.966	<0.973
Benzo(a)anthracene	mg/kg	<0.835	11.1	13.8	<0.911	<1.06	<1.09	<1.13	<0.844	<0.950	5.13	12	<0.863	<1.06	<1.10	<0.873	<0.914	<1.00	39.6	<1.07	<1.11	<1.11	<0.969	<0.966	<0.973
Benzo(a)pyrene	mg/kg	<0.419	9.17	10.8	<0.457	<0.530	<0.546	<0.565	<0.423	<0.476	4.41	8.79	<0.433	<0.534	<0.551	<0.438	<0.458	<0.502	23.5	<0.535	<0.555	<0.554	<0.486	<0.485	<0.488
Benzo(b)fluoranthene	mg/kg	<0.835	8.62	9.95	<0.911	<1.06	<1.09	<1.13	<0.844	<0.950	5.12	10	<0.863	<1.06	<1.10	<0.873	<0.914	<1.00	26.4	<1.07	<1.11	<1.11	<0.969	<0.966	<0.973
Benzo(g,h,i)perylene	mg/kg	<0.835	2.96	4.16	<0.911	<1.06	<1.09	<1.13	<0.844	<0.950	1.21	3.68	<0.863	<1.06	<1.10	<0.873	<0.914	<1.00	7.13	<1.07	<1.11	<1.11	<0.969	<0.966	<0.973
Benzo(k)fluoranthene	mg/kg	<0.835	8.33	9.97	<0.911	<1.06	<1.09	<1.13	<0.844	<0.950	4.31	6.64	<0.863	<1.06	<1.10	<0.873	<0.914	<1.00	19.6	<1.07	<1.11	<1.11	<0.969	<0.966	<0.973
bis(2-Chloroethoxy)methane	mg/kg	<0.835	<0.913	<1.09	<0.911	<1.06	<1.09	<1.13	<0.844	<0.950	<0.881	<0.892	<0.863	<1.06	<1.10	<0.873	<0.914	<1.00	<0.962	<1.07	<1.11	<1.11	<0.969	<0.966	<0.973
bis(2-Chloroethyl)ether	mg/kg	<0.419	<0.458	<0.546	<0.457	<0.530	<0.546	<0.565	<0.423	<0.476	<0.442	<0.447	<0.433	<0.534	<0.551	<0.438	<0.458	<0.502	<0.482	<0.535	<0.555	<0.554	<0.486	<0.485	<0.488
bis(2-chloroisopropyl)Ether	mg/kg	<0.419	<0.458	<0.546	<0.457	<0.530	<0.546	<0.565	<0.423	<0.476	<0.442	<0.447	<0.433	<0.534	<0.551	<0.438	<0.458	<0.502	<0.482	<0.535	<0.555	<0.554	<0.486	<0.485	<0.488
bis(2-Ethylhexyl)phthalate	mg/kg	<0.835	<0.913	<1.09	<0.911	<1.06	<1.09	<1.13	<0.844	<0.950	<0.881	<0.892	<0.863	<1.06	<1.10	<0.873	<0.914	<1.00	<0.962	<1.07	<1.11	<1.11	<0.969	<0.966	9.71
Butylbenzylphthalate	mg/kg	<0.835	<0.913	<1.09	<0.911	<1.06	<1.09	<1.13	<0.844	<0.950	<0.881	<0.892	<0.863	<1.06	<1.10	<0.873	<0.914	<1.00	<0.962	<1.07	<1.11	<1.11	<0.969	<0.966	<0.973
Chrysene	mg/kg	<0.419	9.12	12.1	<0.457	<0.530	<0.546	<0.565	<0.423	<0.476	4.43	10.7	<0.433	<0.534	<0.551	<0.438	<0.458	<0.502	35.5	<0.535	<0.555	<0.554	<0.486	<0.485	<0.488
Dibenzo(a,h)Anthracene	mg/kg	<0.419	2.17	3.02	<0.457	<0.530	<0.546	<0.565	<0.423	<0.476	0.732	2.17	<0.433	<0.534	<0.551	<0.438	<0.458	<0.502	5.08	<0.535	<0.555	<0.554	<0.486	<0.485	<0.488
Dibenzofuran	mg/kg	<0.835	1.44	1.51	<0.911	<1.06	<1.09	<1.13	<0.844	<0.950	<0.881	1.27	<0.863	<1.06	<1.10	<0.873	<0.914	<1.00	2.94	<1.07	<1.11	<1.11	<0.969	<0.966	<0.973
Diethylphthalate	mg/kg	<0.835	<0.913	<1.09	<0.911	<1.06	<1.09	<1.13	<0.844	<0.950	<0.881	<0.892	<0.863	<1.06	<1.10	<0.873	<0.914	<1.00	<0.962	<1.07	<1.11	<1.11	<0.969	<0.966	<0.973
Dimethylphthalate	mg/kg	<0.835	<0.913	<1.09	<0.911	<1.06	<1.09	<1.13	<0.844	<0.950	<0.881	<0.892	<0.863	<1.06	<1.10	<0.873	<0.914	<1.00	<0.962	<1.07	<1.11	<1.11	<0.969	<0.966	<0.973
Di-n-butylphthalate	mg/kg	<0.835	<0.913	<1.09	<0.911	<1.06	<1.09	<1.13	<0.844	<0.950	<0.881	<0.892	<0.863	<1.06	<1.10	<0.873	<0.914	<1.00	<0.962	<1.07	<1.11	<1.11	<0.969	<0.966	<0.973
Di-n-octylphthalate	mg/kg	<0.835	<0.913	<1.09	<0.911	<1.06	<1.09	<1.13	<0.844	<0.950	<0.881	<0.892	<0.863	<1.06	<1.10	<0.873	<0.914	<1.00	<0.962	<1.07	<1.11	<1.11	<0.969	<0.966	<0.973
Fluoranthene	mg/kg	<0.835	26.9	35.6	<0.911	<1.06	<1.09	<1.13	<0.844	<0.950	11.2	28.7	<0.863	<1.06	<1.10	<0.873	<0.914	<1.00	86.7	<1.07	<1.11	<1.11	<0.969	<0.966	<0.973
Fluorene	mg/kg	<0.835	2.26	2.1	<0.911	<1.06	<1.09	<1.13	<0.844	<0.950	<0.881	1.18	<0.863	<1.06	<1.10	<0.873	<0.914	<1.00	6.29	<1.07	<1.11	<1.11	<0.969	<0.966	<0.973
Hexachlorobenzene	mg/kg	<0.419	<0.458	<0.546	<0.457	<0.530	<0.546	<0.565	<0.423	<0.476	<0.442	<0.447	<0.433	<0.534	<0.551	<0.438	<0.458	<0.502	<0.482	<0.535	<0.555	<0.554	<0.486	<0.485	<0.488
Hexachlorobutadiene	mg/kg	<0.835	<0.913	<1.09	<0.911	<1.06	<1.09	<1.13	<0.844	<0.950	<0.881	<0.892	<0.863	<1.06	<1.10	<0.873	<0.914	<1.00	<0.962	<1.07	<1.11	<1.11	<0.969	<0.966	<0.973
Hexachloroethane	mg/kg	<0.835	<0.913	<1.09	<0.911	<1.06	<1.09	<1.13	<0.844	<0.950	<0.881	<0.892	<0.863	<1.06	<1.10	<0.873	<0.914	<1.00	<0.962	<1.07	<1.11	<1.11	<0.969	<0.966	<0.973
Indeno(1,2,3-cd)Pyrene	mg/kg	<0.835	3.29	4.44	<0.911	<1.06	<1.09	<1.13	<0.844	<0.950	1.32	4.02	<0.863	<1.06	<1.10	<0.873	<0.914	<1.00	7.18	<1.07	<1.11	<1.11	<0.969	<0.966	<0.973
Isophorone	mg/kg	<0.835	<0.913	<1.09	<0.911	<1.06	<1.09	<1.13	<0.844	<0.950	<0.881	<0.892	<0.863	<1.06	<1.10	<0.873	<0.914	<1.00	<0.962	<1.07	<1.11	<1.11	<0.969	<0.966	<0.973
Naphthalene	mg/kg	<0.835	1.28	<1.09	<0.911	<1.06	<1.09	<1.13	<0.844	<0.950	<0.881	<0.892	<0.863	<1.06	<1.10	<0.873	<0.914	<1.00	1.12	<1.07	<1.11	<1.11	<0.969	<0.966	<0.973
Nitrobenzene	mg/kg	<0.835	<0.913	<1.09	<0.911	<1.06	<1.09	<1.13	<0.844	<0.950	<0.881	<0.892	<0.863	<1.06	<1.10	<0.873	<0.914	<1.00	<0.962	<1.07	<1.11	<1.11	<0.969	<0.966	<0.973
N-Nitrosodimethylamine	mg/kg	<0.835	<0.913	<1.09	<0.911	<1.06	<1.09	<1.13	<0.844	<0.950	<0.881	<0.892	<0.863	<1.06	<1.10	<0.873	<0.914	<1.00	<0.962	<1.07	<1.11	<1.11	<0.969	<0.966	<0.973
Pentachlorophenol	mg/kg	<4.19	<4.58	<5.46	<4.57	<5.30	<5.46	<5.65	<4.23	<4.76	<4.42	<4.47	<4.33	<5.34	<5.51	<4.38	<4.58	<5.02	<4.82	<5.35	<5.55	<5.54	<4.86	<4.85	<4.88
Phenanthrene	mg/kg	<0.835	16	20.6	<0.911	<1.06	<1.09	<1.13	<0.844	<0.950	6.18	20.5	<0.863	<1.06	<1.10	<0.873	<0.914	<1.00	57.2	<1.07	<1.11	<1.11	<0.969	<0.966	<0.973
Phenol	mg/kg	<0.835	<0.913	<1.09	<0.911	<1.06	<1.09	<1.13	<0.844	<0.950	<0.881	<0.892	<0.863	<1.06	<1.10	<0.873	<0.914	<1.00	<0.962	<1.07	<1.11	<1.11	<0.969	<0.966	<0.973
Pyrene	mg/kg	<0.835	13.3	19.9	<0.911	<1.06	<1.09	<1.13	<0.844	<0.950	6.11	17.9	<0.863	<1.06	<1.10	<0.873	<0.914	<1.00	52.6	<1.07	<1.11	<1.11	<0.969	<0.966	<0.973
Total SVOCs	mg/kg	ND	123.53	155.36	ND	ND	ND	ND	ND	ND	51.912	133.77	ND	ND	ND	ND	ND	ND	390.51	ND	ND	ND	ND	ND	9.71
Classic Chemistry																									
Corrosivity (pH)	S.U.	8.36	9.91	5.78	5.29	3.82	6.35	7.35	7.95	7.95	7.13	5.42	5.11	3.82	4.91	6.2	7.32	7.08	8.04	3.89	6.27	6.48	5.35	4.74	10
Conductivity	umhos/cm	1150	257	696	473	3690	2720	770	861	1400	920	1590	477	2560	1840	1240	582	486	140	6280	800	1220	727	1140	416
Flashpoint	°F	--	>200	>200	--	--	--	--	--	--	>200	>200	>200	--	--	--	--	--	>200	--	--	--	--	--	>200
Reactive Cyanide	mg/kg	--	<2.0	<2.0	--	--	--	--	--	--	<2.0	<2.0	<2.0	--	--	--	--	--	<2.0	--	--	--	--	--	<2.0
Reactive Sulfide	mg/kg	--	<2.0	<2.0	--	--	--	--	--	--	<2.0	<2.0	<2.0	--	--	--	--	--	<2.0	--	--	--	--	--	<2.0

Table 1
Soil Precharacterization Data

Wynn Resort Casino
Everett, Massachusetts

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	B09 B09S12BS13 1503247 Fill 6.6 - 10 3/13/2015	B09 B09S14 1503247 Fill 10 - 12 3/13/2015	B10 B10S01S02A 1501270 Fill 0 - 3.3 1/14/2015	B10 B10S02BS03A 1501270 Fill 3.3 - 4.5 1/14/2015	B10 B10S03BS05 1501270 Natural Sand/Gravel 4.5 - 10 1/14/2015	B10 B10S06 1501270 Natural Clay 14 - 16 1/14/2015	B10 B10S07 1501270 Natural Clay 19 - 21 1/14/2015	B10 B10S08 1501270 Natural Sand/Gravel 24 - 26 1/14/2015	B10 B10S09 1501270 Natural Sand/Gravel 29 - 31 1/14/2015	B10 B10S10 1501270 Natural Sand/Gravel 34 - 36 1/14/2015	B10 B10S11 1501270 Natural Sand/Gravel 36 - 38 1/14/2015	B11 B11S01 1503115 Fill 4 - 6 3/6/2015	B11 GZ003S012S02 1410450 Fill 0 - 0.4 10/16/2014	B11 GZ003S03S05 1410450 Fill 4 - 10 10/16/2014	B11 GZ003S06S08 1410451 Natural Sand/Gravel 10 - 21 10/16/2014	B11 GZ003S09S11 1410451 Natural Sand/Gravel 24 - 36 10/17/2014	B11 GZ003S12S13 1410451 Natural Sand/Gravel 39 - 46 10/17/2014	B12 B12S01S02A 1502142 Fill 0 - 3.3 2/11/2015	B12 B12S02BS03 1502142 Fill 3.3 - 6 2/11/2015	B12 B12S04 1502186 Fill 6 - 8 2/12/2015	B12 B12S05S06 1502142 Fill 8 - 11.8 2/11/2015	B12 B12S07 1502142 Natural Sand/Gravel 14 - 16 2/11/2015	B12 B12S08 1502142 Natural Sand/Gravel 19 - 21 2/11/2015	B12 B12S09 1502142 Natural Sand/Gravel 24 - 26 2/11/2015
Preliminary Disposal Facility Category		MCP Regulated Material Type B-2	MCP Regulated Material Type B-2	MCP Regulated Material Type B-2	Hazardous Material Type B	MCP Regulated Type A	Hazardous Material Type A	MCP Restricted	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Uncontaminated	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type B-1	Uncontaminated	Uncontaminated	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	Hazardous Material Type B	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A
RCRA 8 Metals	**Units**																									
Arsenic	mg/kg	20.5	18	16.7	69.5	20.6	16	8.46	8.01	<7.46	12.9	<7.11	46.7	4.78	3.96	3.01	<2.02	<2.72	11.1	72.2	33	94.7	407	111	136
Barium	mg/kg	43.2	33.5	51.4	72.6	45.9	94.4	53.2	18.1	25.4	75.9	35.9	71.1	18.5	6.6	16.1	4.01	3.36	43.3	54.4	30	28.8	27.5	23.2	17.3
Cadmium	mg/kg	<1.37	<1.42	<1.41	<1.48	<1.47	<1.56	<1.60	<1.51	<1.49	<1.52	<1.42	<1.50	<0.49	<0.44	<0.60	<0.40	<0.54	<1.55	<1.47	<1.55	1.67	5.84	1.78	2.07
Chromium	mg/kg	6.15	8.62	24.8	62.4	33.4	52.7	32.7	12.7	12.2	15	22.2	12.5	3.92	2.78	9.19	2.52	2.4	20.3	17.4	6.06	25.1	14.4	33.5	13.4
Lead	mg/kg	281	855	1030	22900	39.6	20.5	<16.0	<15.1	<14.9	<15.2	<14.2	785	360	25.7	<5.97	<4.05	<5.44	218	1030	241	1700	765	121	151
Selenium	mg/kg	<6.85	<7.09	<7.06	9.32	<7.36	<7.80	<16.0	<15.1	<14.9	<15.2	<7.11	<7.50	<14.7	<13.3	<17.9	<4.05	<5.44	<7.75	<7.36	<7.74	<7.57	12	<7.20	<7.31
Silver	mg/kg	<1.37	<1.42	<1.41	5.28	<1.47	<0.78	<1.60	<1.51	<1.49	<1.52	<1.42	<1.50	<0.49	<0.44	<0.60	<0.40	<0.54	<1.55	<1.47	<1.55	2.17	<1.45	<1.44	<1.46
Mercury	mg/kg	0.209	0.147	0.284	1.98	<0.035	<0.041	<0.036	<0.037	<0.039	<0.036	<0.036	0.529	0.768	0.034	<0.038	<0.032	<0.031	0.327	3.08	1.15	1.67	0.077	0.066	0.05
Metals by Toxicity Characteristic Leaching Procedure (TCLP)																										
Arsenic	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.050	<0.050	<0.050
Cadmium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead	mg/L	8.61	8.45	49.8	46.1	--	--	--	--	--	--	--	<0.500	<5.00	--	--	--	--	0.167	0.389	0.196	26.1	<0.050	<0.050	<0.050
Selenium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Herbicides																										
2,4,5-T	mg/kg	<0.067	<0.061	<0.057	<0.062	--	<0.063	--	--	--	--	--	<0.099	<0.059	<0.064	<0.061	<0.037	<0.052	<0.073	<0.56	<0.060	--	--	--	--
2,4-D	mg/kg	<0.067	<0.061	<0.057	<0.062	--	<0.063	--	--	--	--	--	<0.49	<0.059	<0.064	<0.061	<0.037	<0.052	<0.073	<0.56	<0.060	--	--	--	--
2,4-DB	mg/kg	<0.067	<0.061	<0.057	<0.062	--	<0.063	--	--	--	--	--	<0.037	<0.059	<0.064	<0.061	<0.037	<0.052	<0.073	<0.56	<0.060	--	--	--	--
Dalapon	mg/kg	<0.81	<0.73	<0.69	<0.75	--	<0.75	--	--	--	--	--	<3.0	<0.72	<0.77	<0.74	<0.44	<0.62	<0.88	<6.8	<0.72	--	--	--	--
Dicamba	mg/kg	<0.067	<0.061	<0.057	<0.062	--	<0.063	--	--	--	--	--	<0.15	<0.059	<0.064	<0.061	<0.037	<0.052	<0.073	<0.56	<0.060	--	--	--	--
Dichlorprop	mg/kg	<0.067	<0.061	<0.057	<0.062	--	<0.063	--	--	--	--	--	<0.32	<0.059	<0.064	<0.061	<0.037	<0.052	<0.073	<0.56	<0.060	--	--	--	--
Dinoseb	mg/kg	<0.40	<0.37	<0.34	<0.38	--	<0.38	--	--	--	--	--	<0.49	<0.36	<0.39	<0.37	<0.22	<0.31	<0.44	<3.4	<0.36	--	--	--	--
MCPA	mg/kg	<16	<15	<14	<15	--	<15	--	--	--	--	--	<120	<14	<15	<15	<8.9	<12	<18	<140	<14	--	--	--	--
MCPP	mg/kg	<16	<15	<14	<15	--	<15	--	--	--	--	--	<120	<14	<15	<15	<8.9	<12	<18	<140	<14	--	--	--	--
Silvex (2,4,5-TP)	mg/kg	<0.067	<0.061	<0.057	<0.062	--	<0.063	--	--	--	--	--	<0.099	<0.059	<0.064	<0.061	<0.037	<0.052	<0.073	<0.56	<0.060	--	--	--	--
Pesticides																										
4,4'-DDD	mg/kg	<0.0023	<0.0021	<0.020	<0.0044	--	<0.0022	--	--	--	--	--	<0.0041	<0.0042	<0.0022	<0.0021	<0.0021	<0.0019	<0.0049	<0.0095	<0.0021	--	--	--	--
4,4'-DDE	mg/kg	<0.0023	<0.0021	<0.020	<0.0044	--	<0.0022	--	--	--	--	--	<0.0041	<0.0042	<0.0022	<0.0021	<0.0021	<0.0019	<0.0049	<0.0095	<0.0021	--	--	--	--
4,4'-DDT	mg/kg	<0.0023	<0.0021	<0.020	<0.0044	--	<0.0022	--	--	--	--	--	<0.0041	<0.0042	<0.0022	<0.0021	<0.0021	<0.0019	<0.0049	<0.0095	<0.0021	--	--	--	--
Aldrin	mg/kg	<0.0023	<0.0021	<0.020	<0.0044	--	<0.0022	--	--	--	--	--	<0.0041	<0.0042	<0.0022	<0.0021	<0.0021	<0.0019	<0.0049	<0.0095	<0.0020	--	--	--	--
alpha-BHC	mg/kg	<0.0023	<0.0021	<0.020	<0.0044	--	<0.0022	--	--	--	--	--	<0.0041	<0.0042	<0.0022	<0.0021	<0.0021	<0.0019	<0.0049	<0.0095	<0.0020	--	--	--	--
beta-BHC	mg/kg	<0.0023	<0.0021	<0.020	<0.0044	--	<0.0022	--	--	--	--	--	<0.0041	<0.0042	<0.0022	<0.0021	<0.0021	<0.0019	<0.0049	<0.0095	<0.0020	--	--	--	--
Chlordane (technical)	mg/kg	<0.023	<0.021	<0.20	<0.044	--	<0.022	--	--	--	--	--	<0.041	<0.042	<0.022	<0.021	<0.021	<0.019	<0.049	<0.095	<0.020	--	--	--	--
delta-BHC	mg/kg	<0.0023	<0.0021	<0.020	<0.0044	--	<0.0022	--	--	--	--	--	<0.0041	<0.0042	<0.0022	<0.0021	<0.0021	<0.0019	<0.0049	<0.0095	<0.0020	--	--	--	--
Dieldrin	mg/kg	<0.0023	<0.0021	<0.020	<0.0044	--	<0.0022	--	--	--	--	--	<0.0041	<0.0042	<0.0022	<0.0021	<0.0021	<0.0019	<0.0049	<0.0095	<0.0020	--	--	--	--
Endosulfan I	mg/kg	<0.0023	<0.0021	<0.020	<0.0044	--	<0.0022	--	--	--	--	--	<0.0041	<0.0042	<0.0022	<0.0021	<0.0021	<0.0019	<0.0049	<0.0095	<0.0020	--	--	--	--
Endosulfan II	mg/kg	<0.0023	<0.0021	<0.020	<0.0044	--	<0.0022	--	--	--	--	--	<0.0041	<0.0042	<0.0022	<0.0021	<0.0021	<0.0019	<0.0049	<0.0095	<0.0020	--	--	--	--
Endosulfan sulfate	mg/kg	<0.0023	<0.0021	<0.020	<0.0044	--	<0.0022	--	--	--	--	--	<0.0041	<0.0042	<0.0022	<0.0021	<0.0021	<0.0019	<0.0049	<0.0095	<0.0020	--	--	--	--
Endrin	mg/kg	<0.0023	<0.0021	<0.020	<0.0044	--	<0.0022	--	--	--	--	--	<0.0041	<0.0042	<0.0022	<0.0021	<0.0021	<0.0019	<0.0049	<0.0095	<0.0020	--	--	--	--
Endrin ketone	mg/kg	<0.0023	<0.0021	<0.020	<0.0044	--	<0.0022	--	--	--	--	--	<0.0041	<0.0042	<0.0022	<0.0021	<0.0021	<0.0019	<0.0049	<0.0095	<0.0020	--	--	--	--
gamma-BHC (Lindane)	mg/kg	<0.0023	<0.0021	<0.020	<0.0044	--	<0.0022	--	--	--	--	--	<0.0041	<0.0042	<0.0022	<0.0021	<0.0021	<0.0019	<0.0049	<0.0095	<0.0020	--	--	--	--
Heptachlor	mg/kg	<0.0023	<0.0021	<0.020	<0.0044	--	<0.0022	--	--	--	--	--	<0.0041	<0.0042	<0.0022	<0.0021	<0.0021	<0.0019	<0.0049	<0.0095	<0.0020	--	--	--	--
Heptachlor epoxide	mg/kg	<0.0023	<0.0021	<0.020	<0.0044	--	<0.0022	--	--	--	--	--	<0.0041	<0.0042	<0.0022	<0.0021	<0.0021	<0.0019	<0.0049	<0.0095	<0.0020	--	--	--	--
Hexachlorobenzene	mg/kg	<0.0023	<0.0021	<0.020	<0.0044	--	<0.0022	--	--	--	--	--	<0.0041	<0.0042	0.0056	<0.0021	<0.0021	<0.0019	<0.0049	<0.0095	<0.0020	--	--	--	--
Methoxychlor	mg/kg	<0.0023	<0.0021	<0.020	<0.0044	--	<0.0022	--	--	--	--	--	<0.0041	<0.0042	<0.0022	<0.0021	<0.0021	<0.0019	<0.0049	<0.0095	<0.0020	--	--	--	--
Polychlorinated Biphenyls																										
Aroclor 1016	mg/kg	<0.150	<0.145	<0.143	<0.159	<0.145	<0.159	<0.150	<0.150	<0.147	<0.138	<0.150	<0.139	<0.207	<0.216	<0.239	<0.210	<0.203	<0.146	<0.136	<0.146	<0.141	<0.147	<0.137	<0.137
Aroclor 1221	mg/kg	<0.150	<0.145	<0.143	<0.159	<0.145	<0.159	<0.150	<0.150	<0.147	<0.138	<0.150	<0.139	<0.207	<0.216	<0.239	<0.210	<0.203	<0.146	<0.136	<0.146	<0.141	<0.147	<0.137	<0.137
Aroclor 1232	mg/kg	<0.150	<0.145	<0.143	<0.159	<0.145	<0.159	<0.150	<0.150	<0.147	<0.138	<0.150	<0.139	<0.207	<0.216	<0.239	<0.210	<0.203	<0.146	<0.136	<0.146	<0.141	<0.147	<0.137	<0.137
Aroclor 1242	mg/kg	<0.150	<0.145	<0.143	<0.159	<0.145	<0.159	<0.150	<0.150	<0.147	<0.138	<0.150	<0.139	<0.207	<0.216	<0.239	<0.210	<0.203	<0.146	<0.136	<0.146	<0.141	<0.147	<0.137	<0.137
Aroclor 1248	mg/kg	<0.150	<0.145	<0.143	<0.159	<0.145	<0.159	<0.150	<0.150	<0.147	<0.138	<0.150	<0.139	<0.207	<0.216	<0.239	<0.210	<0.203	<0.146	<0.136	<0.146	<0.141	<0.147	<0.137	<0.137
Aroclor 1254	mg/kg	<0.150	<0.145	<0.143	<0.159	<0.145	<0.159	<0.150	<0.150	<0.147	<0.138	<0.150	<0.139	<0.207	<0.216	<0.239	<0.210	<0.203	<0.146	0.838	<0.146	<0.141	<0.147	<0.137	<0.137
Aroclor 1260	mg/kg	<0.150	<0.145	<0.143	<0.159	<0.145	<0.159	<0.150	<0.150	<0.147	<0.138	<0.150	<0.139	0.358	<0.216	<0.239	<0.210	<0.203	<0.146	0.261	<0.146	<0.141	<0.147	<0.137	<0.137
Aroclor 1262	mg/kg	<0.150	<0.145	<0.143	<0.159	<0.145	<0.159	<0.150	<0.150	<0.147	<0.138	<0.150	<0.139	<0.207	<0.216	<0.239	<0.210	<0.203	<0.146	<0.136	<0.146	<0.141	<0.147	<0.137	<0.137
Aroclor 1268	mg/kg	<0.150	<0.145	<0.143	<0.159	<0.145	<0.159	<0.150	<0.150	<0.147	<0.138	<0.150	<0.139	<0.207	<0.216	<0.239	<0.210	<0.203	<0.146	<0.136	<0.146	<0.141	<0.147	<0.137	<0.137
Total PCBs	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.358	ND	ND	ND	ND	ND	1.099	ND	ND	ND	ND	ND
Total Petroleum Hydrocarbons	mg/kg	<46.2	<46.9	158	127	<47.7	<50.8	<47.9	<45.9	<47.3	<43.0	<46.8	299	390	<45.7	<46.9	<40.6	<39.1	168	260	<44.7	49.7	<46.5	<41.1	<40.2
Volatile Organic Compounds (VOCs)																										
1,1,1,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0934	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0467	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0467	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0467	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0467	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0467	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0467	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0467	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0467	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0467	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0467	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-Chloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.187	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0467	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0467	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0467	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0467	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0467	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0467	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0467	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0467	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane - Screen	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<4.67	--	--	--	--	--	--	--	--	--	--	--	--
2,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0934	--	--	--	--	--	--	--	--	--	--	--	--
2-Butanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.187	--	--	--	--	--	--	--	--	--	--	--	--
2-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0467	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.187	--	--	--	--	--	--	--	--	--	--	--	--
4-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0467	--	--	--	--	--	--	--	--	--	--	--	--
4-Isopropyltoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0467	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-Pentanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.187	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.187	--	--	--	--	--	--	--	--	--	--	--	--
Benzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0467	--	--	--	--	--	--	--	--	--	--	--	--
Bromobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0467	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0467	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0467	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0467	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0934	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Disulfide	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0467	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0467	--	--	--	--	--	--	--	--	--	--	--	--

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	B09 B09S12BS13 1503247 Fill 6.6 - 10 3/13/2015	B09 B09S14 1503247 Fill 10 - 12 3/13/2015	B10 B10S01S02A 1501270 Fill 0 - 3.3 1/14/2015	B10 B10S02BS03A 1501270 Fill 3.3 - 4.5 1/14/2015	B10 B10S03BS05 1501270 Natural Sand/Gravel 4.5 - 10 1/14/2015	B10 B10S06 1501270 Natural Clay 14 - 16 1/14/2015	B10 B10S07 1501270 Natural Clay 19 - 21 1/14/2015	B10 B10S08 1501270 Natural Sand/Gravel 24 - 26 1/14/2015	B10 B10S09 1501270 Natural Sand/Gravel 29 - 31 1/14/2015	B10 B10S10 1501270 Natural Sand/Gravel 34 - 36 1/14/2015	B10 B10S11 1501270 Natural Sand/Gravel 36 - 38 1/14/2015	B11 B11S01 1503115 Fill 4 - 6 3/6/2015	B11 GZ003S012S02 1410450 Fill 0 - 0.4 10/16/2014	B11 GZ003S03S05 1410450 Fill 4 - 10 10/16/2014	B11 GZ003S06S08 1410451 Natural Sand/Gravel 10 - 21 10/16/2014	B11 GZ003S09S11 1410451 Natural Sand/Gravel 24 - 36 10/17/2014	B11 GZ003S12S13 1410451 Natural Sand/Gravel 39 - 46 10/17/2014	B12 B12S01S02A 1502142 Fill 0 - 3.3 2/11/2015	B12 B12S02BS03 1502142 Fill 3.3 - 6 2/11/2015	B12 B12S04 1502186 Fill 6 - 8 2/12/2015	B12 B12S05S06 1502142 Fill 8 - 11.8 2/11/2015	B12 B12S07 1502142 Natural Sand/Gravel 14 - 16 2/11/2015	B12 B12S08 1502142 Natural Sand/Gravel 19 - 21 2/11/2015	B12 B12S09 1502142 Natural Sand/Gravel 24 - 26 2/11/2015
Preliminary Disposal Facility Category		MCP Regulated Material Type B-2	MCP Regulated Material Type B-2	MCP Regulated Material Type B-2	Hazardous Material Type B	MCP Regulated Type A	Hazardous Material Type A	MCP Restricted	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Uncontaminated	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type B-1	Uncontaminated	Uncontaminated	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	Hazardous Material Type B	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A
Chlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0467	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0934	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0467	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0934	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0467	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0467	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0467	--	--	--	--	--	--	--	--	--	--	--	--
Dibromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0467	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0467	--	--	--	--	--	--	--	--	--	--	--	--
Diethyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0467	--	--	--	--	--	--	--	--	--	--	--	--
Di-isopropyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0467	--	--	--	--	--	--	--	--	--	--	--	--
Ethyl tertiary-butyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0467	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0467	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0467	--	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0467	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0467	--	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.187	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	0.0822	--	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0467	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0467	--	--	--	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0467	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0467	--	--	--	--	--	--	--	--	--	--	--	--
tert-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0467	--	--	--	--	--	--	--	--	--	--	--	--
Tertiary-amyl methyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0467	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0467	--	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.187	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0467	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0467	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0467	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0467	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0467	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0467	--	--	--	--	--	--	--	--	--	--	--	--
Xylene O	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0467	--	--	--	--	--	--	--	--	--	--	--	--
Xylene P,M	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0934	--	--	--	--	--	--	--	--	--	--	--	--
Xylenes (Total)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0934	--	--	--	--	--	--	--	--	--	--	--	--
Total VOCs	mg/kg	--	--	--	--	--	--	--	--	--	--	--	0.0822	--	--	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds - Low Level Analysis																									
1,1,1,2-Tetrachloroethane	mg/kg	<0.0049	<0.0039	<0.0056	<0.0044	<0.0047	<0.0036	<0.0034	<0.0042	<0.0036	<0.0034	<0.0035	<0.0042	<0.0026	<0.0043	<0.0034	<0.0036	<0.0024	<0.0048	<0.0044	<0.0043	<0.0030	<0.0035	<0.0030	<0.0029
1,1,1-Trichloroethane	mg/kg	<0.0049	<0.0039	<0.0056	<0.0044	<0.0047	<0.0036	<0.0034	<0.0042	<0.0036	<0.0034	<0.0035	<0.0042	<0.0026	<0.0043	<0.0034	<0.0036	<0.0024	<0.0048	<0.0044	<0.0043	<0.0030	<0.0035	<0.0030	<0.0029
1,1,2,2-Tetrachloroethane	mg/kg	<0.0020	<0.0016	<0.0022	<0.0017	<0.0019	<0.0015	<0.0014	<0.0017	<0.0015	<0.0014	<0.0014	<0.0017	<0.0010	<0.0017	<0.0014	<0.0015	<0.0010	<0.0019	<0.0017	<0.0017	<0.0012	<0.0014	<0.0012	<0.0011
1,1,2-Trichloroethane	mg/kg	<0.0049	<0.0039	<0.0056	<0.0044	<0.0047	<0.0036	<0.0034	<0.0042	<0.0036	<0.0034	<0.0035	<0.0042	<0.0026	<0.0043	<0.0034	<0.0036	<0.0024	<0.0048	<0.0044	<0.0043	<0.0030	<0.0035	<0.0030	<0.0029
1,1-Dichloroethane	mg/kg	<0.0049	<0.0039	<0.0056	<0.0044	<0.0047	<0.0036	<0.0034	<0.0042	<0.0036	<0.0034	<0.0035	<0.0042	<0.0026	<0.0043	<0.0034	<0.0036	<0.0024	<0.0048	<0.0044	<0.0043	<0.0030	<0.0035	<0.0030	<0.0029
1,1-Dichloroethene	mg/kg	<0.0049	<0.0039	<0.0056	<0.0044	<0.0047	<0.0036	<0.0034	<0.0042	<0.0036	<0.0034	<0.0035	<0.0042	<0.0026	<0.0043	<0.0034	<0.0036	<0.0024	<0.0048	<0.0044	<0.0043	<0.0030	<0.0035	<0.0030	<0.0029
1,1-Dichloropropene	mg/kg	<0.0049	<0.0039	<0.0056	<0.0044	<0.0047	<0.0036	<0.0034	<0.0042	<0.0036	<0.0034	<0.0035	<0.0042	<0.0026	<0.0043	<0.0034	<0.0036	<0.0024	<0.0048	<0.0044	<0.0043	<0.0030	<0.0035	<0.0030	<0.0029
1,2,3-Trichlorobenzene	mg/kg	<0.0049	<0.0039	<0.0056	<0.0044	<0.0047	<0.0036	<0.0034	<0.0042	<0.0036	<0.0034	<0.0035	<0.0042	<0.0026	<0.0043	<0.0034	<0.0036	<0.0024	<0.0048	<0.0044	<0.0043	<0.0030	<0.0035	<0.0030	<0.0029
1,2,3-Trichloropropane	mg/kg	<0.0049	<0.0039	<0.0056	<0.0044	<0.0047	<0.0036	<0.0034	<0.0042	<0.0036	<0.0034	<0.0035	<0.0042	<0.0026	<0.0043	<0.0034	<0.0036	<0.0024	<0.0048	<0.0044	<0.0043	<0.0030	<0.0035	<0.0030	<0.0029
1,2,4-Trichlorobenzene	mg/kg	<0.0049	<0.0039	<0.0056	<0.0044	<0.0047	<0.0036	<0.0034	<0.0042	<0.0036	<0.0034	<0.0035	<0.0042	<0.0026	<0.0043	<0.0034	<0.0036	<0.0024	<0.0048	<0.0044	<0.0043	<0.0030	<0.0035	<0.0030	<0.0029
1,2,4-Trimethylbenzene	mg/kg	<0.0049	<0.0039	<0.0056	<0.0044	<0.0047	<0.0036	<0.0034	<0.0042	<0.0036	<0.0034	<0.0035	<0.0042	<0.0026	<0.0043	<0.0034	<0.0036	<0.0024	<0.0048	<0.0044	<0.0043	<0.0030	<0.0035	<0.0030	<0.0029
1,2-Dibromo-3-Chloropropane	mg/kg	<0.0049	<0.0039	<0.0056	<0.0044	<0.0047	<0.0036	<0.0034	<0.0042	<0.0036	<0.0034	<0.0035	<0.0042	<0.0026	<0.0043	<0.0034	<0.0036	<0.0024	<0.0048	<0.0044	<0.0043	<0.0030	<0.0035	<0.0030	<0.0029
1,2-Dibromoethane	mg/kg	<0.0049	<0.0039	<0.0056	<0.0044	<0.0047	<0.0036	<0.0034	<0.0042	<0.0036	<0.0034	<0.0035	<0.0042	<0.0026	<0.0043	<0.0034	<0.0036	<0.0024	<0.0048	<0.0044	<0.0043	<0.0030	<0.0035	<0.0030	<0.0029
1,2-Dichlorobenzene	mg/kg	<0.0049	<0.0039	<0.0056	<0.0044	<0.0047	<0.0036	<0.0034	<0.0042	<0.0036	<0.0034	<0.0035	<0.0042	<0.0026	<0.0043	<0.0034	<0.0036	<0.0024	<0.0048	<0.0044	<0.0043	<0.0030	<0.0035	<0.0030	<0.0029
1,2-Dichloroethane	mg/kg	<0.0049	<0.0039	<0.0056	<0.0044	<0.0047	<0.0036	<0.0034	<0.0042	<0.0036	<0.0034	<0.0035	<0.0042	<0.0026	<0.0043	<0.0034	<0.0036	<0.0024	<0.0048	<0.0044	<0.0043	<0.0030	<0.0035	<0.0030	<0.0029
1,2-Dichloropropane	mg/kg	<0.0049	<0.0039	<0.0056	<0.0044	<0.0047	<0.0036	<0.0034	<0.0042	<0.0036	<0.0034	<0.0035	<0.0042	<0.0026	<0.0043	<0.0034	<0.0036	<0.0024	<0.0048	<0.0044	<0.0043	<0.0030	<0.0035	<0.0030	<0.0029
1,3,5-Trimethylbenzene	mg/kg	<0.0049	<0.0039	<0.0056	<0.0044	<0.0047	<0.0036	<0.0034	<0.0042	<0.0036	<0.0034	<0.0035	<0.0042	<0.0026	<0.0043	<0.0034	<0.0036	<0.0024	<0.0048	<0.0044	<0.0043	<0.0030	<0.0035	<0.0030	<0.0029
1,3-Dichlorobenzene	mg/kg	<0.0049	<0.0039	<0.0056	<0.0044	<0.0047	<0.0036	<0.0034	<0.0042	<0.0036	<0.0034	<0.0035	<0.0042	<0.0026	<0.0043	<0.0034	<0.0036	<0.0024	<0.0048	<0.0044	<0.0043	<0.0030	<0.0035	<0.0030	<0.0029
1,3-Dichloropropane	mg/kg	<0.0049	<0.0039	<0.0056	<0.0044	<0.0047	<0.0036	<0.0034	<0.0042	<0.0036	<0.0034	<0.0035	<0.0042	<0.0026	<0.0043	<0.0034	<0.0036	<0.0024	<0.0048	<0.0044	<0.0043	<0.0030	<0.0035	<0.0030	<0.0029
1,4-Dichlorobenzene	mg/kg	<0.0049	<0.0039	<0.0056	<0.0044	<0.0047	<0.0036	<0.0034	<0.0042	<0.0036	<0.0034	<0.0035	<0.0042	<0.0026	<0.0043	<0.0034	<0.0036	<0.0024	<0.0048	<0.0044	<0.0043	<0.0030	<0.0035	<0.0030	<0.0029
1,4-Dioxane	mg/kg	<0.0981	<0.0781	<0.112	<0.0871	<0.0935	<0.0727	<0.0682	<0.0833	<0.0728	<0.0677	<0.0707	<0.0837	<0.0518	<0.0857	<0.0684	<0.0727	<0.0484	<0.0953	<0.0872	<0.0858	<0.0606	<0.0703	<0.0594	<0.0573
2,2-Dichloropropane	mg/kg	<0.0049	<0.0039	<0.0056	<0.0044	<0.0047	<0.0036	<0.0034	<0.0042	<0.0036	<0.0034	<0.0035	<0.0042	<0.0026	<0.0043	<0.0034	<0.0036	<0.0024	<0.0048	<0.0044	<0.0043	<0.0030	<0.0035	<0.0030	<0.0029
2-Butanone	mg/kg	<0.0098	<0.0078	<0.0112	<0.0087	<0.0093	<0.0073	<0.0068	<0.0083	<0.0073	<0.0068	<0.0071	<0.0084	<0.0052	<0.0086	<0.0068	<0.0073	<0.0048	<0.0095	<0.0087	<0.0086	<0.0061	<0.0070	<0.0059	<0.0057
2-Chlorotoluene	mg/kg	<0.0049	<0.0039	<0.0056	<0.0044	<0.0047	<0.0036	<0.0034	<0.0042	<0.0036	<0.0034	<0.0035	<0.0042	<0.0026	<0.0043	<0.0034	<0.0036	<0.0024	<0.0048	<0.0044	<0.0043	<0.0030	<0.0035	<0.0030	<0.0029
2-Hexanone	mg/kg	<0.0098	<0.0078	<0.0112	<0.0087	<0.0093	<0.0073	<0.0068	<0.0083	<0.0073	<0.0068	<0.0071	<0.0084	<0.0052	<0.0086	<0.0068	<0.0073	<0.0048	<0.0095	<0.0087	<0.0086	<0.0061	<0.0070	<0.0059	<0.0057
4-Chlorotoluene	mg/kg	<0.0049	<0.0039	<0.0056	<0.0044	<0.0047	<0.0036	<0.0034	<0.0042	<0.0036	<0.0034	<0.0035	<0.0042	<0.0026	<0.0043	<0.0034	<0.0036	<0.0024	<0.0048	<0.0044	<0.0043	<0.0030	<0.0035	<0.0030	<0.0029
4-Isopropyltoluene	mg/kg	<0.0049	<0.0039	<0.0056	<0.0044	<0.0047	0.0282	<0.0034	<0.0042	<0.0036	<0.0034	<0.0035	<0.0042	<0.0026	<0.0043	0.0081	<0.0036	<0.0024	<0.0048	<0.0044	<0.0043	<0.0030	<0.0035	<0.0030	<0.0029
4-Methyl-2-Pentanone	mg/kg	<0.0098	<0.0078	<0.0112	<0.0087	<0.0093	<0.0073	<0.0068	<0.0083	<0.0073	<0.0068	<0.0071	<0.0084	<0.0052	<0.0086	<0.0068	<0.0073	<0.0048	<0.0095	<0.0087	<0.0086	<0.0061	<0.0070	<0.0059	<0.0057
Acetone	mg/kg	<0.0098	<0.0078	<0.0112	<0.0087	0.0206	0.0846	<0.0068	0.0094	0.0108	0.008	<0.0071	<0.0084	<0.0052	<0.0086	0.0298	<0.0073	<0.0048	<0.0095	<0.0087	<0.0086	<0.0061	<0.0070	<0.0059	<0.0057
Benzene	mg/kg	<0.0049	<0.0039	<0.0056	<0.0044	<0.0047	<0.0036	<0.0034	<0.0042	<0.0036	<0.0034	<0.0035	<0.0042	<0.0026	<0.0043	<0.0034	<0.0036	<0.0024	<0.0048	<0.0044	<0.0043	<0.0030	<0.0035	<0.0030	<0.0029
Bromobenzene	mg/kg	<0.0049	<0.0039	<0.0056	<0.0044	<0.0047	<0.0036	<0.0034	<0.0042	<0.0036	<0.0034	<0.0035	<0.0042	<0.0026	<0.0043	<0.0034	<0.0036	<0.0024	<0.0048	<0.0044	<0.0043	<0.0030	<0.0035	<0.0030	<0.0029
Bromochloromethane	mg/kg	<0.0049	<0.0039	<0.0056	<0.0044	<0.0047	<0.0036	<0.0034	<0.0042	<0.0036	<0.0034	<0.0035	<0.0042	<0.0026	<0.0043	<0.0034	<0.0036	<0.0024	<0.0048	<0.0044	<0.0043	<0.0030	<0.0035	<0.0030	<0.0029
Bromodichloromethane	mg/kg	<0.0049	<0.0039	<0.0056	<0.0044	<0.0047	<0.0036	<0.0034	<0.0042	<0.0036	<0.0034	<0.0035	<0.0042	<0.0026	<0.0043	<0.0034	<0.0036	<0.0024	<0.0048	<0.0044	<0.0043	<0.0030	<0.0035	<0.0030	<0.0029
Bromoform	mg/kg	<0.0049	<0.0039	<0.0056	<0.0044	<0.0047	<0.0036	<0.0034	<0.0042	<0.0036	<0.0034	<0.0035	<0.0042	<0.0026	<0.0043	<0.0034	<0.0036	<0.0024	<0.0048	<0.0044	<0.0043	<0.0030	<0.0035	<0.0030	<0.0029
Bromomethane	mg/kg	<0.0098	<0.0078	<0.0112	<0.0087	<0.0093	<0.0073	<0.0068	<0.0083	<0.0073	<0.0068	<0.0071	<0.0084	<0.0052	<0.0086	<0.0068	<0.0073	<0.0048	<0.0095	<0.0087	<0.0086	<0.0061	<0.0070	<0.0059	<0.0057
Carbon Disulfide	mg/kg	<0.0049	<0.0039	<0.0056	<0.0044	<0.0047	<0.0036	<0.0034	<0.0042	<0.0036	<0.0034	<0.0035	<0.0042	<0.0026	<0.0043	<0.0034	<0.0036	<0.0024	<0.0048	<0.0044	<0.0043	<0.0030	<0.0035	<0.0030	<0.0029
Carbon Tetrachloride	mg/kg	<0.0049	<0.0039	<0.0056	<0.0044	<0.0047	<0.0036	<0.0034	<0.0042	<0.0036	<0.0034	<0.0035	<0.0042	<0.0026	<0.0043	<0.0034	<0.0036	<0.0024	<0.0048	<0.0044	<0.0043	<0.0030	<0.0035	<0.0030	<0.0029
Chlorobenzene	mg/kg	<0.0049	<0.0039	<0.0056	<0.0044	<0.0047	<0.0036	<0.0034	<0.0042	<0.0036	<0.0034	<0.0035	<0.0042	<0.0026	<0.0043	<0.0034	<0.0036	<0.0024	<0.0048	<0.0044	<0.0043	<0.0030	<0.0035	<0.0030	<0.0029
Chloroethane	mg/kg	<0.0098	<0.0078	<0.0112	<0.0087	<0.0093	<0.0073	<0.0068	<0.0083	<0.0073	<0.0068	<0.0071	<0.0084	<0.0052	<0.0086	<0.0068	<0.0073	<0.0048	<0.0095	<0.0087	<0.0086	<0.0061	<0.0070	<0.0059	<0.0057
Chloroform	mg/kg	<0.0049	<0.0039	<0.0056	<0.0044	<0.0047	<0.0036	<0.0034	<0.0042	<0.0036	<0.0034	<0.0035	<0.0042	<0.0026	<0.0043	<0.0034	<0.0036	<0.0024	<0.0048	<0.0044	<0.0043	<0.0030	<0.0035	<0.0030	<0.0029
Chloromethane	mg/kg	<0.0098	<0.0078	<0.0112	<0.0087	<0.0093	<0.0073	<0.0068	<0.0083	<0.0073	<0.0068	<0.0071	<0.0084	<0.0052	<0.0086	<0.0068	<0.0073	<0.0048	<0.0095	<0.0087	<0.0086	<0.0061	<0.0070	<0.0059	<0.0057
cis-1,2-Dichloroethene	mg/kg	<0.0049	<0.0039	<0.0056	<0.0044	<0.0047	<0.0036	<0.0034	<0.0042	<0.0036	<0.0034	<0.0035	<0.0042	<0.0026	<0.0043	<0.0034	<0.0036	<0.0024	<0.0048	<0.0044	<0.0043	<0.0030	<0.0035	<0.0030	<0.0029
cis-1,3-Dichloropropene	mg/kg	<0.0049	<0.0039	<0.0056	<0.0044	<0.0047	<0.0036	<0.0034	<0.0042	<0.0036	<0.0034	<0.0035	<0.0042	<0.0026	<0.0043	<0.0034	<0.0036	<0.0024	<0.0048	<0.0044	<0.0043	<0.0030	<0.0035	<0.0030	<0.0029
Dibromochloromethane	mg/kg	<0.0020	<0.0016	<0.0022	<0.0017	<0.0019	<0.0015	<0.0014	<0.0017	<0.0015	<0.0014	<0.0014	<0.0017	<0.0010	<0.0017	<0.0014	<0.0015	<0.0010	<0.0019	<0.0017	<0.0017	<0.0012	<0.0014	<0.0012	<0.0011
Dibromomethane	mg/kg	<0.0049	<0.0039	<0.0056	<0.0044	<0.0047	<0.0036	<0.0034	<0.0042	<0.0036	<0.0034	<0.0035	<0.0042	<0.0026	<0.0043	<0.0034	<0.0036	<0.0024	<0.0048	<0.0044	<0.0043	<0.0030	<0.0035	<0.0030	<0.0029
Dichlorodifluoromethane	mg/kg	<0.0098	<0.0078	<0.0112	<0.0087	<0.0093	<0.0073	<0.0068	<0.0083	<0.0073	<0.0068	<0.0071	<0.0084	<0.0052	<0.0086	<0.0068	<0.0073	<0.0048	<0.0095	<0.0087	<0.0086	<0.0061	<0.0070	<0.0059	<0.0057
Diethyl Ether	mg/kg	<0.0049	<0.0039	<0.0056	<0.0044	<0.0047	<0.0036	<0.0034	<0.0042	<0.0036	<0.0034	<0.0035	<0.0042	<0.0026	<0.0043	<0.0034	<0.0036	<0.0024	<0.0048	<0.0044	<0.0043	<0.0030	<0.0035	<0.0030	<0.0029
Di-isopropyl ether	mg/kg	<0.0049	<0.0039	<0.0056	<0.0044	<0.0047	<0.0036	<0.0034	<0.0042	<0.0036	<0.0034	<0.0035	<0.0042	<0.0026	<0.0043	<0.0034	<0.0036	<0.0024	<0.0048	<0.0044	<0.0043	<0.0030	<0.0035	<0.0030	<0.0029
Ethyl tertiary-butyl ether	mg/kg	<0.0049	<0.0039	<0.0056	<0.0044	<0.0047	<0.0036	<0.0034	<0.0042	<0.0036	<0.0034	<0.0035	<0.0042	<0.0026	<0.0043	<0.0034	<0.0036	<0.0024	<0.0048	<0.0044	<0.0043	<0.0030	<0.0035	<0.0030	<0.0029
Ethylbenzene	mg/kg	<0.0049	<0.0039	<0.0056	<0.0044	<0.0047	<0.0036	<0.0034	<0.0042	<0.0036	<0.0034	<0.0035	<0.0042	<0.0026	<0.0043	<0.0034	<0.0036	<0.0024	<0.0048	<0.0044	<0.0043	<0.0030	<0.0035	<0.0030	<0.0029
Hexachlorobutadiene	mg/kg	<0.0049	<0.0039	<0.0056	<0.0044	<0.0047	<0.0036	<0.0034	<0.0042	<0.0036	<0.0034	<0.0035	<0.0042	<0.0026	<0.0043	<0.0034	<0.0036	<0.0024	<0.0048	<0.0044	<0.0043	<0.0030	<0.0035	<0.0030	<0.0029
Isopropylbenzene	mg/kg	<0.0049	<0.0039	<0.0056	<0.0044	<0.0047	<0.0036	<0.0034	<0.0042	<0.0036	<0.0034	<0.0035	<0.0042	<0.0026	<0.0043	<0.0034	<0.0036	<0.0024	<0.0048	<0.0044	<0.0043	<0.0030	<0.0035	<0.0030	<0.0029
Methyl tert-Butyl Ether	mg/kg	<0.0049	<0.0039	<0.0056	<0.0044	<0.0047	<0.0036	<0.0034	<0.0042	<0.0036	<0.0034	<0.0035	<0.0042	<0.0026	<0.0043	<0.0034	<0.0036	<0.0024	<0.0048	<0.0044	<0.0043	<0.0030	<0.0035	<0.0030	<0.0029
Methylene Chloride	mg/kg	<0.0098	<0.0078	<0.0112	<0.0087	<0.0093	<0.0073	<0.0068	<0.0083	<0.0073	<0.0068	<0.0071	<0.0084	<0.0052	<0.0086	<0.0068	<0.0073	<0.0048	<0.0095	<0.0087	<0.0086	<0.0061	<0.0070	<0.0059	<0.0057
Naphthalene	mg/kg	<0.0049	<0.0039	<0.0056	<0.0044	<0.0047	<0.0036	<0.0034	<0.0042	<0.0036	<0.0034	<0.0035	0.0046	0.0064	<0.0043	<0.0034	<0.0036	<0.0024	<0.0048	<0.0044	<0.0043	<0.0030	<0.0035	<0.0030	<0.0029
n-Butylbenzene	mg/kg	<0.0049	<0.0039	<0.0056	<0.0044	<0.0047	<0.0036	<0.0034	<0.0042	<0.0036	<0.0034	<0.0035	<0.0042	<0.0026	<0.0043	<0.0034	<0.0036	<0.0024	<0.0048	<0.0044	<0.0043	<0.0030	<0.0035	<0.0030	<0.0029
n-Propylbenzene	mg/kg	<0.0049	<0.0039	<0.0056	<0.0044	<0.0047	<0.0036	<0.0034	<0.0042	<0.0036	<0.0034	<0.0035	<0.0042	<0.0026	<0.0043	<0.0034	<0.0036	<0.0024	<0.0048	<0.0044	<0.0043	<0.0030	<0.0035	<0.0030	<0.0029
sec-Butylbenzene	mg/kg	<0.0049	<0.0039	<0.0056	<0.0044	<0.0047	<0.0036	<0.0034	<0.0042	<0.0036	<0.0034	<0.0035	<0.0042	<0.0026	<0.0043	<0.0034	<0.0036	<0.0024	<0.0048	<0.0044	<0.0043	<0.0030	<0.0035	<0.0030	<0.

Table 1
Soil Precharacterization Data

Wynn Resort Casino
Everett, Massachusetts

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	B09 B09S12BS13 1503247 Fill 6.6 - 10 3/13/2015	B09 B09S14 1503247 Fill 10 - 12 3/13/2015	B10 B10S01S02A 1501270 Fill 0 - 3.3 1/14/2015	B10 B10S02BS03A 1501270 Fill 3.3 - 4.5 1/14/2015	B10 B10S03BS05 1501270 Natural Sand/Gravel 4.5 - 10 1/14/2015	B10 B10S06 1501270 Natural Clay 14 - 16 1/14/2015	B10 B10S07 1501270 Natural Clay 19 - 21 1/14/2015	B10 B10S08 1501270 Natural Sand/Gravel 24 - 26 1/14/2015	B10 B10S09 1501270 Natural Sand/Gravel 29 - 31 1/14/2015	B10 B10S10 1501270 Natural Sand/Gravel 34 - 36 1/14/2015	B10 B10S11 1501270 Natural Sand/Gravel 36 - 38 1/14/2015	B11 B11S01 1503115 Fill 4 - 6 3/6/2015	B11 GZ003S012S02 1410450 Fill 0 - 0.4 10/16/2014	B11 GZ003S03S05 1410450 Fill 4 - 10 10/16/2014	B11 GZ003S06S08 1410451 Natural Sand/Gravel 10 - 21 10/16/2014	B11 GZ003S09S11 1410451 Natural Sand/Gravel 24 - 36 10/17/2014	B11 GZ003S12S13 1410451 Natural Sand/Gravel 39 - 46 10/17/2014	B12 B12S01S02A 1502142 Fill 0 - 3.3 2/11/2015	B12 B12S02BS03 1502142 Fill 3.3 - 6 2/11/2015	B12 B12S04 1502186 Fill 6 - 8 2/12/2015	B12 B12S05S06 1502142 Fill 8 - 11.8 2/11/2015	B12 B12S07 1502142 Natural Sand/Gravel 14 - 16 2/11/2015	B12 B12S08 1502142 Natural Sand/Gravel 19 - 21 2/11/2015	B12 B12S09 1502142 Natural Sand/Gravel 24 - 26 2/11/2015
Preliminary Disposal Facility Category		MCP Regulated Material Type B-2	MCP Regulated Material Type B-2	MCP Regulated Material Type B-2	Hazardous Material Type B	MCP Regulated Type A	Hazardous Material Type A	MCP Restricted	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Uncontaminated	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type B-1	Uncontaminated	Uncontaminated	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	Hazardous Material Type B	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A
Styrene	mg/kg	<0.0049	<0.0039	<0.0056	<0.0044	<0.0047	<0.0036	<0.0034	<0.0042	<0.0036	<0.0034	<0.0035	<0.0042	<0.0026	<0.0043	<0.0034	<0.0036	<0.0024	<0.0048	<0.0044	<0.0043	<0.0030	<0.0035	<0.0030	<0.0029
tert-Butylbenzene	mg/kg	<0.0049	<0.0039	<0.0056	<0.0044	<0.0047	<0.0036	<0.0034	<0.0042	<0.0036	<0.0034	<0.0035	<0.0042	<0.0026	<0.0043	<0.0034	<0.0036	<0.0024	<0.0048	<0.0044	<0.0043	<0.0030	<0.0035	<0.0030	<0.0029
Tertiary-amyl methyl ether	mg/kg	<0.0049	<0.0039	<0.0056	<0.0044	<0.0047	<0.0036	<0.0034	<0.0042	<0.0036	<0.0034	<0.0035	<0.0042	<0.0026	<0.0043	<0.0034	<0.0036	<0.0024	<0.0048	<0.0044	<0.0043	<0.0030	<0.0035	<0.0030	<0.0029
Tetrachloroethene	mg/kg	<0.0049	<0.0039	<0.0056	<0.0044	<0.0047	<0.0036	<0.0034	<0.0042	<0.0036	<0.0034	<0.0035	<0.0042	<0.0026	<0.0043	<0.0034	<0.0036	<0.0024	<0.0048	<0.0044	<0.0043	<0.0030	<0.0035	<0.0030	<0.0029
Tetrahydrofuran	mg/kg	<0.0049	<0.0039	<0.0056	<0.0044	<0.0047	<0.0036	<0.0034	<0.0042	<0.0036	<0.0034	<0.0035	<0.0042	<0.0026	<0.0043	<0.0034	<0.0036	<0.0024	<0.0048	<0.0044	<0.0043	<0.0030	<0.0035	<0.0030	<0.0029
Toluene	mg/kg	<0.0049	<0.0039	<0.0056	<0.0044	<0.0047	<0.0036	<0.0034	<0.0042	<0.0036	<0.0034	<0.0035	<0.0042	<0.0026	<0.0043	<0.0034	<0.0036	<0.0024	<0.0048	<0.0044	<0.0043	<0.0030	<0.0035	<0.0030	<0.0029
trans-1,2-Dichloroethene	mg/kg	<0.0049	<0.0039	<0.0056	<0.0044	<0.0047	<0.0036	<0.0034	<0.0042	<0.0036	<0.0034	<0.0035	<0.0042	<0.0026	<0.0043	<0.0034	<0.0036	<0.0024	<0.0048	<0.0044	<0.0043	<0.0030	<0.0035	<0.0030	<0.0029
trans-1,3-Dichloropropene	mg/kg	<0.0049	<0.0039	<0.0056	<0.0044	<0.0047	<0.0036	<0.0034	<0.0042	<0.0036	<0.0034	<0.0035	<0.0042	<0.0026	<0.0043	<0.0034	<0.0036	<0.0024	<0.0048	<0.0044	<0.0043	<0.0030	<0.0035	<0.0030	<0.0029
Trichloroethene	mg/kg	<0.0049	<0.0039	<0.0056	<0.0044	<0.0047	<0.0036	<0.0034	<0.0042	<0.0036	<0.0034	<0.0035	<0.0042	<0.0026	<0.0043	<0.0034	<0.0036	<0.0024	<0.0048	<0.0044	<0.0043	<0.0030	<0.0035	<0.0030	<0.0029
Trichlorofluoromethane	mg/kg	<0.0049	<0.0039	<0.0056	<0.0044	<0.0047	<0.0036	<0.0034	<0.0042	<0.0036	<0.0034	<0.0035	<0.0042	<0.0026	<0.0043	<0.0034	<0.0036	<0.0024	<0.0048	<0.0044	<0.0043	<0.0030	<0.0035	<0.0030	<0.0029
Vinyl Chloride	mg/kg	<0.0098	<0.0078	<0.0112	<0.0087	<0.0093	<0.0073	<0.0068	<0.0083	<0.0073	<0.0068	<0.0071	<0.0084	<0.0052	<0.0086	<0.0068	<0.0073	<0.0048	<0.0095	<0.0087	<0.0086	<0.0061	<0.0070	<0.0059	<0.0057
Xylene O	mg/kg	<0.0049	<0.0039	<0.0056	<0.0044	<0.0047	<0.0036	<0.0034	<0.0042	<0.0036	<0.0034	<0.0035	<0.0042	<0.0026	<0.0043	<0.0034	<0.0036	<0.0024	<0.0048	<0.0044	<0.0043	<0.0030	<0.0035	<0.0030	<0.0029
Xylene P,M	mg/kg	<0.0098	<0.0078	<0.0112	<0.0087	<0.0093	<0.0073	<0.0068	<0.0083	<0.0073	<0.0068	<0.0071	<0.0084	<0.0052	<0.0086	<0.0068	<0.0073	<0.0048	<0.0095	<0.0087	<0.0086	<0.0061	<0.0070	<0.0059	<0.0057
Xylenes (Total)	mg/kg	<0.0098	<0.0078	<0.0112	<0.0087	<0.0093	<0.0073	<0.0068	<0.0083	<0.0073	<0.0068	<0.0071	<0.0084	<0.0052	<0.0086	<0.0068	<0.0073	<0.0048	<0.0095	<0.0087	<0.0086	<0.0061	<0.0070	<0.0059	<0.0057
Total VOCs (Low Level)	mg/kg	ND	ND	ND	ND	0.0206	0.1128	ND	0.0094	0.0108	0.008	ND	0.0046	0.0064	ND	0.0379	ND	ND	ND	ND	ND	ND	ND	ND	ND
Semi-Volatile Organic Compounds																									
1,2,4-Trichlorobenzene	mg/kg	<0.999	<0.943	<0.943	<1.04	<1.00	<1.04	<0.974	<1.04	<1.03	<0.956	<0.949	<0.964	<0.901	<0.895	<0.964	<0.980	<0.792	<0.963	<0.936	<0.823	<0.954	<0.975	<0.915	<0.895
1,2-Dichlorobenzene	mg/kg	<0.999	<0.943	<0.943	<1.04	<1.00	<1.04	<0.974	<1.04	<1.03	<0.956	<0.949	<0.964	<0.901	<0.895	<0.964	<0.980	<0.792	<0.963	<0.936	<0.823	<0.954	<0.975	<0.915	<0.895
1,3-Dichlorobenzene	mg/kg	<0.999	<0.943	<0.943	<1.04	<1.00	<1.04	<0.974	<1.04	<1.03	<0.956	<0.949	<0.964	<0.901	<0.895	<0.964	<0.980	<0.792	<0.963	<0.936	<0.823	<0.954	<0.975	<0.915	<0.895
1,4-Dichlorobenzene	mg/kg	<0.501	<0.473	<0.473	<0.520	<0.502	<0.522	<0.488	<0.522	<0.515	<0.480	<0.476	<0.483	<0.452	<0.449	<0.484	<0.492	<0.397	<0.483	<0.469	<0.413	<0.479	<0.489	<0.459	<0.449
2,4,5-Trichlorophenol	mg/kg	<0.999	<0.943	<0.943	<1.04	<1.00	<1.04	<0.974	<1.04	<1.03	<0.956	<0.949	<0.964	<0.901	<0.895	<0.964	<0.980	<0.792	<0.963	<0.936	<0.823	<0.954	<0.975	<0.915	<0.895
2,4,6-Trichlorophenol	mg/kg	<0.999	<0.943	<0.943	<1.04	<1.00	<1.04	<0.974	<1.04	<1.03	<0.956	<0.949	<0.964	<0.901	<0.895	<0.964	<0.980	<0.792	<0.963	<0.936	<0.823	<0.954	<0.975	<0.915	<0.895
2,4-Dichlorophenol	mg/kg	<0.999	<0.943	<0.943	<1.04	<1.00	<1.04	<0.974	<1.04	<1.03	<0.956	<0.949	<0.964	<0.901	<0.895	<0.964	<0.980	<0.792	<0.963	<0.936	<0.823	<0.954	<0.975	<0.915	<0.895
2,4-Dimethylphenol	mg/kg	<0.999	<0.943	<0.943	<1.04	<1.00	<1.04	<0.974	<1.04	<1.03	<0.956	<0.949	<0.964	<0.901	<0.895	<0.964	<0.980	<0.792	<0.963	<0.936	<0.823	<0.954	<0.975	<0.915	<0.895
2,4-Dinitrophenol	mg/kg	<5.01	<4.73	<4.73	<5.20	<5.02	<5.22	<4.88	<5.22	<5.15	<4.80	<4.76	<4.83	<4.52	<4.49	<4.84	<4.92	<3.97	<4.83	<4.69	<4.13	<4.79	<4.89	<4.59	<4.49
2,4-Dinitrotoluene	mg/kg	<0.999	<0.943	<0.943	<1.04	<1.00	<1.04	<0.974	<1.04	<1.03	<0.956	<0.949	<0.964	<0.901	<0.895	<0.964	<0.980	<0.792	<0.963	<0.936	<0.823	<0.954	<0.975	<0.915	<0.895
2,6-Dinitrotoluene	mg/kg	<0.999	<0.943	<0.943	<1.04	<1.00	<1.04	<0.974	<1.04	<1.03	<0.956	<0.949	<0.964	<0.901	<0.895	<0.964	<0.980	<0.792	<0.963	<0.936	<0.823	<0.954	<0.975	<0.915	<0.895
2-Chloronaphthalene	mg/kg	<0.999	<0.943	<0.943	<1.04	<1.00	<1.04	<0.974	<1.04	<1.03	<0.956	<0.949	<0.964	<0.901	<0.895	<0.964	<0.980	<0.792	<0.963	<0.936	<0.823	<0.954	<0.975	<0.915	<0.895
2-Chlorophenol	mg/kg	<0.999	<0.943	<0.943	<1.04	<1.00	<1.04	<0.974	<1.04	<1.03	<0.956	<0.949	<0.964	<0.901	<0.895	<0.964	<0.980	<0.792	<0.963	<0.936	<0.823	<0.954	<0.975	<0.915	<0.895
2-Methylnaphthalene	mg/kg	<0.999	<0.943	<0.943	<1.04	<1.00	<1.04	<0.974	<1.04	<1.03	<0.956	<0.949	<0.964	<0.901	<0.895	<0.964	<0.980	<0.792	<0.963	<0.936	<0.823	<0.954	<0.975	<0.915	<0.895
2-Methylphenol	mg/kg	<0.999	<0.943	<0.943	<1.04	<1.00	<1.04	<0.974	<1.04	<1.03	<0.956	<0.949	<0.964	<0.901	<0.895	<0.964	<0.980	<0.792	<0.963	<0.936	<0.823	<0.954	<0.975	<0.915	<0.895
2-Nitrophenol	mg/kg	<0.999	<0.943	<0.943	<1.04	<1.00	<1.04	<0.974	<1.04	<1.03	<0.956	<0.949	<0.964	<0.901	<0.895	<0.964	<0.980	<0.792	<0.963	<0.936	<0.823	<0.954	<0.975	<0.915	<0.895
3,3´-Dichlorobenzidine	mg/kg	<2.00	<1.89	<1.89	<2.08	<2.01	<2.09	<1.95	<2.09	<2.06	<1.92	<1.90	<1.93	<1.80	<1.79	<1.93	<1.96	<1.59	<1.93	<1.87	<1.65	<1.91	<1.95	<1.83	<1.79
3+4-Methylphenol	mg/kg	<2.00	<1.89	<1.89	<2.08	<2.01	<2.09	<1.95	<2.09	<2.06	<1.92	<1.90	<1.93	<1.80	<1.79	<1.93	<1.96	<1.59	<1.93	<1.87	<1.65	<1.91	<1.95	<1.83	<1.79
4-Bromophenyl-phenylether	mg/kg	<0.999	<0.943	<0.943	<1.04	<1.00	<1.04	<0.974	<1.04	<1.03	<0.956	<0.949	<0.964	<0.901	<0.895	<0.964	<0.980	<0.792	<0.963	<0.936	<0.823	<0.954	<0.975	<0.915	<0.895
4-Chloroaniline	mg/kg	<2.00	<1.89	<1.89	<2.08	<2.01	<2.09	<1.95	<2.09	<2.06	<1.92	<1.90	<1.93	<1.80	<1.79	<1.93	<1.96	<1.59	<1.93	<1.87	<1.65	<1.91	<1.95	<1.83	<1.79
4-Nitrophenol	mg/kg	<5.01	<4.73	<4.73	<5.20	<5.02	<5.22	<4.88	<5.22	<5.15	<4.80	<4.76	<4.83	<4.52	<4.49	<4.84	<4.92	<3.97	<4.83	<4.69	<4.13	<4.79	<4.89	<4.59	<4.49
Acenaphthene	mg/kg	<0.999	<0.943	<0.943	<1.04	<1.00	<1.04	<0.974	<1.04	<1.03	<0.956	<0.949	<0.964	<0.901	<0.895	<0.964	<0.980	<0.792	<0.963	<0.936	<0.823	<0.954	<0.975	<0.915	<0.895
Acenaphthylene	mg/kg	<0.999	<0.943	<0.943	<1.04	<1.00	<1.04	<0.974	<1.04	<1.03	<0.956	<0.949	<0.964	<0.901	<0.895	<0.964	<0.980	<0.792	<0.963	<0.936	<0.823	<0.954	<0.975	<0.915	<0.895
Acetophenone	mg/kg	<2.00	<1.89	<1.89	<2.08	<2.01	<2.09	<1.95	<2.09	<2.06	<1.92	<1.90	<1.93	<1.80	<1.79	<1.93	<1.96	<1.59	<1.93	<1.87	<1.65	<1.91	<1.95	<1.83	<1.79
Aniline	mg/kg	<5.01	<4.73	<4.73	<5.20	<5.02	<5.22	<4.88	<5.22	<5.15	<4.80	<4.76	<4.83	<4.52	<4.49	<4.84	<4.92	<3.97	<4.83	<4.69	<4.13	<4.79	<4.89	<4.59	<4.49
Anthracene	mg/kg	<0.999	<0.943	<0.943	<1.04	<1.00	<1.04	<0.974	<1.04	<1.03	<0.956	<0.949	<0.964	<0.901	<0.895	<0.964	<0.980	<0.792	<0.963	<0.936	<0.823	<0.954	<0.975	<0.915	<0.895
Azobenzene	mg/kg	<0.999	<0.943	<0.943	<1.04	<1.00	<1.04	<0.974	<1.04	<1.03	<0.956	<0.949	<0.964	<0.901	<0.895	<0.964	<0.980	<0.792	<0.963	<0.936	<0.823	<0.954	<0.975	<0.915	<0.895
Benzo(a)anthracene	mg/kg	<0.999	<0.943	1.34	<1.04	<1.00	<1.04	<0.974	<1.04	<1.03	<0.956	<0.949	1.43	1.58	<0.895	<0.964	<0.980	<0.792	1.62	<0.936	<0.823	<0.954	<0.975	<0.915	<0.895
Benzo(a)pyrene	mg/kg	<0.501	0.577	1.12	<0.520	<0.502	<0.522	<0.488	<0.522	<0.515	<0.480	<0.476	1.1	1.28	<0.449	<0.484	<0.492	<0.397	1.25	<0.469	<0.413	0.581	<0.489	<0.459	<0.449
Benzo(b)fluoranthene	mg/kg	<0.999	<0.943	1.46	<1.04	<1.00	<1.04	<0.974	<1.04	<1.03	<0.956	<0.949	1.54	1.53	<0.895	<0.964	<0.980	<0.792	1.44	<0.936	<0.823	<0.954	<0.975	<0.915	<0.895
Benzo(g,h,i)perylene	mg/kg	<0.999	<0.943	<0.943	<1.04	<1.00	<1.04	<0.974	<1.04	<1.03	<0.956	<0.949	<0.964	<0.901	<0.895	<0.964	<0.980	<0.792	<0.963	<0.936	<0.823	<0.954	<0.975	<0.915	<0.895
Benzo(k)fluoranthene	mg/kg	<0.999	<0.943	<0.943	<1.04	<1.00	<1.04	<0.974	<1.04	<1.03	<0.956	<0.949	<0.964	<0.901	<0.895	<0.964	<0.980	<0.792	<0.963	<0.936	<0.823	<0.954	<0.975	<0.915	<0.895
bis(2-Chloroethoxy)methane	mg/kg	<0.999	<0.943	<0.943	<1.04	<1.00	<1.04	<0.974	<1.04	<1.03	<0.956	<0.949	<0.964	<0.901	<0.895	<0.964	<0.980	<0.792	<0.963	<0.936	<0.823	<0.954	<0.975	<0.915	<0.895
bis(2-Chloroethyl)ether	mg/kg	<0.501	<0.473	<0.473	<0.520	<0.502	<0.522	<0.488	<0.522	<0.515	<0.480	<0.476	<0.483	<0.452	<0.449	<0.484	<0.492	<0.397	<0.483	<0.469	<0.413	<0.479	<0.489	<0.459	<0.449
bis(2-chloroisopropyl)Ether	mg/kg	<0.501	<0.473	<0.473	<0.520	<0.502	<0.522	<0.488	<0.522	<0.515	<0.480	<0.476	<0.483	<0.452	<0.449	<0.484	<0.492	<0.397	<0.483	<0.469	<0.413	<0.479	<0.489	<0.459	<0.449
bis(2-Ethylhexyl)phthalate	mg/kg	6.29	2.91	0.994	<1.04	<1.00	<1.04	<0.974	<1.04	<1.03	<0.956	<0.949	<0.964	<0.901	<0.895	<0.964	<0.980	<0.792	<0.963	1.81	<0.823	<0.954	<0.975	<0.915	<0.895
Butylbenzylphthalate	mg/kg	<0.999	<0.943	<0.943	<1.04	<1.00	<1.04	<0.974	<1.04	<1.03	<0.956	<0.949	<0.964	<0.901	<0.895	<0.964	<0.980	<0.792	<0.963	<0.936	<0.823	<0.954	<0.975	<0.915	<0.895
Chrysene	mg/kg	<0.501	0.663	1.4	<0.520	<0.502	<0.522	<0.488	<0.522	<0.515	<0.480	<0.476	1.36	1.47	<0.449	<0.484	<0.492	<0.397	1.51	0.572	<0.413	0.571	<0.489	<0.459	<0.449
Dibenzo(a,h)Anthracene	mg/kg	<0.501	<0.473	<0.473	<0.520	<0.502	<0.522	<0.488	<0.522	<0.515	<0.480	<0.476	<0.483	<0.452	<0.449	<0.484	<0.492	<0.397	<0.483	<0.469	<0.413	<0.479	<0.489	<0.459	<0.449
Dibenzofuran	mg/kg	<0.999	<0.943	<0.943	<1.04	<1.00	<1.04	<0.974	<1.04	<1.03	<0.956	<0.949	<0.964	<0.901	<0.895	<0.964	<0.980	<0.792	<0.963	<0.936	<0.823	<0.954	<0.975	<0.915	<0.895
Diethylphthalate	mg/kg	<0.999	<0.943	<0.943	<1.04	<1.00	<1.04	<0.974	<1.04	<1.03	<0.956	<0.949	<0.964	<0.901	<0.895	<0.964	<0.980	<0.792	<0.963	<0.936	<0.823	<0.954	<0.975	<0.915	<0.895
Dimethylphthalate	mg/kg	<0.999	<0.943	<0.943	<1.04	<1.00	<1.04	<0.974	<1.04	<1.03	<0.956	<0.949	<0.964	<0.901	<0.895	<0.964	<0.980	<0.792	<0.963	<0.936	<0.823	<0.954	<0.975	<0.915	<0.895
Di-n-butylphthalate	mg/kg	<0.999	<0.943	<0.943	<1.04	<1.00	<1.04	<0.974	<1.04	<1.03	<0.956	<0.949	<0.964	<0.901	<0.895	<0.964	<0.980	<0.792	<0.963	<0.936	<0.823	<0.954	<0.975	<0.915	<0.895
Di-n-octylphthalate	mg/kg	<0.999	<0.943	<0.943	<1.04	<1.00	<1.04	<0.974	<1.04	<1.03	<0.956	<0.949	<0.964	<0.901	<0.895	<0.964	<0.980	<0.792	<0.963	<0.936	<0.823	<0.954	<0.975	<0.915	<0.895
Fluoranthene	mg/kg	<0.999	1.58	2.86	<1.04	<1.00	<1.04	<0.974	<1.04	<1.03	<0.956	<0.949	2.82	2.82	<0.895	<0.964	<0.980	<0.792	3.14	1.01	<0.823	<0.954	<0.975	<0.915	<0.895
Fluorene	mg/kg	<0.999	<0.943	<0.943	<1.04	<1.00	<1.04	<0.974	<1.04	<1.03	<0.956	<0.949	<0.964	<0.901	<0.895	<0.964	<0.980	<0.792	<0.963	<0.936	<0.823	<0.954	<0.975	<0.915	<0.895
Hexachlorobenzene	mg/kg	<0.501	<0.473	<0.473	<0.520	<0.502	<0.522	<0.488	<0.522	<0.515	<0.480	<0.476	<0.483	<0.452	<0.449	<0.484	<0.492	<0.397	<0.483	<0.469	<0.413	<0.479	<0.489	<0.459	<0.449
Hexachlorobutadiene	mg/kg	<0.999	<0.943	<0.943	<1.04	<1.00	<1.04	<0.974	<1.04	<1.03	<0.956	<0.949	<0.964	<0.901	<0.895	<0.964	<0.980	<0.792	<0.963	<0.936	<0.823	<0.954	<0.975	<0.915	<0.895
Hexachloroethane	mg/kg	<0.999	<0.943	<0.943	<1.04	<1.00	<1.04	<0.974	<1.04	<1.03	<0.956	<0.949	<0.964	<0.901	<0.895	<0.964	<0.980	<0.792	<0.963	<0.936	<0.823	<0.954	<0.975	<0.915	<0.895
Indeno(1,2,3-cd)Pyrene	mg/kg	<0.999	<0.943	<0.943	<1.04	<1.00	<1.04	<0.974	<1.04	<1.03	<0.956	<0.949	<0.964	<0.901	<0.895	<0.964	<0.980	<0.792	<0.963	<0.936	<0.823	<0.954	<0.975	<0.915	<0.895
Isophorone	mg/kg	<0.999	<0.943	<0.943	<1.04	<1.00	<1.04	<0.974	<1.04	<1.03	<0.956	<0.949	<0.964	<0.901	<0.895	<0.964	<0.980	<0.792	<0.963	<0.936	<0.823	<0.954	<0.975	<0.915	<0.895
Naphthalene	mg/kg	<0.999	<0.943	<0.943	<1.04	<1.00	<1.04	<0.974	<1.04	<1.03	<0.956	<0.949	<0.964	<0.901	<0.895	<0.964	<0.980	<0.792	<0.963	<0.936	<0.823	<0.954	<0.975	<0.915	<0.895
Nitrobenzene	mg/kg	<0.999	<0.943	<0.943	<1.04	<1.00	<1.04	<0.974	<1.04	<1.03	<0.956	<0.949	<0.964	<0.901	<0.895	<0.964	<0.980	<0.792	<0.963	<0.936	<0.823	<0.954	<0.975	<0.915	<0.895
N-Nitrosodimethylamine	mg/kg	<0.999	<0.943	<0.943	<1.04	<1.00	<1.04	<0.974	<1.04	<1.03	<0.956	<0.949	<0.964	<0.901	<0.895	<0.964	<0.980	<0.792	<0.963	<0.936	<0.823	<0.954	<0.975	<0.915	<0.895
Pentachlorophenol	mg/kg	<5.01	<4.73	<4.73	<5.20	<5.02	<5.22	<4.88	<5.22	<5.15	<4.80	<4.76	<4.83	<4.52	<4.49	<4.84	<4.92	<3.97	<4.83	<4.69	<4.13	<4.79	<4.89	<4.59	<4.49
Phenanthrene	mg/kg	<0.999	1.67	1.97	<1.04	<1.00	<1.04	<0.974	<1.04	<1.03	<0.956	<0.949	2.52	1.46	<0.895	<0.964	<0.980	<0.792	1.35	<0.936	<0.823	<0.954	<0.975	<0.915	<0.895
Phenol	mg/kg	<0.999	<0.943	<0.943	<1.04	<1.00	<1.04	<0.974	<1.04	<1.03	<0.956	<0.949	<0.964	<0.901	<0.895	<0.964	<0.980	<0.792	<0.963	<0.936	<0.823	<0.954	<0.975	<0.915	<0.895
Pyrene	mg/kg	<0.999	1.27	2.11	<1.04	<1.00	<1.04	<0.974	<1.04	<1.03	<0.956	<0.949	2.31	2.31	<0.895	<0.964	<0.980	<0.792	2.28	<0.936	<0.823	<0.954	<0.975	<0.915	<0.895
Total SVOCs	mg/kg	6.29	8.67	13.254	ND	ND	ND	ND	ND	ND	ND	ND	13.08	12.45	ND	ND	ND	ND	12.59	3.392	ND	1.152	ND	ND	ND
Classic Chemistry																									
Corrosivity (pH)	S.U.	8.92	9.11	7.63	6.43	4.66	4.31	5.94	5.03	5.17	5.36	6.46	6.95	6.56	4.5	6.06	5.07	5.79	7.81	7.7	6.04	4.81	5.95	5	5.01
Conductivity	umhos/cm	540	448	1290	1460	698	8190	1460	1200	472	644	413	787	870	1820	4590	618	576	956	445	265	467	125	221	201
Flashpoint	°F	>200	>200	>200	>200	--	--	--	--	--	--	--	>200	>200	>200	>200	>200	>200	>200	>200	>200	--	--	--	--
Reactive Cyanide	mg/kg	<2.0	<2.0	<2.0	<2.0	--	--	--	--	--	--	--	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--	--	--	--
Reactive Sulfide	mg/kg	<2.0	<2.0	<2.0	<2.0	--	--	--	--	--	--	--	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--	--	--	--

Table 1
Soil Precharacterization Data

Wynn Resort Casino
Everett, Massachusetts

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	B12 B12S10 1502142 Natural Sand/Gravel 29 - 31 2/11/2015	B12 B12S11S12 1502142 Natural Clay 34 - 38 2/11/2015	B13 B13S01S02A 1501230 Fill 0 - 3.3 1/13/2015	B13 B13S02BS04A 1501230 Fill 3.3 - 7 1/13/2015	B13 B13S04BS05 1501230 Natural Sand/Gravel 7 - 10 1/13/2015	B13 B13S06 1501230 Natural Sand/Gravel 14 - 16 1/13/2015	B13 B13S07 1501230 Natural Sand/Gravel 19 - 21 1/13/2015	B13 B13S08 1501230 Natural Sand/Gravel 24 - 26 1/13/2015	B13 B13S09 1501230 Natural Sand/Gravel 29 - 31 1/13/2015	B13 B13S10S11 1501230 Natural Sand/Gravel 34 - 38 1/13/2015	B14 B14S01S02A 1502103 Fill 0 - 3.3 2/6/2015	B14 B14S02BS04A 1502103 Fill 3.3 - 6.6 2/6/2015	B14 B14S04BS05 1502103 Fill 6.6 - 10 2/6/2015	B14 B14S06S07A 1502125 Fill 10 - 13 2/10/2015	B14 B14S07BS08 1502125 Natural Clay 13 - 16 2/10/2015	B14 B14S09 1502125 Natural Clay 19 -21 2/10/2015	B14 B14S10 1502125 Natural Sand/Gravel 24 - 26 2/10/2015	B14 B14S11 1502125 Natural Sand/Gravel 29 - 31 2/10/2015	B14 B14S12S13 1502125 Natural Sand/Gravel 34 - 38 2/10/2015	B15 B15S01S02A 1503115 Fill 3 - 6 3/6/2015	B15 B15S02BS03 1503115 Fill 6 - 9 3/6/2015	B15 GZ001S01S02 1410404 Fill 0 - 4 10/15/2014	B15 GZ001S03S06 1410404 Fill 4 - 12 10/15/2014	B15 GZ001S07S09 1410404 Fill 12 - 18 10/15/2014
Preliminary Disposal Facility Category		Uncontaminated	Uncontaminated	MCP Regulated Type A	Hazardous Material Type B	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type B-1	Uncontaminated	Uncontaminated	MCP Regulated Material Type B-2	Hazardous Material Type A	Hazardous Material Type B	MCP Regulated Type A	Hazardous Material Type B	MCP Regulated Material Type B-2
RCRA 8 Metals	**Units**																								
Arsenic	mg/kg	19.7	<7.66	14.1	21.4	64.8	41.2	115	111	179	29.5	11.6	45.1	50.4	120	40.7	18.1	<6.97	<7.05	<7.65	8.3	66.6	<12.3	25.5	<10.3
Barium	mg/kg	14.4	22	49.9	59.1	49.2	<10.6	21.7	10.1	<10.7	31.3	46	89.1	104	14.1	88.1	106	19.3	7.31	13.8	36.5	124	25.5	55.2	214
Cadmium	mg/kg	<1.36	<1.53	<1.64	<1.88	<2.02	<2.11	<1.86	<1.65	2.68	<1.79	<1.39	<1.41	<1.61	8.23	1.57	<1.39	<1.39	<1.41	<1.53	<1.20	<1.29	<2.45	<2.15	<2.05
Chromium	mg/kg	13.9	11.2	20.1	12.8	20.3	<4.22	4.51	14.8	5.96	18.7	24.8	28	15.9	5.69	40.6	56.2	12.2	<2.82	<3.06	14.9	13.6	42.8	11	<4.11
Lead	mg/kg	<13.6	<15.3	209	919	123	68.7	390	<16.5	<21.3	<17.9	137	772	1040	111	32.9	19.2	<13.9	63.3	518	387	29000	36.8	1250	1010
Selenium	mg/kg	<6.78	<7.66	<13.1	33.8	<8.07	<16.9	<14.9	<13.2	<17.1	<14.3	<6.95	<7.04	<8.03	75.3	8.59	<6.97	<6.97	<7.05	<7.65	<5.98	9.28	<2.45	2.67	4.16
Silver	mg/kg	<1.36	<1.53	<1.64	<1.88	<2.02	<2.11	<1.86	<1.65	<2.13	<1.79	<1.39	2.5	2.17	29.5	3.7	<1.39	<1.39	<1.41	<1.53	<1.20	9.86	<2.45	<2.15	4.25
Mercury	mg/kg	<0.032	0.041	0.466	32.3	0.268	<0.035	0.047	<0.035	<0.039	<0.030	0.201	0.268	0.181	0.895	0.297	<0.039	<0.041	<0.032	<0.041	0.392	1.43	0.047	0.483	0.382
Metals by Toxicity Characteristic Leaching Procedure (TCLP)																									
Arsenic	mg/L	--	--	--	--	--	--	<0.050	<0.050	<0.050	--	--	--	--	<0.050	--	--	--	--	--	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead	mg/L	--	--	0.144	41.6	0.444	--	<0.050	--	--	--	0.405	0.279	3.05	<0.050	--	--	--	--	8.61	<0.500	155	--	14	21.8
Selenium	mg/L	--	--	--	<0.050	--	--	--	--	--	--	--	--	--	0.227	--	--	--	--	--	--	--	--	--	--
Mercury	mg/L	--	--	--	<0.00050	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Herbicides																									
2,4,5-T	mg/kg	--	<0.057	<0.053	<0.055	--	--	--	--	--	--	<0.065	<0.051	<0.059	<0.062	<0.061	<0.064	--	--	--	<0.090	<0.10	<0.0087	<0.018	<0.018
2,4-D	mg/kg	--	<0.057	<0.053	<0.055	--	--	--	--	--	--	<0.065	<0.051	<0.059	<0.062	<0.061	<0.064	--	--	--	<0.45	<0.51	0.4	<0.018	<0.018
2,4-DB	mg/kg	--	<0.057	<0.053	<0.055	--	--	--	--	--	--	<0.065	<0.051	<0.059	<0.062	<0.061	<0.064	--	--	--	<0.034	<0.038	<0.0087	<0.018	<0.018
Dalapon	mg/kg	--	<0.69	<0.64	<0.66	--	--	--	--	--	--	<0.79	<0.62	<0.71	<0.75	<0.74	<0.78	--	--	--	<2.7	<3.1	<0.11	<0.22	<0.22
Dicamba	mg/kg	--	<0.057	<0.053	<0.055	--	--	--	--	--	--	<0.065	<0.051	<0.059	<0.062	<0.061	<0.064	--	--	--	<0.13	<0.15	0.15	<0.018	<0.018
Dichlorprop	mg/kg	--	<0.057	<0.053	<0.055	--	--	--	--	--	--	<0.065	<0.051	<0.059	<0.062	<0.061	<0.064	--	--	--	<0.29	<0.33	<0.0087	<0.018	<0.018
Dinoseb	mg/kg	--	<0.34	<0.32	<0.33	--	--	--	--	--	--	<0.39	<0.31	<0.35	<0.37	<0.37	<0.39	--	--	--	<0.45	<0.51	<0.053	<0.11	<0.11
MCPA	mg/kg	--	<14	<13	<13	--	--	--	--	--	--	<16	<12	<14	<15	<15	<16	--	--	--	<110	<130	<2.1	<4.4	<4.4
MCPP	mg/kg	--	<14	<13	<13	--	--	--	--	--	--	<16	<12	<14	<15	<15	<16	--	--	--	<110	<130	<2.1	<4.4	<4.4
Silvex (2,4,5-TP)	mg/kg	--	<0.057	<0.053	<0.055	--	--	--	--	--	--	<0.065	<0.051	<0.059	<0.062	<0.061	<0.064	--	--	--	<0.090	<0.10	<0.0087	<0.018	<0.018
Pesticides																									
4,4'-DDD	mg/kg	--	<0.0020	<0.039	<0.0096	--	--	--	--	--	--	<0.0023	<0.0019	<0.0021	<0.0021	<0.0022	<0.0022	--	--	--	<0.0038	<0.0043	<0.0019	<0.019	<0.0021
4,4'-DDE	mg/kg	--	<0.0020	<0.039	<0.0096	--	--	--	--	--	--	<0.0023	<0.0019	<0.0021	<0.0021	<0.0022	<0.0022	--	--	--	<0.0038	<0.0043	<0.0019	<0.019	<0.0021
4,4'-DDT	mg/kg	--	<0.0020	<0.039	<0.0096	--	--	--	--	--	--	<0.0023	<0.0019	<0.0021	<0.0021	<0.0022	<0.0022	--	--	--	<0.0038	<0.0043	<0.0019	<0.019	<0.0021
Aldrin	mg/kg	--	<0.0020	<0.039	<0.0096	--	--	--	--	--	--	<0.0023	<0.0019	<0.0021	<0.0022	<0.0022	<0.0022	--	--	--	<0.0038	<0.0043	<0.0019	<0.019	<0.0021
alpha-BHC	mg/kg	--	<0.0020	<0.039	<0.0096	--	--	--	--	--	--	<0.0023	<0.0019	<0.0021	<0.0022	<0.0022	<0.0022	--	--	--	<0.0038	<0.0043	<0.0019	<0.019	<0.0021
beta-BHC	mg/kg	--	<0.0020	<0.039	<0.0096	--	--	--	--	--	--	<0.0023	<0.0019	<0.0021	<0.0022	<0.0022	<0.0022	--	--	--	<0.0038	<0.0043	<0.0019	<0.019	<0.0021
Chlordane (technical)	mg/kg	--	<0.020	<0.39	<0.096	--	--	--	--	--	--	<0.023	<0.019	<0.021	<0.022	<0.022	<0.022	--	--	--	<0.038	<0.043	<0.019	<0.19	<0.021
delta-BHC	mg/kg	--	<0.0020	<0.039	<0.0096	--	--	--	--	--	--	<0.0023	<0.0019	<0.0021	<0.0022	<0.0022	<0.0022	--	--	--	<0.0038	<0.0043	<0.0019	<0.019	<0.0021
Dieldrin	mg/kg	--	<0.0020	<0.039	<0.0096	--	--	--	--	--	--	<0.0023	<0.0019	<0.0021	<0.0022	<0.0022	<0.0022	--	--	--	<0.0038	<0.0043	<0.0019	<0.019	<0.0021
Endosulfan I	mg/kg	--	<0.0020	<0.039	<0.0096	--	--	--	--	--	--	<0.0023	<0.0019	<0.0021	<0.0022	<0.0022	<0.0022	--	--	--	<0.0038	<0.0043	<0.0019	<0.019	<0.0021
Endosulfan II	mg/kg	--	<0.0020	<0.039	<0.0096	--	--	--	--	--	--	<0.0023	<0.0019	<0.0021	<0.0022	<0.0022	<0.0022	--	--	--	<0.0038	<0.0043	<0.0019	<0.019	<0.0021
Endosulfan sulfate	mg/kg	--	<0.0020	<0.039	<0.0096	--	--	--	--	--	--	<0.0023	<0.0019	<0.0021	<0.0022	<0.0022	<0.0022	--	--	--	<0.0038	<0.0043	<0.0019	<0.019	<0.0021
Endrin	mg/kg	--	<0.0020	<0.039	<0.0096	--	--	--	--	--	--	<0.0023	<0.0019	<0.0021	<0.0022	<0.0022	<0.0022	--	--	--	<0.0038	<0.0043	<0.0019	<0.019	<0.0021
Endrin ketone	mg/kg	--	<0.0020	<0.039	<0.0096	--	--	--	--	--	--	<0.0023	<0.0019	<0.0021	<0.0022	<0.0022	<0.0022	--	--	--	<0.0038	<0.0043	<0.0019	<0.019	<0.0021
gamma-BHC (Lindane)	mg/kg	--	<0.0020	<0.039	<0.0096	--	--	--	--	--	--	<0.0023	<0.0019	<0.0021	<0.0022	<0.0022	<0.0022	--	--	--	<0.0038	<0.0043	<0.0019	<0.019	<0.0021
Heptachlor	mg/kg	--	<0.0020	<0.039	<0.0096	--	--	--	--	--	--	<0.0023	<0.0019	<0.0021	<0.0022	<0.0022	<0.0022	--	--	--	<0.0038	<0.0043	<0.0019	<0.019	<0.0021
Heptachlor epoxide	mg/kg	--	<0.0020	<0.039	<0.0096	--	--	--	--	--	--	<0.0023	<0.0019	<0.0021	<0.0022	<0.0022	<0.0022	--	--	--	<0.0038	<0.0043	<0.0019	<0.019	<0.0021
Hexachlorobenzene	mg/kg	--	<0.0020	<0.039	<0.0096	--	--	--	--	--	--	<0.0023	<0.0019	0.0026	<0.0022	<0.0022	<0.0022	--	--	--	<0.0038	<0.0043	<0.0019	<0.019	<0.0021
Methoxychlor	mg/kg	--	<0.0020	<0.039	<0.0096	--	--	--	--	--	--	<0.0023	<0.0019	<0.0021	<0.0022	<0.0022	<0.0022	--	--	--	<0.0038	<0.0043	<0.0019	<0.019	<0.0021
Polychlorinated Biphenyls																									
Aroclor 1016	mg/kg	<0.127	<0.144	<0.131	<0.135	<0.153	<0.149	<0.131	<0.134	<0.148	<0.129	<0.142	<0.139	<0.169	<0.146	<0.159	<0.153	<0.155	<0.161	<0.148	<0.136	<0.147	<0.209	<0.201	<0.241
Aroclor 1221	mg/kg	<0.127	<0.144	<0.131	<0.135	<0.153	<0.149	<0.131	<0.134	<0.148	<0.129	<0.142	<0.139	<0.169	<0.146	<0.159	<0.153	<0.155	<0.161	<0.148	<0.136	<0.147	<0.209	<0.201	<0.241
Aroclor 1232	mg/kg	<0.127	<0.144	<0.131	<0.135	<0.153	<0.149	<0.131	<0.134	<0.148	<0.129	<0.142	<0.139	<0.169	<0.146	<0.159	<0.153	<0.155	<0.161	<0.148	<0.136	<0.147	<0.209	<0.201	<0.241
Aroclor 1242	mg/kg	<0.127	<0.144	<0.131	<0.135	<0.153	<0.149	<0.131	<0.134	<0.148	<0.129	<0.142	<0.139	<0.169	<0.146	<0.159	<0.153	<0.155	<0.161	<0.148	<0.136	<0.147	<0.209	<0.201	<0.241
Aroclor 1248	mg/kg	<0.127	<0.144	<0.131	<0.135	<0.153	<0.149	<0.131	<0.134	<0.148	<0.129	<0.142	<0.139	5.06	<0.146	<0.159	<0.153	<0.155	<0.161	<0.148	5.6	0.883	<0.209	<0.201	<0.241
Aroclor 1254	mg/kg	<0.127	<0.144	<0.131	<0.135	<0.153	<0.149	<0.131	<0.134	<0.148	<0.129	<0.142	0.472	<0.169	<0.146	<0.159	<0.153	<0.155	<0.161	<0.148	<0.136	<0.147	<0.209	3.19	<0.241
Aroclor 1260	mg/kg	<0.127	<0.144	<0.131	<0.135	<0.153	<0.149	<0.131	<0.134	<0.148	<0.129	<0.142	<0.139	<0.169	<0.146	<0.159	<0.153	<0.155	<0.161	<0.148	<0.136	<0.147	<0.209	<0.201	<0.241
Aroclor 1262	mg/kg	<0.127	<0.144	<0.131	<0.135	<0.153	<0.149	<0.131	<0.134	<0.148	<0.129	<0.142	<0.139	4.03	<0.146	<0.159	<0.153	<0.155	<0.161	<0.148	<0.136	<0.147	<0.209	3.17	<0.241
Aroclor 1268	mg/kg	<0.127	<0.144	<0.131	<0.135	<0.153	<0.149	<0.131	<0.134	<0.148	<0.129	<0.142	<0.139	<0.169	<0.146	<0.159	<0.153	<0.155	<0.161	<0.148	2.58	0.628	<0.209	<0.201	<0.241
Total PCBs	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.472	9.09	ND	ND	ND	ND	ND	ND	8.18	1.511	ND	6.36	ND
Total Petroleum Hydrocarbons	mg/kg	<41.4	<45.7	429	2710	3500	<43.0	<39.4	<43.5	<45.0	<43.0	61.9	149	1070	<42.1	<49.6	<51.1	<44.6	<50.5	<47.0	187	4480	<41.7	590	117
Volatile Organic Compounds (VOCs)																									
1,1,1,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-Chloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane - Screen	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Butanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Isopropyltoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-Pentanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Disulfide	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	B12 B12S10 1502142 Natural Sand/Gravel 29 - 31 2/11/2015	B12 B12S11S12 1502142 Natural Clay 34 - 38 2/11/2015	B13 B13S01S02A 1501230 Fill 0 - 3.3 1/13/2015	B13 B13S02BS04A 1501230 Fill 3.3 - 7 1/13/2015	B13 B13S04BS05 1501230 Natural Sand/Gravel 7 - 10 1/13/2015	B13 B13S06 1501230 Natural Sand/Gravel 14 - 16 1/13/2015	B13 B13S07 1501230 Natural Sand/Gravel 19 - 21 1/13/2015	B13 B13S08 1501230 Natural Sand/Gravel 24 - 26 1/13/2015	B13 B13S09 1501230 Natural Sand/Gravel 29 - 31 1/13/2015	B13 B13S10S11 1501230 Natural Sand/Gravel 34 - 38 1/13/2015	B14 B14S01S02A 1502103 Fill 0 - 3.3 2/6/2015	B14 B14S02BS04A 1502103 Fill 3.3 - 6.6 2/6/2015	B14 B14S04BS05 1502103 Fill 6.6 - 10 2/6/2015	B14 B14S06S07A 1502125 Fill 10 - 13 2/10/2015	B14 B14S07BS08 1502125 Natural Clay 13 - 16 2/10/2015	B14 B14S09 1502125 Natural Clay 19 -21 2/10/2015	B14 B14S10 1502125 Natural Sand/Gravel 24 - 26 2/10/2015	B14 B14S11 1502125 Natural Sand/Gravel 29 - 31 2/10/2015	B14 B14S12S13 1502125 Natural Sand/Gravel 34 - 38 2/10/2015	B15 B15S01S02A 1503115 Fill 3 - 6 3/6/2015	B15 B15S02BS03 1503115 Fill 6 - 9 3/6/2015	B15 GZ001S01S02 1410404 Fill 0 - 4 10/15/2014	B15 GZ001S03S06 1410404 Fill 4 - 12 10/15/2014	B15 GZ001S07S09 1410404 Fill 12 - 18 10/15/2014
Preliminary Disposal Facility Category		**Uncontaminated**	**Uncontaminated**	**MCP Regulated Type A**	**Hazardous Material Type B**	**Hazardous Material Type A**	**Hazardous Material Type A**	**Hazardous Material Type A**	**Hazardous Material Type A**	**Hazardous Material Type A**	**MCP Regulated Type A**	**MCP Regulated Type A**	**Hazardous Material Type A**	**Hazardous Material Type A**	**Hazardous Material Type A**	**Hazardous Material Type A**	**MCP Regulated Type B-1**	**Uncontaminated**	**Uncontaminated**	**MCP Regulated Material Type B-2**	**Hazardous Material Type A**	**Hazardous Material Type B**	**MCP Regulated Type A**	**Hazardous Material Type B**	**MCP Regulated Material Type B-2**
Chlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Diethyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Di-isopropyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethyl tertiary-butyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
tert-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tertiary-amyl methyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene O	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene P,M	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylenes (Total)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total VOCs	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds - Low Level Analysis																									
1,1,1,2-Tetrachloroethane	mg/kg	<0.0027	<0.0028	<0.0047	<0.0039	<0.0041	<0.0039	<0.0037	<0.0034	<0.0038	<0.0031	<0.0043	<0.0041	<0.0049	<0.0030	<0.0038	<0.0032	<0.0026	<0.0033	<0.0045	<0.0054	<0.0035	<0.0028	<0.0020	<0.0030
1,1,1-Trichloroethane	mg/kg	<0.0027	<0.0028	<0.0047	<0.0039	0.0056	<0.0039	<0.0037	<0.0034	<0.0038	<0.0031	<0.0043	<0.0041	<0.0049	<0.0030	<0.0038	<0.0032	<0.0026	<0.0033	<0.0045	<0.0054	<0.0035	<0.0028	<0.0020	<0.0030
1,1,2,2-Tetrachloroethane	mg/kg	<0.0011	<0.0011	<0.0019	<0.0016	<0.0016	<0.0016	<0.0015	<0.0014	<0.0015	<0.0012	<0.0017	<0.0016	<0.0020	<0.0012	<0.0015	<0.0013	<0.0010	<0.0013	<0.0018	<0.0022	<0.0014	<0.0011	<0.0008	<0.0012
1,1,2-Trichloroethane	mg/kg	<0.0027	<0.0028	<0.0047	<0.0039	<0.0041	<0.0039	<0.0037	<0.0034	<0.0038	<0.0031	<0.0043	<0.0041	<0.0049	<0.0030	<0.0038	<0.0032	<0.0026	<0.0033	<0.0045	<0.0054	<0.0035	<0.0028	<0.0020	<0.0030
1,1-Dichloroethane	mg/kg	<0.0027	<0.0028	<0.0047	<0.0039	<0.0041	<0.0039	<0.0037	<0.0034	<0.0038	<0.0031	<0.0043	<0.0041	<0.0049	<0.0030	<0.0038	<0.0032	<0.0026	<0.0033	<0.0045	<0.0054	<0.0035	<0.0028	<0.0020	<0.0030
1,1-Dichloroethene	mg/kg	<0.0027	<0.0028	<0.0047	<0.0039	<0.0041	<0.0039	<0.0037	<0.0034	<0.0038	<0.0031	<0.0043	<0.0041	<0.0049	<0.0030	<0.0038	<0.0032	<0.0026	<0.0033	<0.0045	<0.0054	<0.0035	<0.0028	<0.0020	<0.0030
1,1-Dichloropropene	mg/kg	<0.0027	<0.0028	<0.0047	<0.0039	<0.0041	<0.0039	<0.0037	<0.0034	<0.0038	<0.0031	<0.0043	<0.0041	<0.0049	<0.0030	<0.0038	<0.0032	<0.0026	<0.0033	<0.0045	<0.0054	<0.0035	<0.0028	<0.0020	<0.0030
1,2,3-Trichlorobenzene	mg/kg	<0.0027	<0.0028	<0.0047	<0.0039	<0.0041	<0.0039	<0.0037	<0.0034	<0.0038	<0.0031	<0.0043	<0.0041	<0.0049	<0.0030	<0.0038	<0.0032	<0.0026	<0.0033	<0.0045	<0.0054	<0.0035	<0.0028	<0.0020	<0.0030
1,2,3-Trichloropropane	mg/kg	<0.0027	<0.0028	<0.0047	<0.0039	<0.0041	<0.0039	<0.0037	<0.0034	<0.0038	<0.0031	<0.0043	<0.0041	<0.0049	<0.0030	<0.0038	<0.0032	<0.0026	<0.0033	<0.0045	<0.0054	<0.0035	<0.0028	<0.0020	<0.0030
1,2,4-Trichlorobenzene	mg/kg	<0.0027	<0.0028	<0.0047	<0.0039	<0.0041	<0.0039	<0.0037	<0.0034	<0.0038	<0.0031	<0.0043	<0.0041	<0.0049	<0.0030	<0.0038	<0.0032	<0.0026	<0.0033	<0.0045	<0.0054	<0.0035	<0.0028	<0.0020	<0.0030
1,2,4-Trimethylbenzene	mg/kg	<0.0027	<0.0028	<0.0047	<0.0039	<0.0041	<0.0039	<0.0037	<0.0034	<0.0038	<0.0031	<0.0043	<0.0041	<0.0049	<0.0030	<0.0038	<0.0032	<0.0026	<0.0033	<0.0045	<0.0054	<0.0035	<0.0028	<0.0020	<0.0030
1,2-Dibromo-3-Chloropropane	mg/kg	<0.0027	<0.0028	<0.0047	<0.0039	<0.0041	<0.0039	<0.0037	<0.0034	<0.0038	<0.0031	<0.0043	<0.0041	<0.0049	<0.0030	<0.0038	<0.0032	<0.0026	<0.0033	<0.0045	<0.0054	<0.0035	<0.0028	<0.0020	<0.0030
1,2-Dibromoethane	mg/kg	<0.0027	<0.0028	<0.0047	<0.0039	<0.0041	<0.0039	<0.0037	<0.0034	<0.0038	<0.0031	<0.0043	<0.0041	<0.0049	<0.0030	<0.0038	<0.0032	<0.0026	<0.0033	<0.0045	<0.0054	<0.0035	<0.0028	<0.0020	<0.0030
1,2-Dichlorobenzene	mg/kg	<0.0027	<0.0028	<0.0047	<0.0039	<0.0041	<0.0039	<0.0037	<0.0034	<0.0038	<0.0031	<0.0043	<0.0041	<0.0049	<0.0030	<0.0038	<0.0032	<0.0026	<0.0033	<0.0045	<0.0054	<0.0035	<0.0028	<0.0020	<0.0030
1,2-Dichloroethane	mg/kg	<0.0027	<0.0028	<0.0047	<0.0039	<0.0041	<0.0039	<0.0037	<0.0034	<0.0038	<0.0031	<0.0043	<0.0041	<0.0049	<0.0030	<0.0038	<0.0032	<0.0026	<0.0033	<0.0045	<0.0054	<0.0035	<0.0028	<0.0020	<0.0030
1,2-Dichloropropane	mg/kg	<0.0027	<0.0028	<0.0047	<0.0039	<0.0041	<0.0039	<0.0037	<0.0034	<0.0038	<0.0031	<0.0043	<0.0041	<0.0049	<0.0030	<0.0038	<0.0032	<0.0026	<0.0033	<0.0045	<0.0054	<0.0035	<0.0028	<0.0020	<0.0030
1,3,5-Trimethylbenzene	mg/kg	<0.0027	<0.0028	<0.0047	<0.0039	<0.0041	<0.0039	<0.0037	<0.0034	<0.0038	<0.0031	<0.0043	<0.0041	<0.0049	<0.0030	<0.0038	<0.0032	<0.0026	<0.0033	<0.0045	<0.0054	<0.0035	<0.0028	<0.0020	<0.0030
1,3-Dichlorobenzene	mg/kg	<0.0027	<0.0028	<0.0047	<0.0039	<0.0041	<0.0039	<0.0037	<0.0034	<0.0038	<0.0031	<0.0043	<0.0041	<0.0049	<0.0030	<0.0038	<0.0032	<0.0026	<0.0033	<0.0045	<0.0054	<0.0035	<0.0028	<0.0020	<0.0030
1,3-Dichloropropane	mg/kg	<0.0027	<0.0028	<0.0047	<0.0039	<0.0041	<0.0039	<0.0037	<0.0034	<0.0038	<0.0031	<0.0043	<0.0041	<0.0049	<0.0030	<0.0038	<0.0032	<0.0026	<0.0033	<0.0045	<0.0054	<0.0035	<0.0028	<0.0020	<0.0030
1,4-Dichlorobenzene	mg/kg	<0.0027	<0.0028	<0.0047	<0.0039	<0.0041	<0.0039	<0.0037	<0.0034	<0.0038	<0.0031	<0.0043	<0.0041	<0.0049	<0.0030	<0.0038	<0.0032	<0.0026	<0.0033	<0.0045	<0.0054	<0.0035	<0.0028	<0.0020	<0.0030
1,4-Dioxane	mg/kg	<0.0531	<0.0554	<0.0931	<0.0788	<0.0815	<0.0779	<0.0744	<0.0680	<0.0751	<0.0620	<0.0851	<0.0811	<0.0983	<0.0609	<0.0757	<0.0645	<0.0516	<0.0663	<0.0895	<0.109	<0.0695	<0.0566	<0.0405	<0.0610
2,2-Dichloropropane	mg/kg	<0.0027	<0.0028	<0.0047	<0.0039	<0.0041	<0.0039	<0.0037	<0.0034	<0.0038	<0.0031	<0.0043	<0.0041	<0.0049	<0.0030	<0.0038	<0.0032	<0.0026	<0.0033	<0.0045	<0.0054	<0.0035	<0.0028	<0.0020	<0.0030
2-Butanone	mg/kg	<0.0053	<0.0055	<0.0093	<0.0079	0.0206	<0.0078	<0.0074	<0.0068	<0.0075	<0.0062	<0.0085	<0.0081	<0.0098	<0.0061	<0.0076	<0.0065	<0.0052	<0.0066	<0.0089	0.012	<0.0070	<0.0057	<0.0041	<0.0061
2-Chlorotoluene	mg/kg	<0.0027	<0.0028	<0.0047	<0.0039	<0.0041	<0.0039	<0.0037	<0.0034	<0.0038	<0.0031	<0.0043	<0.0041	<0.0049	<0.0030	<0.0038	<0.0032	<0.0026	<0.0033	<0.0045	<0.0054	<0.0035	<0.0028	<0.0020	<0.0030
2-Hexanone	mg/kg	<0.0053	<0.0055	<0.0093	<0.0079	<0.0082	<0.0078	<0.0074	<0.0068	<0.0075	<0.0062	<0.0085	<0.0081	<0.0098	<0.0061	<0.0076	<0.0065	<0.0052	<0.0066	<0.0089	<0.0109	<0.0070	<0.0057	<0.0041	<0.0061
4-Chlorotoluene	mg/kg	<0.0027	<0.0028	<0.0047	<0.0039	<0.0041	<0.0039	<0.0037	<0.0034	<0.0038	<0.0031	<0.0043	<0.0041	<0.0049	<0.0030	<0.0038	<0.0032	<0.0026	<0.0033	<0.0045	<0.0054	<0.0035	<0.0028	<0.0020	<0.0030
4-Isopropyltoluene	mg/kg	<0.0027	<0.0028	<0.0047	<0.0039	<0.0041	<0.0039	<0.0037	<0.0034	<0.0038	<0.0031	<0.0043	<0.0041	<0.0049	<0.0030	<0.0038	<0.0032	<0.0026	<0.0033	<0.0045	<0.0054	<0.0035	<0.0028	<0.0020	<0.0030
4-Methyl-2-Pentanone	mg/kg	<0.0053	<0.0055	<0.0093	<0.0079	<0.0082	<0.0078	<0.0074	<0.0068	<0.0075	<0.0062	<0.0085	<0.0081	<0.0098	<0.0061	<0.0076	<0.0065	<0.0052	<0.0066	<0.0089	<0.0109	<0.0070	<0.0057	<0.0041	<0.0061
Acetone	mg/kg	<0.0053	<0.0055	<0.0093	<0.0079	0.16	<0.0078	<0.0074	0.0089	<0.0075	0.0096	<0.0085	0.0252	<0.0098	0.0271	0.013	<0.0065	<0.0052	<0.0066	<0.0089	0.0401	<0.0070	<0.0057	0.0145	<0.0061
Benzene	mg/kg	<0.0027	<0.0028	<0.0047	<0.0039	<0.0041	<0.0039	<0.0037	<0.0034	<0.0038	<0.0031	<0.0043	<0.0041	<0.0049	<0.0030	<0.0038	<0.0032	<0.0026	<0.0033	<0.0045	<0.0054	<0.0035	<0.0028	<0.0020	<0.0030
Bromobenzene	mg/kg	<0.0027	<0.0028	<0.0047	<0.0039	<0.0041	<0.0039	<0.0037	<0.0034	<0.0038	<0.0031	<0.0043	<0.0041	<0.0049	<0.0030	<0.0038	<0.0032	<0.0026	<0.0033	<0.0045	<0.0054	<0.0035	<0.0028	<0.0020	<0.0030
Bromochloromethane	mg/kg	<0.0027	<0.0028	<0.0047	<0.0039	<0.0041	<0.0039	<0.0037	<0.0034	<0.0038	<0.0031	<0.0043	<0.0041	<0.0049	<0.0030	<0.0038	<0.0032	<0.0026	<0.0033	<0.0045	<0.0054	<0.0035	<0.0028	<0.0020	<0.0030
Bromodichloromethane	mg/kg	<0.0027	<0.0028	<0.0047	<0.0039	<0.0041	<0.0039	<0.0037	<0.0034	<0.0038	<0.0031	<0.0043	<0.0041	<0.0049	<0.0030	<0.0038	<0.0032	<0.0026	<0.0033	<0.0045	<0.0054	<0.0035	<0.0028	<0.0020	<0.0030
Bromoform	mg/kg	<0.0027	<0.0028	<0.0047	<0.0039	<0.0041	<0.0039	<0.0037	<0.0034	<0.0038	<0.0031	<0.0043	<0.0041	<0.0049	<0.0030	<0.0038	<0.0032	<0.0026	<0.0033	<0.0045	<0.0054	<0.0035	<0.0028	<0.0020	<0.0030
Bromomethane	mg/kg	<0.0053	<0.0055	<0.0093	<0.0079	<0.0082	<0.0078	<0.0074	<0.0068	<0.0075	<0.0062	<0.0085	<0.0081	<0.0098	<0.0061	<0.0076	<0.0065	<0.0052	<0.0066	<0.0089	<0.0109	<0.0070	<0.0057	<0.0041	<0.0061
Carbon Disulfide	mg/kg	<0.0027	<0.0028	<0.0047	<0.0039	<0.0041	<0.0039	<0.0037	<0.0034	<0.0038	<0.0031	<0.0043	<0.0041	<0.0049	<0.0030	<0.0038	<0.0032	<0.0026	<0.0033	<0.0045	<0.0054	<0.0035	<0.0028	<0.0020	<0.0030
Carbon Tetrachloride	mg/kg	<0.0027	<0.0028	<0.0047	<0.0039	<0.0041	<0.0039	<0.0037	<0.0034	<0.0038	<0.0031	<0.0043	<0.0041	<0.0049	<0.0030	<0.0038	<0.0032	<0.0026	<0.0033	<0.0045	<0.0054	<0.0035	<0.0028	<0.0020	<0.0030
Chlorobenzene	mg/kg	<0.0027	<0.0028	<0.0047	<0.0039	<0.0041	<0.0039	<0.0037	<0.0034	<0.0038	<0.0031	<0.0043	<0.0041	<0.0049	<0.0030	<0.0038	<0.0032	<0.0026	<0.0033	<0.0045	<0.0054	<0.0035	<0.0028	<0.0020	<0.0030
Chloroethane	mg/kg	<0.0053	<0.0055	<0.0093	<0.0079	<0.0082	<0.0078	<0.0074	<0.0068	<0.0075	<0.0062	<0.0085	<0.0081	<0.0098	<0.0061	<0.0076	<0.0065	<0.0052	<0.0066	<0.0089	<0.0109	<0.0070	<0.0057	<0.0041	<0.0061
Chloroform	mg/kg	<0.0027	<0.0028	<0.0047	<0.0039	<0.0041	<0.0039	<0.0037	<0.0034	<0.0038	<0.0031	<0.0043	<0.0041	<0.0049	<0.0030	<0.0038	<0.0032	<0.0026	<0.0033	<0.0045	<0.0054	<0.0035	<0.0028	<0.0020	<0.0030
Chloromethane	mg/kg	<0.0053	<0.0055	<0.0093	<0.0079	<0.0082	<0.0078	<0.0074	<0.0068	<0.0075	<0.0062	<0.0085	<0.0081	<0.0098	<0.0061	<0.0076	<0.0065	<0.0052	<0.0066	<0.0089	<0.0109	<0.0070	<0.0057	<0.0041	<0.0061
cis-1,2-Dichloroethene	mg/kg	<0.0027	<0.0028	<0.0047	<0.0039	<0.0041	<0.0039	<0.0037	<0.0034	<0.0038	<0.0031	<0.0043	<0.0041	<0.0049	<0.0030	<0.0038	<0.0032	<0.0026	<0.0033	<0.0045	<0.0054	<0.0035	<0.0028	<0.0020	<0.0030
cis-1,3-Dichloropropene	mg/kg	<0.0027	<0.0028	<0.0047	<0.0039	<0.0041	<0.0039	<0.0037	<0.0034	<0.0038	<0.0031	<0.0043	<0.0041	<0.0049	<0.0030	<0.0038	<0.0032	<0.0026	<0.0033	<0.0045	<0.0054	<0.0035	<0.0028	<0.0020	<0.0030
Dibromochloromethane	mg/kg	<0.0011	<0.0011	<0.0019	<0.0016	<0.0016	<0.0016	<0.0015	<0.0014	<0.0015	<0.0012	<0.0017	<0.0016	<0.0020	<0.0012	<0.0015	<0.0013	<0.0010	<0.0013	<0.0018	<0.0022	<0.0014	<0.0011	<0.0008	<0.0012
Dibromomethane	mg/kg	<0.0027	<0.0028	<0.0047	<0.0039	<0.0041	<0.0039	<0.0037	<0.0034	<0.0038	<0.0031	<0.0043	<0.0041	<0.0049	<0.0030	<0.0038	<0.0032	<0.0026	<0.0033	<0.0045	<0.0054	<0.0035	<0.0028	<0.0020	<0.0030
Dichlorodifluoromethane	mg/kg	<0.0053	<0.0055	<0.0093	<0.0079	<0.0082	<0.0078	<0.0074	<0.0068	<0.0075	<0.0062	<0.0085	<0.0081	<0.0098	<0.0061	<0.0076	<0.0065	<0.0052	<0.0066	<0.0089	<0.0109	<0.0070	<0.0057	<0.0041	<0.0061
Diethyl Ether	mg/kg	<0.0027	<0.0028	<0.0047	<0.0039	<0.0041	<0.0039	<0.0037	<0.0034	<0.0038	<0.0031	<0.0043	<0.0041	<0.0049	<0.0030	<0.0038	<0.0032	<0.0026	<0.0033	<0.0045	<0.0054	<0.0035	<0.0028	<0.0020	<0.0030
Di-isopropyl ether	mg/kg	<0.0027	<0.0028	<0.0047	<0.0039	<0.0041	<0.0039	<0.0037	<0.0034	<0.0038	<0.0031	<0.0043	<0.0041	<0.0049	<0.0030	<0.0038	<0.0032	<0.0026	<0.0033	<0.0045	<0.0054	<0.0035	<0.0028	<0.0020	<0.0030
Ethyl tertiary-butyl ether	mg/kg	<0.0027	<0.0028	<0.0047	<0.0039	<0.0041	<0.0039	<0.0037	<0.0034	<0.0038	<0.0031	<0.0043	<0.0041	<0.0049	<0.0030	<0.0038	<0.0032	<0.0026	<0.0033	<0.0045	<0.0054	<0.0035	<0.0028	<0.0020	<0.0030
Ethylbenzene	mg/kg	<0.0027	<0.0028	<0.0047	<0.0039	<0.0041	<0.0039	<0.0037	<0.0034	<0.0038	<0.0031	<0.0043	<0.0041	<0.0049	<0.0030	<0.0038	<0.0032	<0.0026	<0.0033	<0.0045	<0.0054	<0.0035	<0.0028	<0.0020	<0.0030
Hexachlorobutadiene	mg/kg	<0.0027	<0.0028	<0.0047	<0.0039	<0.0041	<0.0039	<0.0037	<0.0034	<0.0038	<0.0031	<0.0043	<0.0041	<0.0049	<0.0030	<0.0038	<0.0032	<0.0026	<0.0033	<0.0045	<0.0054	<0.0035	<0.0028	<0.0020	<0.0030
Isopropylbenzene	mg/kg	<0.0027	<0.0028	<0.0047	<0.0039	<0.0041	<0.0039	<0.0037	<0.0034	<0.0038	<0.0031	<0.0043	<0.0041	<0.0049	<0.0030	<0.0038	<0.0032	<0.0026	<0.0033	<0.0045	<0.0054	<0.0035	<0.0028	<0.0020	<0.0030
Methyl tert-Butyl Ether	mg/kg	<0.0027	<0.0028	<0.0047	<0.0039	<0.0041	<0.0039	<0.0037	<0.0034	<0.0038	<0.0031	<0.0043	<0.0041	<0.0049	<0.0030	<0.0038	<0.0032	<0.0026	<0.0033	<0.0045	<0.0054	<0.0035	<0.0028	<0.0020	<0.0030
Methylene Chloride	mg/kg	<0.0053	<0.0055	<0.0093	<0.0079	<0.0082	<0.0078	<0.0074	<0.0068	<0.0075	<0.0062	<0.0085	<0.0081	<0.0098	<0.0061	<0.0076	<0.0065	<0.0052	<0.0066	<0.0089	<0.0109	<0.0070	<0.0057	<0.0041	<0.0061
Naphthalene	mg/kg	<0.0027	<0.0028	<0.0047	<0.0039	<0.0041	<0.0039	<0.0037	<0.0034	<0.0038	<0.0031	<0.0043	<0.0041	<0.0049	<0.0030	<0.0038	<0.0032	<0.0026	<0.0033	<0.0045	<0.0054	<0.0035	<0.0028	0.0041	<0.0030
n-Butylbenzene	mg/kg	<0.0027	<0.0028	<0.0047	<0.0039	<0.0041	<0.0039	<0.0037	<0.0034	<0.0038	<0.0031	<0.0043	<0.0041	<0.0049	<0.0030	<0.0038	<0.0032	<0.0026	<0.0033	<0.0045	<0.0054	<0.0035	<0.0028	<0.0020	<0.0030
n-Propylbenzene	mg/kg	<0.0027	<0.0028	<0.0047	<0.0039	<0.0041	<0.0039	<0.0037	<0.0034	<0.0038	<0.0031	<0.0043	<0.0041	<0.0049	<0.0030	<0.0038	<0.0032	<0.0026	<0.0033	<0.0045	<0.0054	<0.0035	<0.0028	<0.0020	<0.0030
sec-Butylbenzene	mg/kg	<0.0027	<0.0028	<0.0047	<0.0039	<0.0041	<0.0039	<0.0037	<0.0034	<0.0038	<0.0031	<0.0043	<0.0041	<0.0049	<0.0030	<0.0038	<0.0032	<0.0026	<0.0033	<0.0045	<0.0054	<0.0035	<0.0028	<0.0020	<0.0030

J:\170,000-179,999\171521\171521-02.DEL\Supplemental Phase II\Appendices\Appendix H\172521.12 Table 1 2015-12-01.xlsx/172521.12 Table 1 2015-12-01.x

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	B12 B12S10 1502142 Natural Sand/Gravel 29 - 31 2/11/2015	B12 B12S11S12 1502142 Natural Clay 34 - 38 2/11/2015	B13 B13S01S02A 1501230 Fill 0 - 3.3 1/13/2015	B13 B13S02BS04A 1501230 Fill 3.3 - 7 1/13/2015	B13 B13S04BS05 1501230 Natural Sand/Gravel 7 - 10 1/13/2015	B13 B13S06 1501230 Natural Sand/Gravel 14 - 16 1/13/2015	B13 B13S07 1501230 Natural Sand/Gravel 19 - 21 1/13/2015	B13 B13S08 1501230 Natural Sand/Gravel 24 - 26 1/13/2015	B13 B13S09 1501230 Natural Sand/Gravel 29 - 31 1/13/2015	B13 B13S10S11 1501230 Natural Sand/Gravel 34 - 38 1/13/2015	B14 B14S01S02A 1502103 Fill 0 - 3.3 2/6/2015	B14 B14S02BS04A 1502103 Fill 3.3 - 6.6 2/6/2015	B14 B14S04BS05 1502103 Fill 6.6 - 10 2/6/2015	B14 B14S06S07A 1502125 Fill 10 - 13 2/10/2015	B14 B14S07BS08 1502125 Natural Clay 13 - 16 2/10/2015	B14 B14S09 1502125 Natural Clay 19 - 21 2/10/2015	B14 B14S10 1502125 Natural Sand/Gravel 24 - 26 2/10/2015	B14 B14S11 1502125 Natural Sand/Gravel 29 - 31 2/10/2015	B14 B14S12S13 1502125 Natural Sand/Gravel 34 - 38 2/10/2015	B15 B15S01S02A 1503115 Fill 3 - 6 3/6/2015	B15 B15S02BS03 1503115 Fill 6 - 9 3/6/2015	B15 GZ001S01S02 1410404 Fill 0 - 4 10/15/2014	B15 GZ001S03S06 1410404 Fill 4 - 12 10/15/2014	B15 GZ001S07S09 1410404 Fill 12 - 18 10/15/2014
Preliminary Disposal Facility Category		**Uncontaminated**	**Uncontaminated**	**MCP Regulated Type A**	**Hazardous Material Type B**	**Hazardous Material Type A**	**Hazardous Material Type A**	**Hazardous Material Type A**	**Hazardous Material Type A**	**Hazardous Material Type A**	**MCP Regulated Type A**	**MCP Regulated Type A**	**Hazardous Material Type A**	**Hazardous Material Type A**	**Hazardous Material Type A**	**Hazardous Material Type A**	**MCP Regulated Type B-1**	**Uncontaminated**	**Uncontaminated**	**MCP Regulated Material Type B-2**	**Hazardous Material Type A**	**Hazardous Material Type B**	**MCP Regulated Type A**	**Hazardous Material Type B**	**MCP Regulated Material Type B-2**
Styrene	mg/kg	<0.0027	<0.0028	<0.0047	<0.0039	<0.0041	<0.0039	<0.0037	<0.0034	<0.0038	<0.0031	<0.0043	<0.0041	<0.0049	<0.0030	<0.0038	<0.0032	<0.0026	<0.0033	<0.0045	<0.0054	<0.0035	<0.0028	<0.0020	<0.0030
tert-Butylbenzene	mg/kg	<0.0027	<0.0028	<0.0047	<0.0039	<0.0041	<0.0039	<0.0037	<0.0034	<0.0038	<0.0031	<0.0043	<0.0041	<0.0049	<0.0030	<0.0038	<0.0032	<0.0026	<0.0033	<0.0045	<0.0054	<0.0035	<0.0028	<0.0020	<0.0030
Tertiary-amyl methyl ether	mg/kg	<0.0027	<0.0028	<0.0047	<0.0039	<0.0041	<0.0039	<0.0037	<0.0034	<0.0038	<0.0031	<0.0043	<0.0041	<0.0049	<0.0030	<0.0038	<0.0032	<0.0026	<0.0033	<0.0045	<0.0054	<0.0035	<0.0028	<0.0020	<0.0030
Tetrachloroethene	mg/kg	<0.0027	<0.0028	<0.0047	<0.0039	<0.0041	<0.0039	<0.0037	<0.0034	<0.0038	<0.0031	<0.0043	<0.0041	<0.0049	<0.0030	<0.0038	<0.0032	<0.0026	<0.0033	<0.0045	<0.0054	<0.0035	<0.0028	<0.0020	<0.0030
Tetrahydrofuran	mg/kg	<0.0027	<0.0028	<0.0047	<0.0039	<0.0041	<0.0039	<0.0037	<0.0034	<0.0038	<0.0031	<0.0043	<0.0041	<0.0049	<0.0030	<0.0038	<0.0032	<0.0026	<0.0033	<0.0045	<0.0054	<0.0035	<0.0028	<0.0020	<0.0030
Toluene	mg/kg	<0.0027	<0.0028	<0.0047	<0.0039	<0.0041	<0.0039	<0.0037	<0.0034	<0.0038	<0.0031	<0.0043	<0.0041	<0.0049	<0.0030	<0.0038	<0.0032	<0.0026	<0.0033	<0.0045	<0.0054	<0.0035	<0.0028	<0.0020	<0.0030
trans-1,2-Dichloroethene	mg/kg	<0.0027	<0.0028	<0.0047	<0.0039	<0.0041	<0.0039	<0.0037	<0.0034	<0.0038	<0.0031	<0.0043	<0.0041	<0.0049	<0.0030	<0.0038	<0.0032	<0.0026	<0.0033	<0.0045	<0.0054	<0.0035	<0.0028	<0.0020	<0.0030
trans-1,3-Dichloropropene	mg/kg	<0.0027	<0.0028	<0.0047	<0.0039	<0.0041	<0.0039	<0.0037	<0.0034	<0.0038	<0.0031	<0.0043	<0.0041	<0.0049	<0.0030	<0.0038	<0.0032	<0.0026	<0.0033	<0.0045	<0.0054	<0.0035	<0.0028	<0.0020	<0.0030
Trichloroethene	mg/kg	<0.0027	<0.0028	<0.0047	<0.0039	<0.0041	<0.0039	<0.0037	<0.0034	<0.0038	<0.0031	<0.0043	<0.0041	<0.0049	<0.0030	<0.0038	<0.0032	<0.0026	<0.0033	<0.0045	<0.0054	<0.0035	<0.0028	<0.0020	<0.0030
Trichlorofluoromethane	mg/kg	<0.0027	<0.0028	<0.0047	<0.0039	<0.0041	<0.0039	<0.0037	<0.0034	<0.0038	<0.0031	<0.0043	<0.0041	<0.0049	<0.0030	<0.0038	<0.0032	<0.0026	<0.0033	<0.0045	<0.0054	<0.0035	<0.0028	<0.0020	<0.0030
Vinyl Chloride	mg/kg	<0.0053	<0.0055	<0.0093	<0.0079	<0.0082	<0.0078	<0.0074	<0.0068	<0.0075	<0.0062	<0.0085	<0.0081	<0.0098	<0.0061	<0.0076	<0.0065	<0.0052	<0.0066	<0.0089	<0.0109	<0.0070	<0.0057	<0.0041	<0.0061
Xylene O	mg/kg	<0.0027	<0.0028	<0.0047	<0.0039	<0.0041	<0.0039	<0.0037	<0.0034	<0.0038	<0.0031	<0.0043	<0.0041	<0.0049	<0.0030	<0.0038	<0.0032	<0.0026	<0.0033	<0.0045	<0.0054	<0.0035	<0.0028	<0.0020	<0.0030
Xylene P,M	mg/kg	<0.0053	<0.0055	<0.0093	<0.0079	<0.0082	<0.0078	<0.0074	<0.0068	<0.0075	<0.0062	<0.0085	<0.0081	<0.0098	<0.0061	<0.0076	<0.0065	<0.0052	<0.0066	<0.0089	<0.0109	<0.0070	<0.0057	<0.0041	<0.0061
Xylenes (Total)	mg/kg	<0.0053	<0.0055	<0.0093	<0.0079	<0.0082	<0.0078	<0.0074	<0.0068	<0.0075	<0.0062	<0.0085	<0.0081	<0.0098	<0.0061	<0.0076	<0.0065	<0.0052	<0.0066	<0.0089	<0.0109	<0.0070	<0.0057	<0.0041	<0.0061
Total VOCs (Low Level)	mg/kg	ND	ND	ND	ND	0.1862	ND	ND	0.0089	ND	0.0096	ND	0.0252	ND	0.0271	0.013	ND	ND	ND	ND	0.0521	ND	ND	0.0186	ND
Semi-Volatile Organic Compounds																									
1,2,4-Trichlorobenzene	mg/kg	<0.929	<0.989	<0.892	<3.58	<0.947	<0.965	<0.805	<0.909	<0.951	<0.836	<0.867	<0.884	<1.04	<0.981	<1.05	<1.06	<1.01	<1.04	<0.970	<0.907	<0.981	<0.805	<0.938	<0.913
1,2-Dichlorobenzene	mg/kg	<0.929	<0.989	<0.892	<3.58	<0.947	<0.965	<0.805	<0.909	<0.951	<0.836	<0.867	<0.884	<1.04	<0.981	<1.05	<1.06	<1.01	<1.04	<0.970	<0.907	<0.981	<0.805	<0.938	<0.913
1,3-Dichlorobenzene	mg/kg	<0.929	<0.989	<0.892	<3.58	<0.947	<0.965	<0.805	<0.909	<0.951	<0.836	<0.867	<0.884	<1.04	<0.981	<1.05	<1.06	<1.01	<1.04	<0.970	<0.907	<0.981	<0.805	<0.938	<0.913
1,4-Dichlorobenzene	mg/kg	<0.466	<0.496	<0.447	<1.79	<0.475	<0.484	<0.404	<0.456	<0.477	<0.419	<0.435	<0.443	<0.522	<0.492	<0.527	<0.530	<0.507	<0.524	<0.486	<0.455	<0.492	<0.404	<0.470	<0.458
2,4,5-Trichlorophenol	mg/kg	<0.929	<0.989	<0.892	<3.58	<0.947	<0.965	<0.805	<0.909	<0.951	<0.836	<0.867	<0.884	<1.04	<0.981	<1.05	<1.06	<1.01	<1.04	<0.970	<0.907	<0.981	<0.805	<0.938	<0.913
2,4,6-Trichlorophenol	mg/kg	<0.929	<0.989	<0.892	<3.58	<0.947	<0.965	<0.805	<0.909	<0.951	<0.836	<0.867	<0.884	<1.04	<0.981	<1.05	<1.06	<1.01	<1.04	<0.970	<0.907	<0.981	<0.805	<0.938	<0.913
2,4-Dichlorophenol	mg/kg	<0.929	<0.989	<0.892	<3.58	<0.947	<0.965	<0.805	<0.909	<0.951	<0.836	<0.867	<0.884	<1.04	<0.981	<1.05	<1.06	<1.01	<1.04	<0.970	<0.907	<0.981	<0.805	<0.938	<0.913
2,4-Dimethylphenol	mg/kg	<0.929	<0.989	<0.892	<3.58	<0.947	<0.965	<0.805	<0.909	<0.951	<0.836	<0.867	<0.884	<1.04	<0.981	<1.05	<1.06	<1.01	<1.04	<0.970	<0.907	<0.981	<0.805	<0.938	<0.913
2,4-Dinitrophenol	mg/kg	<4.66	<4.96	<4.47	<17.9	<4.75	<4.84	<4.04	<4.56	<4.77	<4.19	<4.35	<4.43	<5.22	<4.92	<5.27	<5.30	<5.07	<5.24	<4.86	<4.55	<4.92	<4.04	<4.70	<4.58
2,4-Dinitrotoluene	mg/kg	<0.929	<0.989	<0.892	<3.58	<0.947	<0.965	<0.805	<0.909	<0.951	<0.836	<0.867	<0.884	<1.04	<0.981	<1.05	<1.06	<1.01	<1.04	<0.970	<0.907	<0.981	<0.805	<0.938	<0.913
2,6-Dinitrotoluene	mg/kg	<0.929	<0.989	<0.892	<3.58	<0.947	<0.965	<0.805	<0.909	<0.951	<0.836	<0.867	<0.884	<1.04	<0.981	<1.05	<1.06	<1.01	<1.04	<0.970	<0.907	<0.981	<0.805	<0.938	<0.913
2-Chloronaphthalene	mg/kg	<0.929	<0.989	<0.892	<3.58	<0.947	<0.965	<0.805	<0.909	<0.951	<0.836	<0.867	<0.884	<1.04	<0.981	<1.05	<1.06	<1.01	<1.04	<0.970	<0.907	<0.981	<0.805	<0.938	<0.913
2-Chlorophenol	mg/kg	<0.929	<0.989	<0.892	<3.58	<0.947	<0.965	<0.805	<0.909	<0.951	<0.836	<0.867	<0.884	<1.04	<0.981	<1.05	<1.06	<1.01	<1.04	<0.970	<0.907	<0.981	<0.805	<0.938	<0.913
2-Methylnaphthalene	mg/kg	<0.929	<0.989	<0.892	<3.58	<0.947	<0.965	<0.805	<0.909	<0.951	<0.836	<0.867	<0.884	<1.04	<0.981	<1.05	<1.06	<1.01	<1.04	<0.970	<0.907	<0.981	<0.805	<0.938	<0.913
2-Methylphenol	mg/kg	<0.929	<0.989	<0.892	<3.58	<0.947	<0.965	<0.805	<0.909	<0.951	<0.836	<0.867	<0.884	<1.04	<0.981	<1.05	<1.06	<1.01	<1.04	<0.970	<0.907	<0.981	<0.805	<0.938	<0.913
2-Nitrophenol	mg/kg	<0.929	<0.989	<0.892	<3.58	<0.947	<0.965	<0.805	<0.909	<0.951	<0.836	<0.867	<0.884	<1.04	<0.981	<1.05	<1.06	<1.01	<1.04	<0.970	<0.907	<0.981	<0.805	<0.938	<0.913
3,3´-Dichlorobenzidine	mg/kg	<1.86	<1.98	<1.79	<7.16	<1.90	<1.93	<1.61	<1.82	<1.90	<1.67	<1.74	<1.77	<2.09	<1.96	<2.10	<2.12	<2.03	<2.09	<1.94	<1.82	<1.96	<1.61	<1.88	<1.83
3+4-Methylphenol	mg/kg	<1.86	<1.98	<1.79	<7.16	<1.90	<1.93	<1.61	<1.82	<1.90	<1.67	<1.74	<1.77	<2.09	<1.96	<2.10	<2.12	<2.03	<2.09	<1.94	<1.82	<1.96	<1.61	<1.88	<1.83
4-Bromophenyl-phenylether	mg/kg	<0.929	<0.989	<0.892	<3.58	<0.947	<0.965	<0.805	<0.909	<0.951	<0.836	<0.867	<0.884	<1.04	<0.981	<1.05	<1.06	<1.01	<1.04	<0.970	<0.907	<0.981	<0.805	<0.938	<0.913
4-Chloroaniline	mg/kg	<1.86	<1.98	<1.79	<7.16	<1.90	<1.93	<1.61	<1.82	<1.90	<1.67	<1.74	<1.77	<2.09	<1.96	<2.10	<2.12	<2.03	<2.09	<1.94	<1.82	<1.96	<1.61	<1.88	<1.83
4-Nitrophenol	mg/kg	<4.66	<4.96	<4.47	<17.9	<4.75	<4.84	<4.04	<4.56	<4.77	<4.19	<4.35	<4.43	<5.22	<4.92	<5.27	<5.30	<5.07	<5.24	<4.86	<4.55	<4.92	<4.04	<4.70	<4.58
Acenaphthene	mg/kg	<0.929	<0.989	<0.892	<3.58	<0.947	<0.965	<0.805	<0.909	<0.951	<0.836	<0.867	<0.884	<1.04	<0.981	<1.05	<1.06	<1.01	<1.04	<0.970	<0.907	<0.981	<0.805	<0.938	<0.913
Acenaphthylene	mg/kg	<0.929	<0.989	<0.892	<3.58	<0.947	<0.965	<0.805	<0.909	<0.951	<0.836	<0.867	<0.884	<1.04	<0.981	<1.05	<1.06	<1.01	<1.04	<0.970	<0.907	<0.981	<0.805	<0.938	<0.913
Acetophenone	mg/kg	<1.86	<1.98	<1.79	<7.16	<1.90	<1.93	<1.61	<1.82	<1.90	<1.67	<1.74	<1.77	<2.09	<1.96	<2.10	<2.12	<2.03	<2.09	<1.94	<1.82	<1.96	<1.61	<1.88	<1.83
Aniline	mg/kg	<4.66	<4.96	<4.47	<17.9	<4.75	<4.84	<4.04	<4.56	<4.77	<4.19	<4.35	<4.43	<5.22	<4.92	<5.27	<5.30	<5.07	<5.24	<4.86	<4.55	<4.92	<4.04	<4.70	<4.58
Anthracene	mg/kg	<0.929	<0.989	1.07	<3.58	<0.947	<0.965	<0.805	<0.909	<0.951	<0.836	<0.867	<0.884	<1.04	<0.981	<1.05	<1.06	<1.01	<1.04	<0.970	<0.907	<0.981	<0.805	<0.938	<0.913
Azobenzene	mg/kg	<0.929	<0.989	<0.892	<3.58	<0.947	<0.965	<0.805	<0.909	<0.951	<0.836	<0.867	<0.884	<1.04	<0.981	<1.05	<1.06	<1.01	<1.04	<0.970	<0.907	<0.981	<0.805	<0.938	<0.913
Benzo(a)anthracene	mg/kg	<0.929	<0.989	3.28	<3.58	<0.947	<0.965	<0.805	<0.909	<0.951	<0.836	<0.867	<0.884	<1.04	<0.981	<1.05	<1.06	<1.01	<1.04	<0.970	1.34	1.26	<0.805	<0.938	<0.913
Benzo(a)pyrene	mg/kg	<0.466	<0.496	2.58	<1.79	<0.475	<0.484	<0.404	<0.456	<0.477	<0.419	0.598	0.767	0.662	<0.492	<0.527	<0.530	<0.507	<0.524	<0.486	1.23	1.13	<0.404	<0.470	<0.458
Benzo(b)fluoranthene	mg/kg	<0.929	<0.989	3.55	3.68	<0.947	<0.965	<0.805	<0.909	<0.951	<0.836	<0.867	1.15	<1.04	<0.981	<1.05	<1.06	<1.01	<1.04	<0.970	1.54	1.89	<0.805	<0.938	<0.913
Benzo(g,h,i)perylene	mg/kg	<0.929	<0.989	<0.892	<3.58	<0.947	<0.965	<0.805	<0.909	<0.951	<0.836	<0.867	<0.884	<1.04	<0.981	<1.05	<1.06	<1.01	<1.04	<0.970	<0.907	<0.981	<0.805	<0.938	<0.913
Benzo(k)fluoranthene	mg/kg	<0.929	<0.989	1.45	<3.58	<0.947	<0.965	<0.805	<0.909	<0.951	<0.836	<0.867	<0.884	<1.04	<0.981	<1.05	<1.06	<1.01	<1.04	<0.970	<0.907	<0.981	<0.805	<0.938	<0.913
bis(2-Chloroethoxy)methane	mg/kg	<0.929	<0.989	<0.892	<3.58	<0.947	<0.965	<0.805	<0.909	<0.951	<0.836	<0.867	<0.884	<1.04	<0.981	<1.05	<1.06	<1.01	<1.04	<0.970	<0.907	<0.981	<0.805	<0.938	<0.913
bis(2-Chloroethyl)ether	mg/kg	<0.466	<0.496	<0.447	<1.79	<0.475	<0.484	<0.404	<0.456	<0.477	<0.419	<0.435	<0.443	<0.522	<0.492	<0.527	<0.530	<0.507	<0.524	<0.486	<0.455	<0.492	<0.404	<0.470	<0.458
bis(2-chloroisopropyl)Ether	mg/kg	<0.466	<0.496	<0.447	<1.79	<0.475	<0.484	<0.404	<0.456	<0.477	<0.419	<0.435	<0.443	<0.522	<0.492	<0.527	<0.530	<0.507	<0.524	<0.486	<0.455	<0.492	<0.404	<0.470	<0.458
bis(2-Ethylhexyl)phthalate	mg/kg	<0.929	<0.989	<0.892	4.06	<0.947	<0.965	<0.805	<0.909	<0.951	<0.836	<0.867	<0.884	<1.04	<0.981	<1.05	<1.06	<1.01	<1.04	<0.970	1.2	1.93	<0.805	<0.938	<0.913
Butylbenzylphthalate	mg/kg	<0.929	<0.989	<0.892	<3.58	<0.947	<0.965	<0.805	<0.909	<0.951	<0.836	1.54	<0.884	<1.04	<0.981	<1.05	<1.06	<1.01	<1.04	<0.970	<0.907	<0.981	<0.805	<0.938	<0.913
Chrysene	mg/kg	<0.466	<0.496	2.9	2.34	<0.475	<0.484	<0.404	<0.456	<0.477	<0.419	0.624	0.884	0.905	<0.492	<0.527	<0.530	<0.507	<0.524	<0.486	1.27	1.27	<0.404	<0.470	<0.458
Dibenzo(a,h)Anthracene	mg/kg	<0.466	<0.496	0.512	<1.79	<0.475	<0.484	<0.404	<0.456	<0.477	<0.419	<0.435	<0.443	<0.522	<0.492	<0.527	<0.530	<0.507	<0.524	<0.486	<0.455	<0.492	<0.404	<0.470	<0.458
Dibenzofuran	mg/kg	<0.929	<0.989	<0.892	<3.58	<0.947	<0.965	<0.805	<0.909	<0.951	<0.836	<0.867	<0.884	<1.04	<0.981	<1.05	<1.06	<1.01	<1.04	<0.970	<0.907	<0.981	<0.805	<0.938	<0.913
Diethylphthalate	mg/kg	<0.929	<0.989	<0.892	<3.58	<0.947	<0.965	<0.805	<0.909	<0.951	<0.836	<0.867	<0.884	<1.04	<0.981	<1.05	<1.06	<1.01	<1.04	<0.970	<0.907	<0.981	<0.805	<0.938	<0.913
Dimethylphthalate	mg/kg	<0.929	<0.989	<0.892	<3.58	<0.947	<0.965	<0.805	<0.909	<0.951	<0.836	<0.867	<0.884	<1.04	<0.981	<1.05	<1.06	<1.01	<1.04	<0.970	<0.907	<0.981	<0.805	<0.938	<0.913
Di-n-butylphthalate	mg/kg	<0.929	<0.989	<0.892	<3.58	<0.947	<0.965	<0.805	<0.909	<0.951	<0.836	<0.867	<0.884	<1.04	<0.981	<1.05	<1.06	<1.01	<1.04	<0.970	<0.907	<0.981	<0.805	<0.938	<0.913
Di-n-octylphthalate	mg/kg	<0.929	<0.989	<0.892	<3.58	<0.947	<0.965	<0.805	<0.909	<0.951	<0.836	<0.867	<0.884	<1.04	<0.981	<1.05	<1.06	<1.01	<1.04	<0.970	<0.907	<0.981	<0.805	<0.938	<0.913
Fluoranthene	mg/kg	<0.929	<0.989	8.07	5.01	<0.947	<0.965	<0.805	<0.909	<0.951	<0.836	1.21	1.63	1.89	<0.981	<1.05	<1.06	<1.01	<1.04	<0.970	2.96	2.16	<0.805	<0.938	<0.913
Fluorene	mg/kg	<0.929	<0.989	<0.892	<3.58	<0.947	<0.965	<0.805	<0.909	<0.951	<0.836	<0.867	<0.884	<1.04	<0.981	<1.05	<1.06	<1.01	<1.04	<0.970	<0.907	<0.981	<0.805	<0.938	<0.913
Hexachlorobenzene	mg/kg	<0.466	<0.496	<0.447	<1.79	<0.475	<0.484	<0.404	<0.456	<0.477	<0.419	<0.435	<0.443	<0.522	<0.492	<0.527	<0.530	<0.507	<0.524	<0.486	<0.455	<0.492	<0.404	<0.470	<0.458
Hexachlorobutadiene	mg/kg	<0.929	<0.989	<0.892	<3.58	<0.947	<0.965	<0.805	<0.909	<0.951	<0.836	<0.867	<0.884	<1.04	<0.981	<1.05	<1.06	<1.01	<1.04	<0.970	<0.907	<0.981	<0.805	<0.938	<0.913
Hexachloroethane	mg/kg	<0.929	<0.989	<0.892	<3.58	<0.947	<0.965	<0.805	<0.909	<0.951	<0.836	<0.867	<0.884	<1.04	<0.981	<1.05	<1.06	<1.01	<1.04	<0.970	<0.907	<0.981	<0.805	<0.938	<0.913
Indeno(1,2,3-cd)Pyrene	mg/kg	<0.929	<0.989	0.974	<3.58	<0.947	<0.965	<0.805	<0.909	<0.951	<0.836	<0.867	<0.884	<1.04	<0.981	<1.05	<1.06	<1.01	<1.04	<0.970	<0.907	<0.981	<0.805	<0.938	<0.913
Isophorone	mg/kg	<0.929	<0.989	<0.892	<3.58	<0.947	<0.965	<0.805	<0.909	<0.951	<0.836	<0.867	<0.884	<1.04	<0.981	<1.05	<1.06	<1.01	<1.04	<0.970	<0.907	<0.981	<0.805	<0.938	<0.913
Naphthalene	mg/kg	<0.929	<0.989	<0.892	<3.58	<0.947	<0.965	<0.805	<0.909	<0.951	<0.836	<0.867	<0.884	<1.04	<0.981	<1.05	<1.06	<1.01	<1.04	<0.970	<0.907	<0.981	<0.805	<0.938	<0.913
Nitrobenzene	mg/kg	<0.929	<0.989	<0.892	<3.58	<0.947	<0.965	<0.805	<0.909	<0.951	<0.836	<0.867	<0.884	<1.04	<0.981	<1.05	<1.06	<1.01	<1.04	<0.970	<0.907	<0.981	<0.805	<0.938	<0.913
N-Nitrosodimethylamine	mg/kg	<0.929	<0.989	<0.892	<3.58	<0.947	<0.965	<0.805	<0.909	<0.951	<0.836	<0.867	<0.884	<1.04	<0.981	<1.05	<1.06	<1.01	<1.04	<0.970	<0.907	<0.981	<0.805	<0.938	<0.913
Pentachlorophenol	mg/kg	<4.66	<4.96	<4.47	<17.9	<4.75	<4.84	<4.04	<4.56	<4.77	<4.19	<4.35	<4.43	<5.22	<4.92	<5.27	<5.30	<5.07	<5.24	<4.86	<4.55	<4.92	<4.04	<4.70	<4.58
Phenanthrene	mg/kg	<0.929	<0.989	4.02	<3.58	<0.947	<0.965	<0.805	<0.909	<0.951	<0.836	<0.867	1.03	1.54	<0.981	<1.05	<1.06	<1.01	<1.04	<0.970	2.64	1.93	<0.805	<0.938	<0.913
Phenol	mg/kg	<0.929	<0.989	<0.892	<3.58	<0.947	<0.965	<0.805	<0.909	<0.951	<0.836	<0.867	<0.884	<1.04	<0.981	<1.05	<1.06	<1.01	<1.04	<0.970	<0.907	<0.981	<0.805	<0.938	<0.913
Pyrene	mg/kg	<0.929	<0.989	4.47	<3.58	<0.947	<0.965	<0.805	<0.909	<0.951	<0.836	1.1	1.38	1.65	<0.981	<1.05	<1.06	<1.01	<1.04	<0.970	2.28	1.48	<0.805	<0.938	<0.913
Total SVOCs	mg/kg	ND	ND	32.876	15.09	ND	ND	ND	ND	ND	ND	5.072	6.841	6.647	ND	ND	ND	ND	ND	ND	14.46	13.05	ND	ND	ND
Classic Chemistry																									
Corrosivity (pH)	S.U.	5.05	4.95	6.66	9.92	4.32	6.76	6.73	5.46	5.01	5	9.7	9.02	7.86	7.31	4.86	7.02	5.44	5.65	6.64	9.31	7.68	8.38	9.84	6.91
Conductivity	umhos/cm	218	1030	16	1630	890	85	333	1470	766	799	432	680	457	474	2630	4790	931	581	271	1050	1470	271	415	543
Flashpoint	°F	--	--	>200	>200	--	--	--	--	--	--	>200	>200	>200	>200	--	--	--	--	--	>200	>200	>200	>200	>200
Reactive Cyanide	mg/kg	--	--	<2.0	<2.0	--	--	--	--	--	--	<2.0	<2.0	<2.0	<2.0	--	--	--	--	--	<2.0	<2.0	<2.0	<2.0	<2.0
Reactive Sulfide	mg/kg	--	--	<2.0	<2.0	--	--	--	--	--	--	<2.0	<2.0	<2.0	<2.0	--	--	--	--	--	<2.0	<2.0	<2.0	<2.0	<2.0

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	B15 GZ001S11S13 1411363 Natural Sand/Gravel 24 - 36 11/17/2014	B15 GZ001S14S15 1411363 Natural Sand/Gravel 39 - 45 11/17/2014	B16 B16S01S02A 1501196 Fill 0 - 3.3 1/12/2015	B16 B16S02B04A 1501196 Fill 3.3 - 6.6 1/12/2015	B16 B16S04B 1501230 Fill 6.6 - 8 1/13/2015	B16 B16S05 1501230 Natural Sand/Gravel 8 - 10 1/13/2015	B16 B16S06 1501230 Natural Sand/Gravel 14 - 16 1/13/2015	B16 B16S07 1501230 Natural Organics 19 - 21 1/13/2015	B16 B16S08 1501230 Natural Sand/Gravel 24 - 26 1/13/2015	B16 B16S09 1501230 Natural Sand/Gravel 29 - 31 1/13/2015	B16 B16S10S11 1501230 Natural Sand/Gravel 34 - 38 1/13/2015	B17 B17S01S02A 1502051 Fill 0 - 3.3 2/4/2015	B17 B17S02B04A 1502051 Fill 3.3 - 6.6 2/4/2015	B17 B17S04BS05 1502051 Fill 6.6 - 10 2/4/2015	B17 B17S06 1502080 Natural Organics 10 - 12 2/5/2015	B17 B17S07 1502080 Natural Organics 12 - 14 2/5/2015	B17 B17S09 1502051 Natural Sand/Gravel 19 - 21 2/4/2015	B17 B17S10 1502080 Natural Clay 24 - 26 2/5/2015	B17 B17S11 1502080 Natural Sand/Gravel 29 - 31 2/5/2015	B17 B17S12S13 1502080 Natural Sand/Gravel 34 - 38 2/5/2015	B18 B18S01S02A 1501167 Fill 0 - 3.3 1/9/2015	B18 B18S02B04A 1501196 Fill 3.3 - 6.6 1/12/2015	B18 B18S04BS05 1501196 Fill 6.6 - 10 1/12/2015	B18 B18S06S07A 1501196 Fill 10 - 13.3 1/12/2015
Preliminary Disposal Facility Category		MCP Regulated Material Type B-2	MCP Restricted	MCP Regulated Type A	Hazardous Material Type B	Hazardous Material Type B	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type B	MCP Regulated Type A	Uncontaminated	Uncontaminated	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Material Type B-2	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Uncontaminated	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A
RCRA 8 Metals	**Units**																									
Arsenic	mg/kg	<2.30	4.87	<12.1	63.4	40.4	<9.76	213	1030	<11.7	<9.60	<8.83	13.7	7.4	18.1	462	159	28.9	21.2	17.4	11.5	48.6	15.9	<13.1	16.2
Barium	mg/kg	11.3	19.1	27.3	253	223	54.7	103	184	81.3	<9.60	17.2	31.1	59	82.1	27.2	49.8	40.9	9.79	11.8	<7.18	179	72.1	29.1	30.2
Cadmium	mg/kg	<0.46	<0.49	<2.42	<2.80	<1.64	<1.95	2.97	17.5	<2.34	<1.92	<1.77	<1.27	<1.43	<1.31	5.56	<2.01	<1.55	<1.43	<1.64	<1.44	<2.25	<2.72	<2.62	<2.30
Chromium	mg/kg	16.6	1.8	17.8	7.8	<3.27	<3.91	<5.21	95	10.1	<3.84	<3.53	20	11	6.72	<3.50	40.4	<3.10	5.6	<3.29	<2.87	17.9	14.8	<5.24	<4.60
Lead	mg/kg	135	151	57.5	2400	3460	99.4	113	3580	263	20.6	44.9	118	488	849	289	221	68.5	<14.3	20.4	<14.4	1430	434	192	257
Selenium	mg/kg	<4.59	<4.94	<19.4	<11.2	<6.55	<15.6	<10.4	126	<18.7	<15.4	<14.1	<6.36	<7.17	<6.55	<17.5	<10.1	<15.5	<14.3	<16.4	<14.4	<18.0	<10.9	<10.5	<18.4
Silver	mg/kg	<0.46	<0.49	<2.42	13.2	17.5	<1.95	<2.60	<2.65	<2.34	<1.92	<1.77	<1.27	<1.43	<1.31	<1.75	<2.01	<1.55	<1.43	<1.64	<1.44	3.96	<2.72	<2.62	<2.30
Mercury	mg/kg	<0.034	<0.037	0.038	1.85	0.096	<0.041	1.44	23	0.799	0.04	0.171	0.14	2.18	0.187	0.124	5.54	0.103	<0.037	<0.041	0.164	16.3	3.85	1.69	0.218
Metals by Toxicity Characteristic Leaching Procedure (TCLP)																										
Arsenic	mg/L	--	--	--	--	--	--	0.059	4.5	--	--	--	--	--	--	0.877	0.639	--	--	--	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead	mg/L	5.1	0.834	--	8.17	46	--	0.133	12	1.04	--	--	0.48	1.31	8.95	0.692	0.365	--	--	--	--	2.85	<0.050	0.54	<0.050
Selenium	mg/L	--	--	--	--	--	--	--	<0.300	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--	--	--	<0.00050	--	--	--	--	--	--	--	<0.00050	--	--	--	--	<0.00050	--	--	--
Herbicides																										
2,4,5-T	mg/kg	<0.059	<0.058	0.06	<0.064	<0.059	--	--	--	--	--	--	<0.046	<0.046	<0.048	--	<0.055	--	<0.051	--	--	<0.056	<0.28	<0.056	<0.055
2,4-D	mg/kg	<0.059	<0.058	0.15	<0.064	<0.059	--	--	--	--	--	--	<0.23	<0.23	<0.24	--	<0.27	--	<0.26	--	--	<0.056	<0.28	<0.056	<0.055
2,4-DB	mg/kg	<0.059	<0.058	<0.055	<0.064	<0.059	--	--	--	--	--	--	<0.017	<0.017	<0.018	--	<0.021	--	<0.019	--	--	<0.056	<0.28	<0.056	<0.055
Dalapon	mg/kg	<0.71	<0.70	<0.66	<0.78	<0.71	--	--	--	--	--	--	<1.4	<1.4	<1.5	--	<1.6	--	<1.5	--	--	<0.67	<3.4	<0.68	<0.66
Dicamba	mg/kg	<0.059	<0.058	<0.055	<0.064	<0.059	--	--	--	--	--	--	<0.069	<0.068	<0.073	--	<0.082	--	<0.077	--	--	<0.056	<0.28	<0.056	<0.055
Dichlorprop	mg/kg	<0.059	<0.058	<0.055	<0.064	<0.059	--	--	--	--	--	--	<0.15	<0.15	<0.16	--	<0.18	--	<0.17	--	--	<0.056	<0.28	<0.056	<0.055
Dinoseb	mg/kg	<0.36	<0.35	<0.33	<0.39	<0.35	--	--	--	--	--	--	<0.23	<0.23	<0.24	--	<0.27	--	<0.26	--	--	<0.34	<1.7	<0.34	<0.33
MCPA	mg/kg	<14	<14	<13	<16	<14	--	--	--	--	--	--	<57	<57	<61	--	<69	--	<64	--	--	<13	<67	<14	<13
MCPP	mg/kg	<14	<14	<13	<16	<14	--	--	--	--	--	--	<57	<57	<61	--	<69	--	<64	--	--	<13	<67	<14	<13
Silvex (2,4,5-TP)	mg/kg	<0.059	<0.058	<0.055	<0.064	<0.059	--	--	--	--	--	--	<0.046	<0.046	<0.048	--	<0.055	--	<0.051	--	--	<0.056	<0.28	<0.056	<0.055
Pesticides																										
4,4'-DDD	mg/kg	<0.0021	<0.0021	<0.0095	<0.011	<0.0043	--	--	--	--	--	--	<0.0038	<0.0038	<0.0020	--	<0.0023	--	<0.0021	--	--	<0.0097	<0.0097	<0.0097	<0.0041
4,4'-DDE	mg/kg	<0.0021	<0.0021	<0.0095	<0.011	<0.0043	--	--	--	--	--	--	<0.0038	<0.0038	<0.0020	--	<0.0023	--	<0.0021	--	--	<0.0097	<0.0097	<0.0097	<0.0041
4,4'-DDT	mg/kg	<0.0021	<0.0021	<0.0095	<0.011	<0.0043	--	--	--	--	--	--	<0.0038	<0.0038	<0.0020	--	<0.0023	--	<0.0021	--	--	<0.0097	<0.0097	<0.0097	<0.0041
Aldrin	mg/kg	<0.0021	<0.0021	<0.0095	<0.011	<0.0043	--	--	--	--	--	--	<0.0038	<0.0038	<0.0020	--	<0.0023	--	<0.0021	--	--	<0.0097	<0.0097	<0.0097	<0.0041
alpha-BHC	mg/kg	<0.0021	<0.0021	<0.0095	<0.011	<0.0043	--	--	--	--	--	--	<0.0038	<0.0038	<0.0020	--	<0.0023	--	<0.0021	--	--	<0.0097	<0.0097	<0.0097	<0.0041
beta-BHC	mg/kg	<0.0021	<0.0021	<0.0095	<0.011	<0.0043	--	--	--	--	--	--	<0.0038	<0.0038	<0.0020	--	<0.0023	--	<0.0021	--	--	<0.0097	<0.0097	<0.0097	<0.0041
Chlordane (technical)	mg/kg	<0.021	<0.021	<0.095	<0.11	<0.043	--	--	--	--	--	--	<0.038	<0.038	<0.020	--	<0.023	--	<0.021	--	--	<0.097	<0.097	<0.097	<0.041
delta-BHC	mg/kg	<0.0021	<0.0021	<0.0095	<0.011	<0.0043	--	--	--	--	--	--	<0.0038	<0.0038	<0.0020	--	<0.0023	--	<0.0021	--	--	<0.0097	<0.0097	<0.0097	<0.0041
Dieldrin	mg/kg	<0.0021	<0.0021	<0.0095	<0.011	<0.0043	--	--	--	--	--	--	<0.0038	<0.0038	<0.0020	--	<0.0023	--	<0.0021	--	--	<0.0097	<0.0097	<0.0097	<0.0041
Endosulfan I	mg/kg	<0.0021	<0.0021	<0.0095	<0.011	<0.0043	--	--	--	--	--	--	<0.0038	<0.0038	<0.0020	--	<0.0023	--	<0.0021	--	--	<0.0097	<0.0097	<0.0097	<0.0041
Endosulfan II	mg/kg	<0.0021	<0.0021	<0.0095	<0.011	<0.0043	--	--	--	--	--	--	<0.0038	<0.0038	<0.0020	--	<0.0023	--	<0.0021	--	--	<0.0097	<0.0097	<0.0097	<0.0041
Endosulfan sulfate	mg/kg	<0.0021	<0.0021	<0.0095	<0.011	<0.0043	--	--	--	--	--	--	<0.0038	<0.0038	<0.0020	--	<0.0023	--	<0.0021	--	--	<0.0097	<0.0097	<0.0097	<0.0041
Endrin	mg/kg	<0.0021	<0.0021	<0.0095	<0.011	<0.0043	--	--	--	--	--	--	<0.0038	<0.0038	<0.0020	--	<0.0023	--	<0.0021	--	--	<0.0097	<0.0097	<0.0097	<0.0041
Endrin ketone	mg/kg	<0.0021	<0.0021	<0.0095	<0.011	<0.0043	--	--	--	--	--	--	<0.0038	<0.0038	<0.0020	--	<0.0023	--	<0.0021	--	--	<0.0097	<0.0097	<0.0097	<0.0041
gamma-BHC (Lindane)	mg/kg	<0.0021	<0.0021	<0.0095	<0.011	<0.0043	--	--	--	--	--	--	<0.0038	<0.0038	<0.0020	--	<0.0023	--	<0.0021	--	--	<0.0097	<0.0097	<0.0097	<0.0041
Heptachlor	mg/kg	<0.0021	<0.0021	<0.0095	<0.011	<0.0043	--	--	--	--	--	--	<0.0038	<0.0038	<0.0020	--	<0.0023	--	<0.0021	--	--	<0.0097	<0.0097	<0.0097	<0.0041
Heptachlor epoxide	mg/kg	<0.0021	<0.0021	<0.0095	<0.011	<0.0043	--	--	--	--	--	--	<0.0038	<0.0038	<0.0020	--	<0.0023	--	<0.0021	--	--	<0.0097	<0.0097	<0.0097	<0.0041
Hexachlorobenzene	mg/kg	<0.0021	<0.0021	<0.0095	<0.011	<0.0043	--	--	--	--	--	--	<0.0038	<0.0038	<0.0020	--	<0.0023	--	<0.0021	--	--	<0.0097	<0.0097	<0.0097	<0.0041
Methoxychlor	mg/kg	<0.0021	<0.0021	<0.0095	<0.011	<0.0043	--	--	--	--	--	--	<0.0038	<0.0038	<0.0020	--	<0.0023	--	<0.0021	--	--	<0.0097	<0.0097	<0.0097	<0.0041
Polychlorinated Biphenyls																										
Aroclor 1016	mg/kg	<0.241	<0.233	<0.129	<0.151	<0.133	<0.152	<0.184	<0.192	<0.157	<0.140	<0.126	<0.141	<0.135	<0.155	<0.175	<0.189	<0.154	<0.161	<0.160	<0.151	<0.139	<0.139	<0.135	<0.141
Aroclor 1221	mg/kg	<0.241	<0.233	<0.129	<0.151	<0.133	<0.152	<0.184	<0.192	<0.157	<0.140	<0.126	<0.141	<0.135	<0.155	<0.175	<0.189	<0.154	<0.161	<0.160	<0.151	<0.139	<0.139	<0.135	<0.141
Aroclor 1232	mg/kg	<0.241	<0.233	<0.129	<0.151	<0.133	<0.152	<0.184	<0.192	<0.157	<0.140	<0.126	<0.141	<0.135	<0.155	<0.175	<0.189	<0.154	<0.161	<0.160	<0.151	<0.139	<0.139	<0.135	<0.141
Aroclor 1242	mg/kg	<0.241	<0.233	<0.129	<0.151	<0.133	<0.152	<0.184	<0.192	<0.157	<0.140	<0.126	<0.141	<0.135	<0.155	<0.175	<0.189	<0.154	<0.161	<0.160	<0.151	<0.139	<0.139	<0.135	<0.141
Aroclor 1248	mg/kg	<0.241	<0.233	<0.129	<0.151	<0.133	<0.152	<0.184	<0.192	<0.157	<0.140	<0.126	<0.141	<0.135	<0.155	<0.175	<0.189	<0.154	<0.161	<0.160	<0.151	<0.139	<0.139	<0.135	<0.141
Aroclor 1254	mg/kg	<0.241	<0.233	<0.129	<0.151	<0.133	<0.152	<0.184	<0.192	<0.157	<0.140	<0.126	<0.141	<0.135	0.625	<0.175	<0.189	<0.154	<0.161	<0.160	<0.151	4.29	1.74	0.973	<0.141
Aroclor 1260	mg/kg	<0.241	<0.233	<0.129	1.45	<0.133	<0.152	<0.184	<0.192	<0.157	<0.140	<0.126	0.188	<0.135	0.484	<0.175	<0.189	<0.154	<0.161	<0.160	<0.151	1.42	0.781	<0.135	<0.141
Aroclor 1262	mg/kg	<0.241	<0.233	<0.129	<0.151	<0.133	<0.152	<0.184	<0.192	<0.157	<0.140	<0.126	<0.141	5.67	<0.155	<0.175	<0.189	<0.154	<0.161	<0.160	<0.151	<0.139	<0.139	<0.135	<0.141
Aroclor 1268	mg/kg	<0.241	<0.233	<0.129	<0.151	<0.133	<0.152	<0.184	<0.192	<0.157	<0.140	<0.126	<0.141	<0.135	<0.155	<0.175	<0.189	<0.154	<0.161	<0.160	<0.151	<0.139	<0.139	<0.135	<0.141
Total PCBs	mg/kg	ND	ND	ND	1.45	ND	ND	ND	ND	ND	ND	ND	0.188	5.67	1.109	ND	ND	ND	ND	ND	ND	5.71	2.521	0.973	ND
Total Petroleum Hydrocarbons	mg/kg	<49.2	<44.0	45.1	882	<39.9	<52.7	226	1690	651	<45.1	<39.8	199	229	223	97.9	199	<42.4	<44.3	<50.1	<47.2	776	279	259	<44.4
Volatile Organic Compounds (VOCs)																										
1,1,1,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-Chloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane - Screen	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Butanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Isopropyltoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-Pentanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Disulfide	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	B15 GZ001S11S13 1411363 Natural Sand/Gravel 24 - 36 11/17/2014	B15 GZ001S14S15 1411363 Natural Sand/Gravel 39 - 45 11/17/2014	B16 B16S01S02A 1501196 Fill 0 - 3.3 1/12/2015	B16 B16S02BS04A 1501196 Fill 3.3 - 6.6 1/12/2015	B16 B16S04B 1501230 Fill 6.6 - 8 1/13/2015	B16 B16S05 1501230 Natural Sand/Gravel 8 - 10 1/13/2015	B16 B16S06 1501230 Natural Sand/Gravel 14 - 16 1/13/2015	B16 B16S07 1501230 Natural Organics 19 - 21 1/13/2015	B16 B16S08 1501230 Natural Sand/Gravel 24 - 26 1/13/2015	B16 B16S09 1501230 Natural Sand/Gravel 29 - 31 1/13/2015	B16 B16S10S11 1501230 Natural Sand/Gravel 34 - 38 1/13/2015	B17 B17S01S02A 1502051 Fill 0 - 3.3 2/4/2015	B17 B17S02BS04A 1502051 Fill 3.3 - 6.6 2/4/2015	B17 B17S04BS05 1502051 Fill 6.6 - 10 2/4/2015	B17 B17S06 1502080 Natural Organics 10 - 12 2/5/2015	B17 B17S07 1502080 Natural Organics 12 - 14 2/5/2015	B17 B17S09 1502051 Natural Sand/Gravel 19 - 21 2/4/2015	B17 B17S10 1502080 Natural Clay 24 - 26 2/5/2015	B17 B17S11 1502080 Natural Sand/Gravel 29 - 31 2/5/2015	B17 B17S12S13 1502080 Natural Sand/Gravel 34 - 38 2/5/2015	B18 B18S01S02A 1501167 Fill 0 - 3.3 1/9/2015	B18 B18S02BS04A 1501196 Fill 3.3 - 6.6 1/12/2015	B18 B18S04BS05 1501196 Fill 6.6 - 10 1/12/2015	B18 B18S06S07A 1501196 Fill 10 - 13.3 1/12/2015
Preliminary Disposal Facility Category		**MCP Regulated Material Type B-2**	**MCP Restricted**	**MCP Regulated Type A**	**Hazardous Material Type B**	**Hazardous Material Type B**	**MCP Regulated Type A**	**Hazardous Material Type A**	**Hazardous Material Type B**	**MCP Regulated Type A**	**Uncontaminated**	**Uncontaminated**	**MCP Regulated Type A**	**Hazardous Material Type A**	**MCP Regulated Material Type B-2**	**Hazardous Material Type A**	**Hazardous Material Type A**	**MCP Regulated Type A**	**MCP Regulated Type A**	**MCP Regulated Type A**	**Uncontaminated**	**Hazardous Material Type A**	**Hazardous Material Type A**	**MCP Regulated Type A**	**MCP Regulated Type A**
Chlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Diethyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Di-isopropyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethyl tertiary-butyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
tert-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tertiary-amyl methyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene O	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene P,M	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylenes (Total)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total VOCs	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds - Low Level Analysis																									
1,1,1,2-Tetrachloroethane	mg/kg	<0.0048	<0.0036	<0.0046	<0.0051	--	<0.0045	<0.0061	<0.0060	<0.0055	<0.0039	<0.0043	<0.0048	<0.0041	<0.0035	<0.0047	<0.0051	<0.0040	<0.0034	<0.0043	<0.0040	<0.0047	<0.0044	<0.0038	<0.0036
1,1,1-Trichloroethane	mg/kg	<0.0048	<0.0036	<0.0046	<0.0051	--	<0.0045	<0.0061	<0.0060	<0.0055	<0.0039	<0.0043	<0.0048	<0.0041	<0.0035	<0.0047	<0.0051	<0.0040	<0.0034	<0.0043	<0.0040	<0.0047	<0.0044	<0.0038	<0.0036
1,1,2,2-Tetrachloroethane	mg/kg	<0.0019	<0.0015	<0.0018	<0.0020	--	<0.0018	<0.0024	<0.0024	<0.0022	<0.0016	<0.0017	<0.0019	<0.0016	<0.0014	<0.0019	<0.0020	<0.0016	<0.0014	<0.0017	<0.0016	<0.0019	<0.0018	<0.0015	<0.0014
1,1,2-Trichloroethane	mg/kg	<0.0048	<0.0036	<0.0046	<0.0051	--	<0.0045	<0.0061	<0.0060	<0.0055	<0.0039	<0.0043	<0.0048	<0.0041	<0.0035	<0.0047	<0.0051	<0.0040	<0.0034	<0.0043	<0.0040	<0.0047	<0.0044	<0.0038	<0.0036
1,1-Dichloroethane	mg/kg	<0.0048	<0.0036	<0.0046	<0.0051	--	<0.0045	<0.0061	<0.0060	<0.0055	<0.0039	<0.0043	<0.0048	<0.0041	<0.0035	<0.0047	<0.0051	<0.0040	<0.0034	<0.0043	<0.0040	<0.0047	<0.0044	<0.0038	<0.0036
1,1-Dichloroethene	mg/kg	<0.0048	<0.0036	<0.0046	<0.0051	--	<0.0045	<0.0061	<0.0060	<0.0055	<0.0039	<0.0043	<0.0048	<0.0041	<0.0035	<0.0047	<0.0051	<0.0040	<0.0034	<0.0043	<0.0040	<0.0047	<0.0044	<0.0038	<0.0036
1,1-Dichloropropene	mg/kg	<0.0048	<0.0036	<0.0046	<0.0051	--	<0.0045	<0.0061	<0.0060	<0.0055	<0.0039	<0.0043	<0.0048	<0.0041	<0.0035	<0.0047	<0.0051	<0.0040	<0.0034	<0.0043	<0.0040	<0.0047	<0.0044	<0.0038	<0.0036
1,2,3-Trichlorobenzene	mg/kg	<0.0048	<0.0036	<0.0046	<0.0051	--	<0.0045	<0.0061	<0.0060	<0.0055	<0.0039	<0.0043	<0.0048	<0.0041	<0.0035	<0.0047	<0.0051	<0.0040	<0.0034	<0.0043	<0.0040	<0.0047	<0.0044	<0.0038	<0.0036
1,2,3-Trichloropropane	mg/kg	<0.0048	<0.0036	<0.0046	<0.0051	--	<0.0045	<0.0061	<0.0060	<0.0055	<0.0039	<0.0043	<0.0048	<0.0041	<0.0035	<0.0047	<0.0051	<0.0040	<0.0034	<0.0043	<0.0040	<0.0047	<0.0044	<0.0038	<0.0036
1,2,4-Trichlorobenzene	mg/kg	<0.0048	<0.0036	<0.0046	<0.0051	--	<0.0045	<0.0061	<0.0060	<0.0055	<0.0039	<0.0043	<0.0048	<0.0041	<0.0035	<0.0047	<0.0051	<0.0040	<0.0034	<0.0043	<0.0040	<0.0047	<0.0044	<0.0038	<0.0036
1,2,4-Trimethylbenzene	mg/kg	<0.0048	<0.0036	<0.0046	<0.0051	--	<0.0045	<0.0061	<0.0060	0.0089	<0.0039	<0.0043	<0.0048	<0.0041	<0.0035	<0.0047	<0.0051	<0.0040	<0.0034	<0.0043	<0.0040	<0.0047	<0.0044	<0.0038	<0.0036
1,2-Dibromo-3-Chloropropane	mg/kg	<0.0048	<0.0036	<0.0046	<0.0051	--	<0.0045	<0.0061	<0.0060	<0.0055	<0.0039	<0.0043	<0.0048	<0.0041	<0.0035	<0.0047	<0.0051	<0.0040	<0.0034	<0.0043	<0.0040	<0.0047	<0.0044	<0.0038	<0.0036
1,2-Dibromoethane	mg/kg	<0.0048	<0.0036	<0.0046	<0.0051	--	<0.0045	<0.0061	<0.0060	<0.0055	<0.0039	<0.0043	<0.0048	<0.0041	<0.0035	<0.0047	<0.0051	<0.0040	<0.0034	<0.0043	<0.0040	<0.0047	<0.0044	<0.0038	<0.0036
1,2-Dichlorobenzene	mg/kg	<0.0048	<0.0036	<0.0046	<0.0051	--	<0.0045	<0.0061	<0.0060	<0.0055	<0.0039	<0.0043	<0.0048	<0.0041	<0.0035	<0.0047	<0.0051	<0.0040	<0.0034	<0.0043	<0.0040	<0.0047	<0.0044	<0.0038	<0.0036
1,2-Dichloroethane	mg/kg	<0.0048	<0.0036	<0.0046	<0.0051	--	<0.0045	<0.0061	<0.0060	<0.0055	<0.0039	<0.0043	<0.0048	<0.0041	<0.0035	<0.0047	<0.0051	<0.0040	<0.0034	<0.0043	<0.0040	<0.0047	<0.0044	<0.0038	<0.0036
1,2-Dichloropropane	mg/kg	<0.0048	<0.0036	<0.0046	<0.0051	--	<0.0045	<0.0061	<0.0060	<0.0055	<0.0039	<0.0043	<0.0048	<0.0041	<0.0035	<0.0047	<0.0051	<0.0040	<0.0034	<0.0043	<0.0040	<0.0047	<0.0044	<0.0038	<0.0036
1,3,5-Trimethylbenzene	mg/kg	<0.0048	<0.0036	<0.0046	<0.0051	--	<0.0045	<0.0061	<0.0060	<0.0055	<0.0039	<0.0043	<0.0048	<0.0041	<0.0035	<0.0047	<0.0051	<0.0040	<0.0034	<0.0043	<0.0040	<0.0047	<0.0044	<0.0038	<0.0036
1,3-Dichlorobenzene	mg/kg	<0.0048	<0.0036	<0.0046	<0.0051	--	<0.0045	<0.0061	<0.0060	<0.0055	<0.0039	<0.0043	<0.0048	<0.0041	<0.0035	<0.0047	<0.0051	<0.0040	<0.0034	<0.0043	<0.0040	<0.0047	<0.0044	<0.0038	<0.0036
1,3-Dichloropropane	mg/kg	<0.0048	<0.0036	<0.0046	<0.0051	--	<0.0045	<0.0061	<0.0060	<0.0055	<0.0039	<0.0043	<0.0048	<0.0041	<0.0035	<0.0047	<0.0051	<0.0040	<0.0034	<0.0043	<0.0040	<0.0047	<0.0044	<0.0038	<0.0036
1,4-Dichlorobenzene	mg/kg	<0.0048	<0.0036	<0.0046	<0.0051	--	<0.0045	<0.0061	<0.0060	<0.0055	<0.0039	<0.0043	<0.0048	<0.0041	<0.0035	<0.0047	<0.0051	<0.0040	<0.0034	<0.0043	<0.0040	<0.0047	<0.0044	<0.0038	<0.0036
1,4-Dioxane	mg/kg	<0.0962	<0.0728	<0.0912	<0.102	--	<0.0900	<0.121	<0.121	<0.111	<0.0780	<0.0864	<0.0959	<0.0823	<0.0702	<0.0938	<0.102	<0.0810	<0.0685	<0.0854	<0.0790	<0.0949	<0.0879	<0.0765	<0.0724
2,2-Dichloropropane	mg/kg	<0.0048	<0.0036	<0.0046	<0.0051	--	<0.0045	<0.0061	<0.0060	<0.0055	<0.0039	<0.0043	<0.0048	<0.0041	<0.0035	<0.0047	<0.0051	<0.0040	<0.0034	<0.0043	<0.0040	<0.0047	<0.0044	<0.0038	<0.0036
2-Butanone	mg/kg	<0.0096	<0.0073	<0.0091	0.015	--	<0.0090	<0.0121	0.0368	<0.0111	<0.0078	<0.0086	<0.0096	<0.0082	<0.0070	<0.0094	0.0118	<0.0081	<0.0069	<0.0085	<0.0079	<0.0095	<0.0088	<0.0076	<0.0072
2-Chlorotoluene	mg/kg	<0.0048	<0.0036	<0.0046	<0.0051	--	<0.0045	<0.0061	<0.0060	<0.0055	<0.0039	<0.0043	<0.0048	<0.0041	<0.0035	<0.0047	<0.0051	<0.0040	<0.0034	<0.0043	<0.0040	<0.0047	<0.0044	<0.0038	<0.0036
2-Hexanone	mg/kg	<0.0096	<0.0073	<0.0091	<0.0102	--	<0.0090	<0.0121	<0.0121	<0.0111	<0.0078	<0.0086	<0.0096	<0.0082	<0.0070	<0.0094	<0.0102	<0.0081	<0.0069	<0.0085	<0.0079	<0.0095	<0.0088	<0.0076	<0.0072
4-Chlorotoluene	mg/kg	<0.0048	<0.0036	<0.0046	<0.0051	--	<0.0045	<0.0061	<0.0060	<0.0055	<0.0039	<0.0043	<0.0048	<0.0041	<0.0035	<0.0047	<0.0051	<0.0040	<0.0034	<0.0043	<0.0040	<0.0047	<0.0044	<0.0038	<0.0036
4-Isopropyltoluene	mg/kg	<0.0048	<0.0036	<0.0046	<0.0051	--	<0.0045	<0.0061	<0.0060	0.0077	<0.0039	<0.0043	<0.0048	<0.0041	<0.0035	<0.0047	<0.0051	<0.0040	<0.0034	<0.0043	<0.0040	<0.0047	<0.0044	<0.0038	<0.0036
4-Methyl-2-Pentanone	mg/kg	<0.0096	<0.0073	<0.0091	<0.0102	--	<0.0090	<0.0121	<0.0121	<0.0111	<0.0078	<0.0086	<0.0096	<0.0082	<0.0070	<0.0094	<0.0102	<0.0081	<0.0069	<0.0085	<0.0079	<0.0095	<0.0088	<0.0076	<0.0072
Acetone	mg/kg	<0.0096	<0.0073	<0.0091	0.146	--	0.0166	0.128	0.402	0.0532	<0.0078	<0.0086	<0.0096	0.0418	0.011	0.0152	0.0839	0.0221	0.0176	<0.0085	<0.0079	<0.0095	0.125	<0.0076	<0.0072
Benzene	mg/kg	<0.0048	<0.0036	<0.0046	<0.0051	--	<0.0045	<0.0061	<0.0060	<0.0055	<0.0039	<0.0043	<0.0048	<0.0041	<0.0035	<0.0047	<0.0051	<0.0040	<0.0034	<0.0043	<0.0040	<0.0047	<0.0044	<0.0038	<0.0036
Bromobenzene	mg/kg	<0.0048	<0.0036	<0.0046	<0.0051	--	<0.0045	<0.0061	<0.0060	<0.0055	<0.0039	<0.0043	<0.0048	<0.0041	<0.0035	<0.0047	<0.0051	<0.0040	<0.0034	<0.0043	<0.0040	<0.0047	<0.0044	<0.0038	<0.0036
Bromochloromethane	mg/kg	<0.0048	<0.0036	<0.0046	<0.0051	--	<0.0045	<0.0061	<0.0060	<0.0055	<0.0039	<0.0043	<0.0048	<0.0041	<0.0035	<0.0047	<0.0051	<0.0040	<0.0034	<0.0043	<0.0040	<0.0047	<0.0044	<0.0038	<0.0036
Bromodichloromethane	mg/kg	<0.0048	<0.0036	<0.0046	<0.0051	--	<0.0045	<0.0061	<0.0060	<0.0055	<0.0039	<0.0043	<0.0048	<0.0041	<0.0035	<0.0047	<0.0051	<0.0040	<0.0034	<0.0043	<0.0040	<0.0047	<0.0044	<0.0038	<0.0036
Bromoform	mg/kg	<0.0048	<0.0036	<0.0046	<0.0051	--	<0.0045	<0.0061	<0.0060	<0.0055	<0.0039	<0.0043	<0.0048	<0.0041	<0.0035	<0.0047	<0.0051	<0.0040	<0.0034	<0.0043	<0.0040	<0.0047	<0.0044	<0.0038	<0.0036
Bromomethane	mg/kg	<0.0096	<0.0073	<0.0091	<0.0102	--	<0.0090	<0.0121	<0.0121	<0.0111	<0.0078	<0.0086	<0.0096	<0.0082	<0.0070	<0.0094	<0.0102	<0.0081	<0.0069	<0.0085	<0.0079	<0.0095	<0.0088	<0.0076	<0.0072
Carbon Disulfide	mg/kg	<0.0048	<0.0036	<0.0046	<0.0051	--	<0.0045	0.147	0.0947	0.0407	<0.0039	<0.0043	<0.0048	<0.0041	<0.0035	0.0208	0.13	<0.0040	0.0041	0.0045	<0.0040	<0.0047	<0.0044	<0.0038	<0.0036
Carbon Tetrachloride	mg/kg	<0.0048	<0.0036	<0.0046	<0.0051	--	<0.0045	<0.0061	<0.0060	<0.0055	<0.0039	<0.0043	<0.0048	<0.0041	<0.0035	<0.0047	<0.0051	<0.0040	<0.0034	<0.0043	<0.0040	<0.0047	<0.0044	<0.0038	<0.0036
Chlorobenzene	mg/kg	<0.0048	<0.0036	<0.0046	<0.0051	--	<0.0045	<0.0061	<0.0060	<0.0055	<0.0039	<0.0043	<0.0048	<0.0041	<0.0035	<0.0047	<0.0051	<0.0040	<0.0034	<0.0043	<0.0040	<0.0047	<0.0044	<0.0038	<0.0036
Chloroethane	mg/kg	<0.0096	<0.0073	<0.0091	<0.0102	--	<0.0090	<0.0121	<0.0121	<0.0111	<0.0078	<0.0086	<0.0096	<0.0082	<0.0070	<0.0094	<0.0102	<0.0081	<0.0069	<0.0085	<0.0079	<0.0095	<0.0088	<0.0076	<0.0072
Chloroform	mg/kg	<0.0048	<0.0036	<0.0046	<0.0051	--	<0.0045	<0.0061	<0.0060	<0.0055	<0.0039	<0.0043	<0.0048	<0.0041	<0.0035	<0.0047	<0.0051	<0.0040	<0.0034	<0.0043	<0.0040	<0.0047	<0.0044	<0.0038	<0.0036
Chloromethane	mg/kg	<0.0096	<0.0073	<0.0091	<0.0102	--	<0.0090	<0.0121	<0.0121	<0.0111	<0.0078	<0.0086	<0.0096	<0.0082	<0.0070	<0.0094	<0.0102	<0.0081	<0.0069	<0.0085	<0.0079	<0.0095	<0.0088	<0.0076	<0.0072
cis-1,2-Dichloroethene	mg/kg	<0.0048	<0.0036	<0.0046	<0.0051	--	<0.0045	<0.0061	<0.0060	<0.0055	<0.0039	<0.0043	<0.0048	<0.0041	<0.0035	<0.0047	<0.0051	<0.0040	<0.0034	<0.0043	<0.0040	<0.0047	<0.0044	<0.0038	<0.0036
cis-1,3-Dichloropropene	mg/kg	<0.0048	<0.0036	<0.0046	<0.0051	--	<0.0045	<0.0061	<0.0060	<0.0055	<0.0039	<0.0043	<0.0048	<0.0041	<0.0035	<0.0047	<0.0051	<0.0040	<0.0034	<0.0043	<0.0040	<0.0047	<0.0044	<0.0038	<0.0036
Dibromochloromethane	mg/kg	<0.0019	<0.0015	<0.0018	<0.0020	--	<0.0018	<0.0024	<0.0024	<0.0022	<0.0016	<0.0017	<0.0019	<0.0016	<0.0014	<0.0019	<0.0020	<0.0016	<0.0014	<0.0017	<0.0016	<0.0019	<0.0018	<0.0015	<0.0014
Dibromomethane	mg/kg	<0.0048	<0.0036	<0.0046	<0.0051	--	<0.0045	<0.0061	<0.0060	<0.0055	<0.0039	<0.0043	<0.0048	<0.0041	<0.0035	<0.0047	<0.0051	<0.0040	<0.0034	<0.0043	<0.0040	<0.0047	<0.0044	<0.0038	<0.0036
Dichlorodifluoromethane	mg/kg	<0.0096	<0.0073	<0.0091	<0.0102	--	<0.0090	<0.0121	<0.0121	<0.0111	<0.0078	<0.0086	<0.0096	<0.0082	<0.0070	<0.0094	<0.0102	<0.0081	<0.0069	<0.0085	<0.0079	<0.0095	<0.0088	<0.0076	<0.0072
Diethyl Ether	mg/kg	<0.0048	<0.0036	<0.0046	<0.0051	--	<0.0045	<0.0061	<0.0060	<0.0055	<0.0039	<0.0043	<0.0048	<0.0041	<0.0035	<0.0047	<0.0051	<0.0040	<0.0034	<0.0043	<0.0040	<0.0047	<0.0044	<0.0038	<0.0036
Di-isopropyl ether	mg/kg	<0.0048	<0.0036	<0.0046	<0.0051	--	<0.0045	<0.0061	<0.0060	<0.0055	<0.0039	<0.0043	<0.0048	<0.0041	<0.0035	<0.0047	<0.0051	<0.0040	<0.0034	<0.0043	<0.0040	<0.0047	<0.0044	<0.0038	<0.0036
Ethyl tertiary-butyl ether	mg/kg	<0.0048	<0.0036	<0.0046	<0.0051	--	<0.0045	<0.0061	<0.0060	<0.0055	<0.0039	<0.0043	<0.0048	<0.0041	<0.0035	<0.0047	<0.0051	<0.0040	<0.0034	<0.0043	<0.0040	<0.0047	<0.0044	<0.0038	<0.0036
Ethylbenzene	mg/kg	<0.0048	<0.0036	<0.0046	<0.0051	--	<0.0045	<0.0061	<0.0060	<0.0055	<0.0039	<0.0043	<0.0048	<0.0041	0.006	<0.0047	<0.0051	<0.0040	<0.0034	<0.0043	<0.0040	<0.0047	<0.0044	<0.0038	<0.0036
Hexachlorobutadiene	mg/kg	<0.0048	<0.0036	<0.0046	<0.0051	--	<0.0045	<0.0061	<0.0060	<0.0055	<0.0039	<0.0043	<0.0048	<0.0041	<0.0035	<0.0047	<0.0051	<0.0040	<0.0034	<0.0043	<0.0040	<0.0047	<0.0044	<0.0038	<0.0036
Isopropylbenzene	mg/kg	<0.0048	<0.0036	<0.0046	<0.0051	--	<0.0045	<0.0061	<0.0060	<0.0055	<0.0039	<0.0043	<0.0048	<0.0041	<0.0035	<0.0047	<0.0051	<0.0040	<0.0034	<0.0043	<0.0040	<0.0047	<0.0044	<0.0038	<0.0036
Methyl tert-Butyl Ether	mg/kg	<0.0048	<0.0036	<0.0046	<0.0051	--	<0.0045	<0.0061	<0.0060	<0.0055	<0.0039	<0.0043	<0.0048	<0.0041	<0.0035	<0.0047	<0.0051	<0.0040	<0.0034	<0.0043	<0.0040	<0.0047	<0.0044	<0.0038	<0.0036
Methylene Chloride	mg/kg	<0.0096	<0.0073	<0.0091	<0.0102	--	<0.0090	<0.0121	<0.0121	<0.0111	<0.0078	<0.0086	<0.0096	<0.0082	<0.0070	<0.0094	<0.0102	<0.0081	<0.0069	<0.0085	<0.0079	<0.0095	<0.0088	<0.0076	<0.0072
Naphthalene	mg/kg	<0.0048	<0.0036	<0.0046	<0.0051	--	<0.0045	0.0129	0.109	0.0867	<0.0039	<0.0043	<0.0048	<0.0041	0.0046	<0.0047	0.0069	<0.0040	0.02	<0.0043	<0.0040	<0.0047	<0.0044	0.0234	<0.0036
n-Butylbenzene	mg/kg	<0.0048	<0.0036	<0.0046	<0.0051	--	<0.0045	<0.0061	<0.0060	<0.0055	<0.0039	<0.0043	<0.0048	<0.0041	<0.0035	<0.0047	<0.0051	<0.0040	<0.0034	<0.0043	<0.0040	<0.0047	<0.0044	<0.0038	<0.0036
n-Propylbenzene	mg/kg	<0.0048	<0.0036	<0.0046	<0.0051	--	<0.0045	<0.0061	<0.0060	<0.0055	<0.0039	<0.0043	<0.0048	<0.0041	<0.0035	<0.0047	<0.0051	<0.0040	<0.0034	<0.0043	<0.0040	<0.0047	<0.0044	<0.0038	<0.0036
sec-Butylbenzene	mg/kg	<0.0048	<0.0036	<0.0046	<0.0051	--	<0.0045	<0.0061	<0.0060	<0.0055	<0.0039	<0.0043	<0.0048	<0.0041	<0.0035	<0.0047	<0.0051	<0.0040	<0.0034	<0.0043	<0.0040	<0.0047	<0.0044	<0.0038	<0.0036

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	B15 GZ001S11S13 1411363 Natural Sand/Gravel 24 - 36 11/17/2014	B15 GZ001S14S15 1411363 Natural Sand/Gravel 39 - 45 11/17/2014	B16 B16S01S02A 1501196 Fill 0 - 3.3 1/12/2015	B16 B16S02BS04A 1501196 Fill 3.3 - 6.6 1/12/2015	B16 B16S04B 1501230 Fill 6.6 - 8 1/13/2015	B16 B16S05 1501230 Natural Sand/Gravel 8 - 10 1/13/2015	B16 B16S06 1501230 Natural Sand/Gravel 14 - 16 1/13/2015	B16 B16S07 1501230 Natural Organics 19 - 21 1/13/2015	B16 B16S08 1501230 Natural Sand/Gravel 24 - 26 1/13/2015	B16 B16S09 1501230 Natural Sand/Gravel 29 - 31 1/13/2015	B16 B16S10S11 1501230 Natural Sand/Gravel 34 - 38 1/13/2015	B17 B17S01S02A 1502051 Fill 0 - 3.3 2/4/2015	B17 B17S02BS04A 1502051 Fill 3.3 - 6.6 2/4/2015	B17 B17S04BS05 1502051 Fill 6.6 - 10 2/4/2015	B17 B17S06 1502080 Natural Organics 10 - 12 2/5/2015	B17 B17S07 1502080 Natural Organics 12 - 14 2/5/2015	B17 B17S09 1502051 Natural Sand/Gravel 19 - 21 2/4/2015	B17 B17S10 1502080 Natural Clay 24 - 26 2/5/2015	B17 B17S11 1502080 Natural Sand/Gravel 29 - 31 2/5/2015	B17 B17S12S13 1502080 Natural Sand/Gravel 34 - 38 2/5/2015	B18 B18S01S02A 1501167 Fill 0 - 3.3 1/9/2015	B18 B18S02BS04A 1501196 Fill 3.3 - 6.6 1/12/2015	B18 B18S04BS05 1501196 Fill 6.6 - 10 1/12/2015	B18 B18S06S07A 1501196 Fill 10 - 13.3 1/12/2015
Preliminary Disposal Facility Category		MCP Regulated Material Type B-2	MCP Restricted	MCP Regulated Type A	Hazardous Material Type B	Hazardous Material Type B	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type B	MCP Regulated Type A	Uncontaminated	Uncontaminated	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Material Type B-2	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Uncontaminated	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A
Styrene	mg/kg	<0.0048	<0.0036	<0.0046	<0.0051	--	<0.0045	<0.0061	<0.0060	<0.0055	<0.0039	<0.0043	<0.0048	<0.0041	<0.0035	<0.0047	<0.0051	<0.0040	<0.0034	<0.0043	<0.0040	<0.0047	<0.0044	<0.0038	<0.0036
tert-Butylbenzene	mg/kg	<0.0048	<0.0036	<0.0046	<0.0051	--	<0.0045	<0.0061	<0.0060	<0.0055	<0.0039	<0.0043	<0.0048	<0.0041	<0.0035	<0.0047	<0.0051	<0.0040	<0.0034	<0.0043	<0.0040	<0.0047	<0.0044	<0.0038	<0.0036
Tertiary-amyl methyl ether	mg/kg	<0.0048	<0.0036	<0.0046	<0.0051	--	<0.0045	<0.0061	<0.0060	<0.0055	<0.0039	<0.0043	<0.0048	<0.0041	<0.0035	<0.0047	<0.0051	<0.0040	<0.0034	<0.0043	<0.0040	<0.0047	<0.0044	<0.0038	<0.0036
Tetrachloroethene	mg/kg	<0.0048	<0.0036	<0.0046	<0.0051	--	<0.0045	<0.0061	<0.0060	<0.0055	<0.0039	<0.0043	<0.0048	<0.0041	<0.0035	<0.0047	<0.0051	<0.0040	<0.0034	<0.0043	<0.0040	<0.0047	<0.0044	<0.0038	<0.0036
Tetrahydrofuran	mg/kg	<0.0048	<0.0036	<0.0046	<0.0051	--	<0.0045	<0.0061	<0.0060	<0.0055	<0.0039	<0.0043	<0.0048	<0.0041	<0.0035	<0.0047	<0.0051	<0.0040	<0.0034	<0.0043	<0.0040	<0.0047	<0.0044	<0.0038	<0.0036
Toluene	mg/kg	<0.0048	<0.0036	<0.0046	<0.0051	--	<0.0045	<0.0061	<0.0060	<0.0055	<0.0039	<0.0043	<0.0048	<0.0041	<0.0035	<0.0047	<0.0051	<0.0040	<0.0034	<0.0043	<0.0040	<0.0047	<0.0044	<0.0038	<0.0036
trans-1,2-Dichloroethene	mg/kg	<0.0048	<0.0036	<0.0046	<0.0051	--	<0.0045	<0.0061	<0.0060	<0.0055	<0.0039	<0.0043	<0.0048	<0.0041	<0.0035	<0.0047	<0.0051	<0.0040	<0.0034	<0.0043	<0.0040	<0.0047	<0.0044	<0.0038	<0.0036
trans-1,3-Dichloropropene	mg/kg	<0.0048	<0.0036	<0.0046	<0.0051	--	<0.0045	<0.0061	<0.0060	<0.0055	<0.0039	<0.0043	<0.0048	<0.0041	<0.0035	<0.0047	<0.0051	<0.0040	<0.0034	<0.0043	<0.0040	<0.0047	<0.0044	<0.0038	<0.0036
Trichloroethene	mg/kg	<0.0048	<0.0036	<0.0046	<0.0051	--	<0.0045	<0.0061	<0.0060	<0.0055	<0.0039	<0.0043	<0.0048	<0.0041	<0.0035	<0.0047	<0.0051	<0.0040	<0.0034	<0.0043	<0.0040	<0.0047	<0.0044	<0.0038	<0.0036
Trichlorofluoromethane	mg/kg	<0.0048	<0.0036	<0.0046	<0.0051	--	<0.0045	<0.0061	<0.0060	<0.0055	<0.0039	<0.0043	<0.0048	<0.0041	<0.0035	<0.0047	<0.0051	<0.0040	<0.0034	<0.0043	<0.0040	<0.0047	<0.0044	<0.0038	<0.0036
Vinyl Chloride	mg/kg	<0.0096	<0.0073	<0.0091	<0.0102	--	<0.0090	<0.0121	<0.0121	<0.0111	<0.0078	<0.0086	<0.0096	<0.0082	<0.0070	<0.0094	<0.0102	<0.0081	<0.0069	<0.0085	<0.0079	<0.0095	<0.0088	<0.0076	<0.0072
Xylene O	mg/kg	<0.0048	<0.0036	<0.0046	<0.0051	--	<0.0045	<0.0061	<0.0060	<0.0055	<0.0039	<0.0043	<0.0048	<0.0041	<0.0035	<0.0047	<0.0051	<0.0040	<0.0034	<0.0043	<0.0040	<0.0047	<0.0044	<0.0038	<0.0036
Xylene P,M	mg/kg	<0.0096	<0.0073	<0.0091	<0.0102	--	<0.0090	<0.0121	<0.0121	<0.0111	<0.0078	<0.0086	<0.0096	<0.0082	<0.0070	<0.0094	<0.0102	<0.0081	<0.0069	<0.0085	<0.0079	<0.0095	<0.0088	<0.0076	<0.0072
Xylenes (Total)	mg/kg	<0.0096	<0.0073	<0.0091	<0.0102	--	<0.0090	<0.0121	<0.0121	<0.0111	<0.0078	<0.0086	<0.0096	<0.0082	<0.0070	<0.0094	<0.0102	<0.0081	<0.0069	<0.0085	<0.0079	<0.0095	<0.0088	<0.0076	<0.0072
Total VOCs (Low Level)	mg/kg	ND	ND	ND	0.161	--	0.0166	0.2879	0.6425	0.1972	ND	ND	ND	0.0418	0.0216	0.036	0.2326	0.0221	0.0417	0.0045	ND	ND	0.125	0.0276	ND
Semi-Volatile Organic Compounds																									
1,2,4-Trichlorobenzene	mg/kg	<0.992	<0.954	<0.819	<0.982	<0.928	<1.03	<1.21	<1.20	<1.05	<0.998	<0.826	<0.953	<0.881	<1.06	<1.15	<1.28	<1.02	<1.00	<1.05	<0.928	<0.940	<0.946	<0.919	<0.940
1,2-Dichlorobenzene	mg/kg	<0.992	<0.954	<0.819	<0.982	<0.928	<1.03	<1.21	<1.20	<1.05	<0.998	<0.826	<0.953	<0.881	<1.06	<1.15	<1.28	<1.02	<1.00	<1.05	<0.928	<0.940	<0.946	<0.919	<0.940
1,3-Dichlorobenzene	mg/kg	<0.992	<0.954	<0.819	<0.982	<0.928	<1.03	<1.21	<1.20	<1.05	<0.998	<0.826	<0.953	<0.881	<1.06	<1.15	<1.28	<1.02	<1.00	<1.05	<0.928	<0.940	<0.946	<0.919	<0.940
1,4-Dichlorobenzene	mg/kg	<0.497	<0.479	<0.411	<0.493	<0.465	<0.516	<0.606	<0.604	<0.528	<0.501	<0.414	<0.478	<0.442	<0.533	<0.577	<0.643	<0.510	<0.503	<0.525	<0.466	<0.471	<0.474	<0.461	<0.472
2,4,5-Trichlorophenol	mg/kg	<0.992	<0.954	<0.819	<0.982	<0.928	<1.03	<1.21	<1.20	<1.05	<0.998	<0.826	<0.953	<0.881	<1.06	<1.15	<1.28	<1.02	<1.00	<1.05	<0.928	<0.940	<0.946	<0.919	<0.940
2,4,6-Trichlorophenol	mg/kg	<0.992	<0.954	<0.819	<0.982	<0.928	<1.03	<1.21	<1.20	<1.05	<0.998	<0.826	<0.953	<0.881	<1.06	<1.15	<1.28	<1.02	<1.00	<1.05	<0.928	<0.940	<0.946	<0.919	<0.940
2,4-Dichlorophenol	mg/kg	<0.992	<0.954	<0.819	<0.982	<0.928	<1.03	<1.21	<1.20	<1.05	<0.998	<0.826	<0.953	<0.881	<1.06	<1.15	<1.28	<1.02	<1.00	<1.05	<0.928	<0.940	<0.946	<0.919	<0.940
2,4-Dimethylphenol	mg/kg	<0.992	<0.954	<0.819	<0.982	<0.928	<1.03	<1.21	<1.20	<1.05	<0.998	<0.826	<0.953	<0.881	<1.06	<1.15	<1.28	<1.02	<1.00	<1.05	<0.928	<0.940	<0.946	<0.919	<0.940
2,4-Dinitrophenol	mg/kg	<4.97	<4.79	<4.11	<4.93	<4.65	<5.16	<6.06	<6.04	<5.28	<5.01	<4.14	<4.78	<4.42	<5.33	<5.77	<6.43	<5.10	<5.03	<5.25	<4.66	<4.71	<4.74	<4.61	<4.72
2,4-Dinitrotoluene	mg/kg	<0.992	<0.954	<0.819	<0.982	<0.928	<1.03	<1.21	<1.20	<1.05	<0.998	<0.826	<0.953	<0.881	<1.06	<1.15	<1.28	<1.02	<1.00	<1.05	<0.928	<0.940	<0.946	<0.919	<0.940
2,6-Dinitrotoluene	mg/kg	<0.992	<0.954	<0.819	<0.982	<0.928	<1.03	<1.21	<1.20	<1.05	<0.998	<0.826	<0.953	<0.881	<1.06	<1.15	<1.28	<1.02	<1.00	<1.05	<0.928	<0.940	<0.946	<0.919	<0.940
2-Chloronaphthalene	mg/kg	<0.992	<0.954	<0.819	<0.982	<0.928	<1.03	<1.21	<1.20	<1.05	<0.998	<0.826	<0.953	<0.881	<1.06	<1.15	<1.28	<1.02	<1.00	<1.05	<0.928	<0.940	<0.946	<0.919	<0.940
2-Chlorophenol	mg/kg	<0.992	<0.954	<0.819	<0.982	<0.928	<1.03	<1.21	<1.20	<1.05	<0.998	<0.826	<0.953	<0.881	<1.06	<1.15	<1.28	<1.02	<1.00	<1.05	<0.928	<0.940	<0.946	<0.919	<0.940
2-Methylnaphthalene	mg/kg	<0.992	<0.954	<0.819	<0.982	<0.928	<1.03	<1.21	<1.20	1.56	<0.998	<0.826	<0.953	<0.881	<1.06	<1.15	<1.28	<1.02	<1.00	<1.05	<0.928	<0.940	<0.946	<0.919	<0.940
2-Methylphenol	mg/kg	<0.992	<0.954	<0.819	<0.982	<0.928	<1.03	<1.21	<1.20	<1.05	<0.998	<0.826	<0.953	<0.881	<1.06	<1.15	<1.28	<1.02	<1.00	<1.05	<0.928	<0.940	<0.946	<0.919	<0.940
2-Nitrophenol	mg/kg	<0.992	<0.954	<0.819	<0.982	<0.928	<1.03	<1.21	<1.20	<1.05	<0.998	<0.826	<0.953	<0.881	<1.06	<1.15	<1.28	<1.02	<1.00	<1.05	<0.928	<0.940	<0.946	<0.919	<0.940
3,3'-Dichlorobenzidine	mg/kg	<1.99	<1.91	<1.64	<1.97	<1.86	<2.06	<2.42	<2.41	<2.11	<2.00	<1.65	<1.91	<1.77	<2.13	<2.30	<2.57	<2.04	<2.01	<2.10	<1.86	<1.88	<1.89	<1.84	<1.88
3+4-Methylphenol	mg/kg	<1.99	<1.91	<1.64	<1.97	<1.86	<2.06	<2.42	<2.41	<2.11	<2.00	<1.65	<1.91	<1.77	<2.13	<2.30	<2.57	<2.04	<2.01	<2.10	<1.86	<1.88	<1.89	<1.84	<1.88
4-Bromophenyl-phenylether	mg/kg	<0.992	<0.954	<0.819	<0.982	<0.928	<1.03	<1.21	<1.20	<1.05	<0.998	<0.826	<0.953	<0.881	<1.06	<1.15	<1.28	<1.02	<1.00	<1.05	<0.928	<0.940	<0.946	<0.919	<0.940
4-Chloroaniline	mg/kg	<1.99	<1.91	<1.64	<1.97	<1.86	<2.06	<2.42	<2.41	<2.11	<2.00	<1.65	<1.91	<1.77	<2.13	<2.30	<2.57	<2.04	<2.01	<2.10	<1.86	<1.88	<1.89	<1.84	<1.88
4-Nitrophenol	mg/kg	<4.97	<4.79	<4.11	<4.93	<4.65	<5.16	<6.06	<6.04	<5.28	<5.01	<4.14	<4.78	<4.42	<5.33	<5.77	<6.43	<5.10	<5.03	<5.25	<4.66	<4.71	<4.74	<4.61	<4.72
Acenaphthene	mg/kg	<0.992	<0.954	<0.819	<0.982	<0.928	<1.03	<1.21	<1.20	<1.05	<0.998	<0.826	<0.953	<0.881	<1.06	<1.15	<1.28	<1.02	<1.00	<1.05	<0.928	<0.940	<0.946	<0.919	<0.940
Acenaphthylene	mg/kg	<0.992	<0.954	<0.819	<0.982	<0.928	<1.03	<1.21	<1.20	<1.05	<0.998	<0.826	<0.953	<0.881	<1.06	<1.15	<1.28	<1.02	<1.00	<1.05	<0.928	<0.940	<0.946	<0.919	<0.940
Acetophenone	mg/kg	<1.99	<1.91	<1.64	<1.97	<1.86	<2.06	<2.42	<2.41	<2.11	<2.00	<1.65	<1.91	<1.77	<2.13	<2.30	<2.57	<2.04	<2.01	<2.10	<1.86	<1.88	<1.89	<1.84	<1.88
Aniline	mg/kg	<4.97	<4.79	<4.11	<4.93	<4.65	<5.16	<6.06	<6.04	<5.28	<5.01	<4.14	<4.78	<4.42	<5.33	<5.77	<6.43	<5.10	<5.03	<5.25	<4.66	<4.71	<4.74	<4.61	<4.72
Anthracene	mg/kg	<0.992	<0.954	<0.819	<0.982	<0.928	<1.03	<1.21	2.14	2.24	<0.998	<0.826	<0.953	<0.881	<1.06	<1.15	<1.28	<1.02	<1.00	<1.05	<0.928	0.981	<0.946	1.23	<0.940
Azobenzene	mg/kg	<0.992	<0.954	<0.819	<0.982	<0.928	<1.03	<1.21	<1.20	<1.05	<0.998	<0.826	<0.953	<0.881	<1.06	<1.15	<1.28	<1.02	<1.00	<1.05	<0.928	<0.940	<0.946	<0.919	<0.940
Benzo(a)anthracene	mg/kg	<0.992	<0.954	<0.819	<0.982	<0.928	<1.03	<1.21	5.22	6.21	<0.998	<0.826	1.04	<0.881	<1.06	<1.15	<1.28	<1.02	<1.00	<1.05	<0.928	2.38	1.04	2.78	<0.940
Benzo(a)pyrene	mg/kg	<0.497	<0.479	0.415	<0.493	<0.465	<0.516	<0.606	4	3.38	<0.501	<0.414	0.98	0.658	<0.533	<0.577	<0.643	<0.510	<0.503	<0.525	<0.466	1.89	0.965	2.49	<0.472
Benzo(b)fluoranthene	mg/kg	<0.992	<0.954	<0.819	1.25	<0.928	<1.03	<1.21	3.83	6.77	<0.998	<0.826	1.17	0.965	<1.06	<1.15	<1.28	<1.02	<1.00	<1.05	<0.928	4.22	2.11	3.1	<0.940
Benzo(g,h,i)perylene	mg/kg	<0.992	<0.954	<0.819	<0.982	<0.928	<1.03	<1.21	1.77	2.38	<0.998	<0.826	<0.953	<0.881	<1.06	<1.15	<1.28	<1.02	<1.00	<1.05	<0.928	<0.940	<0.946	<0.919	<0.940
Benzo(k)fluoranthene	mg/kg	<0.992	<0.954	<0.819	<0.982	<0.928	<1.03	<1.21	<1.20	2.6	<0.998	<0.826	<0.953	<0.881	<1.06	<1.15	<1.28	<1.02	<1.00	<1.05	<0.928	1.25	<0.946	1.38	<0.940
bis(2-Chloroethoxy)methane	mg/kg	<0.992	<0.954	<0.819	<0.982	<0.928	<1.03	<1.21	<1.20	<1.05	<0.998	<0.826	<0.953	<0.881	<1.06	<1.15	<1.28	<1.02	<1.00	<1.05	<0.928	<0.940	<0.946	<0.919	<0.940
bis(2-Chloroethyl)ether	mg/kg	<0.497	<0.479	<0.411	<0.493	<0.465	<0.516	<0.606	<0.604	<0.528	<0.501	<0.414	<0.478	<0.442	<0.533	<0.577	<0.643	<0.510	<0.503	<0.525	<0.466	<0.471	<0.474	<0.461	<0.472
bis(2-chloroisopropyl)Ether	mg/kg	<0.497	<0.479	<0.411	<0.493	<0.465	<0.516	<0.606	<0.604	<0.528	<0.501	<0.414	<0.478	<0.442	<0.533	<0.577	<0.643	<0.510	<0.503	<0.525	<0.466	<0.471	<0.474	<0.461	<0.472
bis(2-Ethylhexyl)phthalate	mg/kg	<0.992	<0.954	<0.819	1.04	<0.928	<1.03	<1.21	<1.20	<1.05	<0.998	<0.826	<0.953	2.85	<1.06	<1.15	<1.28	<1.02	<1.00	<1.05	<0.928	1.08	<0.946	<0.919	<0.940
Butylbenzylphthalate	mg/kg	<0.992	<0.954	<0.819	<0.982	<0.928	<1.03	<1.21	<1.20	<1.05	<0.998	<0.826	<0.953	<0.881	<1.06	<1.15	<1.28	<1.02	<1.00	<1.05	<0.928	<0.940	<0.946	<0.919	<0.940
Chrysene	mg/kg	<0.497	<0.479	0.492	1.2	<0.465	<0.516	<0.606	5.72	6.38	<0.501	<0.414	1.04	0.836	1.3	<0.577	0.693	<0.510	<0.503	<0.525	<0.466	2.71	1.3	2.74	<0.472
Dibenzo(a,h)Anthracene	mg/kg	<0.497	<0.479	<0.411	<0.493	<0.465	<0.516	<0.606	0.836	1.36	<0.501	<0.414	<0.478	<0.442	<0.533	<0.577	<0.643	<0.510	<0.503	<0.525	<0.466	<0.471	<0.474	<0.461	<0.472
Dibenzofuran	mg/kg	<0.992	<0.954	<0.819	<0.982	<0.928	<1.03	<1.21	<1.20	1.71	<0.998	<0.826	<0.953	<0.881	<1.06	<1.15	<1.28	<1.02	<1.00	<1.05	<0.928	<0.940	<0.946	<0.919	<0.940
Diethylphthalate	mg/kg	<0.992	<0.954	<0.819	<0.982	<0.928	<1.03	<1.21	<1.20	<1.05	<0.998	<0.826	<0.953	<0.881	<1.06	<1.15	<1.28	<1.02	<1.00	<1.05	<0.928	<0.940	<0.946	<0.919	<0.940
Dimethylphthalate	mg/kg	<0.992	<0.954	<0.819	<0.982	<0.928	<1.03	<1.21	<1.20	<1.05	<0.998	<0.826	<0.953	<0.881	<1.06	<1.15	<1.28	<1.02	<1.00	<1.05	<0.928	<0.940	<0.946	<0.919	<0.940
Di-n-butylphthalate	mg/kg	<0.992	<0.954	<0.819	<0.982	<0.928	<1.03	<1.21	<1.20	<1.05	<0.998	<0.826	<0.953	<0.881	<1.06	<1.15	<1.28	<1.02	<1.00	<1.05	<0.928	<0.940	<0.946	<0.919	<0.940
Di-n-octylphthalate	mg/kg	<0.992	<0.954	<0.819	<0.982	<0.928	<1.03	<1.21	<1.20	<1.05	<0.998	<0.826	<0.953	<0.881	<1.06	<1.15	<1.28	<1.02	<1.00	<1.05	<0.928	<0.940	<0.946	<0.919	<0.940
Fluoranthene	mg/kg	<0.992	<0.954	1.1	1.54	<0.928	<1.03	<1.21	11.7	20.3	<0.998	<0.826	2.05	1.44	1.8	<1.15	1.3	<1.02	<1.00	<1.05	<0.928	4.83	1.97	6.3	<0.940
Fluorene	mg/kg	<0.992	<0.954	<0.819	<0.982	<0.928	<1.03	<1.21	<1.20	1.39	<0.998	<0.826	<0.953	<0.881	<1.06	<1.15	<1.28	<1.02	<1.00	<1.05	<0.928	<0.940	<0.946	<0.919	<0.940
Hexachlorobenzene	mg/kg	<0.497	<0.479	<0.411	<0.493	<0.465	<0.516	<0.606	<0.604	<0.528	<0.501	<0.414	<0.478	<0.442	<0.533	<0.577	<0.643	<0.510	<0.503	<0.525	<0.466	<0.471	<0.474	<0.461	<0.472
Hexachlorobutadiene	mg/kg	<0.992	<0.954	<0.819	<0.982	<0.928	<1.03	<1.21	<1.20	<1.05	<0.998	<0.826	<0.953	<0.881	<1.06	<1.15	<1.28	<1.02	<1.00	<1.05	<0.928	<0.940	<0.946	<0.919	<0.940
Hexachloroethane	mg/kg	<0.992	<0.954	<0.819	<0.982	<0.928	<1.03	<1.21	<1.20	<1.05	<0.998	<0.826	<0.953	<0.881	<1.06	<1.15	<1.28	<1.02	<1.00	<1.05	<0.928	<0.940	<0.946	<0.919	<0.940
Indeno(1,2,3-cd)Pyrene	mg/kg	<0.992	<0.954	<0.819	<0.982	<0.928	<1.03	<1.21	1.6	2.96	<0.998	<0.826	<0.953	<0.881	<1.06	<1.15	<1.28	<1.02	<1.00	<1.05	<0.928	<0.940	<0.946	<0.919	<0.940
Isophorone	mg/kg	<0.992	<0.954	<0.819	<0.982	<0.928	<1.03	<1.21	<1.20	<1.05	<0.998	<0.826	<0.953	<0.881	<1.06	<1.15	<1.28	<1.02	<1.00	<1.05	<0.928	<0.940	<0.946	<0.919	<0.940
Naphthalene	mg/kg	<0.992	<0.954	<0.819	3.89	<0.928	<1.03	<1.21	1.22	<1.05	<0.998	<0.826	<0.953	<0.881	<1.06	<1.15	<1.28	<1.02	<1.00	<1.05	<0.928	<0.940	<0.946	<0.919	<0.940
Nitrobenzene	mg/kg	<0.992	<0.954	<0.819	<0.982	<0.928	<1.03	<1.21	<1.20	<1.05	<0.998	<0.826	<0.953	<0.881	<1.06	<1.15	<1.28	<1.02	<1.00	<1.05	<0.928	<0.940	<0.946	<0.919	<0.940
N-Nitrosodimethylamine	mg/kg	<0.992	<0.954	<0.819	<0.982	<0.928	<1.03	<1.21	<1.20	<1.05	<0.998	<0.826	<0.953	<0.881	<1.06	<1.15	<1.28	<1.02	<1.00	<1.05	<0.928	<0.940	<0.946	<0.919	<0.940
Pentachlorophenol	mg/kg	<4.97	<4.79	<4.11	<4.93	<4.65	<5.16	<6.06	<6.04	<5.28	<5.01	<4.14	<4.78	<4.42	<5.33	<5.77	<6.43	<5.10	<5.03	<5.25	<4.66	<4.71	<4.74	<4.61	<4.72
Phenanthrene	mg/kg	<0.992	<0.954	<0.819	<0.982	<0.928	<1.03	<1.21	2.1	13.9	<0.998	<0.826	1.08	<0.881	<1.06	<1.15	<1.28	<1.02	<1.00	<1.05	<0.928	2.69	1.09	4.07	<0.940
Phenol	mg/kg	<0.992	<0.954	<0.819	<0.982	<0.928	<1.03	<1.21	<1.20	<1.05	<0.998	<0.826	<0.953	<0.881	<1.06	<1.15	<1.28	<1.02	<1.00	<1.05	<0.928	<0.940	<0.946	<0.919	<0.940
Pyrene	mg/kg	<0.992	<0.954	0.86	1.14	<0.928	<1.03	<1.21	9.94	10.3	<0.998	<0.826	1.67	1.14	<1.06	<1.15	<1.28	<1.02	<1.00	<1.05	<0.928	3.01	1.54	4.69	<0.940
Total SVOCs	mg/kg	ND	ND	2.867	10.06	ND	ND	ND	50.076	83.44	ND	ND	9.03	7.889	3.1	ND	1.993	ND	ND	ND	ND	25.041	10.015	28.78	ND
Classic Chemistry																									
Corrosivity (pH)	S.U.	6.12	6.02	8.58	5.61	4.71	4.8	3.36	4.16	5.44	6.12	5.72	7.89	7.54	6.83	5.47	4.54	6.41	4.39	5.98	5.53	8.08	11.7	11.2	9.04
Conductivity	umhos/cm	3720	1390	268	1780	1620	1820	1060	7760	316	249	238	1420	646	389	869	552	222	733	303	248	474	10100	770	181
Flashpoint	°F	>200	>200	>200	>200	>200	--	--	--	--	--	--	>200	>200	>200	--	--	--	--	--	--	>200	>200	>200	>200
Reactive Cyanide	mg/kg	<2.0	<2.0	<2.0	<2.0	<2.0	--	--	--	--	--	--	<2.0	<2.0	<2.0	--	--	--	--	--	--	<2.0	<2.0	<2.0	<2.0
Reactive Sulfide	mg/kg	<2.0	<2.0	<2.0	<2.0	<2.0	--	--	--	--	--	--	<2.0	<2.0	<2.0	--	--	--	--	--	--	<2.0	<2.0	<2.0	<2.0

Table 1
Soil Precharacterization Data

Wynn Resort Casino
Everett, Massachusetts

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	B18 B18S07BS09A 1501196 Fill 13.3 - 16.6 1/12/2015	B18 B18S09B 1501196 Fill 16.6 - 18 1/12/2015	B18 B18S10 1501196 Natural Organics 18 - 20 1/12/2015	B18 B18S11 1501196 Natural Organics 24 - 26 1/12/2015	B18 B18S12 1501196 Natural Clay 29 - 31 1/12/2015	B18 B18S13S14 1501196 Natural Clay 34 - 38 1/12/2015	B19 GZ020S01S02A 1502332 Fill 0 - 3.3 2/23/2015	B19 GZ020S02BS04A 1502332 Fill 3.3 - 6.6 2/23/2015	B19 GZ020S04BS05 1502332 Fill 6.6 - 10 2/23/2015	B19 GZ020S06S07A 1502332 Fill 10 - 13.3 2/23/2015	B19 GZ020S07BS08A 1502332 Fill 13.3 - 15 2/23/2015	B19 GZ020S08BS09 1502332 Natural Organics 15 - 18 2/23/2015	B19 GZ020S11 1502332 Natural Organics 21 - 23 2/23/2015	B19 GZ020S13 1502332 Natural Organics 25 - 27 2/23/2015	B19 GZ020S15 1502370 Natural Organics 29 - 31 2/25/2015	B19 GZ020S16S17 1502370 Natural Organics 31 - 35 2/25/2015	B20 B20S01S02A 1412501 Fill 0 - 3.3 12/23/2014	B20 B20S02BS04A 1412501 Fill 3.3 - 6.6 12/23/2014	B20 B20S04BS05 1412501 Fill 6.6 - 10 12/23/2014	B20 B20S06S07A 1501030 Fill 10 - 13 1/5/2015	B20 B20S07B 1501030 Natural Organics 13 - 18 1/5/2015	B20 B20S08 1501030 Natural Organics 18 - 23 1/5/2015	B20 B20S09 1501030 Natural Organics 23 - 28 1/5/2015	B20 B20S10 1501030 Natural Organics 28 - 33 1/5/2015
Preliminary Disposal Facility Category		Hazardous Material Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type B-1	Hazardous Material Type B	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Material Type B-2	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A
RCRA 8 Metals	**Units**																									
Arsenic	mg/kg	40.6	<10.8	<15.9	<12.7	<12.8	<14.0	13.4	<10.4	<8.19	282	17.1	16.8	<11.0	<11.5	<8.35	<7.67	5.18	12.7	20.4	<3.12	<4.07	10.5	3.64	2.88
Barium	mg/kg	13.1	<10.8	20.1	14.2	94.2	91.3	30.5	138	393	86.4	37.9	32.7	15.2	<11.5	21.6	10.8	16.9	73.4	124	222	419	86.4	17.2	17.5
Cadmium	mg/kg	<2.24	<2.16	<3.18	<2.55	<2.57	<2.79	<2.00	<2.09	<1.64	<11.6	<1.66	<1.92	<2.19	<2.30	<1.67	<1.53	<0.46	0.62	0.68	<0.62	<0.81	<0.76	<0.53	<0.57
Chromium	mg/kg	<4.47	<4.33	41	15.9	50.5	48	24	5.53	<3.28	7.38	<3.31	33.7	11.1	<4.59	18	9.18	15	30.1	37.6	2.08	1.96	2.26	23.5	7.08
Lead	mg/kg	195	65.2	<31.8	<25.5	<25.7	<27.9	57.4	264	222	628	63.5	83	<21.9	<23.0	<16.7	<15.3	27.5	308	581	896	209	36.1	<5.32	<5.71
Selenium	mg/kg	<17.9	<17.3	<12.7	<16.3	<10.3	<11.2	<9.98	<10.4	<8.19	25.9	<8.28	<9.61	<11.0	<11.5	<8.35	<7.67	<9.14	<11.2	<10.9	<12.5	<16.3	<15.3	<10.6	<11.4
Silver	mg/kg	<2.24	<2.16	<3.18	<2.55	<2.57	<2.79	<2.00	<2.09	1.86	<2.32	<1.66	<1.92	<2.19	<2.30	<1.67	<1.53	<0.46	<0.56	0.84	1.37	<0.81	<0.76	<0.53	<0.57
Mercury	mg/kg	<0.033	0.045	0.18	<0.037	<0.040	<0.042	0.167	0.851	0.272	2.33	0.056	0.211	<0.028	<0.027	<0.041	<0.033	0.103	199	54.1	3.82	1.83	<0.047	<0.039	<0.041
Metals by Toxicity Characteristic Leaching Procedure (TCLP)																										
Arsenic	mg/L	--	--	--	--	--	--	--	--	--	2.25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead	mg/L	<0.050	--	--	--	--	--	--	3.48	3.1	6.36	--	--	--	--	--	--	--	<0.050	0.411	12.4	0.173	--	--	--	--
Selenium	mg/L	--	--	--	--	--	--	--	--	--	<1.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.00051	<0.00050	--	--	--	--	--	--
Herbicides																										
2,4,5-T	mg/kg	<0.052	<0.051	--	--	--	--	<0.055	<0.052	<0.054	<0.062	<0.054	--	--	--	--	<0.056	<0.058	<0.059	<0.073	<0.059	--	--	--	--	--
2,4-D	mg/kg	<0.052	<0.051	--	--	--	--	<0.055	<0.052	<0.054	<0.062	<0.054	--	--	--	--	<0.056	<0.058	<0.059	<0.073	<0.059	--	--	--	--	--
2,4-DB	mg/kg	<0.052	<0.051	--	--	--	--	<0.055	<0.052	<0.054	<0.062	<0.054	--	--	--	--	<0.056	<0.058	<0.059	<0.073	<0.059	--	--	--	--	--
Dalapon	mg/kg	<0.63	<0.61	--	--	--	--	<0.66	<0.63	<0.66	<0.75	<0.65	--	--	--	--	<0.67	<0.70	<0.72	<0.88	<0.71	--	--	--	--	--
Dicamba	mg/kg	<0.052	<0.051	--	--	--	--	<0.055	<0.052	<0.054	<0.062	<0.054	--	--	--	--	<0.056	<0.058	<0.059	<0.073	<0.059	--	--	--	--	--
Dichlorprop	mg/kg	<0.052	<0.051	--	--	--	--	<0.055	<0.052	<0.054	<0.062	<0.054	--	--	--	--	<0.056	<0.058	<0.059	<0.073	<0.059	--	--	--	--	--
Dinoseb	mg/kg	<0.32	<0.31	--	--	--	--	<0.33	<0.31	<0.33	<0.37	<0.33	--	--	--	--	<0.34	<0.35	<0.36	<0.44	<0.36	--	--	--	--	--
MCPA	mg/kg	<13	<12	--	--	--	--	<13	<13	<13	<15	<13	--	--	--	--	<13	<14	<14	<18	<14	--	--	--	--	--
MCPP	mg/kg	<13	<12	--	--	--	--	<13	<13	<13	<15	<13	--	--	--	--	<13	<14	<14	<18	<14	--	--	--	--	--
Silvex (2,4,5-TP)	mg/kg	<0.052	<0.051	--	--	--	--	<0.055	<0.052	<0.054	<0.062	<0.054	--	--	--	--	<0.056	<0.058	<0.059	<0.073	<0.059	--	--	--	--	--
Pesticides																										
4,4'-DDD	mg/kg	<0.0019	<0.0019	--	--	--	--	<0.019	<0.038	<0.0040	<0.0021	<0.0019	--	--	--	--	<0.0020	<0.0020	<0.0020	<0.0026	<0.0020	--	--	--	--	--
4,4'-DDE	mg/kg	<0.0019	<0.0019	--	--	--	--	<0.019	<0.038	<0.0040	<0.0021	<0.0019	--	--	--	--	<0.0020	<0.0020	<0.0020	<0.0026	<0.0020	--	--	--	--	--
4,4'-DDT	mg/kg	<0.0019	<0.0019	--	--	--	--	<0.019	<0.038	<0.0040	<0.0021	<0.0019	--	--	--	--	<0.0020	<0.0020	<0.0020	<0.0026	<0.0020	--	--	--	--	--
Aldrin	mg/kg	<0.0019	<0.0019	--	--	--	--	<0.019	<0.038	<0.0040	<0.0021	<0.0019	--	--	--	--	<0.0020	<0.0020	<0.0020	<0.0026	<0.0020	--	--	--	--	--
alpha-BHC	mg/kg	<0.0019	<0.0019	--	--	--	--	<0.019	<0.038	<0.0040	<0.0021	<0.0019	--	--	--	--	<0.0020	<0.0020	<0.0020	<0.0026	<0.0020	--	--	--	--	--
beta-BHC	mg/kg	<0.0019	<0.0019	--	--	--	--	<0.019	<0.038	<0.0040	<0.0021	<0.0019	--	--	--	--	<0.0020	<0.0020	<0.0020	<0.0026	<0.0020	--	--	--	--	--
Chlordane (technical)	mg/kg	<0.019	<0.019	--	--	--	--	<0.19	<0.38	<0.040	<0.021	<0.019	--	--	--	--	<0.020	<0.020	<0.020	<0.026	<0.020	--	--	--	--	--
delta-BHC	mg/kg	<0.0019	<0.0019	--	--	--	--	<0.019	<0.038	<0.0040	<0.0021	<0.0019	--	--	--	--	<0.0020	<0.0020	<0.0020	<0.0026	<0.0020	--	--	--	--	--
Dieldrin	mg/kg	<0.0019	<0.0019	--	--	--	--	<0.019	<0.038	<0.0040	<0.0021	<0.0019	--	--	--	--	<0.0020	<0.0020	<0.0020	<0.0026	<0.0020	--	--	--	--	--
Endosulfan I	mg/kg	<0.0019	<0.0019	--	--	--	--	<0.019	<0.038	<0.0040	<0.0021	<0.0019	--	--	--	--	<0.0020	<0.0020	<0.0020	<0.0026	<0.0020	--	--	--	--	--
Endosulfan II	mg/kg	<0.0019	<0.0019	--	--	--	--	<0.019	<0.038	<0.0040	<0.0021	<0.0019	--	--	--	--	<0.0020	<0.0020	<0.0020	<0.0026	<0.0020	--	--	--	--	--
Endosulfan sulfate	mg/kg	<0.0019	<0.0019	--	--	--	--	<0.019	<0.038	<0.0040	<0.0021	<0.0019	--	--	--	--	<0.0020	<0.0020	<0.0020	<0.0026	<0.0020	--	--	--	--	--
Endrin	mg/kg	<0.0019	<0.0019	--	--	--	--	<0.019	<0.038	<0.0040	<0.0021	<0.0019	--	--	--	--	<0.0020	<0.0020	<0.0020	<0.0026	<0.0020	--	--	--	--	--
Endrin ketone	mg/kg	<0.0019	<0.0019	--	--	--	--	<0.019	<0.038	<0.0040	<0.0021	<0.0019	--	--	--	--	<0.0020	<0.0020	<0.0020	<0.0026	<0.0020	--	--	--	--	--
gamma-BHC (Lindane)	mg/kg	<0.0019	<0.0019	--	--	--	--	<0.019	<0.038	<0.0040	<0.0021	<0.0019	--	--	--	--	<0.0020	<0.0020	<0.0020	<0.0026	<0.0020	--	--	--	--	--
Heptachlor	mg/kg	<0.0019	<0.0019	--	--	--	--	<0.019	<0.038	<0.0040	<0.0021	<0.0019	--	--	--	--	<0.0020	<0.0020	<0.0020	<0.0026	<0.0020	--	--	--	--	--
Heptachlor epoxide	mg/kg	<0.0019	<0.0019	--	--	--	--	<0.019	<0.038	<0.0040	<0.0021	<0.0019	--	--	--	--	<0.0020	<0.0020	<0.0020	<0.0026	<0.0020	--	--	--	--	--
Hexachlorobenzene	mg/kg	<0.0019	<0.0019	--	--	--	--	<0.019	<0.038	<0.0040	<0.0021	<0.0019	--	--	--	--	<0.0020	<0.0020	<0.0020	<0.0026	<0.0020	--	--	--	--	--
Methoxychlor	mg/kg	<0.0019	<0.0019	--	--	--	--	<0.019	<0.038	<0.0040	<0.0021	<0.0019	--	--	--	--	<0.0020	<0.0020	<0.0020	<0.0026	<0.0020	--	--	--	--	--
Polychlorinated Biphenyls																										
Aroclor 1016	mg/kg	<0.135	<0.130	<0.173	<0.146	<0.146	<0.161	<0.139	<0.144	<0.143	<0.183	<0.127	<0.177	<0.150	<0.148	<0.153	<0.148	<0.135	<0.155	<0.152	<0.158	<0.203	<0.183	<0.153	<0.152
Aroclor 1221	mg/kg	<0.135	<0.130	<0.173	<0.146	<0.146	<0.161	<0.139	<0.144	<0.143	<0.183	<0.127	<0.177	<0.150	<0.148	<0.153	<0.148	<0.135	<0.155	<0.152	<0.158	<0.203	<0.183	<0.153	<0.152
Aroclor 1232	mg/kg	<0.135	<0.130	<0.173	<0.146	<0.146	<0.161	<0.139	<0.144	<0.143	<0.183	<0.127	<0.177	<0.150	<0.148	<0.153	<0.148	<0.135	<0.155	<0.152	<0.158	<0.203	<0.183	<0.153	<0.152
Aroclor 1242	mg/kg	<0.135	<0.130	<0.173	<0.146	<0.146	<0.161	<0.139	<0.144	<0.143	<0.183	<0.127	<0.177	<0.150	<0.148	<0.153	<0.148	<0.135	<0.155	<0.152	<0.158	<0.203	<0.183	<0.153	<0.152
Aroclor 1248	mg/kg	<0.135	<0.130	<0.173	<0.146	<0.146	<0.161	<0.139	<0.144	<0.143	<0.183	<0.127	<0.177	<0.150	<0.148	<0.153	<0.148	<0.135	<0.155	<0.152	<0.158	<0.203	<0.183	<0.153	<0.152
Aroclor 1254	mg/kg	<0.135	<0.130	<0.173	<0.146	<0.146	<0.161	<0.139	0.469	0.235	<0.183	<0.127	<0.177	<0.150	<0.148	<0.153	<0.148	<0.135	18.8	7.36	<0.158	<0.203	<0.183	<0.153	<0.152
Aroclor 1260	mg/kg	<0.135	<0.130	<0.173	<0.146	<0.146	<0.161	<0.139	0.218	<0.143	<0.183	<0.127	<0.177	<0.150	<0.148	<0.153	<0.148	<0.135	5.27	<0.152	<0.158	<0.203	<0.183	<0.153	<0.152
Aroclor 1262	mg/kg	<0.135	<0.130	<0.173	<0.146	<0.146	<0.161	<0.139	<0.144	<0.143	<0.183	<0.127	<0.177	<0.150	<0.148	<0.153	<0.148	<0.135	<0.155	<0.152	<0.158	<0.203	<0.183	<0.153	<0.152
Aroclor 1268	mg/kg	<0.135	<0.130	<0.173	<0.146	<0.146	<0.161	<0.139	<0.144	<0.143	<0.183	<0.127	<0.177	<0.150	<0.148	<0.153	<0.148	<0.135	<0.155	<0.152	<0.158	<0.203	<0.183	<0.153	<0.152
Total PCBs	mg/kg	ND	ND	ND	ND	ND	ND	ND	0.687	0.235	ND	ND	ND	ND	ND	ND	ND	ND	24.07	7.36	ND	ND	ND	ND	ND
Total Petroleum Hydrocarbons	mg/kg	<44.6	<43.7	154	<47.4	<47.8	<53.1	195	1390	2500	299	91.3	177	<42.1	<42.6	<50.3	<47.1	<39.7	1790	662	151	73.9	127	49.2	<46.2
Volatile Organic Compounds (VOCs)																										
1,1,1,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	<0.188	--	<0.172	<0.117	<0.0918	<0.121	<0.103	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	<0.0941	--	<0.0859	<0.0583	<0.0459	<0.0606	<0.0513	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	<0.0941	--	<0.0859	<0.0583	<0.0459	<0.0606	<0.0513	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	<0.0941	--	<0.0859	<0.0583	<0.0459	<0.0606	<0.0513	--	--	--	--	--	--	--	--
1,1-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	<0.0941	--	<0.0859	<0.0583	<0.0459	<0.0606	<0.0513	--	--	--	--	--	--	--	--
1,1-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	<0.0941	--	<0.0859	<0.0583	<0.0459	<0.0606	<0.0513	--	--	--	--	--	--	--	--
1,1-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	<0.0941	--	<0.0859	<0.0583	<0.0459	<0.0606	<0.0513	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	<0.0941	--	<0.0859	<0.0583	<0.0459	<0.0606	<0.0513	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	<0.0941	--	<0.0859	<0.0583	<0.0459	<0.0606	<0.0513	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	<0.0941	--	<0.0859	<0.0583	<0.0459	<0.0606	<0.0513	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	<0.0941	--	<0.0859	0.0863	<0.0459	0.355	0.109	--	--	--	--	--	--	--	--
1,2-Dibromo-3-Chloropropane	mg/kg	--	--	--	--	--	--	--	--	--	<0.376	--	<0.344	<0.233	<0.184	<0.242	<0.205	--	--	--	--	--	--	--	--
1,2-Dibromoethane	mg/kg	--	--	--	--	--	--	--	--	--	<0.0941	--	<0.0859	<0.0583	<0.0459	<0.0606	<0.0513	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	<0.0941	--	<0.0859	<0.0583	<0.0459	<0.0606	<0.0513	--	--	--	--	--	--	--	--
1,2-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	<0.0941	--	<0.0859	<0.0583	<0.0459	<0.0606	<0.0513	--	--	--	--	--	--	--	--
1,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	<0.0941	--	<0.0859	<0.0583	<0.0459	<0.0606	<0.0513	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	<0.0941	--	<0.0859	<0.0583	<0.0459	0.145	<0.0513	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	<0.0941	--	<0.0859	<0.0583	<0.0459	<0.0606	<0.0513	--	--	--	--	--	--	--	--
1,3-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	<0.0941	--	<0.0859	<0.0583	<0.0459	<0.0606	<0.0513	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	<0.0941	--	<0.0859	<0.0583	<0.0459	<0.0606	<0.0513	--	--	--	--	--	--	--	--
1,4-Dioxane - Screen	mg/kg	--	--	--	--	--	--	--	--	--	<9.41	--	<8.59	<5.83	<4.59	<6.06	<5.13	--	--	--	--	--	--	--	--
2,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	<0.188	--	<0.172	<0.117	<0.0918	<0.121	<0.103	--	--	--	--	--	--	--	--
2-Butanone	mg/kg	--	--	--	--	--	--	--	--	--	<0.376	--	<0.344	<0.233	<0.184	<0.242	<0.205	--	--	--	--	--	--	--	--
2-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	<0.0941	--	<0.0859	<0.0583	<0.0459	<0.0606	<0.0513	--	--	--	--	--	--	--	--
2-Hexanone	mg/kg	--	--	--	--	--	--	--	--	--	<0.376	--	<0.344	<0.233	<0.184	<0.242	<0.205	--	--	--	--	--	--	--	--
4-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	<0.0941	--	<0.0859	<0.0583	<0.0459	<0.0606	<0.0513	--	--	--	--	--	--	--	--
4-Isopropyltoluene	mg/kg	--	--	--	--	--	--	--	--	--	<0.0941	--	<0.0859	<0.0583	<0.0459	<0.0606	<0.0513	--	--	--	--	--	--	--	--
4-Methyl-2-Pentanone	mg/kg	--	--	--	--	--	--	--	--	--	<0.376	--	<0.344	<0.233	<0.184	<0.242	<0.205	--	--	--	--	--	--	--	--
Acetone	mg/kg	--	--	--	--	--	--	--	--	--	0.636	--	1.05	0.58	<0.184	0.545	0.356	--	--	--	--	--	--	--	--
Benzene	mg/kg	--	--	--	--	--	--	--	--	--	<0.0941	--	0.0859	<0.0583	<0.0459	<0.0606	<0.0513	--	--	--	--	--	--	--	--
Bromobenzene	mg/kg	--	--	--	--	--	--	--	--	--	<0.0941	--	<0.0859	<0.0583	<0.0459	<0.0606	<0.0513	--	--	--	--	--	--	--	--
Bromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	<0.0941	--	<0.0859	<0.0583	<0.0459	<0.0606	<0.0513	--	--	--	--	--	--	--	--
Bromodichloromethane	mg/kg	--	--	--	--	--	--	--	--	--	<0.0941	--	<0.0859	<0.0583	<0.0459	<0.0606	<0.0513	--	--	--	--	--	--	--	--
Bromoform	mg/kg	--	--	--	--	--	--	--	--	--	<0.0941	--	<0.0859	<0.0583	<0.0459	<0.0606	<0.0513	--	--	--	--	--	--	--	--
Bromomethane	mg/kg	--	--	--	--	--	--	--	--	--	<0.188	--	<0.172	<0.117	<0.0918	<0.121	<0.103	--	--	--	--	--	--	--	--
Carbon Disulfide	mg/kg	--	--	--	--	--	--	--	--	--	<0.0941	--	<0.0859	<0.0583	<0.0459	<0.0606	<0.0513	--	--	--	--	--	--	--	--
Carbon Tetrachloride	mg/kg	--	--	--	--	--	--	--	--	--	<0.0941	--	<0.0859	<0.0583	<0.0459	<0.0606	<0.0513	--	--	--	--	--	--	--	--

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	B18 B18S07BS09A 1501196 Fill 13.3 - 16.6 1/12/2015	B18 B18S09B 1501196 Fill 16.6 - 18 1/12/2015	B18 B18S10 1501196 Natural Organics 18 - 20 1/12/2015	B18 B18S11 1501196 Natural Organics 24 - 26 1/12/2015	B18 B18S12 1501196 Natural Clay 29 - 31 1/12/2015	B18 B18S13S14 1501196 Natural Clay 34 - 38 1/12/2015	B19 GZ020S01S02A 1502332 Fill 0 - 3.3 2/23/2015	B19 GZ020S02BS04A 1502332 Fill 3.3 - 6.6 2/23/2015	B19 GZ020S04BS05 1502332 Fill 6.6 - 10 2/23/2015	B19 GZ020S06S07A 1502332 Fill 10 - 13.3 2/23/2015	B19 GZ020S07BS08A 1502332 Fill 13.3 - 15 2/23/2015	B19 GZ020S08BS09 1502332 Natural Organics 15 - 18 2/23/2015	B19 GZ020S11 1502332 Natural Organics 21 - 23 2/23/2015	B19 GZ020S13 1502332 Natural Organics 25 - 27 2/23/2015	B19 GZ020S15 1502370 Natural Organics 29 - 31 2/25/2015	B19 GZ020S16S17 1502370 Natural Organics 31 - 35 2/25/2015	B20 B20S01S02A 1412501 Fill 0 - 3.3 12/23/2014	B20 B20S02BS04A 1412501 Fill 3.3 - 6.6 12/23/2014	B20 B20S04BS05 1412501 Fill 6.6 - 10 12/23/2014	B20 B20S06S07A 1501030 Fill 10 - 13 1/5/2015	B20 B20S07B 1501030 Natural Organics 13 - 18 1/5/2015	B20 B20S08 1501030 Natural Organics 18 - 23 1/5/2015	B20 B20S09 1501030 Natural Organics 23 - 28 1/5/2015	B20 B20S10 1501030 Natural Organics 28 - 33 1/5/2015
Preliminary Disposal Facility Category		Hazardous Material Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type B-1	Hazardous Material Type B	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Material Type B-2	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A
Chlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	<0.0941	--	<0.0859	<0.0583	<0.0459	<0.0606	<0.0513	--	--	--	--	--	--	--	--
Chloroethane	mg/kg	--	--	--	--	--	--	--	--	--	<0.188	--	<0.172	<0.117	<0.0918	<0.121	<0.103	--	--	--	--	--	--	--	--
Chloroform	mg/kg	--	--	--	--	--	--	--	--	--	<0.0941	--	<0.0859	<0.0583	<0.0459	<0.0606	<0.0513	--	--	--	--	--	--	--	--
Chloromethane	mg/kg	--	--	--	--	--	--	--	--	--	<0.188	--	<0.172	<0.117	<0.0918	<0.121	<0.103	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	<0.0941	--	<0.0859	<0.0583	<0.0459	<0.0606	<0.0513	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	<0.0941	--	<0.0859	<0.0583	<0.0459	<0.0606	<0.0513	--	--	--	--	--	--	--	--
Dibromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	<0.0941	--	<0.0859	<0.0583	<0.0459	<0.0606	<0.0513	--	--	--	--	--	--	--	--
Dibromomethane	mg/kg	--	--	--	--	--	--	--	--	--	<0.0941	--	<0.0859	<0.0583	<0.0459	<0.0606	<0.0513	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	<0.0941	--	<0.0859	<0.0583	<0.0459	<0.0606	<0.0513	--	--	--	--	--	--	--	--
Diethyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	<0.0941	--	<0.0859	<0.0583	<0.0459	<0.0606	<0.0513	--	--	--	--	--	--	--	--
Di-isopropyl ether	mg/kg	--	--	--	--	--	--	--	--	--	<0.0941	--	<0.0859	<0.0583	<0.0459	<0.0606	<0.0513	--	--	--	--	--	--	--	--
Ethyl tertiary-butyl ether	mg/kg	--	--	--	--	--	--	--	--	--	<0.0941	--	<0.0859	<0.0583	<0.0459	<0.0606	<0.0513	--	--	--	--	--	--	--	--
Ethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	<0.0941	--	<0.0859	<0.0583	<0.0459	0.0667	<0.0513	--	--	--	--	--	--	--	--
Hexachlorobutadiene	mg/kg	--	--	--	--	--	--	--	--	--	<0.0941	--	<0.0859	<0.0583	<0.0459	<0.0606	<0.0513	--	--	--	--	--	--	--	--
Isopropylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	<0.0941	--	<0.0859	<0.0583	<0.0459	<0.0606	<0.0513	--	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	<0.0941	--	<0.0859	<0.0583	<0.0459	<0.0606	<0.0513	--	--	--	--	--	--	--	--
Methylene Chloride	mg/kg	--	--	--	--	--	--	--	--	--	<0.376	--	<0.344	<0.233	<0.184	<0.242	<0.205	--	--	--	--	--	--	--	--
Naphthalene	mg/kg	--	--	--	--	--	--	--	--	--	4.08	--	10.2	26.2	2.19	70.1	18.1	--	--	--	--	--	--	--	--
n-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	<0.0941	--	<0.0859	<0.0583	<0.0459	<0.0606	<0.0513	--	--	--	--	--	--	--	--
n-Propylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	<0.0941	--	<0.0859	<0.0583	<0.0459	<0.0606	<0.0513	--	--	--	--	--	--	--	--
sec-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	<0.0941	--	<0.0859	<0.0583	<0.0459	<0.0606	<0.0513	--	--	--	--	--	--	--	--
Styrene	mg/kg	--	--	--	--	--	--	--	--	--	<0.0941	--	<0.0859	<0.0583	<0.0459	<0.0606	<0.0513	--	--	--	--	--	--	--	--
tert-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	<0.0941	--	<0.0859	<0.0583	<0.0459	<0.0606	<0.0513	--	--	--	--	--	--	--	--
Tertiary-amyl methyl ether	mg/kg	--	--	--	--	--	--	--	--	--	<0.0941	--	<0.0859	<0.0583	<0.0459	<0.0606	<0.0513	--	--	--	--	--	--	--	--
Tetrachloroethene	mg/kg	--	--	--	--	--	--	--	--	--	<0.0941	--	<0.0859	<0.0583	<0.0459	<0.0606	<0.0513	--	--	--	--	--	--	--	--
Tetrahydrofuran	mg/kg	--	--	--	--	--	--	--	--	--	<0.376	--	<0.344	<0.233	<0.184	<0.242	<0.205	--	--	--	--	--	--	--	--
Toluene	mg/kg	--	--	--	--	--	--	--	--	--	<0.0941	--	0.191	0.0618	<0.0459	0.0642	<0.0513	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	<0.0941	--	<0.0859	<0.0583	<0.0459	<0.0606	<0.0513	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	<0.0941	--	<0.0859	<0.0583	<0.0459	<0.0606	<0.0513	--	--	--	--	--	--	--	--
Trichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	<0.0941	--	<0.0859	<0.0583	<0.0459	<0.0606	<0.0513	--	--	--	--	--	--	--	--
Trichlorofluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	<0.0941	--	<0.0859	<0.0583	<0.0459	<0.0606	<0.0513	--	--	--	--	--	--	--	--
Vinyl Chloride	mg/kg	--	--	--	--	--	--	--	--	--	<0.0941	--	<0.0859	<0.0583	<0.0459	<0.0606	<0.0513	--	--	--	--	--	--	--	--
Xylene O	mg/kg	--	--	--	--	--	--	--	--	--	<0.0941	--	0.141	0.0595	<0.0459	0.0739	<0.0513	--	--	--	--	--	--	--	--
Xylene P,M	mg/kg	--	--	--	--	--	--	--	--	--	<0.188	--	0.227	<0.117	<0.0918	0.182	<0.103	--	--	--	--	--	--	--	--
Xylenes (Total)	mg/kg	--	--	--	--	--	--	--	--	--	<0.188	--	0.368	<0.117	<0.0918	0.256	<0.103	--	--	--	--	--	--	--	--
Total VOCs	mg/kg	--	--	--	--	--	--	--	--	--	4.716	--	12.2629	26.9876	2.19	71.7878	18.565	--	--	--	--	--	--	--	--
Volatile Organic Compounds - Low Level Analysis																									
1,1,1,2-Tetrachloroethane	mg/kg	<0.0033	<0.0036	<0.0048	<0.0038	<0.0037	<0.0042	<0.0043	<0.0043	<0.0054	<0.0052	<0.0034	<0.0050	<0.0039	<0.0038	<0.0036	<0.0040	<0.0037	<0.0040	<0.0061	<0.0040	<0.0064	<0.0054	<0.0034	<0.0040
1,1,1-Trichloroethane	mg/kg	<0.0033	<0.0036	<0.0048	<0.0038	<0.0037	<0.0042	<0.0043	<0.0043	<0.0054	<0.0052	<0.0034	<0.0050	<0.0039	<0.0038	<0.0036	<0.0040	<0.0037	<0.0040	<0.0061	<0.0040	<0.0064	<0.0054	<0.0034	<0.0040
1,1,2,2-Tetrachloroethane	mg/kg	<0.0013	<0.0015	<0.0019	<0.0015	<0.0015	<0.0017	<0.0017	<0.0017	<0.0021	<0.0021	<0.0014	<0.0020	<0.0015	<0.0015	<0.0014	<0.0016	<0.0015	<0.0016	<0.0024	<0.0016	<0.0026	<0.0022	<0.0014	<0.0016
1,1,2-Trichloroethane	mg/kg	<0.0033	<0.0036	<0.0048	<0.0038	<0.0037	<0.0042	<0.0043	<0.0043	<0.0054	<0.0052	<0.0034	<0.0050	<0.0039	<0.0038	<0.0036	<0.0040	<0.0037	<0.0040	<0.0061	<0.0040	<0.0064	<0.0054	<0.0034	<0.0040
1,1-Dichloroethane	mg/kg	<0.0033	<0.0036	<0.0048	<0.0038	<0.0037	<0.0042	<0.0043	<0.0043	<0.0054	<0.0052	<0.0034	<0.0050	<0.0039	<0.0038	<0.0036	<0.0040	<0.0037	<0.0040	<0.0061	<0.0040	<0.0064	<0.0054	<0.0034	<0.0040
1,1-Dichloroethene	mg/kg	<0.0033	<0.0036	<0.0048	<0.0038	<0.0037	<0.0042	<0.0043	<0.0043	<0.0054	<0.0052	<0.0034	<0.0050	<0.0039	<0.0038	<0.0036	<0.0040	<0.0037	<0.0040	<0.0061	<0.0040	<0.0064	<0.0054	<0.0034	<0.0040
1,1-Dichloropropene	mg/kg	<0.0033	<0.0036	<0.0048	<0.0038	<0.0037	<0.0042	<0.0043	<0.0043	<0.0054	<0.0052	<0.0034	<0.0050	<0.0039	<0.0038	<0.0036	<0.0040	<0.0037	<0.0040	<0.0061	<0.0040	<0.0064	<0.0054	<0.0034	<0.0040
1,2,3-Trichlorobenzene	mg/kg	<0.0033	<0.0036	<0.0048	<0.0038	<0.0037	<0.0042	<0.0043	<0.0043	<0.0054	<0.0052	<0.0034	<0.0050	<0.0039	<0.0038	<0.0036	<0.0040	<0.0037	<0.0040	<0.0061	<0.0040	<0.0064	<0.0054	<0.0034	<0.0040
1,2,3-Trichloropropane	mg/kg	<0.0033	<0.0036	<0.0048	<0.0038	<0.0037	<0.0042	<0.0043	<0.0043	<0.0054	<0.0052	<0.0034	<0.0050	<0.0039	<0.0038	<0.0036	<0.0040	<0.0037	<0.0040	<0.0061	<0.0040	<0.0064	<0.0054	<0.0034	<0.0040
1,2,4-Trichlorobenzene	mg/kg	<0.0033	<0.0036	<0.0048	<0.0038	<0.0037	<0.0042	<0.0043	<0.0043	<0.0054	<0.0052	<0.0034	<0.0050	<0.0039	<0.0038	<0.0036	<0.0040	<0.0037	<0.0040	<0.0061	<0.0040	<0.0064	<0.0054	<0.0034	<0.0040
1,2,4-Trimethylbenzene	mg/kg	<0.0033	<0.0036	<0.0048	<0.0038	<0.0037	<0.0042	<0.0043	<0.0043	<0.0054	0.0149	<0.0034	0.0328	0.0434	<0.0038	0.0568	0.0416	<0.0037	<0.0040	<0.0061	<0.0040	0.0069	<0.0054	<0.0034	<0.0040
1,2-Dibromo-3-Chloropropane	mg/kg	<0.0033	<0.0036	<0.0048	<0.0038	<0.0037	<0.0042	<0.0043	<0.0043	<0.0054	<0.0052	<0.0034	<0.0050	<0.0039	<0.0038	<0.0036	<0.0040	<0.0037	<0.0040	<0.0061	<0.0040	<0.0064	<0.0054	<0.0034	<0.0040
1,2-Dibromoethane	mg/kg	<0.0033	<0.0036	<0.0048	<0.0038	<0.0037	<0.0042	<0.0043	<0.0043	<0.0054	<0.0052	<0.0034	<0.0050	<0.0039	<0.0038	<0.0036	<0.0040	<0.0037	<0.0040	<0.0061	<0.0040	<0.0064	<0.0054	<0.0034	<0.0040
1,2-Dichlorobenzene	mg/kg	<0.0033	<0.0036	<0.0048	<0.0038	<0.0037	<0.0042	<0.0043	<0.0043	<0.0054	<0.0052	<0.0034	<0.0050	<0.0039	<0.0038	<0.0036	<0.0040	<0.0037	<0.0040	<0.0061	<0.0040	<0.0064	<0.0054	<0.0034	<0.0040
1,2-Dichloroethane	mg/kg	<0.0033	<0.0036	<0.0048	<0.0038	<0.0037	<0.0042	<0.0043	<0.0043	<0.0054	<0.0052	<0.0034	<0.0050	<0.0039	<0.0038	<0.0036	<0.0040	<0.0037	<0.0040	<0.0061	<0.0040	<0.0064	<0.0054	<0.0034	<0.0040
1,2-Dichloropropane	mg/kg	<0.0033	<0.0036	<0.0048	<0.0038	<0.0037	<0.0042	<0.0043	<0.0043	<0.0054	<0.0052	<0.0034	<0.0050	<0.0039	<0.0038	<0.0036	<0.0040	<0.0037	<0.0040	<0.0061	<0.0040	<0.0064	<0.0054	<0.0034	<0.0040
1,3,5-Trimethylbenzene	mg/kg	<0.0033	<0.0036	<0.0048	<0.0038	<0.0037	<0.0042	<0.0043	<0.0043	<0.0054	0.0097	<0.0034	0.0163	0.0197	<0.0038	0.0253	0.0146	<0.0037	<0.0040	<0.0061	<0.0040	<0.0064	<0.0054	<0.0034	<0.0040
1,3-Dichlorobenzene	mg/kg	<0.0033	<0.0036	<0.0048	<0.0038	<0.0037	<0.0042	<0.0043	<0.0043	<0.0054	<0.0052	<0.0034	<0.0050	<0.0039	<0.0038	<0.0036	<0.0040	<0.0037	<0.0040	<0.0061	<0.0040	<0.0064	<0.0054	<0.0034	<0.0040
1,3-Dichloropropane	mg/kg	<0.0033	<0.0036	<0.0048	<0.0038	<0.0037	<0.0042	<0.0043	<0.0043	<0.0054	<0.0052	<0.0034	<0.0050	<0.0039	<0.0038	<0.0036	<0.0040	<0.0037	<0.0040	<0.0061	<0.0040	<0.0064	<0.0054	<0.0034	<0.0040
1,4-Dichlorobenzene	mg/kg	<0.0033	<0.0036	<0.0048	<0.0038	<0.0037	<0.0042	<0.0043	<0.0043	<0.0054	<0.0052	<0.0034	<0.0050	<0.0039	<0.0038	<0.0036	<0.0040	<0.0037	<0.0040	<0.0061	<0.0040	<0.0064	<0.0054	<0.0034	<0.0040
1,4-Dioxane	mg/kg	<0.0668	<0.0729	<0.0963	<0.0757	<0.0746	<0.0834	<0.0868	<0.0868	<0.107	<0.103	<0.0681	<0.101	<0.0770	<0.0766	<0.0725	<0.0793	<0.0740	<0.0795	<0.121	<0.0798	<0.128	<0.108	<0.0681	<0.0796
2,2-Dichloropropane	mg/kg	<0.0033	<0.0036	<0.0048	<0.0038	<0.0037	<0.0042	<0.0043	<0.0043	<0.0054	<0.0052	<0.0034	<0.0050	<0.0039	<0.0038	<0.0036	<0.0040	<0.0037	<0.0040	<0.0061	<0.0040	<0.0064	<0.0054	<0.0034	<0.0040
2-Butanone	mg/kg	<0.0067	<0.0073	0.0265	<0.0076	<0.0075	<0.0083	<0.0087	<0.0087	<0.0107	<0.0103	<0.0068	<0.0101	0.0086	<0.0077	<0.0072	<0.0079	<0.0074	<0.0079	<0.0121	<0.0080	<0.0128	<0.0108	0.0165	0.0104
2-Chlorotoluene	mg/kg	<0.0033	<0.0036	<0.0048	<0.0038	<0.0037	<0.0042	<0.0043	<0.0043	<0.0054	<0.0052	<0.0034	<0.0050	<0.0039	<0.0038	<0.0036	<0.0040	<0.0037	<0.0040	<0.0061	<0.0040	<0.0064	<0.0054	<0.0034	<0.0040
2-Hexanone	mg/kg	<0.0067	<0.0073	<0.0096	<0.0076	<0.0075	<0.0083	<0.0087	<0.0087	<0.0107	<0.0103	<0.0068	<0.0101	<0.0077	<0.0077	<0.0072	<0.0079	<0.0074	<0.0079	<0.0121	<0.0080	<0.0128	<0.0108	<0.0068	<0.0080
4-Chlorotoluene	mg/kg	<0.0033	<0.0036	<0.0048	<0.0038	<0.0037	<0.0042	<0.0043	<0.0043	<0.0054	<0.0052	<0.0034	<0.0050	<0.0039	<0.0038	<0.0036	<0.0040	<0.0037	<0.0040	<0.0061	<0.0040	<0.0064	<0.0054	<0.0034	<0.0040
4-Isopropyltoluene	mg/kg	<0.0033	<0.0036	<0.0048	<0.0038	<0.0037	<0.0042	<0.0043	<0.0043	<0.0054	0.0074	<0.0034	0.0068	0.007	<0.0038	<0.0036	<0.0040	<0.0037	<0.0040	<0.0061	<0.0040	<0.0064	0.197	0.0119	<0.0040
4-Methyl-2-Pentanone	mg/kg	<0.0067	<0.0073	<0.0096	<0.0076	<0.0075	<0.0083	<0.0087	<0.0087	<0.0107	<0.0103	<0.0068	<0.0101	<0.0077	<0.0077	<0.0072	<0.0079	<0.0074	<0.0079	<0.0121	<0.0080	<0.0128	<0.0108	<0.0068	<0.0080
Acetone	mg/kg	0.0094	0.0086	0.209	0.0528	0.0169	<0.0083	<0.0087	<0.0087	0.0573	<0.0103	0.0144	0.0632	0.0522	0.0095	0.0307	<0.0079	<0.0074	0.013	<0.0121	<0.0080	<0.0128	0.0449	0.136	0.0344
Benzene	mg/kg	<0.0033	<0.0036	<0.0048	<0.0038	<0.0037	<0.0042	<0.0043	<0.0043	<0.0054	<0.0052	<0.0034	0.0337	0.027	<0.0038	0.0119	0.0169	<0.0037	<0.0040	<0.0061	<0.0040	<0.0064	<0.0054	<0.0034	<0.0040
Bromobenzene	mg/kg	<0.0033	<0.0036	<0.0048	<0.0038	<0.0037	<0.0042	<0.0043	<0.0043	<0.0054	<0.0052	<0.0034	<0.0050	<0.0039	<0.0038	<0.0036	<0.0040	<0.0037	<0.0040	<0.0061	<0.0040	<0.0064	<0.0054	<0.0034	<0.0040
Bromochloromethane	mg/kg	<0.0033	<0.0036	<0.0048	<0.0038	<0.0037	<0.0042	<0.0043	<0.0043	<0.0054	<0.0052	<0.0034	<0.0050	<0.0039	<0.0038	<0.0036	<0.0040	<0.0037	<0.0040	<0.0061	<0.0040	<0.0064	<0.0054	<0.0034	<0.0040
Bromodichloromethane	mg/kg	<0.0033	<0.0036	<0.0048	<0.0038	<0.0037	<0.0042	<0.0043	<0.0043	<0.0054	<0.0052	<0.0034	<0.0050	<0.0039	<0.0038	<0.0036	<0.0040	<0.0037	<0.0040	<0.0061	<0.0040	<0.0064	<0.0054	<0.0034	<0.0040
Bromoform	mg/kg	<0.0033	<0.0036	<0.0048	<0.0038	<0.0037	<0.0042	<0.0043	<0.0043	<0.0054	<0.0052	<0.0034	<0.0050	<0.0039	<0.0038	<0.0036	<0.0040	<0.0037	<0.0040	<0.0061	<0.0040	<0.0064	<0.0054	<0.0034	<0.0040
Bromomethane	mg/kg	<0.0067	<0.0073	<0.0096	<0.0076	<0.0075	<0.0083	<0.0087	<0.0087	<0.0107	<0.0103	<0.0068	<0.0101	<0.0077	<0.0077	<0.0072	<0.0079	<0.0074	<0.0079	<0.0121	<0.0080	<0.0128	<0.0108	<0.0068	<0.0080
Carbon Disulfide	mg/kg	<0.0033	<0.0036	0.0306	0.01	<0.0037	<0.0042	<0.0043	<0.0043	<0.0054	<0.0052	<0.0034	0.0158	0.0067	<0.0038	0.0097	0.0052	<0.0037	<0.0040	<0.0061	<0.0040	0.0492	0.0907	0.0094	0.0444
Carbon Tetrachloride	mg/kg	<0.0033	<0.0036	<0.0048	<0.0038	<0.0037	<0.0042	<0.0043	<0.0043	<0.0054	<0.0052	<0.0034	<0.0050	<0.0039	<0.0038	<0.0036	<0.0040	<0.0037	<0.0040	<0.0061	<0.0040	<0.0064	<0.0054	<0.0034	<0.0040
Chlorobenzene	mg/kg	<0.0033	<0.0036	<0.0048	<0.0038	<0.0037	<0.0042	<0.0043	<0.0043	<0.0054	<0.0052	<0.0034	<0.0050	<0.0039	<0.0038	<0.0036	<0.0040	<0.0037	<0.0040	<0.0061	<0.0040	<0.0064	<0.0054	<0.0034	<0.0040
Chloroethane	mg/kg	<0.0067	<0.0073	<0.0096	<0.0076	<0.0075	<0.0083	<0.0087	<0.0087	<0.0107	<0.0103	<0.0068	<0.0101	<0.0077	<0.0077	<0.0072	<0.0079	<0.0074	<0.0079	<0.0121	<0.0080	<0.0128	<0.0108	<0.0068	<0.0080
Chloroform	mg/kg	<0.0033	<0.0036	<0.0048	<0.0038	<0.0037	<0.0042	<0.0043	<0.0043	<0.0054	<0.0052	<0.0034	<0.0050	<0.0039	<0.0038	<0.0036	<0.0040	<0.0037	<0.0040	<0.0061	<0.0040	<0.0064	<0.0054	<0.0034	<0.0040
Chloromethane	mg/kg	<0.0067	<0.0073	<0.0096	<0.0076	<0.0075	<0.0083	<0.0087	<0.0087	<0.0107	<0.0103	<0.0068	<0.0101	<0.0077	<0.0077	<0.0072	<0.0079	<0.0074	<0.0079	<0.0121	<0.0080	<0.0128	<0.0108	<0.0068	<0.0080
cis-1,2-Dichloroethene	mg/kg	<0.0033	<0.0036	<0.0048	<0.0038	<0.0037	<0.0042	<0.0043	<0.0043	<0.0054	<0.0052	<0.0034	<0.0050	<0.0039	<0.0038	<0.0036	<0.0040	<0.0037	<0.0040	<0.0061	<0.0040	<0.0064	<0.0054	<0.0034	<0.0040
cis-1,3-Dichloropropene	mg/kg	<0.0033	<0.0036	<0.0048	<0.0038	<0.0037	<0.0042	<0.0043	<0.0043	<0.0054	<0.0052	<0.0034	<0.0050	<0.0039	<0.0038	<0.0036	<0.0040	<0.0037	<0.0040	<0.0061	<0.0040	<0.0064	<0.0054	<0.0034	<0.0040
Dibromochloromethane	mg/kg	<0.0013	<0.0015	<0.0019	<0.0015	<0.0015	<0.0017	<0.0017	<0.0017	<0.0021	<0.0021	<0.0014	<0.0020	<0.0015	<0.0015	<0.0014	<0.0016	<0.0015	<0.0016	<0.0024	<0.0016	<0.0026	<0.0022	<0.0014	<0.0016
Dibromomethane	mg/kg	<0.0033	<0.0036	<0.0048	<0.0038	<0.0037	<0.0042	<0.0043	<0.0043	<0.0054	<0.0052	<0.0034	<0.0050	<0.0039	<0.0038	<0.0036	<0.0040	<0.0037	<0.0040	<0.0061	<0.0040	<0.0064	<0.0054	<0.0034	<0.0040
Dichlorodifluoromethane	mg/kg	<0.0067	<0.0073	<0.0096	<0.0076	<0.0075	<0.0083	<0.0087	<0.0087	<0.0107	<0.0103	<0.0068	<0.0101	<0.0077	<0.0077	<0.0072	<0.0079	<0.0074	<0.0079	<0.0121	<0.0080	<0.0128	<0.0108	<0.0068	<0.0080
Diethyl Ether	mg/kg	<0.0033	<0.0036	<0.0048	<0.0038	<0.0037	<0.0042	<0.0043	<0.0043	<0.0054	<0.0052	<0.0034	<0.0050	<0.0039	<0.0038	<0.0036	<0.0040	<0.0037	<0.0040	<0.0061	<0.0040	<0.0064	<0.0054	<0.0034	<0.0040
Di-isopropyl ether	mg/kg	<0.0033	<0.0036	<0.0048	<0.0038	<0.0037	<0.0042	<0.0043	<0.0043	<0.0054	<0.0052	<0.0034	<0.0050	<0.0039	<0.0038	<0.0036	<0.0040	<0.0037	<0.0040	<0.0061	<0.0040	<0.0064	<0.0054	<0.0034	<0.0040
Ethyl tertiary-butyl ether	mg/kg	<0.0033	<0.0036	<0.0048	<0.0038	<0.0037	<0.0042	<0.0043	<0.0043	<0.0054	<0.0052	<0.0034	<0.0050	<0.0039	<0.0038	<0.0036	<0.0040	<0.0037	<0.0040	<0.0061	<0.0040	<0.0064	<0.0054	<0.0034	<0.0040
Ethylbenzene	mg/kg	<0.0033	<0.0036	<0.0048	<0.0038	<0.0037	<0.0042	<0.0043	<0.0043	<0.0054	0.0084	<0.0034	0.0321	0.0282	<0.0038	0.0198	0.0231	<0.0037	<0.0040	<0.0061	<0.0040	<0.0064	<0.0054	<0.0034	<0.0040
Hexachlorobutadiene	mg/kg	<0.0033	<0.0036	<0.0048	<0.0038	<0.0037	<0.0042	<0.0043	<0.0043	<0.0054	<0.0052	<0.0034	<0.0050	<0.0039	<0.0038	<0.0036	<0.0040	<0.0037	<0.0040	<0.0061	<0.0040	<0.0064	<0.0054	<0.0034	<0.0040
Isopropylbenzene	mg/kg	<0.0033	<0.0036	<0.0048	<0.0038	<0.0037	<0.0042	<0.0043	<0.0043	<0.0054	<0.0052	<0.0034	<0.0050	<0.0039	<0.0038	<0.0036	<0.0040	<0.0037	<0.0040	<0.0061	<0.0040	<0.0064	<0.0054	<0.0034	<0.0040
Methyl tert-Butyl Ether	mg/kg	<0.0033	<0.0036	<0.0048	<0.0038	<0.0037	<0.0042	<0.0043	<0.0043	<0.0054	<0.0052	<0.0034	<0.0050	<0.0039	<0.0038	<0.0036	<0.0040	<0.0037	<0.0040	<0.0061	<0.0040	<0.0064	<0.0054	<0.0034	<0.0040
Methylene Chloride	mg/kg	<0.0067	<0.0073	<0.0096	<0.0076	<0.0075	<0.0083	<0.0087	<0.0087	<0.0107	<0.0103	<0.0068	<0.0101	<0.0077	<0.0077	<0.0072	<0.0079	<0.0074	<0.0079	<0.0121	<0.0080	<0.0128	<0.0108	<0.0068	<0.0080
Naphthalene	mg/kg	<0.0033	<0.0036	<0.0048	0.0085	<0.0037	<0.0042	<0.0043	<0.0043	<0.0054	0.886	0.0336	0.953

Table 1
Soil Precharacterization Data

Wynn Resort Casino
Everett, Massachusetts

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	B18 B18S07BS09A 1501196 Fill 13.3 - 16.6 1/12/2015	B18 B18S09B 1501196 Fill 16.6 - 18 1/12/2015	B18 B18S10 1501196 Natural Organics 18 - 20 1/12/2015	B18 B18S11 1501196 Natural Organics 24 - 26 1/12/2015	B18 B18S12 1501196 Natural Clay 29 - 31 1/12/2015	B18 B18S13S14 1501196 Natural Clay 34 - 38 1/12/2015	B19 GZ020S01S02A 1502332 Fill 0 - 3.3 2/23/2015	B19 GZ020S02BS04A 1502332 Fill 3.3 - 6.6 2/23/2015	B19 GZ020S04BS05 1502332 Fill 6.6 - 10 2/23/2015	B19 GZ020S06S07A 1502332 Fill 10 - 13.3 2/23/2015	B19 GZ020S07BS08A 1502332 Fill 13.3 - 15 2/23/2015	B19 GZ020S08BS09 1502332 Natural Organics 15 - 18 2/23/2015	B19 GZ020S11 1502332 Natural Organics 21 - 23 2/23/2015	B19 GZ020S13 1502332 Natural Organics 25 - 27 2/23/2015	B19 GZ020S15 1502370 Natural Organics 29 - 31 2/25/2015	B19 GZ020S16S17 1502370 Natural Organics 31 - 35 2/25/2015	B20 B20S01S02A 1412501 Fill 0 - 3.3 12/23/2014	B20 B20S02BS04A 1412501 Fill 3.3 - 6.6 12/23/2014	B20 B20S04BS05 1412501 Fill 6.6 - 10 12/23/2014	B20 B20S06S07A 1501030 Fill 10 - 13 1/5/2015	B20 B20S07B 1501030 Natural Organics 13 - 18 1/5/2015	B20 B20S08 1501030 Natural Organics 18 - 23 1/5/2015	B20 B20S09 1501030 Natural Organics 23 - 28 1/5/2015	B20 B20S10 1501030 Natural Organics 28 - 33 1/5/2015
Preliminary Disposal Facility Category		Hazardous Material Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type B-1	Hazardous Material Type B	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Material Type B-2	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A
Styrene	mg/kg	<0.0033	<0.0036	<0.0048	<0.0038	<0.0037	<0.0042	<0.0043	<0.0043	<0.0054	<0.0052	<0.0034	<0.0050	<0.0039	<0.0038	<0.0036	<0.0040	<0.0037	<0.0040	<0.0061	<0.0040	<0.0064	<0.0054	<0.0034	<0.0040
tert-Butylbenzene	mg/kg	<0.0033	<0.0036	<0.0048	<0.0038	<0.0037	<0.0042	<0.0043	<0.0043	<0.0054	<0.0052	<0.0034	<0.0050	<0.0039	<0.0038	<0.0036	<0.0040	<0.0037	<0.0040	<0.0061	<0.0040	<0.0064	<0.0054	<0.0034	<0.0040
Tertiary-amyl methyl ether	mg/kg	<0.0033	<0.0036	<0.0048	<0.0038	<0.0037	<0.0042	<0.0043	<0.0043	<0.0054	<0.0052	<0.0034	<0.0050	<0.0039	<0.0038	<0.0036	<0.0040	<0.0037	<0.0040	<0.0061	<0.0040	<0.0064	<0.0054	<0.0034	<0.0040
Tetrachloroethene	mg/kg	<0.0033	<0.0036	<0.0048	<0.0038	<0.0037	<0.0042	<0.0043	<0.0043	<0.0054	<0.0052	<0.0034	<0.0050	<0.0039	<0.0038	<0.0036	<0.0040	<0.0037	<0.0040	<0.0061	<0.0040	<0.0064	<0.0054	<0.0034	<0.0040
Tetrahydrofuran	mg/kg	<0.0033	<0.0036	<0.0048	<0.0038	<0.0037	<0.0042	<0.0043	<0.0043	<0.0054	<0.0052	<0.0034	<0.0050	<0.0039	<0.0038	<0.0036	<0.0040	<0.0037	<0.0040	<0.0061	<0.0040	<0.0064	<0.0054	<0.0034	<0.0040
Toluene	mg/kg	<0.0033	<0.0036	<0.0048	<0.0038	<0.0037	<0.0042	<0.0043	<0.0043	<0.0054	<0.0052	<0.0034	0.0692	0.0443	<0.0038	0.0261	0.0369	<0.0037	<0.0040	<0.0061	<0.0040	<0.0064	<0.0054	<0.0034	<0.0040
trans-1,2-Dichloroethene	mg/kg	<0.0033	<0.0036	<0.0048	<0.0038	<0.0037	<0.0042	<0.0043	<0.0043	<0.0054	<0.0052	<0.0034	<0.0050	<0.0039	<0.0038	<0.0036	<0.0040	<0.0037	<0.0040	<0.0061	<0.0040	<0.0064	<0.0054	<0.0034	<0.0040
trans-1,3-Dichloropropene	mg/kg	<0.0033	<0.0036	<0.0048	<0.0038	<0.0037	<0.0042	<0.0043	<0.0043	<0.0054	<0.0052	<0.0034	<0.0050	<0.0039	<0.0038	<0.0036	<0.0040	<0.0037	<0.0040	<0.0061	<0.0040	<0.0064	<0.0054	<0.0034	<0.0040
Trichloroethene	mg/kg	<0.0033	<0.0036	<0.0048	<0.0038	<0.0037	<0.0042	<0.0043	<0.0043	<0.0054	<0.0052	<0.0034	<0.0050	<0.0039	<0.0038	<0.0036	<0.0040	<0.0037	<0.0040	<0.0061	<0.0040	<0.0064	<0.0054	<0.0034	<0.0040
Trichlorofluoromethane	mg/kg	<0.0033	<0.0036	<0.0048	<0.0038	<0.0037	<0.0042	<0.0043	<0.0043	<0.0054	<0.0052	<0.0034	<0.0050	<0.0039	<0.0038	<0.0036	<0.0040	<0.0037	<0.0040	<0.0061	<0.0040	<0.0064	<0.0054	<0.0034	<0.0040
Vinyl Chloride	mg/kg	<0.0067	<0.0073	<0.0096	<0.0076	<0.0075	<0.0083	<0.0087	<0.0087	<0.0107	<0.0103	<0.0068	<0.0101	<0.0077	<0.0077	<0.0072	<0.0079	<0.0074	<0.0079	<0.0121	<0.0080	<0.0128	<0.0108	<0.0068	<0.0080
Xylene O	mg/kg	<0.0033	<0.0036	<0.0048	<0.0038	<0.0037	<0.0042	<0.0043	<0.0043	<0.0054	0.0081	<0.0034	0.0687	0.0417	<0.0038	0.0225	0.0262	<0.0037	<0.0040	<0.0061	<0.0040	<0.0064	<0.0054	<0.0034	<0.0040
Xylene P,M	mg/kg	<0.0067	<0.0073	<0.0096	<0.0076	<0.0075	<0.0083	<0.0087	<0.0087	<0.0107	0.0107	<0.0068	0.0997	0.0638	<0.0077	0.0507	0.0598	<0.0074	<0.0079	<0.0121	<0.0080	<0.0128	<0.0108	<0.0068	<0.0080
Xylenes (Total)	mg/kg	<0.0067	<0.0073	<0.0096	<0.0076	<0.0075	<0.0083	<0.0087	<0.0087	<0.0107	0.0188	<0.0068	0.168	0.106	<0.0077	0.0732	0.086	<0.0074	<0.0079	<0.0121	<0.0080	<0.0128	<0.0108	<0.0068	<0.0080
Total VOCs (Low Level)	mg/kg	0.0094	0.0086	0.2661	0.0713	0.0169	ND	ND	ND	0.0573	0.964	0.048	1.5593	1.1936	0.2145	0.8827	0.9873	ND	0.013	ND	ND	0.0561	0.3326	0.1738	0.0892
Semi-Volatile Organic Compounds																									
1,2,4-Trichlorobenzene	mg/kg	<0.882	<0.919	<1.14	<1.01	<1.03	<0.993	<3.37	<3.83	<0.888	<4.69	<0.905	<4.74	<0.995	<0.941	<1.07	<0.966	<0.828	<1.02	<1.08	<1.10	<1.34	<1.22	<1.08	<1.00
1,2-Dichlorobenzene	mg/kg	<0.882	<0.919	<1.14	<1.01	<1.03	<0.993	<3.37	<3.83	<0.888	<4.69	<0.905	<4.74	<0.995	<0.941	<1.07	<0.966	<0.828	<1.02	<1.08	<1.10	<1.34	<1.22	<1.08	<1.00
1,3-Dichlorobenzene	mg/kg	<0.882	<0.919	<1.14	<1.01	<1.03	<0.993	<3.37	<3.83	<0.888	<4.69	<0.905	<4.74	<0.995	<0.941	<1.07	<0.966	<0.828	<1.02	<1.08	<1.10	<1.34	<1.22	<1.08	<1.00
1,4-Dichlorobenzene	mg/kg	<0.442	<0.461	<0.570	<0.505	<0.517	<0.498	<1.69	<1.92	<0.445	<2.35	<0.454	<2.38	<0.499	<0.472	<0.536	<0.484	<0.415	<0.509	<0.539	<0.551	<0.670	<0.614	<0.540	<0.501
2,4,5-Trichlorophenol	mg/kg	<0.882	<0.919	<1.14	<1.01	<1.03	<0.993	<3.37	<3.83	<0.888	<4.69	<0.905	<4.74	<0.995	<0.941	<1.07	<0.966	<0.828	<1.02	<1.08	<1.10	<1.34	<1.22	<1.08	<1.00
2,4,6-Trichlorophenol	mg/kg	<0.882	<0.919	<1.14	<1.01	<1.03	<0.993	<3.37	<3.83	<0.888	<4.69	<0.905	<4.74	<0.995	<0.941	<1.07	<0.966	<0.828	<1.02	<1.08	<1.10	<1.34	<1.22	<1.08	<1.00
2,4-Dichlorophenol	mg/kg	<0.882	<0.919	<1.14	<1.01	<1.03	<0.993	<3.37	<3.83	<0.888	<4.69	<0.905	<4.74	<0.995	<0.941	<1.07	<0.966	<0.828	<1.02	<1.08	<1.10	<1.34	<1.22	<1.08	<1.00
2,4-Dimethylphenol	mg/kg	<0.882	<0.919	<1.14	<1.01	<1.03	<0.993	<3.37	<3.83	<0.888	<4.69	<0.905	<4.74	1.53	<0.941	<1.07	<0.966	<0.828	<1.02	<1.08	<1.10	<1.34	<1.22	<1.08	<1.00
2,4-Dinitrophenol	mg/kg	<4.42	<4.61	<5.70	<5.05	<5.17	<4.98	<16.9	<19.2	<4.45	<23.5	<4.54	<23.8	<4.99	<4.72	<5.36	<4.84	<4.15	<5.09	<5.39	<5.51	<6.70	<6.14	<5.40	<5.01
2,4-Dinitrotoluene	mg/kg	<0.882	<0.919	<1.14	<1.01	<1.03	<0.993	<1.69	<1.92	<0.888	<2.35	<0.905	<2.38	<0.995	<0.941	<1.07	<0.966	<0.828	<1.02	<1.08	<1.10	<1.34	<1.22	<1.08	<1.00
2,6-Dinitrotoluene	mg/kg	<0.882	<0.919	<1.14	<1.01	<1.03	<0.993	<3.37	<3.83	<0.888	<4.69	<0.905	<4.74	<0.995	<0.941	<1.07	<0.966	<0.828	<1.02	<1.08	<1.10	<1.34	<1.22	<1.08	<1.00
2-Chloronaphthalene	mg/kg	<0.882	<0.919	<1.14	<1.01	<1.03	<0.993	<3.37	<3.83	<0.888	<4.69	<0.905	<4.74	<0.995	<0.941	<1.07	<0.966	<0.828	<1.02	<1.08	<1.10	<1.34	<1.22	<1.08	<1.00
2-Chlorophenol	mg/kg	<0.882	<0.919	<1.14	<1.01	<1.03	<0.993	<3.37	<3.83	<0.888	<4.69	<0.905	<4.74	<0.995	<0.941	<1.07	<0.966	<0.828	<1.02	<1.08	<1.10	<1.34	<1.22	<1.08	<1.00
2-Methylnaphthalene	mg/kg	<0.882	<0.919	<1.14	<1.01	<1.03	<0.993	<3.37	<3.83	1.44	<4.69	<0.905	<4.74	<0.995	<0.941	<1.07	<0.966	<0.828	<1.02	<1.08	<1.10	<1.34	<1.22	<1.08	<1.00
2-Methylphenol	mg/kg	<0.882	<0.919	<1.14	<1.01	<1.03	<0.993	<3.37	<3.83	<0.888	<4.69	<0.905	<4.74	<0.995	<0.941	<1.07	<0.966	<0.828	<1.02	<1.08	<1.10	<1.34	<1.22	<1.08	<1.00
2-Nitrophenol	mg/kg	<0.882	<0.919	<1.14	<1.01	<1.03	<0.993	<3.37	<3.83	<0.888	<4.69	<0.905	<4.74	<0.995	<0.941	<1.07	<0.966	<0.828	<1.02	<1.08	<1.10	<1.34	<1.22	<1.08	<1.00
3,3´-Dichlorobenzidine	mg/kg	<1.77	<1.84	<2.28	<2.02	<2.07	<1.99	<6.75	<7.67	<1.78	<9.39	<1.81	<9.50	<1.99	<1.88	<2.14	<1.93	<1.66	<2.03	<2.15	<2.20	<2.68	<2.45	<2.16	<2.00
3+4-Methylphenol	mg/kg	<1.77	<1.84	6.2	<2.02	<2.07	<1.99	<6.75	<7.67	<1.78	<9.39	<1.81	<9.50	<1.99	<1.88	<2.14	<1.93	<1.66	<2.03	<2.15	<2.20	<2.68	<2.45	<2.16	<2.00
4-Bromophenyl-phenylether	mg/kg	<0.882	<0.919	<1.14	<1.01	<1.03	<0.993	<3.37	<3.83	<0.888	<4.69	<0.905	<4.74	<0.995	<0.941	<1.07	<0.966	<0.828	<1.02	<1.08	<1.10	<1.34	<1.22	<1.08	<1.00
4-Chloroaniline	mg/kg	<1.77	<1.84	<2.28	<2.02	<2.07	<1.99	<1.69	<1.92	<1.78	<2.35	<1.81	<2.38	<1.99	<1.88	<2.14	<1.93	<1.66	<2.03	<2.15	<2.20	<2.68	<2.45	<2.16	<2.00
4-Nitrophenol	mg/kg	<4.42	<4.61	<5.70	<5.05	<5.17	<4.98	<16.9	<19.2	<4.45	<23.5	<4.54	<23.8	<4.99	<4.72	<5.36	<4.84	<4.15	<5.09	<5.39	<5.51	<6.70	<6.14	<5.40	<5.01
Acenaphthene	mg/kg	<0.882	<0.919	<1.14	<1.01	<1.03	<0.993	<3.37	<3.83	<0.888	<4.69	<0.905	<4.74	<0.995	1.82	<1.07	<0.966	<0.828	<1.02	<1.08	<1.10	<1.34	<1.22	<1.08	<1.00
Acenaphthylene	mg/kg	<0.882	<0.919	<1.14	<1.01	<1.03	<0.993	<3.37	<3.83	<0.888	<4.69	<0.905	<4.74	<0.995	<0.941	<1.07	<0.966	<0.828	<1.02	<1.08	<1.10	<1.34	<1.22	<1.08	<1.00
Acetophenone	mg/kg	<1.77	<1.84	<2.28	<2.02	<2.07	<1.99	<6.75	<7.67	<1.78	<9.39	<1.81	<9.50	<1.99	<1.88	<2.14	<1.93	<1.66	<2.03	<2.15	<2.20	<2.68	<2.45	<2.16	<2.00
Aniline	mg/kg	<4.42	<4.61	<5.70	<5.05	<5.17	<4.98	<16.9	<19.2	<4.45	<23.5	<4.54	<23.8	<4.99	<4.72	<5.36	<4.84	<4.15	<5.09	<5.39	<5.51	<6.70	<6.14	<5.40	<5.01
Anthracene	mg/kg	<0.882	<0.919	<1.14	<1.01	<1.03	<0.993	<3.37	<3.83	<0.888	<4.69	<0.905	<4.74	<0.995	<0.941	<1.07	<0.966	<0.828	<1.02	<1.08	<1.10	<1.34	<1.22	<1.08	<1.00
Azobenzene	mg/kg	<0.882	<0.919	<1.14	<1.01	<1.03	<0.993	<3.37	<3.83	<0.888	<4.69	<0.905	<4.74	<0.995	<0.941	<1.07	<0.966	<0.828	<1.02	<1.08	<1.10	<1.34	<1.22	<1.08	<1.00
Benzo(a)anthracene	mg/kg	<0.882	<0.919	<1.14	<1.01	<1.03	<0.993	<3.37	<3.83	<0.888	<4.69	<0.905	<4.74	<0.995	<0.941	<1.07	<0.966	<0.828	<1.02	<1.08	<1.10	<1.34	<1.22	<1.08	<1.00
Benzo(a)pyrene	mg/kg	0.577	<0.461	<0.570	<0.505	<0.517	<0.498	<1.69	<1.92	<0.445	<2.35	<0.454	<2.38	<0.499	<0.472	<0.536	<0.484	<0.415	<0.509	<0.539	<0.551	<0.670	<0.614	<0.540	<0.501
Benzo(b)fluoranthene	mg/kg	<0.882	<0.919	<1.14	<1.01	<1.03	<0.993	<3.37	<3.83	<0.888	<4.69	<0.905	<4.74	<0.995	<0.941	<1.07	<0.966	<0.828	<1.02	<1.08	<1.10	<1.34	<1.22	<1.08	<1.00
Benzo(g,h,i)perylene	mg/kg	<0.882	<0.919	<1.14	<1.01	<1.03	<0.993	<3.37	<3.83	<0.888	<4.69	<0.905	<4.74	<0.995	<0.941	<1.07	<0.966	<0.828	<1.02	<1.08	<1.10	<1.34	<1.22	<1.08	<1.00
Benzo(k)fluoranthene	mg/kg	<0.882	<0.919	<1.14	<1.01	<1.03	<0.993	<3.37	<3.83	<0.888	<4.69	<0.905	<4.74	<0.995	<0.941	<1.07	<0.966	<0.828	<1.02	<1.08	<1.10	<1.34	<1.22	<1.08	<1.00
bis(2-Chloroethoxy)methane	mg/kg	<0.882	<0.919	<1.14	<1.01	<1.03	<0.993	<3.37	<3.83	<0.888	<4.69	<0.905	<4.74	<0.995	<0.941	<1.07	<0.966	<0.828	<1.02	<1.08	<1.10	<1.34	<1.22	<1.08	<1.00
bis(2-Chloroethyl)ether	mg/kg	<0.442	<0.461	<0.570	<0.505	<0.517	<0.498	<0.334	<0.379	<0.445	<0.465	<0.454	<0.470	<0.499	<0.093	<0.536	<0.484	<0.415	<0.509	<0.539	<0.551	<0.670	<0.614	<0.540	<0.501
bis(2-chloroisopropyl)Ether	mg/kg	<0.442	<0.461	<0.570	<0.505	<0.517	<0.498	<0.334	<0.379	<0.445	<0.465	<0.454	<0.470	<0.499	<0.472	<0.536	<0.484	<0.415	<0.509	<0.539	<0.551	<0.670	<0.614	<0.540	<0.501
bis(2-Ethylhexyl)phthalate	mg/kg	<0.882	<0.919	<1.14	<1.01	<1.03	<0.993	<3.37	<3.83	<0.888	<4.69	<0.905	<4.74	<0.995	<0.941	<1.07	<0.966	<0.828	37.5	2.99	<1.10	<1.34	<1.22	<1.08	<1.00
Butylbenzylphthalate	mg/kg	<0.882	<0.919	<1.14	<1.01	<1.03	<0.993	<3.37	<3.83	<0.888	<4.69	<0.905	<4.74	<0.995	<0.941	<1.07	<0.966	<0.828	<1.02	<1.08	<1.10	<1.34	<1.22	<1.08	<1.00
Chrysene	mg/kg	0.65	<0.461	<0.570	<0.505	<0.517	<0.498	2.06	<1.92	<0.445	<2.35	0.718	<2.38	<0.499	<0.472	<0.536	<0.484	<0.415	0.576	<0.539	<0.551	<0.670	<0.614	<0.540	<0.501
Dibenzo(a,h)Anthracene	mg/kg	<0.442	<0.461	<0.570	<0.505	<0.517	<0.498	<1.69	<1.92	<0.445	<2.35	<0.454	<2.38	<0.499	<0.472	<0.536	<0.484	<0.415	<0.509	<0.539	<0.551	<0.670	<0.614	<0.540	<0.501
Dibenzofuran	mg/kg	<0.882	<0.919	<1.14	<1.01	<1.03	<0.993	<3.37	<3.83	<0.888	<4.69	<0.905	<4.74	<0.995	1.74	<1.07	<0.966	<0.828	<1.02	<1.08	<1.10	<1.34	<1.22	<1.08	<1.00
Diethylphthalate	mg/kg	<0.882	<0.919	<1.14	<1.01	<1.03	<0.993	<3.37	<3.83	<0.888	<4.69	<0.905	<4.74	<0.995	<0.941	<1.07	<0.966	<0.828	<1.02	<1.08	<1.10	<1.34	<1.22	<1.08	<1.00
Dimethylphthalate	mg/kg	<0.882	<0.919	<1.14	<1.01	<1.03	<0.993	<3.37	<3.83	<0.888	<4.69	<0.905	<4.74	<0.995	<0.941	<1.07	<0.966	<0.828	<1.02	<1.08	<1.10	<1.34	<1.22	<1.08	<1.00
Di-n-butylphthalate	mg/kg	<0.882	<0.919	<1.14	<1.01	<1.03	<0.993	<3.37	<3.83	<0.888	<4.69	<0.905	<4.74	<0.995	<0.941	<1.07	<0.966	<0.828	<1.02	<1.08	<1.10	<1.34	<1.22	<1.08	<1.00
Di-n-octylphthalate	mg/kg	<0.882	<0.919	<1.14	<1.01	<1.03	<0.993	<3.37	<3.83	<0.888	<4.69	<0.905	<4.74	<0.995	<0.941	<1.07	<0.966	<0.828	<1.02	<1.08	<1.10	<1.34	<1.22	<1.08	<1.00
Fluoranthene	mg/kg	1.74	<0.919	<1.14	<1.01	<1.03	<0.993	4.84	<3.83	<0.888	<4.69	3.32	<4.74	<0.995	2.34	<1.07	<0.966	<0.828	1.05	<1.08	<1.10	<1.34	<1.22	<1.08	<1.00
Fluorene	mg/kg	<0.882	<0.919	<1.14	<1.01	<1.03	<0.993	<3.37	<3.83	<0.888	<4.69	<0.905	<4.74	<0.995	1.73	<1.07	<0.966	<0.828	<1.02	<1.08	<1.10	<1.34	<1.22	<1.08	<1.00
Hexachlorobenzene	mg/kg	<0.442	<0.461	<0.570	<0.505	<0.517	<0.498	<1.69	<1.92	<0.445	<2.35	<0.454	<2.38	<0.499	<0.472	<0.536	<0.484	<0.415	<0.509	<0.539	<0.551	<0.670	<0.614	<0.540	<0.501
Hexachlorobutadiene	mg/kg	<0.882	<0.919	<1.14	<1.01	<1.03	<0.993	<3.37	<3.83	<0.888	<4.69	<0.905	<4.74	<0.995	<0.941	<1.07	<0.966	<0.828	<1.02	<1.08	<1.10	<1.34	<1.22	<1.08	<1.00
Hexachloroethane	mg/kg	<0.882	<0.919	<1.14	<1.01	<1.03	<0.993	<1.69	<1.92	<0.888	<2.35	<0.905	<2.38	<0.995	<0.941	<1.07	<0.966	<0.828	<1.02	<1.08	<1.10	<1.34	<1.22	<1.08	<1.00
Indeno(1,2,3-cd)Pyrene	mg/kg	<0.882	<0.919	<1.14	<1.01	<1.03	<0.993	<3.37	<3.83	<0.888	<4.69	<0.905	<4.74	<0.995	<0.941	<1.07	<0.966	<0.828	<1.02	<1.08	<1.10	<1.34	<1.22	<1.08	<1.00
Isophorone	mg/kg	<0.882	<0.919	<1.14	<1.01	<1.03	<0.993	<3.37	<3.83	<0.888	<4.69	<0.905	<4.74	<0.995	<0.941	<1.07	<0.966	<0.828	<1.02	<1.08	<1.10	<1.34	<1.22	<1.08	<1.00
Naphthalene	mg/kg	<0.882	<0.919	<1.14	<1.01	<1.03	<0.993	<3.37	<3.83	<0.888	7.81	<0.905	6.99	10.1	<0.941	21.9	5.1	<0.828	<1.02	<1.08	<1.10	<1.34	<1.22	<1.08	<1.00
Nitrobenzene	mg/kg	<0.882	<0.919	<1.14	<1.01	<1.03	<0.993	<3.37	<3.83	<0.888	<4.69	<0.905	<4.74	<0.995	<0.941	<1.07	<0.966	<0.828	<1.02	<1.08	<1.10	<1.34	<1.22	<1.08	<1.00
N-Nitrosodimethylamine	mg/kg	<0.882	<0.919	<1.14	<1.01	<1.03	<0.993	<3.37	<3.83	<0.888	<4.69	<0.905	<4.74	<0.995	<0.941	<1.07	<0.966	<0.828	<1.02	<1.08	<1.10	<1.34	<1.22	<1.08	<1.00
Pentachlorophenol	mg/kg	<4.42	<4.61	<5.70	<5.05	<5.17	<4.98	<3.37	<3.83	<4.45	<4.69	<4.54	<4.74	<4.99	<4.72	<5.36	<4.84	<4.15	<5.09	<5.39	<5.51	<6.70	<6.14	<5.40	<5.01
Phenanthrene	mg/kg	1.3	<0.919	<1.14	<1.01	<1.03	<0.993	4.49	<3.83	<0.888	<4.69	<0.905	<4.74	<0.995	4.95	<1.07	<0.966	<0.828	1.48	<1.08	<1.10	<1.34	<1.22	<1.08	<1.00
Phenol	mg/kg	<0.882	<0.919	<1.14	<1.01	<1.03	<0.993	<3.37	<3.83	<0.888	<4.69	<0.905	<4.74	<0.995	<0.941	<1.07	<0.966	<0.828	<1.02	<1.08	<1.10	<1.34	<1.22	<1.08	<1.00
Pyrene	mg/kg	1.27	<0.919	<1.14	<1.01	<1.03	<0.993	<3.37	<3.83	<0.888	<4.69	1.86	<4.74	<0.995	1.24	<1.07	<0.966	<0.828	<1.02	<1.08	<1.10	<1.34	<1.22	<1.08	<1.00
Total SVOCs	mg/kg	5.537	ND	6.2	ND	ND	ND	11.39	ND	1.44	7.81	5.898	6.99	11.63	13.82	21.9	5.1	ND	40.606	2.99	ND	ND	ND	ND	ND
Classic Chemistry																									
Corrosivity (pH)	S.U.	8.02	6.9	5.01	4.03	5.61	7.46	7.7	7.42	8.58	6.09	8.47	4.38	4.8	6.83	7.02	6.86	8.1	11.1	10	6.97	5.82	3.45	4.4	3.83
Conductivity	umhos/cm	147	523	12000	1400	3930	2730	544	1030	1820	1290	890	947	3370	3380	770	1780	691	1520	1330	1450	235	1520	1000	1660
Flashpoint	°F	>200	>200	--	--	--	--	>200	>200	>200	>200	>200	--	--	--	--	>200	>200	>200	>200	>200	--	--	--	--
Reactive Cyanide	mg/kg	<2.0	<2.0	--	--	--	--	<2.0	<2.0	<2.0	<2.0	<2.0	--	--	--	--	<2.0	<2.0	<2.0	<2.0	<2.0	--	--	--	--
Reactive Sulfide	mg/kg	<2.0	<2.0	--	--	--	--	<2.0	<2.0	<2.0	<2.0	<2.0	--	--	--	--	<2.0	<2.0	<2.0	<2.0	<2.0	--	--	--	--

Analyte	Precharacterization Cell	B20	B20	B21	B21	B21	B21	B21	B21	B21	B21	B21	B21	B22	B22	B22	B22	B22	B22	B22	B22	B22	B22	B23
	Sample ID	B20S11	B20S12	B21S01S02A	B21S02BS04A	B21S04BS05	B21S06	B21S08	B21S09	B21S10	B21S11	B21S12	B21S13	B22S01S02A	B22S02BS04A	B22S04BS05	B22S07	B22S08	B22S09	B22S10	B22S11	B22S12	B22S13	B22S14	B23S01S02A
	Laboratory Work Order	1501030	1501030	1412472	1412501	1412501	1412501	1412501	1412501	1412501	1412501	1412501	1412501	1412472	1412472	1412472	1412472	1412472	1412472	1412472	1412472	1412472	1412472	1412438
	Soil Distinction	Natural	Natural	Fill	Fill	Fill	Natural	Natural	Natural	Organics	Organics	Natural	Organics	Fill	Fill	Fill	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Fill
	Soil Type	Sand/Gravel	Sand/Gravel				Organics	Organics	Organics			Organics	Sand/Gravel				Organics	Organics	Organics	Organics	Organics	Organics	Organics	Organics	
	Depth Interval (ft.)	33 - 38	38 - 40	0 - 3.3	3.3 - 6.6	6.6 - 10	10 - 14	14 - 19	19 - 24	24 - 29	29 - 34	34 - 39	39 - 41	0 - 3.3	3.3 - 6.6	6.6 - 10	10 - 14	14 - 19	19 - 24	24 - 29	29 - 34	34 - 39	39 - 44	44 - 46	0 - 3.3
	Sampling Date	1/5/2015	1/5/2015	12/22/2014	12/23/2014	12/23/2014	12/23/2014	12/23/2014	12/23/2014	12/23/2014	12/23/2014	12/23/2014	12/23/2014	12/22/2014	12/22/2014	12/22/2014	12/22/2014	12/22/2014	12/22/2014	12/22/2014	12/22/2014	12/22/2014	12/22/2014	12/22/2014	12/19/2014
Preliminary Disposal Facility Category		MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type B	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Uncontaminated	MCP Regulated Type A
RCRA 8 Metals	**Units**																							
Arsenic	mg/kg	2.93	<2.79	8.28	79.4	32.9	26	30.1	5.16	5.16	<2.58	3.02	3.05	8.81	46.9	40.5	14.9	8.62	15.3	4.1	<2.65	<2.90	5.98	<2.27	8.69
Barium	mg/kg	8.79	12.6	57.7	130	565	43.3	27.7	22.9	24.3	8.64	15.9	18.7	28.9	260	539	18.7	19.5	20.9	13.3	11.4	11.5	13.4	6.02	21.8
Cadmium	mg/kg	<0.53	<0.56	<0.55	2.05	0.88	1.48	2.37	<0.60	<0.49	<0.52	<0.48	<0.40	<0.46	1.39	0.66	0.57	<0.54	<0.64	<0.47	<0.53	<0.58	<0.52	<0.45	<1.00
Chromium	mg/kg	8.64	2.08	20	21.9	5.51	22.6	28.3	22.4	22.2	9.68	14.5	23.1	16.5	25	6.52	3.1	18.4	16.5	13	11.7	11	10.6	4.19	19.5
Lead	mg/kg	<5.34	6.72	65.7	3270	2010	131	81.9	7.96	6.64	<5.15	<4.80	<4.02	36.1	1120	4060	250	18.5	81.7	7.65	<5.30	<5.79	<5.15	<4.54	21.3
Selenium	mg/kg	<10.7	<11.1	<11.0	17.8	<14.0	<12.8	<12.0	<12.1	<9.87	<10.3	<9.59	<8.05	<9.28	72.5	21.6	19.2	<10.8	<12.8	<9.41	<10.6	<11.6	<10.3	<9.07	<10.0
Silver	mg/kg	<0.53	<0.56	<0.55	6.45	13.6	<0.64	<0.60	<0.60	<0.49	<0.52	<0.48	<0.40	<0.46	2.27	2.99	<0.55	<0.54	<0.64	<0.47	<0.53	<0.58	<0.52	<0.45	<0.50
Mercury	mg/kg	<0.036	<0.034	0.175	12.7	12.6	1.05	0.354	<0.046	<0.042	<0.041	<0.044	<0.034	0.099	15.8	43.9	2.74	0.134	0.185	<0.040	<0.039	<0.043	<0.037	<0.036	0.092
Metals by Toxicity Characteristic Leaching Procedure (TCLP)																									
Arsenic	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead	mg/L	--	--	--	5.13	0.126	0.146	--	--	--	--	--	--	--	0.333	0.321	0.868	--	--	--	--	--	--	--	--
Selenium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.050	<0.050	--	--	--	--	--	--	--	--	--
Mercury	mg/L	--	--	--	<0.00050	<0.00050	--	--	--	--	--	--	--	--	0.00073	<0.00050	--	--	--	--	--	--	--	--	--
Herbicides																									
2,4,5-T	mg/kg	--	--	<0.068	<0.061	<0.086	--	--	--	--	--	--	--	<0.061	<0.056	<0.070	--	--	--	--	--	--	--	--	<0.22
2,4-D	mg/kg	--	--	<0.068	<0.061	<0.086	--	--	--	--	--	--	--	<0.061	<0.056	<0.070	--	--	--	--	--	--	--	--	<1.1
2,4-DB	mg/kg	--	--	<0.068	<0.061	<0.086	--	--	--	--	--	--	--	<0.061	<0.056	<0.070	--	--	--	--	--	--	--	--	<0.083
Dalapon	mg/kg	--	--	<0.82	<0.73	<1.0	--	--	--	--	--	--	--	<0.74	<0.67	<0.84	--	--	--	--	--	--	--	--	<6.6
Dicamba	mg/kg	--	--	<0.068	<0.061	<0.086	--	--	--	--	--	--	--	<0.061	<0.056	<0.070	--	--	--	--	--	--	--	--	<0.33
Dichlorprop	mg/kg	--	--	<0.068	<0.061	<0.086	--	--	--	--	--	--	--	<0.061	<0.056	<0.070	--	--	--	--	--	--	--	--	<0.72
Dinoseb	mg/kg	--	--	<0.41	<0.37	<0.52	--	--	--	--	--	--	--	<0.37	<0.34	<0.42	--	--	--	--	--	--	--	--	<1.1
MCPA	mg/kg	--	--	<16	<15	<21	--	--	--	--	--	--	--	<15	<13	<17	--	--	--	--	--	--	--	--	<280
MCPP	mg/kg	--	--	<16	<15	<21	--	--	--	--	--	--	--	<15	<13	<17	--	--	--	--	--	--	--	--	<280
Silvex (2,4,5-TP)	mg/kg	--	--	<0.068	<0.061	<0.086	--	--	--	--	--	--	--	<0.061	<0.056	<0.070	--	--	--	--	--	--	--	--	<0.22
Pesticides																									
4,4'-DDD	mg/kg	--	--	<0.0023	<0.0021	<0.0030	--	--	--	--	--	--	--	<0.0044	<0.0041	<0.0024	--	--	--	--	--	--	--	--	<0.0019
4,4'-DDE	mg/kg	--	--	<0.0023	<0.0021	<0.0030	--	--	--	--	--	--	--	<0.0044	<0.0041	<0.0024	--	--	--	--	--	--	--	--	<0.0019
4,4'-DDT	mg/kg	--	--	<0.0023	<0.0021	<0.0030	--	--	--	--	--	--	--	<0.0044	<0.0041	<0.0024	--	--	--	--	--	--	--	--	<0.0019
Aldrin	mg/kg	--	--	<0.0023	<0.0021	<0.0030	--	--	--	--	--	--	--	<0.0044	<0.0041	<0.0024	--	--	--	--	--	--	--	--	<0.0019
alpha-BHC	mg/kg	--	--	<0.0023	<0.0021	<0.0030	--	--	--	--	--	--	--	<0.0044	<0.0041	<0.0024	--	--	--	--	--	--	--	--	<0.0019
beta-BHC	mg/kg	--	--	<0.0023	<0.0021	<0.0030	--	--	--	--	--	--	--	<0.0044	<0.0041	<0.0024	--	--	--	--	--	--	--	--	<0.0019
Chlordane (technical)	mg/kg	--	--	<0.023	<0.021	<0.030	--	--	--	--	--	--	--	<0.044	<0.041	<0.024	--	--	--	--	--	--	--	--	<0.019
delta-BHC	mg/kg	--	--	<0.0023	<0.0021	<0.0030	--	--	--	--	--	--	--	<0.0044	<0.0041	<0.0024	--	--	--	--	--	--	--	--	<0.0019
Dieldrin	mg/kg	--	--	<0.0023	<0.0021	<0.0030	--	--	--	--	--	--	--	<0.0044	<0.0041	<0.0024	--	--	--	--	--	--	--	--	<0.0019
Endosulfan I	mg/kg	--	--	<0.0023	<0.0021	<0.0030	--	--	--	--	--	--	--	<0.0044	<0.0041	<0.0024	--	--	--	--	--	--	--	--	<0.0019
Endosulfan II	mg/kg	--	--	<0.0023	<0.0021	<0.0030	--	--	--	--	--	--	--	<0.0044	<0.0041	<0.0024	--	--	--	--	--	--	--	--	<0.0019
Endosulfan sulfate	mg/kg	--	--	<0.0023	<0.0021	<0.0030	--	--	--	--	--	--	--	<0.0044	<0.0041	<0.0024	--	--	--	--	--	--	--	--	<0.0019
Endrin	mg/kg	--	--	<0.0023	<0.0021	<0.0030	--	--	--	--	--	--	--	<0.0044	<0.0041	<0.0024	--	--	--	--	--	--	--	--	<0.0019
Endrin ketone	mg/kg	--	--	<0.0023	<0.0021	<0.0030	--	--	--	--	--	--	--	<0.0044	<0.0041	<0.0024	--	--	--	--	--	--	--	--	<0.0019
gamma-BHC (Lindane)	mg/kg	--	--	<0.0023	<0.0021	<0.0030	--	--	--	--	--	--	--	<0.0044	<0.0041	<0.0024	--	--	--	--	--	--	--	--	<0.0019
Heptachlor	mg/kg	--	--	<0.0023	<0.0021	<0.0030	--	--	--	--	--	--	--	<0.0044	<0.0041	<0.0024	--	--	--	--	--	--	--	--	<0.0019
Heptachlor epoxide	mg/kg	--	--	<0.0023	<0.0021	<0.0030	--	--	--	--	--	--	--	<0.0044	<0.0041	<0.0024	--	--	--	--	--	--	--	--	<0.0019
Hexachlorobenzene	mg/kg	--	--	<0.0023	<0.0021	<0.0030	--	--	--	--	--	--	--	<0.0044	<0.0041	<0.0024	--	--	--	--	--	--	--	--	<0.0019
Methoxychlor	mg/kg	--	--	<0.0023	<0.0021	<0.0030	--	--	--	--	--	--	--	<0.0044	<0.0041	<0.0024	--	--	--	--	--	--	--	--	<0.0019
Polychlorinated Biphenyls																									
Aroclor 1016	mg/kg	<0.146	<0.137	<0.139	<0.151	<0.194	<0.164	<0.182	<0.178	<0.172	<0.156	<0.164	<0.137	<0.126	<0.133	<0.145	<0.141	<0.162	<0.166	<0.165	<0.158	<0.153	<0.136	<0.148	<0.131
Aroclor 1221	mg/kg	<0.146	<0.137	<0.139	<0.151	<0.194	<0.164	<0.182	<0.178	<0.172	<0.156	<0.164	<0.137	<0.126	<0.133	<0.145	<0.141	<0.162	<0.166	<0.165	<0.158	<0.153	<0.136	<0.148	<0.131
Aroclor 1232	mg/kg	<0.146	<0.137	<0.139	<0.151	<0.194	<0.164	<0.182	<0.178	<0.172	<0.156	<0.164	<0.137	<0.126	<0.133	<0.145	<0.141	<0.162	<0.166	<0.165	<0.158	<0.153	<0.136	<0.148	<0.131
Aroclor 1242	mg/kg	<0.146	<0.137	<0.139	<0.151	<0.194	<0.164	<0.182	<0.178	<0.172	<0.156	<0.164	<0.137	<0.126	<0.133	<0.145	<0.141	<0.162	<0.166	<0.165	<0.158	<0.153	<0.136	<0.148	<0.131
Aroclor 1248	mg/kg	<0.146	<0.137	<0.139	<0.151	<0.194	<0.164	<0.182	<0.178	<0.172	<0.156	<0.164	<0.137	<0.126	<0.133	<0.145	<0.141	<0.162	<0.166	<0.165	<0.158	<0.153	<0.136	<0.148	<0.131
Aroclor 1254	mg/kg	<0.146	<0.137	<0.139	6.13	0.957	<0.164	<0.182	<0.178	<0.172	<0.156	<0.164	<0.137	<0.126	<0.133	<0.145	<0.141	<0.162	<0.166	<0.165	<0.158	<0.153	<0.136	<0.148	<0.131
Aroclor 1260	mg/kg	<0.146	<0.137	<0.139	<0.151	0.245	<0.164	<0.182	<0.178	<0.172	<0.156	<0.164	<0.137	<0.126	6.53	0.764	<0.141	<0.162	<0.166	<0.165	<0.158	<0.153	<0.136	<0.148	<0.131
Aroclor 1262	mg/kg	<0.146	<0.137	<0.139	1.13	<0.194	<0.164	<0.182	<0.178	<0.172	<0.156	<0.164	<0.137	<0.126	<0.133	<0.145	<0.141	<0.162	<0.166	<0.165	<0.158	<0.153	<0.136	<0.148	<0.131
Aroclor 1268	mg/kg	<0.146	<0.137	<0.139	<0.151	<0.194	<0.164	<0.182	<0.178	<0.172	<0.156	<0.164	<0.137	<0.126	<0.133	<0.145	<0.141	<0.162	<0.166	<0.165	<0.158	<0.153	<0.136	<0.148	<0.131
Total PCBs	mg/kg	ND	ND	ND	7.26	1.202	ND	ND	ND	ND	ND	ND	ND	ND	6.53	0.764	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Petroleum Hydrocarbons	mg/kg	<37.1	<41.9	511	319	149	96.5	75.6	94.1	<55.3	<44.8	<51.7	<43.3	5070	1010	4830	298	103	181	61.2	<50.8	<50.0	<44.9	<39.1	87.1
Volatile Organic Compounds (VOCs)																									
1,1,1,2-Tetrachloroethane	mg/kg	<0.104	<0.0978	--	--	--	--	--	--	--	--	--	<0.0872	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	mg/kg	<0.0522	<0.0489	--	--	--	--	--	--	--	--	--	<0.0436	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg	<0.0522	<0.0489	--	--	--	--	--	--	--	--	--	<0.0436	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	mg/kg	<0.0522	<0.0489	--	--	--	--	--	--	--	--	--	<0.0436	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	mg/kg	<0.0522	<0.0489	--	--	--	--	--	--	--	--	--	<0.0436	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	mg/kg	<0.0522	<0.0489	--	--	--	--	--	--	--	--	--	<0.0436	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloropropene	mg/kg	<0.0522	<0.0489	--	--	--	--	--	--	--	--	--	<0.0436	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	mg/kg	<0.0522	<0.0489	--	--	--	--	--	--	--	--	--	<0.0436	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	mg/kg	<0.0522	<0.0489	--	--	--	--	--	--	--	--	--	<0.0436	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	mg/kg	<0.0522	<0.0489	--	--	--	--	--	--	--	--	--	<0.0436	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	mg/kg	<0.0522	<0.0489	--	--	--	--	--	--	--	--	--	<0.0436	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-Chloropropane	mg/kg	<0.209	<0.196	--	--	--	--	--	--	--	--	--	<0.174	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	mg/kg	<0.0522	<0.0489	--	--	--	--	--	--	--	--	--	<0.0436	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	mg/kg	<0.0522	<0.0489	--	--	--	--	--	--	--	--	--	<0.0436	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	mg/kg	<0.0522	<0.0489	--	--	--	--	--	--	--	--	--	<0.0436	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	mg/kg	<0.0522	<0.0489	--	--	--	--	--	--	--	--	--	<0.0436	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	mg/kg	<0.0522	<0.0489	--	--	--	--	--	--	--	--	--	<0.0436	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	mg/kg	<0.0522	<0.0489	--	--	--	--	--	--	--	--	--	<0.0436	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichloropropane	mg/kg	<0.0522	<0.0489	--	--	--	--	--	--	--	--	--	<0.0436	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg	<0.0522	<0.0489	--	--	--	--	--	--	--	--	--	<0.0436	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane - Screen	mg/kg	<5.22	<4.89	--	--	--	--	--	--	--	--	--	<4.36	--	--	--	--	--	--	--	--	--	--	--	--
2,2-Dichloropropane	mg/kg	<0.104	<0.0978	--	--	--	--	--	--	--	--	--	<0.0872	--	--	--	--	--	--	--	--	--	--	--	--
2-Butanone	mg/kg	<0.209	<0.196	--	--	--	--	--	--	--	--	--	<0.174	--	--	--	--	--	--	--	--	--	--	--	--
2-Chlorotoluene	mg/kg	<0.0522	<0.0489	--	--	--	--	--	--	--	--	--	<0.0436	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	mg/kg	<0.209	<0.196	--	--	--	--	--	--	--	--	--	<0.174	--	--	--	--	--	--	--	--	--	--	--	--
4-Chlorotoluene	mg/kg	<0.0522	<0.0489	--	--	--	--	--	--	--	--	--	<0.0436	--	--	--	--	--	--	--	--	--	--	--	--
4-Isopropyltoluene	mg/kg	<0.0522	<0.0489	--	--	--	--	--	--	--	--	--	<0.0436	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-Pentanone	mg/kg	<0.209	<0.196	--	--	--	--	--	--	--	--	--	<0.174	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	mg/kg	<0.209	<0.196	--	--	--	--	--	--	--	--	--	<0.174	--	--	--	--	--	--	--	--	--	--	--	--
Benzene	mg/kg	<0.0522	<0.0489	--	--	--	--	--	--	--	--	--	<0.0436	--	--	--	--	--	--	--	--	--	--	--	--
Bromobenzene	mg/kg	<0.0522	<0.0489	--	--	--	--	--	--	--	--	--	<0.0436	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	mg/kg	<0.0522	<0.0489	--	--	--	--	--	--	--	--	--	<0.0436	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	mg/kg	<0.0522	<0.0489	--	--	--	--	--	--	--	--	--	<0.0436	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	mg/kg	<0.0522	<0.0489	--	--	--	--	--	--	--	--	--	<0.0436	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	mg/kg	<0.104	<0.0978	--	--	--	--	--	--	--	--	--	<0.0872	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Disulfide	mg/kg	<0.0522	<0.0489	--	--	--	--	--	--	--	--	--	<0.0436	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	mg/kg	<0.0522	<0.0489	--	--	--	--	--	--	--	--	--	<0.0436	--	--	--	--	--	--	--	--	--	--	--	--

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	B20 B20S11 1501030 Natural Sand/Gravel 33 - 38 1/5/2015	B20 B20S12 1501030 Natural Sand/Gravel 38 - 40 1/5/2015	B21 B21S01S02A 1412472 Fill 0 - 3.3 12/22/2014	B21 B21S02BS04A 1412501 Fill 3.3 - 6.6 12/23/2014	B21 B21S04BS05 1412501 Fill 6.6 - 10 12/23/2014	B21 B21S06 1412501 Natural Organics 10 - 14 12/23/2014	B21 B21S08 1412501 Natural Organics 14 - 19 12/23/2014	B21 B21S09 1412501 Natural Organics 19 - 24 12/23/2014	B21 B21S10 1412501 Natural Organics 24 - 29 12/23/2014	B21 B21S11 1412501 Natural Organics 29 - 34 12/23/2014	B21 B21S12 1412501 Natural Organics 34 - 39 12/23/2014	B21 B21S13 1412501 Natural Sand/Gravel 39 - 41 12/23/2014	B22 B22S01S02A 1412472 Fill 0 - 3.3 12/22/2014	B22 B22S02BS04A 1412472 Fill 3.3 - 6.6 12/22/2014	B22 B22S04BS05 1412472 Fill 6.6 - 10 12/22/2014	B22 B22S07 1412472 Natural Organics 10 - 14 12/22/2014	B22 B22S08 1412472 Natural Organics 14 - 19 12/22/2014	B22 B22S09 1412472 Natural Organics 19 - 24 12/22/2014	B22 B22S10 1412472 Natural Organics 24 - 29 12/22/2014	B22 B22S11 1412472 Natural Organics 29 - 34 12/22/2014	B22 B22S12 1412472 Natural Organics 34 - 39 12/22/2014	B22 B22S13 1412472 Natural Organics 39 - 44 12/22/2014	B22 B22S14 1412472 Natural Organics 44 - 46 12/22/2014	B23 B23S01S02A 1412438 Fill 0 - 3.3 12/19/2014
Preliminary Disposal Facility Category		MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type B	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Uncontaminated	MCP Regulated Type A
Chlorobenzene	mg/kg	<0.0522	<0.0489	--	--	--	--	--	--	--	--	--	<0.0436	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	mg/kg	<0.104	<0.0978	--	--	--	--	--	--	--	--	--	<0.0872	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	mg/kg	<0.0522	<0.0489	--	--	--	--	--	--	--	--	--	<0.0436	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	mg/kg	<0.104	<0.0978	--	--	--	--	--	--	--	--	--	<0.0872	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	mg/kg	<0.0522	<0.0489	--	--	--	--	--	--	--	--	--	<0.0436	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	mg/kg	<0.0522	<0.0489	--	--	--	--	--	--	--	--	--	<0.0436	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	mg/kg	<0.0522	<0.0489	--	--	--	--	--	--	--	--	--	<0.0436	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromomethane	mg/kg	<0.0522	<0.0489	--	--	--	--	--	--	--	--	--	<0.0436	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	mg/kg	<0.0522	<0.0489	--	--	--	--	--	--	--	--	--	<0.0436	--	--	--	--	--	--	--	--	--	--	--	--	--
Diethyl Ether	mg/kg	<0.0522	<0.0489	--	--	--	--	--	--	--	--	--	<0.0436	--	--	--	--	--	--	--	--	--	--	--	--	--
Di-isopropyl ether	mg/kg	<0.0522	<0.0489	--	--	--	--	--	--	--	--	--	<0.0436	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethyl tertiary-butyl ether	mg/kg	<0.0522	<0.0489	--	--	--	--	--	--	--	--	--	<0.0436	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	mg/kg	<0.0522	<0.0489	--	--	--	--	--	--	--	--	--	<0.0436	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	mg/kg	<0.0522	<0.0489	--	--	--	--	--	--	--	--	--	<0.0436	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene	mg/kg	<0.0522	<0.0489	--	--	--	--	--	--	--	--	--	<0.0436	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	mg/kg	<0.0522	<0.0489	--	--	--	--	--	--	--	--	--	<0.0436	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride	mg/kg	<0.209	<0.196	--	--	--	--	--	--	--	--	--	<0.174	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	mg/kg	1.15	1.26	--	--	--	--	--	--	--	--	--	3.94	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	mg/kg	<0.0522	<0.0489	--	--	--	--	--	--	--	--	--	<0.0436	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	mg/kg	<0.0522	<0.0489	--	--	--	--	--	--	--	--	--	<0.0436	--	--	--	--	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	mg/kg	<0.0522	<0.0489	--	--	--	--	--	--	--	--	--	<0.0436	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	mg/kg	<0.0522	<0.0489	--	--	--	--	--	--	--	--	--	<0.0436	--	--	--	--	--	--	--	--	--	--	--	--	--
tert-Butylbenzene	mg/kg	<0.0522	<0.0489	--	--	--	--	--	--	--	--	--	<0.0436	--	--	--	--	--	--	--	--	--	--	--	--	--
Tertiary-amyl methyl ether	mg/kg	<0.0522	<0.0489	--	--	--	--	--	--	--	--	--	<0.0436	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	mg/kg	<0.0522	<0.0489	--	--	--	--	--	--	--	--	--	<0.0436	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	mg/kg	<0.209	<0.196	--	--	--	--	--	--	--	--	--	<0.174	--	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	mg/kg	<0.0522	<0.0489	--	--	--	--	--	--	--	--	--	<0.0436	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	mg/kg	<0.0522	<0.0489	--	--	--	--	--	--	--	--	--	<0.0436	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	mg/kg	<0.0522	<0.0489	--	--	--	--	--	--	--	--	--	<0.0436	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene	mg/kg	<0.0522	<0.0489	--	--	--	--	--	--	--	--	--	<0.0436	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane	mg/kg	<0.0522	<0.0489	--	--	--	--	--	--	--	--	--	<0.0436	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	mg/kg	<0.0522	<0.0489	--	--	--	--	--	--	--	--	--	<0.0436	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene O	mg/kg	<0.0522	<0.0489	--	--	--	--	--	--	--	--	--	<0.0436	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene P,M	mg/kg	<0.104	<0.0978	--	--	--	--	--	--	--	--	--	<0.0872	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylenes (Total)	mg/kg	<0.104	<0.0978	--	--	--	--	--	--	--	--	--	<0.0872	--	--	--	--	--	--	--	--	--	--	--	--	--
Total VOCs	mg/kg	1.15	1.26	--	--	--	--	--	--	--	--	--	3.94	--	--	--	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds - Low Level Analysis																										
1,1,1,2-Tetrachloroethane	mg/kg	<0.0046	<0.0039	<0.0036	<0.0044	<0.0056	<0.0043	<0.0045	<0.0036	<0.0051	<0.0031	<0.0033	<0.0030	<0.0044	<0.0051	<0.0037	<0.0037	<0.0049	<0.0046	<0.0045	<0.0036	<0.0031	<0.0039	<0.0030	<0.0048
1,1,1-Trichloroethane	mg/kg	<0.0046	<0.0039	<0.0036	<0.0044	<0.0056	<0.0043	<0.0045	<0.0036	<0.0051	<0.0031	<0.0033	<0.0030	<0.0044	<0.0051	<0.0037	<0.0037	<0.0049	<0.0046	<0.0045	<0.0036	<0.0031	<0.0039	<0.0030	<0.0048
1,1,2,2-Tetrachloroethane	mg/kg	<0.0018	<0.0015	<0.0014	<0.0017	<0.0022	<0.0017	<0.0018	<0.0014	<0.0020	<0.0012	<0.0013	<0.0012	<0.0018	<0.0020	<0.0015	<0.0015	<0.0020	<0.0018	<0.0018	<0.0014	<0.0013	<0.0016	<0.0012	<0.0019
1,1,2-Trichloroethane	mg/kg	<0.0046	<0.0039	<0.0036	<0.0044	<0.0056	<0.0043	<0.0045	<0.0036	<0.0051	<0.0031	<0.0033	<0.0030	<0.0044	<0.0051	<0.0037	<0.0037	<0.0049	<0.0046	<0.0045	<0.0036	<0.0031	<0.0039	<0.0030	<0.0048
1,1-Dichloroethane	mg/kg	<0.0046	<0.0039	<0.0036	<0.0044	<0.0056	<0.0043	<0.0045	<0.0036	<0.0051	<0.0031	<0.0033	<0.0030	<0.0044	<0.0051	<0.0037	<0.0037	<0.0049	<0.0046	<0.0045	<0.0036	<0.0031	<0.0039	<0.0030	<0.0048
1,1-Dichloroethene	mg/kg	<0.0046	<0.0039	<0.0036	<0.0044	<0.0056	<0.0043	<0.0045	<0.0036	<0.0051	<0.0031	<0.0033	<0.0030	<0.0044	<0.0051	<0.0037	<0.0037	<0.0049	<0.0046	<0.0045	<0.0036	<0.0031	<0.0039	<0.0030	<0.0048
1,1-Dichloropropene	mg/kg	<0.0046	<0.0039	<0.0036	<0.0044	<0.0056	<0.0043	<0.0045	<0.0036	<0.0051	<0.0031	<0.0033	<0.0030	<0.0044	<0.0051	<0.0037	<0.0037	<0.0049	<0.0046	<0.0045	<0.0036	<0.0031	<0.0039	<0.0030	<0.0048
1,2,3-Trichlorobenzene	mg/kg	<0.0046	<0.0039	<0.0036	<0.0044	<0.0056	<0.0043	<0.0045	<0.0036	<0.0051	<0.0031	<0.0033	<0.0030	<0.0044	<0.0051	<0.0037	<0.0037	<0.0049	<0.0046	<0.0045	<0.0036	<0.0031	<0.0039	<0.0030	<0.0048
1,2,3-Trichloropropane	mg/kg	<0.0046	<0.0039	<0.0036	<0.0044	<0.0056	<0.0043	<0.0045	<0.0036	<0.0051	<0.0031	<0.0033	<0.0030	<0.0044	<0.0051	<0.0037	<0.0037	<0.0049	<0.0046	<0.0045	<0.0036	<0.0031	<0.0039	<0.0030	<0.0048
1,2,4-Trichlorobenzene	mg/kg	<0.0046	<0.0039	<0.0036	<0.0044	<0.0056	<0.0043	<0.0045	<0.0036	<0.0051	<0.0031	<0.0033	<0.0030	<0.0044	<0.0051	<0.0037	<0.0037	<0.0049	<0.0046	<0.0045	<0.0036	<0.0031	<0.0039	<0.0030	<0.0048
1,2,4-Trimethylbenzene	mg/kg	<0.0046	0.0058	<0.0036	<0.0044	<0.0056	<0.0043	<0.0045	<0.0036	<0.0051	<0.0031	<0.0033	<0.0030	<0.0044	<0.0051	<0.0037	<0.0037	<0.0049	<0.0046	<0.0045	<0.0036	<0.0031	<0.0039	<0.0030	<0.0048
1,2-Dibromo-3-Chloropropane	mg/kg	<0.0046	<0.0039	<0.0036	<0.0044	<0.0056	<0.0043	<0.0045	<0.0036	<0.0051	<0.0031	<0.0033	<0.0030	<0.0044	<0.0051	<0.0037	<0.0037	<0.0049	<0.0046	<0.0045	<0.0036	<0.0031	<0.0039	<0.0030	<0.0048
1,2-Dibromoethane	mg/kg	<0.0046	<0.0039	<0.0036	<0.0044	<0.0056	<0.0043	<0.0045	<0.0036	<0.0051	<0.0031	<0.0033	<0.0030	<0.0044	<0.0051	<0.0037	<0.0037	<0.0049	<0.0046	<0.0045	<0.0036	<0.0031	<0.0039	<0.0030	<0.0048
1,2-Dichlorobenzene	mg/kg	<0.0046	<0.0039	<0.0036	<0.0044	<0.0056	<0.0043	<0.0045	<0.0036	<0.0051	<0.0031	<0.0033	<0.0030	<0.0044	<0.0051	<0.0037	<0.0037	<0.0049	<0.0046	<0.0045	<0.0036	<0.0031	<0.0039	<0.0030	<0.0048
1,2-Dichloroethane	mg/kg	<0.0046	<0.0039	<0.0036	<0.0044	<0.0056	<0.0043	<0.0045	<0.0036	<0.0051	<0.0031	<0.0033	<0.0030	<0.0044	<0.0051	<0.0037	<0.0037	<0.0049	<0.0046	<0.0045	<0.0036	<0.0031	<0.0039	<0.0030	<0.0048
1,2-Dichloropropane	mg/kg	<0.0046	<0.0039	<0.0036	<0.0044	<0.0056	<0.0043	<0.0045	<0.0036	<0.0051	<0.0031	<0.0033	<0.0030	<0.0044	<0.0051	<0.0037	<0.0037	<0.0049	<0.0046	<0.0045	<0.0036	<0.0031	<0.0039	<0.0030	<0.0048
1,3,5-Trimethylbenzene	mg/kg	<0.0046	<0.0039	<0.0036	<0.0044	<0.0056	<0.0043	<0.0045	<0.0036	<0.0051	<0.0031	<0.0033	<0.0030	<0.0044	<0.0051	<0.0037	<0.0037	<0.0049	<0.0046	<0.0045	<0.0036	<0.0031	<0.0039	<0.0030	<0.0048
1,3-Dichlorobenzene	mg/kg	<0.0046	<0.0039	<0.0036	<0.0044	<0.0056	<0.0043	<0.0045	<0.0036	<0.0051	<0.0031	<0.0033	<0.0030	<0.0044	<0.0051	<0.0037	<0.0037	<0.0049	<0.0046	<0.0045	<0.0036	<0.0031	<0.0039	<0.0030	<0.0048
1,3-Dichloropropane	mg/kg	<0.0046	<0.0039	<0.0036	<0.0044	<0.0056	<0.0043	<0.0045	<0.0036	<0.0051	<0.0031	<0.0033	<0.0030	<0.0044	<0.0051	<0.0037	<0.0037	<0.0049	<0.0046	<0.0045	<0.0036	<0.0031	<0.0039	<0.0030	<0.0048
1,4-Dichlorobenzene	mg/kg	<0.0046	<0.0039	<0.0036	<0.0044	<0.0056	<0.0043	<0.0045	<0.0036	<0.0051	<0.0031	<0.0033	<0.0030	<0.0044	<0.0051	<0.0037	<0.0037	<0.0049	<0.0046	<0.0045	<0.0036	<0.0031	<0.0039	<0.0030	<0.0048
1,4-Dioxane	mg/kg	<0.0922	<0.0774	<0.0721	<0.0872	<0.112	<0.0860	<0.0900	<0.0719	<0.102	<0.0614	<0.0665	<0.0608	<0.0887	<0.102	<0.0735	<0.0750	<0.0977	<0.0914	<0.0891	<0.0712	<0.0628	<0.0776	<0.0593	<0.0952
2,2-Dichloropropane	mg/kg	<0.0046	<0.0039	<0.0036	<0.0044	<0.0056	<0.0043	<0.0045	<0.0036	<0.0051	<0.0031	<0.0033	<0.0030	<0.0044	<0.0051	<0.0037	<0.0037	<0.0049	<0.0046	<0.0045	<0.0036	<0.0031	<0.0039	<0.0030	<0.0048
2-Butanone	mg/kg	<0.0092	<0.0077	<0.0072	<0.0087	<0.0112	<0.0086	0.0141	0.0179	<0.0102	<0.0061	<0.0066	<0.0061	<0.0089	<0.0102	<0.0074	<0.0075	<0.0098	<0.0091	<0.0089	<0.0071	<0.0063	<0.0078	<0.0059	<0.0095
2-Chlorotoluene	mg/kg	<0.0046	<0.0039	<0.0036	<0.0044	<0.0056	<0.0043	<0.0045	<0.0036	<0.0051	<0.0031	<0.0033	<0.0030	<0.0044	<0.0051	<0.0037	<0.0037	<0.0049	<0.0046	<0.0045	<0.0036	<0.0031	<0.0039	<0.0030	<0.0048
2-Hexanone	mg/kg	<0.0092	<0.0077	<0.0072	<0.0087	<0.0112	<0.0086	<0.0090	<0.0072	<0.0102	<0.0061	<0.0066	<0.0061	<0.0089	<0.0102	<0.0074	<0.0075	<0.0098	<0.0091	<0.0089	<0.0071	<0.0063	<0.0078	<0.0059	<0.0095
4-Chlorotoluene	mg/kg	<0.0046	<0.0039	<0.0036	<0.0044	<0.0056	<0.0043	<0.0045	<0.0036	<0.0051	<0.0031	<0.0033	<0.0030	<0.0044	<0.0051	<0.0037	<0.0037	<0.0049	<0.0046	<0.0045	<0.0036	<0.0031	<0.0039	<0.0030	<0.0048
4-Isopropyltoluene	mg/kg	0.0073	<0.0039	<0.0036	<0.0044	<0.0056	<0.0043	<0.0045	0.0116	<0.0051	<0.0031	<0.0033	<0.0030	<0.0044	<0.0051	<0.0037	<0.0037	<0.0049	<0.0046	<0.0045	<0.0036	<0.0031	<0.0039	<0.0030	<0.0048
4-Methyl-2-Pentanone	mg/kg	<0.0092	<0.0077	<0.0072	<0.0087	<0.0112	<0.0086	<0.0090	<0.0072	<0.0102	<0.0061	<0.0066	<0.0061	<0.0089	<0.0102	<0.0074	<0.0075	<0.0098	<0.0091	<0.0089	<0.0071	<0.0063	<0.0078	<0.0059	<0.0095
Acetone	mg/kg	<0.0092	<0.0077	<0.0072	0.0514	0.0231	<0.0086	0.104	0.158	0.0436	0.0176	0.0461	0.0118	<0.0089	<0.0102	<0.0074	<0.0075	0.0301	0.0253	0.0155	0.0162	0.0154	0.0104	<0.0059	<0.0095
Benzene	mg/kg	<0.0046	<0.0039	<0.0036	<0.0044	<0.0056	<0.0043	<0.0045	<0.0036	<0.0051	<0.0031	<0.0033	<0.0030	<0.0044	<0.0051	<0.0037	<0.0037	<0.0049	<0.0046	<0.0045	<0.0036	<0.0031	<0.0039	<0.0030	<0.0048
Bromobenzene	mg/kg	<0.0046	<0.0039	<0.0036	<0.0044	<0.0056	<0.0043	<0.0045	<0.0036	<0.0051	<0.0031	<0.0033	<0.0030	<0.0044	<0.0051	<0.0037	<0.0037	<0.0049	<0.0046	<0.0045	<0.0036	<0.0031	<0.0039	<0.0030	<0.0048
Bromochloromethane	mg/kg	<0.0046	<0.0039	<0.0036	<0.0044	<0.0056	<0.0043	<0.0045	<0.0036	<0.0051	<0.0031	<0.0033	<0.0030	<0.0044	<0.0051	<0.0037	<0.0037	<0.0049	<0.0046	<0.0045	<0.0036	<0.0031	<0.0039	<0.0030	<0.0048
Bromodichloromethane	mg/kg	<0.0046	<0.0039	<0.0036	<0.0044	<0.0056	<0.0043	<0.0045	<0.0036	<0.0051	<0.0031	<0.0033	<0.0030	<0.0044	<0.0051	<0.0037	<0.0037	<0.0049	<0.0046	<0.0045	<0.0036	<0.0031	<0.0039	<0.0030	<0.0048
Bromoform	mg/kg	<0.0046	<0.0039	<0.0036	<0.0044	<0.0056	<0.0043	<0.0045	<0.0036	<0.0051	<0.0031	<0.0033	<0.0030	<0.0044	<0.0051	<0.0037	<0.0037	<0.0049	<0.0046	<0.0045	<0.0036	<0.0031	<0.0039	<0.0030	<0.0048
Bromomethane	mg/kg	<0.0092	<0.0077	<0.0072	<0.0087	<0.0112	<0.0086	<0.0090	<0.0072	<0.0102	<0.0061	<0.0066	<0.0061	<0.0089	<0.0102	<0.0074	<0.0075	<0.0098	<0.0091	<0.0089	<0.0071	<0.0063	<0.0078	<0.0059	<0.0095
Carbon Disulfide	mg/kg	0.0122	0.0043	<0.0036	<0.0044	<0.0056	<0.0043	0.0237	0.014	<0.0051	<0.0031	0.0122	<0.0030	<0.0044	<0.0051	<0.0037	0.0056	0.016	0.0091	0.006	<0.0036	0.0081	0.0081	<0.0030	<0.0048
Carbon Tetrachloride	mg/kg	<0.0046	<0.0039	<0.0036	<0.0044	<0.0056	<0.0043	<0.0045	<0.0036	<0.0051	<0.0031	<0.0033	<0.0030	<0.0044	<0.0051	<0.0037	<0.0037	<0.0049	<0.0046	<0.0045	<0.0036	<0.0031	<0.0039	<0.0030	<0.0048
Chlorobenzene	mg/kg	<0.0046	<0.0039	<0.0036	<0.0044	<0.0056	<0.0043	<0.0045	<0.0036	<0.0051	<0.0031	<0.0033	<0.0030	<0.0044	<0.0051	<0.0037	<0.0037	<0.0049	<0.0046	<0.0045	<0.0036	<0.0031	<0.0039	<0.0030	<0.0048
Chloroethane	mg/kg	<0.0092	<0.0077	<0.0072	<0.0087	<0.0112	<0.0086	<0.0090	<0.0072	<0.0102	<0.0061	<0.0066	<0.0061	<0.0089	<0.0102	<0.0074	<0.0075	<0.0098	<0.0091	<0.0089	<0.0071	<0.0063	<0.0078	<0.0059	<0.0095
Chloroform	mg/kg	<0.0046	<0.0039	<0.0036	<0.0044	<0.0056	<0.0043	<0.0045	<0.0036	<0.0051	<0.0031	<0.0033	<0.0030	<0.0044	<0.0051	<0.0037	<0.0037	<0.0049	<0.0046	<0.0045	<0.0036	<0.0031	<0.0039	<0.0030	<0.0048
Chloromethane	mg/kg	<0.0092	<0.0077	<0.0072	<0.0087	<0.0112	<0.0086	<0.0090	<0.0072	<0.0102	<0.0061	<0.0066	<0.0061	<0.0089	<0.0102	<0.0074	<0.0075	<0.0098	<0.0091	<0.0089	<0.0071	<0.0063	<0.0078	<0.0059	<0.0095
cis-1,2-Dichloroethene	mg/kg	<0.0046	<0.0039	<0.0036	<0.0044	<0.0056	<0.0043	<0.0045	<0.0036	<0.0051	<0.0031	<0.0033	<0.0030	<0.0044	<0.0051	<0.0037	<0.0037	<0.0049	<0.0046	<0.0045	<0.0036	<0.0031	<0.0039	<0.0030	<0.0048
cis-1,3-Dichloropropene	mg/kg	<0.0046	<0.0039	<0.0036	<0.0044	<0.0056	<0.0043	<0.0045	<0.0036	<0.0051	<0.0031	<0.0033	<0.0030	<0.0044	<0.0051	<0.0037	<0.0037	<0.0049	<0.0046	<0.0045	<0.0036	<0.0031	<0.0039	<0.0030	<0.0048
Dibromochloromethane	mg/kg	<0.0018	<0.0015	<0.0014	<0.0017	<0.0022	<0.0017	<0.0018	<0.0014	<0.0020	<0.0012	<0.0013	<0.0012	<0.0018	<0.0020	<0.0015	<0.0015	<0.0020	<0.0018	<0.0018	<0.0014	<0.0013	<0.0016	<0.0012	<0.0019
Dibromomethane	mg/kg	<0.0046	<0.0039	<0.0036	<0.0044	<0.0056	<0.0043	<0.0045	<0.0036	<0.0051	<0.0031	<0.0033	<0.0030	<0.0044	<0.0051	<0.0037	<0.0037	<0.0049	<0.0046	<0.0045	<0.0036	<0.0031	<0.0039	<0.0030	<0.0048
Dichlorodifluoromethane	mg/kg	<0.0092	<0.0077	<0.0072	<0.0087	<0.0112	<0.0086	<0.0090	<0.0072	<0.0102	<0.0061	<0.0066	<0.0061	<0.0089	<0.0102	<0.0074	<0.0075	<0.0098	<0.0091	<0.0089	<0.0071	<0.0063	<0.0078	<0.0059	<0.0095
Diethyl Ether	mg/kg	<0.0046	<0.0039	<0.0036	<0.0044	<0.0056	<0.0043	<0.0045	<0.0036	<0.0051	<0.0031	<0.0033	<0.0030	<0.0044	<0.0051	<0.0037	<0.0037	<0.0049	<0.0046	<0.0045	<0.0036	<0.0031	<0.0039	<0.0030	<0.0048
Di-isopropyl ether	mg/kg	<0.0046	<0.0039	<0.0036	<0.0044	<0.0056	<0.0043	<0.0045	<0.0036	<0.0051	<0.0031	<0.0033	<0.0030	<0.0044	<0.0051	<0.0037	<0.0037	<0.0049	<0.0046	<0.0045	<0.0036	<0.0031	<0.0039	<0.0030	<0.0048
Ethyl tertiary-butyl ether	mg/kg	<0.0046	<0.0039	<0.0036	<0.0044	<0.0056	<0.0043	<0.0045	<0.0036	<0.0051	<0.0031	<0.0033	<0.0030	<0.0044	<0.0051	<0.0037	<0.0037	<0.0049	<0.0046	<0.0045	<0.0036	<0.0031	<0.0039	<0.0030	<0.0048
Ethylbenzene	mg/kg	<0.0046	0.0049	<0.0036	<0.0044	<0.0056	<0.0043	<0.0045	<0.0036	<0.0051	<0.0031	<0.0033	<0.0030	<0.0044	<0.0051	<0.0037	<0.0037	<0.0049	<0.0046	<0.0045	<0.0036	<0.0031	<0.0039	<0.0030	<0.0048
Hexachlorobutadiene	mg/kg	<0.0046	<0.0039	<0.0036	<0.0044	<0.0056	<0.0043	<0.0045	<0.0036	<0.0051	<0.0031	<0.0033	<0.0030	<0.0044	<0.0051	<0.0037	<0.0037	<0.0049	<0.0046	<0.0045	<0.0036	<0.0031	<0.0039	<0.0030	<0.0048
Isopropylbenzene	mg/kg	<0.0046	<0.0039	<0.0036	<0.0044	<0.0056	<0.0043	<0.0045	<0.0036	<0.0051	<0.0031	<0.0033	<0.0030	<0.0044	<0.0051	<0.0037	<0.0037	<0.0049	<0.0046	<0.0045	<0.0036	<0.0031	<0.0039	<0.0030	<0.0048
Methyl tert-Butyl Ether	mg/kg	<0.0046	<0.0039	<0.0036	<0.0044	<0.0056	<0.0043	<0.0045	<0.0036	<0.0051	<0.0031	<0.0033	<0.0030	<0.0044	<0.0051	<0.0037	<0.0037	<0.0049	<0.0046	<0.0045	<0.0036	<0.0031	<0.0039	<0.0030	<0.0048
Methylene Chloride	mg/kg	<0.0092	<0.0077	<0.0072	<0.0087	<0.0112	<0.0086	<0.0090	<0.0072	<0.0102	<0.0061	<0.0066	<0.0061	<0.0089	<0.0102	<0.0074	<0.0075	<0.0098	<0.0091	<0.0089	<0.0071	<0.0063	<0.0078	<0.0059	<0.0095
Naphthalene	mg/kg	0.979	1.08	<0.0036	<0.0044	<0.0056	<0.0043	<0.0045	<0.0036	<0.0051	<0.0031	<0.0033	0.449	<0.0044	<0.0051	<0.0037	<0.0037	<0.0049	<0.0046	<0.0045	<0.0036	<0.0031	<0.0039	<0.0030	<0.0048
n-Butylbenzene	mg/kg	<0.0046	<0.0039	<0.0036	<0.0044	<0.0056	<0.0043	<0.0045	<0.0036	<0.0051	<0.0031	<0.0033	<0.0030	<0.0044	<0.0051	<0.0037	<0.0037	<0.0049	<0.0046	<0.0045	<0.0036	<0.0031	<0.0039	<0.0030	<0.0048
n-Propylbenzene	mg/kg	<0.0046

Table 1
Soil Precharacterization Data

Wynn Resort Casino
Everett, Massachusetts

Analyte	Precharacterization Cell	B20	B20	B21	B21	B21	B21	B21	B21	B21	B21	B21	B21	B22	B22	B22	B22	B22	B22	B22	B22	B22	B22	B23
	Sample ID	B20S11	B20S12	B21S01S02A	B21S02BS04A	B21S04BS05	B21S06	B21S08	B21S09	B21S10	B21S11	B21S12	B21S13	B22S01S02A	B22S02BS04A	B22S04BS05	B22S07	B22S08	B22S09	B22S10	B22S11	B22S12	B22S13	B23S01S02A
	Laboratory Work Order	1501030	1501030	1412472	1412501	1412501	1412501	1412501	1412501	1412501	1412501	1412501	1412501	1412472	1412472	1412472	1412472	1412472	1412472	1412472	1412472	1412472	1412472	1412438
	Soil Distinction	Natural	Natural	Fill	Fill	Fill	Natural	Natural	Natural	Organics	Organics	Natural	Natural	Fill	Fill	Fill	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Fill
	Soil Type	Sand/Gravel	Sand/Gravel				Organics	Organics	Organics			Organics	Sand/Gravel				Organics	Organics	Organics	Organics	Organics	Organics	Organics	
	Depth Interval (ft.)	33 - 38	38 - 40	0 - 3.3	3.3 - 6.6	6.6 - 10	10 - 14	14 - 19	19 - 24	24 - 29	29 - 34	34 - 39	39 - 41	0 - 3.3	3.3 - 6.6	6.6 - 10	10 - 14	14 - 19	19 - 24	24 - 29	29 - 34	34 - 39	39 - 44	0 - 3.3
	Sampling Date	1/5/2015	1/5/2015	12/22/2014	12/23/2014	12/23/2014	12/23/2014	12/23/2014	12/23/2014	12/23/2014	12/23/2014	12/23/2014	12/23/2014	12/22/2014	12/22/2014	12/22/2014	12/22/2014	12/22/2014	12/22/2014	12/22/2014	12/22/2014	12/22/2014	12/22/2014	12/19/2014
Preliminary Disposal Facility Category		MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type B	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Uncontaminated	MCP Regulated Type A
Styrene	mg/kg	<0.0046	<0.0039	<0.0036	<0.0044	<0.0056	<0.0043	<0.0045	<0.0036	<0.0051	<0.0031	<0.0033	<0.0030	<0.0044	<0.0051	<0.0037	<0.0037	<0.0049	<0.0046	<0.0045	<0.0036	<0.0031	<0.0039	<0.0030	<0.0048
tert-Butylbenzene	mg/kg	<0.0046	<0.0039	<0.0036	<0.0044	<0.0056	<0.0043	<0.0045	<0.0036	<0.0051	<0.0031	<0.0033	<0.0030	<0.0044	<0.0051	<0.0037	<0.0037	<0.0049	<0.0046	<0.0045	<0.0036	<0.0031	<0.0039	<0.0030	<0.0048
Tertiary-amyl methyl ether	mg/kg	<0.0046	<0.0039	<0.0036	<0.0044	<0.0056	<0.0043	<0.0045	<0.0036	<0.0051	<0.0031	<0.0033	<0.0030	<0.0044	<0.0051	<0.0037	<0.0037	<0.0049	<0.0046	<0.0045	<0.0036	<0.0031	<0.0039	<0.0030	<0.0048
Tetrachloroethene	mg/kg	<0.0046	<0.0039	<0.0036	<0.0044	<0.0056	<0.0043	<0.0045	<0.0036	<0.0051	<0.0031	<0.0033	<0.0030	<0.0044	<0.0051	<0.0037	<0.0037	<0.0049	<0.0046	<0.0045	<0.0036	<0.0031	<0.0039	<0.0030	<0.0048
Tetrahydrofuran	mg/kg	<0.0046	<0.0039	<0.0036	<0.0044	<0.0056	<0.0043	<0.0045	<0.0036	<0.0051	<0.0031	<0.0033	<0.0030	<0.0044	<0.0051	<0.0037	<0.0037	<0.0049	<0.0046	<0.0045	<0.0036	<0.0031	<0.0039	<0.0030	<0.0048
Toluene	mg/kg	<0.0046	0.0076	<0.0036	<0.0044	<0.0056	<0.0043	<0.0045	<0.0036	<0.0051	<0.0031	<0.0033	<0.0030	<0.0044	<0.0051	<0.0037	<0.0037	<0.0049	<0.0046	<0.0045	<0.0036	<0.0031	<0.0039	<0.0030	<0.0048
trans-1,2-Dichloroethene	mg/kg	<0.0046	<0.0039	<0.0036	<0.0044	<0.0056	<0.0043	<0.0045	<0.0036	<0.0051	<0.0031	<0.0033	<0.0030	<0.0044	<0.0051	<0.0037	<0.0037	<0.0049	<0.0046	<0.0045	<0.0036	<0.0031	<0.0039	<0.0030	<0.0048
trans-1,3-Dichloropropene	mg/kg	<0.0046	<0.0039	<0.0036	<0.0044	<0.0056	<0.0043	<0.0045	<0.0036	<0.0051	<0.0031	<0.0033	<0.0030	<0.0044	<0.0051	<0.0037	<0.0037	<0.0049	<0.0046	<0.0045	<0.0036	<0.0031	<0.0039	<0.0030	<0.0048
Trichloroethene	mg/kg	<0.0046	<0.0039	<0.0036	<0.0044	<0.0056	<0.0043	<0.0045	<0.0036	<0.0051	<0.0031	<0.0033	<0.0030	<0.0044	<0.0051	<0.0037	<0.0037	<0.0049	<0.0046	<0.0045	<0.0036	<0.0031	<0.0039	<0.0030	<0.0048
Trichlorofluoromethane	mg/kg	<0.0046	<0.0039	<0.0036	<0.0044	<0.0056	<0.0043	<0.0045	<0.0036	<0.0051	<0.0031	<0.0033	<0.0030	<0.0044	<0.0051	<0.0037	<0.0037	<0.0049	<0.0046	<0.0045	<0.0036	<0.0031	<0.0039	<0.0030	<0.0048
Vinyl Chloride	mg/kg	<0.0092	<0.0077	<0.0072	<0.0087	<0.0112	<0.0086	<0.0090	<0.0072	<0.0102	<0.0061	<0.0066	<0.0061	<0.0089	<0.0102	<0.0074	<0.0075	<0.0098	<0.0091	<0.0089	<0.0071	<0.0063	<0.0078	<0.0059	<0.0095
Xylene O	mg/kg	<0.0046	0.0055	<0.0036	<0.0044	<0.0056	<0.0043	<0.0045	<0.0036	<0.0051	<0.0031	<0.0033	<0.0030	<0.0044	<0.0051	<0.0037	<0.0037	<0.0049	<0.0046	<0.0045	<0.0036	<0.0031	<0.0039	<0.0030	<0.0048
Xylene P,M	mg/kg	<0.0092	<0.0077	<0.0072	<0.0087	<0.0112	<0.0086	<0.0090	<0.0072	<0.0102	<0.0061	<0.0066	<0.0061	<0.0089	<0.0102	<0.0074	<0.0075	<0.0098	<0.0091	<0.0089	<0.0071	<0.0063	<0.0078	<0.0059	<0.0095
Xylenes (Total)	mg/kg	<0.0092	<0.0077	<0.0072	<0.0087	<0.0112	<0.0086	<0.0090	<0.0072	<0.0102	<0.0061	<0.0066	<0.0061	<0.0089	<0.0102	<0.0074	<0.0075	<0.0098	<0.0091	<0.0089	<0.0071	<0.0063	<0.0078	<0.0059	<0.0095
Total VOCs (Low Level)	mg/kg	0.9985	1.1081	ND	0.0514	0.0231	ND	0.1418	0.2015	0.0436	0.0176	0.0583	0.4608	ND	ND	ND	0.0056	0.0461	0.0344	0.0215	0.0162	0.0235	0.0185	ND	ND
Semi-Volatile Organic Compounds																									
1,2,4-Trichlorobenzene	mg/kg	<0.965	<0.963	<0.892	<0.937	<1.19	<1.11	<1.15	<1.21	<1.20	<0.925	<1.06	<0.915	<0.860	<0.904	<1.02	<0.985	<1.09	<1.14	<1.02	<0.998	<0.999	<0.836	<0.935	<0.847
1,2-Dichlorobenzene	mg/kg	<0.965	<0.963	<0.892	<0.937	<1.19	<1.11	<1.15	<1.21	<1.20	<0.925	<1.06	<0.915	<0.860	<0.904	<1.02	<0.985	<1.09	<1.14	<1.02	<0.998	<0.999	<0.836	<0.935	<0.847
1,3-Dichlorobenzene	mg/kg	<0.965	<0.963	<0.892	<0.937	<1.19	<1.11	<1.15	<1.21	<1.20	<0.925	<1.06	<0.915	<0.860	<0.904	<1.02	<0.985	<1.09	<1.14	<1.02	<0.998	<0.999	<0.836	<0.935	<0.847
1,4-Dichlorobenzene	mg/kg	<0.484	<0.483	<0.447	<0.470	<0.597	<0.557	<0.576	<0.608	<0.602	<0.464	<0.534	<0.459	<0.431	<0.453	<0.513	<0.494	<0.548	<0.572	<0.511	<0.500	<0.501	<0.419	<0.469	<0.425
2,4,5-Trichlorophenol	mg/kg	<0.965	<0.963	<0.892	<0.937	<1.19	<1.11	<1.15	<1.21	<1.20	<0.925	<1.06	<0.915	<0.860	<0.904	<1.02	<0.985	<1.09	<1.14	<1.02	<0.998	<0.999	<0.836	<0.935	<0.847
2,4,6-Trichlorophenol	mg/kg	<0.965	<0.963	<0.892	<0.937	<1.19	<1.11	<1.15	<1.21	<1.20	<0.925	<1.06	<0.915	<0.860	<0.904	<1.02	<0.985	<1.09	<1.14	<1.02	<0.998	<0.999	<0.836	<0.935	<0.847
2,4-Dichlorophenol	mg/kg	<0.965	<0.963	<0.892	<0.937	<1.19	<1.11	<1.15	<1.21	<1.20	<0.925	<1.06	<0.915	<0.860	<0.904	<1.02	<0.985	<1.09	<1.14	<1.02	<0.998	<0.999	<0.836	<0.935	<0.847
2,4-Dimethylphenol	mg/kg	<0.965	<0.963	<0.892	<0.937	<1.19	<1.11	<1.15	<1.21	<1.20	<0.925	<1.06	<0.915	<0.860	<0.904	<1.02	<0.985	<1.09	<1.14	<1.02	<0.998	<0.999	<0.836	<0.935	<0.847
2,4-Dinitrophenol	mg/kg	<4.84	<4.83	<4.47	<4.70	<5.97	<5.57	<5.76	<6.08	<6.02	<4.64	<5.34	<4.59	<4.31	<4.53	<5.13	<4.94	<5.48	<5.72	<5.11	<5.00	<5.01	<4.19	<4.69	<4.25
2,4-Dinitrotoluene	mg/kg	<0.965	<0.963	<0.892	<0.937	<1.19	<1.11	<1.15	<1.21	<1.20	<0.925	<1.06	<0.915	<0.860	<0.904	<1.02	<0.985	<1.09	<1.14	<1.02	<0.998	<0.999	<0.836	<0.935	<0.847
2,6-Dinitrotoluene	mg/kg	<0.965	<0.963	<0.892	<0.937	<1.19	<1.11	<1.15	<1.21	<1.20	<0.925	<1.06	<0.915	<0.860	<0.904	<1.02	<0.985	<1.09	<1.14	<1.02	<0.998	<0.999	<0.836	<0.935	<0.847
2-Chloronaphthalene	mg/kg	<0.965	<0.963	<0.892	<0.937	<1.19	<1.11	<1.15	<1.21	<1.20	<0.925	<1.06	<0.915	<0.860	<0.904	<1.02	<0.985	<1.09	<1.14	<1.02	<0.998	<0.999	<0.836	<0.935	<0.847
2-Chlorophenol	mg/kg	<0.965	<0.963	<0.892	<0.937	<1.19	<1.11	<1.15	<1.21	<1.20	<0.925	<1.06	<0.915	<0.860	<0.904	<1.02	<0.985	<1.09	<1.14	<1.02	<0.998	<0.999	<0.836	<0.935	<0.847
2-Methylnaphthalene	mg/kg	<0.965	<0.963	<0.892	<0.937	<1.19	<1.11	<1.15	<1.21	<1.20	<0.925	<1.06	<0.915	<0.860	<0.904	<1.02	<0.985	<1.09	<1.14	<1.02	<0.998	<0.999	<0.836	<0.935	<0.847
2-Methylphenol	mg/kg	<0.965	<0.963	<0.892	<0.937	<1.19	<1.11	<1.15	<1.21	<1.20	<0.925	<1.06	<0.915	<0.860	<0.904	<1.02	<0.985	<1.09	<1.14	<1.02	<0.998	<0.999	<0.836	<0.935	<0.847
2-Nitrophenol	mg/kg	<0.965	<0.963	<0.892	<0.937	<1.19	<1.11	<1.15	<1.21	<1.20	<0.925	<1.06	<0.915	<0.860	<0.904	<1.02	<0.985	<1.09	<1.14	<1.02	<0.998	<0.999	<0.836	<0.935	<0.847
3,3´-Dichlorobenzidine	mg/kg	<1.93	<1.93	<1.79	<1.88	<2.38	<2.22	<2.30	<2.43	<2.40	<1.85	<2.13	<1.83	<1.72	<1.81	<2.05	<1.97	<2.19	<2.29	<2.04	<2.00	<2.00	<1.68	<1.87	<1.70
3+4-Methylphenol	mg/kg	<1.93	<1.93	<1.79	<1.88	<2.38	<2.22	<2.30	2.92	<2.40	<1.85	<2.13	<1.83	<1.72	<1.81	<2.05	<1.97	<2.19	<2.29	<2.04	<2.00	<2.00	<1.68	<1.87	<1.70
4-Bromophenyl-phenylether	mg/kg	<0.965	<0.963	<0.892	<0.937	<1.19	<1.11	<1.15	<1.21	<1.20	<0.925	<1.06	<0.915	<0.860	<0.904	<1.02	<0.985	<1.09	<1.14	<1.02	<0.998	<0.999	<0.836	<0.935	<0.847
4-Chloroaniline	mg/kg	<1.93	<1.93	<1.79	<1.88	<2.38	<2.22	<2.30	<2.43	<2.40	<1.85	<2.13	<1.83	<1.72	<1.81	<2.05	<1.97	<2.19	<2.29	<2.04	<2.00	<2.00	<1.68	<1.87	<1.70
4-Nitrophenol	mg/kg	<4.84	<4.83	<4.47	<4.70	<5.97	<5.57	<5.76	<6.08	<6.02	<4.64	<5.34	<4.59	<4.31	<4.53	<5.13	<4.94	<5.48	<5.72	<5.11	<5.00	<5.01	<4.19	<4.69	<4.25
Acenaphthene	mg/kg	<0.965	<0.963	<0.892	<0.937	<1.19	<1.11	<1.15	<1.21	<1.20	<0.925	<1.06	<0.915	2.21	4.07	<1.02	<0.985	<1.09	<1.14	<1.02	<0.998	<0.999	<0.836	<0.935	<0.847
Acenaphthylene	mg/kg	<0.965	<0.963	<0.892	<0.937	<1.19	<1.11	<1.15	<1.21	<1.20	<0.925	<1.06	<0.915	<0.860	<0.904	<1.02	<0.985	<1.09	<1.14	<1.02	<0.998	<0.999	<0.836	<0.935	<0.847
Acetophenone	mg/kg	<1.93	<1.93	<1.79	<1.88	<2.38	<2.22	<2.30	<2.43	<2.40	<1.85	<2.13	<1.83	<1.72	<1.81	<2.05	<1.97	<2.19	<2.29	<2.04	<2.00	<2.00	<1.68	<1.87	<1.70
Aniline	mg/kg	<4.84	<4.83	<4.47	<4.70	<5.97	<5.57	<5.76	<6.08	<6.02	<4.64	<5.34	<4.59	<4.31	<4.53	<5.13	<4.94	<5.48	<5.72	<5.11	<5.00	<5.01	<4.19	<4.69	<4.25
Anthracene	mg/kg	<0.965	<0.963	<0.892	<0.937	2.62	<1.11	<1.15	<1.21	<1.20	<0.925	<1.06	<0.915	3.6	17	<1.02	<0.985	<1.09	<1.14	<1.02	<0.998	<0.999	<0.836	<0.935	<0.847
Azobenzene	mg/kg	<0.965	<0.963	<0.892	<0.937	<1.19	<1.11	<1.15	<1.21	<1.20	<0.925	<1.06	<0.915	<0.860	<0.904	<1.02	<0.985	<1.09	<1.14	<1.02	<0.998	<0.999	<0.836	<0.935	<0.847
Benzo(a)anthracene	mg/kg	<0.965	<0.963	<0.892	2.15	8.43	<1.11	<1.15	<1.21	<1.20	<0.925	<1.06	<0.915	12.7	28.7	<1.02	<0.985	<1.09	<1.14	<1.02	<0.998	<0.999	<0.836	<0.935	<0.847
Benzo(a)pyrene	mg/kg	<0.484	<0.483	0.688	1.75	5.03	<0.557	<0.576	<0.608	<0.602	<0.464	<0.534	<0.459	12.7	20.9	<0.513	<0.494	<0.548	<0.572	<0.511	<0.500	<0.501	<0.419	<0.469	<0.425
Benzo(b)fluoranthene	mg/kg	<0.965	<0.963	0.969	2.4	9.16	<1.11	<1.15	<1.21	<1.20	<0.925	<1.06	<0.915	14.4	23.7	<1.02	<0.985	<1.09	<1.14	<1.02	<0.998	<0.999	<0.836	<0.935	<0.847
Benzo(g,h,i)perylene	mg/kg	<0.965	<0.963	<0.892	<0.937	2.72	<1.11	<1.15	<1.21	<1.20	<0.925	<1.06	<0.915	4.49	7.49	<1.02	<0.985	<1.09	<1.14	<1.02	<0.998	<0.999	<0.836	<0.935	<0.847
Benzo(k)fluoranthene	mg/kg	<0.965	<0.963	<0.892	<0.937	3.59	<1.11	<1.15	<1.21	<1.20	<0.925	<1.06	<0.915	4.41	9.71	<1.02	<0.985	<1.09	<1.14	<1.02	<0.998	<0.999	<0.836	<0.935	<0.847
bis(2-Chloroethoxy)methane	mg/kg	<0.965	<0.963	<0.892	<0.937	<1.19	<1.11	<1.15	<1.21	<1.20	<0.925	<1.06	<0.915	<0.860	<0.904	<1.02	<0.985	<1.09	<1.14	<1.02	<0.998	<0.999	<0.836	<0.935	<0.847
bis(2-Chloroethyl)ether	mg/kg	<0.484	<0.483	<0.447	<0.470	<0.597	<0.557	<0.576	<0.608	<0.602	<0.464	<0.534	<0.459	<0.431	<0.453	<0.513	<0.494	<0.548	<0.572	<0.511	<0.500	<0.501	<0.419	<0.469	<0.425
bis(2-chloroisopropyl)Ether	mg/kg	<0.484	<0.483	<0.447	<0.470	<0.597	<0.557	<0.576	<0.608	<0.602	<0.464	<0.534	<0.459	<0.431	<0.453	<0.513	<0.494	<0.548	<0.572	<0.511	<0.500	<0.501	<0.419	<0.469	<0.425
bis(2-Ethylhexyl)phthalate	mg/kg	<0.965	<0.963	<0.892	<0.937	<1.19	<1.11	<1.15	<1.21	<1.20	<0.925	<1.06	<0.915	<0.860	7.79	3.97	<0.985	1.27	<1.14	<1.02	1.22	<0.999	<0.836	<0.935	<0.847
Butylbenzylphthalate	mg/kg	<0.965	<0.963	<0.892	<0.937	<1.19	<1.11	<1.15	<1.21	<1.20	<0.925	<1.06	<0.915	<0.860	<0.904	<1.02	<0.985	<1.09	<1.14	<1.02	<0.998	<0.999	<0.836	<0.935	<0.847
Chrysene	mg/kg	<0.484	<0.483	0.82	2.19	9.88	<0.557	<0.576	<0.608	<0.602	<0.464	<0.534	<0.459	12.3	26.7	<0.513	<0.494	<0.548	<0.572	<0.511	<0.500	<0.501	<0.419	<0.469	<0.425
Dibenzo(a,h)Anthracene	mg/kg	<0.484	<0.483	<0.447	<0.470	1.57	<0.557	<0.576	<0.608	<0.602	<0.464	<0.534	<0.459	2.63	4.93	<0.513	<0.494	<0.548	<0.572	<0.511	<0.500	<0.501	<0.419	<0.469	<0.425
Dibenzofuran	mg/kg	<0.965	<0.963	<0.892	<0.937	<1.19	<1.11	<1.15	<1.21	<1.20	<0.925	<1.06	<0.915	<0.860	3.07	<1.02	<0.985	<1.09	<1.14	<1.02	<0.998	<0.999	<0.836	<0.935	<0.847
Diethylphthalate	mg/kg	<0.965	<0.963	<0.892	<0.937	<1.19	<1.11	<1.15	<1.21	<1.20	<0.925	<1.06	<0.915	<0.860	<0.904	<1.02	<0.985	<1.09	<1.14	<1.02	<0.998	<0.999	<0.836	<0.935	<0.847
Dimethylphthalate	mg/kg	<0.965	<0.963	<0.892	<0.937	<1.19	<1.11	<1.15	<1.21	<1.20	<0.925	<1.06	<0.915	<0.860	<0.904	<1.02	<0.985	<1.09	<1.14	<1.02	<0.998	<0.999	<0.836	<0.935	<0.847
Di-n-butylphthalate	mg/kg	<0.965	<0.963	<0.892	<0.937	<1.19	<1.11	<1.15	<1.21	<1.20	<0.925	<1.06	<0.915	<0.860	<0.904	<1.02	<0.985	<1.09	<1.14	<1.02	<0.998	<0.999	<0.836	<0.935	<0.847
Di-n-octylphthalate	mg/kg	<0.965	<0.963	<0.892	<0.937	<1.19	<1.11	<1.15	<1.21	<1.20	<0.925	<1.06	<0.915	<0.860	<0.904	<1.02	<0.985	<1.09	<1.14	<1.02	<0.998	<0.999	<0.836	<0.935	<0.847
Fluoranthene	mg/kg	<0.965	<0.963	1.51	4.8	20.3	<1.11	<1.15	<1.21	<1.20	<0.925	<1.06	<0.915	22	59.6	<1.02	<0.985	<1.09	<1.14	<1.02	<0.998	<0.999	<0.836	<0.935	<0.847
Fluorene	mg/kg	<0.965	<0.963	<0.892	<0.937	<1.19	<1.11	<1.15	<1.21	<1.20	<0.925	<1.06	<0.915	1.5	5.27	<1.02	<0.985	<1.09	<1.14	<1.02	<0.998	<0.999	<0.836	<0.935	<0.847
Hexachlorobenzene	mg/kg	<0.484	<0.483	<0.447	<0.470	<0.597	<0.557	<0.576	<0.608	<0.602	<0.464	<0.534	<0.459	<0.431	<0.453	<0.513	<0.494	<0.548	<0.572	<0.511	<0.500	<0.501	<0.419	<0.469	<0.425
Hexachlorobutadiene	mg/kg	<0.965	<0.963	<0.892	<0.937	<1.19	<1.11	<1.15	<1.21	<1.20	<0.925	<1.06	<0.915	<0.860	<0.904	<1.02	<0.985	<1.09	<1.14	<1.02	<0.998	<0.999	<0.836	<0.935	<0.847
Hexachloroethane	mg/kg	<0.965	<0.963	<0.892	<0.937	<1.19	<1.11	<1.15	<1.21	<1.20	<0.925	<1.06	<0.915	<0.860	<0.904	<1.02	<0.985	<1.09	<1.14	<1.02	<0.998	<0.999	<0.836	<0.935	<0.847
Indeno(1,2,3-cd)Pyrene	mg/kg	<0.965	<0.963	<0.892	<0.937	3	<1.11	<1.15	<1.21	<1.20	<0.925	<1.06	<0.915	4.61	8.65	<1.02	<0.985	<1.09	<1.14	<1.02	<0.998	<0.999	<0.836	<0.935	<0.847
Isophorone	mg/kg	<0.965	<0.963	<0.892	<0.937	<1.19	<1.11	<1.15	<1.21	<1.20	<0.925	<1.06	<0.915	<0.860	<0.904	<1.02	<0.985	<1.09	<1.14	<1.02	<0.998	<0.999	<0.836	<0.935	<0.847
Naphthalene	mg/kg	<0.965	<0.963	<0.892	<0.937	<1.19	<1.11	<1.15	<1.21	<1.20	<0.925	<1.06	2.16	<0.860	1.65	<1.02	<0.985	<1.09	<1.14	<1.02	<0.998	<0.999	<0.836	<0.935	<0.847
Nitrobenzene	mg/kg	<0.965	<0.963	<0.892	<0.937	<1.19	<1.11	<1.15	<1.21	<1.20	<0.925	<1.06	<0.915	<0.860	<0.904	<1.02	<0.985	<1.09	<1.14	<1.02	<0.998	<0.999	<0.836	<0.935	<0.847
N-Nitrosodimethylamine	mg/kg	<0.965	<0.963	<0.892	<0.937	<1.19	<1.11	<1.15	<1.21	<1.20	<0.925	<1.06	<0.915	<0.860	<0.904	<1.02	<0.985	<1.09	<1.14	<1.02	<0.998	<0.999	<0.836	<0.935	<0.847
Pentachlorophenol	mg/kg	<4.84	<4.83	<4.47	<4.70	<5.97	<5.57	<5.76	<6.08	<6.02	<4.64	<5.34	<4.59	<4.31	<4.53	<5.13	<4.94	<5.48	<5.72	<5.11	<5.00	<5.01	<4.19	<4.69	<4.25
Phenanthrene	mg/kg	<0.965	<0.963	<0.892	3.76	15.6	<1.11	<1.15	<1.21	<1.20	<0.925	<1.06	<0.915	12.8	41.8	<1.02	<0.985	<1.09	<1.14	<1.02	<0.998	<0.999	<0.836	<0.935	<0.847
Phenol	mg/kg	<0.965	<0.963	<0.892	<0.937	<1.19	<1.11	<1.15	<1.21	<1.20	<0.925	<1.06	<0.915	<0.860	<0.904	<1.02	<0.985	<1.09	<1.14	<1.02	<0.998	<0.999	<0.836	<0.935	<0.847
Pyrene	mg/kg	<0.965	<0.963	1.5	3.73	12	<1.11	<1.15	<1.21	<1.20	<0.925	<1.06	<0.915	16.9	45.2	<1.02	<0.985	<1.09	<1.14	<1.02	<0.998	<0.999	<0.836	<0.935	<0.847
Total SVOCs	mg/kg	ND	ND	5.487	20.78	93.9	ND	ND	2.92	ND	ND	ND	2.16	127.25	316.23	3.97	ND	1.27	ND	ND	1.22	ND	ND	ND	ND
Classic Chemistry																									
Corrosivity (pH)	S.U.	4.74	4.86	8.22	7.67	7.45	4.42	4.12	4.33	6.96	7.11	6.4	6.88	9.22	9.09	7.99	7.07	7.79	7.86	7.94	7.78	7.32	7.35	7.58	9
Conductivity	umhos/cm	1120	1920	268	955	692	1050	1530	1370	890	1140	1550	1820	217	1480	1430	980	1130	1430	1520	1410	1580	1600	2180	170
Flashpoint	°F	--	--	>200	>200	>200	--	--	--	--	--	--	--	>200	>200	>200	--	--	--	--	--	--	--	--	>200
Reactive Cyanide	mg/kg	--	--	<2.0	<2.0	<2.0	--	--	--	--	--	--	--	<2.0	<2.0	<2.0	--	--	--	--	--	--	--	--	<2.0
Reactive Sulfide	mg/kg	--	--	<2.0	<2.0	<2.0	--	--	--	--	--	--	--	<2.0	<2.0	<2.0	--	--	--	--	--	--	--	--	<2.0

Analyte	Precharacterization Cell	B23	B23	B23	B23	B23	B23	B23	B23	B23	B23	B24	B24	B24	B24	B24	B24	B24	B24	B24	B24	C01	C01	C01
	Sample ID	B23S02BS04A	B23S04BS05	B23S06	B23S07	B23S08	B23S09	B23S10	B23S11	B23S12S13	B23S14	GZ021S01S02A	GZ021S02BS04A	GZ021S04BS05	GZ021S06S07A	GZ021S07B	GZ021S08	GZ021S10	GZ021S13	GZ021S15	GZ021S16A	GZ021S19	C01S01S02	C01S03S04A	C01S04B
	Laboratory Work Order	1412438	1412438	1412438	1412438	1412438	1412438	1412438	1412438	1412438	1412438	1502372	1502372	1503098	1502372	1502372	1502372	1502372	1502372	1502372	1502372	1502372	1412179	1412179	1412179
	Soil Distinction	Fill	Fill	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Fill	Fill	Fill	Fill	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Fill	Fill	Natural
	Soil Type			Organics	Organics	Organics	Organics	Organics	Organics	Organics	Clay					Organics	Organics	Organics	Organics	Organics	Organics	Organics			Organics
	Depth Interval (ft.)	3.3 - 6.6	6.6 - 10	10 - 14	14 - 19	19 - 24	28 - 29	29 - 34	39 - 39	39 - 44	11 - 46	0 - 3.3	3.3 - 6.6	6.6 - 10	10 - 12.3	12.3 - 14	14 - 16	18 - 20	24 - 26	28 - 30	32 - 32.6	36 - 38	0 - 3.3	3.3 - 6.6	6.6 - 6.9
	Sampling Date	12/19/2014	12/19/2014	12/19/2014	12/19/2014	12/19/2014	12/19/2014	12/19/2014	12/19/2014	12/19/2014	12/19/2014	2/25/2015	2/25/2015	3/5/2015	2/25/2015	2/25/2015	2/25/2015	2/25/2015	2/25/2015	2/25/2015	2/25/2015	2/25/2015	12/9/2014	12/9/2014	12/9/2014
Preliminary Disposal Facility Category		Hazardous Material Type B	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type B	Hazardous Material Type B	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Uncontaminated	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type B	Hazardous Material Type A
RCRA 8 Metals	**Units**																								
Arsenic	mg/kg	144	901	51.8	35.4	7.17	4.15	3.14	2.63	2.64	9.34	7.81	26.5	336	48.4	9.17	<9.67	<8.89	<9.13	<7.44	<6.93	<7.32	9.14	693	266
Barium	mg/kg	172	115	34.2	23.5	20.1	12.8	13.1	13.3	14.3	85.1	25.2	57.9	304	146	31.5	15.9	22.1	23	16.5	9.92	13.2	21.3	160	30.9
Cadmium	mg/kg	0.95	7.49	<0.71	<0.50	<0.53	<0.68	<0.50	<0.46	<0.50	<1.04	<1.23	<1.37	<4.42	<1.65	<1.80	<1.93	<1.78	<1.83	<1.49	<1.39	<1.46	<0.54	15.3	6
Chromium	mg/kg	16.3	10.4	26.2	19.9	20.2	12.8	12.9	12.3	10.3	49.4	36.2	20.9	5.2	<3.30	27	16.3	21.9	22.2	15.8	9.57	12.6	9.5	6.38	7.67
Lead	mg/kg	6490	7350	615	189	30.4	<6.76	<4.96	<4.64	<4.99	13.7	40.4	1230	3650	1140	82.6	<19.3	<17.8	<18.3	<14.9	<13.9	<14.6	56.4	33100	1910
Selenium	mg/kg	334	29.4	<14.2	<9.91	<10.7	<13.5	<9.92	<9.29	<9.98	<10.4	<6.13	39	159	9.18	<9.01	<9.67	<8.89	<9.13	<7.44	<6.93	<7.32	<2.68	451	20
Silver	mg/kg	9.5	6.09	2.11	<0.50	<0.53	<0.68	<0.50	<0.46	<0.50	0.82	<1.23	2.27	20.8	3.99	<1.80	<1.93	<1.78	<1.83	<1.49	<1.39	<1.46	<0.54	25.7	<0.68
Mercury	mg/kg	80.6	1.64	0.326	0.075	<0.042	<0.042	<0.041	<0.041	<0.039	<0.044	0.111	10.8	3.9	0.795	0.103	<0.048	<0.039	<0.044	<0.045	<0.034	<0.038	0.222	871	12.7
Metals by Toxicity Characteristic Leaching Procedure (TCLP)																									
Arsenic	mg/L	<0.050	0.122	--	--	--	--	--	--	--	--	--	--	<0.500	--	--	--	--	--	--	--	--	--	0.587	0.062
Cadmium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead	mg/L	14.8	1.15	0.112	<0.050	--	--	--	--	--	--	--	0.078	17.5	19.1	--	--	--	--	--	--	--	--	217	<0.050
Selenium	mg/L	<0.050	<0.050	--	--	--	--	--	--	--	--	--	<0.050	<0.500	--	--	--	--	--	--	--	--	--	<0.050	<0.050
Mercury	mg/L	<0.00050	--	--	--	--	--	--	--	--	--	--	<0.00050	--	--	--	--	--	--	--	--	--	--	0.00089	<0.00050
Herbicides																									
2,4,5-T	mg/kg	<0.24	<0.24	--	--	--	--	--	--	--	--	<0.053	<0.056	<0.051	<0.35	--	--	--	--	--	--	--	<0.058	<0.067	<0.10
2,4-D	mg/kg	<1.2	<1.2	--	--	--	--	--	--	--	--	<0.053	<0.056	<0.25	<0.35	--	--	--	--	--	--	--	<0.058	<0.067	<0.10
2,4-DB	mg/kg	<0.090	<0.091	--	--	--	--	--	--	--	--	<0.053	<0.056	<0.019	<0.35	--	--	--	--	--	--	--	<0.058	<0.067	<0.10
Dalapon	mg/kg	<7.2	<7.3	--	--	--	--	--	--	--	--	<0.64	<0.68	<1.5	<4.2	--	--	--	--	--	--	--	<0.70	<0.81	<1.2
Dicamba	mg/kg	<0.36	<0.36	--	--	--	--	--	--	--	--	<0.053	<0.056	<0.076	<0.35	--	--	--	--	--	--	--	<0.058	<0.067	<0.10
Dichlorprop	mg/kg	<0.78	<0.79	--	--	--	--	--	--	--	--	<0.053	<0.056	<0.16	<0.35	--	--	--	--	--	--	--	<0.058	<0.067	<0.10
Dinoseb	mg/kg	<1.2	<1.2	--	--	--	--	--	--	--	--	<0.32	<0.34	<0.25	<2.1	--	--	--	--	--	--	--	<0.35	<0.40	<0.60
MCPA	mg/kg	<300	<300	--	--	--	--	--	--	--	--	<13	<14	<63	<83	--	--	--	--	--	--	--	<14	<16	<24
MCPP	mg/kg	<300	<300	--	--	--	--	--	--	--	--	<13	<14	<63	<83	--	--	--	--	--	--	--	<14	<16	<24
Silvex (2,4,5-TP)	mg/kg	<0.24	<0.24	--	--	--	--	--	--	--	--	<0.053	<0.056	<0.051	<0.35	--	--	--	--	--	--	--	<0.058	<0.067	<0.10
Pesticides																									
4,4'-DDD	mg/kg	<0.0020	<0.0021	--	--	--	--	--	--	--	--	<0.0037	<0.0039	<0.0021	<0.0024	--	--	--	--	--	--	--	<0.0020	<0.0024	<0.0034
4,4'-DDE	mg/kg	<0.0020	<0.0021	--	--	--	--	--	--	--	--	<0.0037	<0.0039	<0.0021	<0.0024	--	--	--	--	--	--	--	<0.0020	<0.0024	<0.0034
4,4'-DDT	mg/kg	<0.0020	<0.0021	--	--	--	--	--	--	--	--	<0.0037	<0.0039	<0.0021	<0.0024	--	--	--	--	--	--	--	<0.0020	<0.0024	<0.0034
Aldrin	mg/kg	<0.0020	<0.0021	--	--	--	--	--	--	--	--	<0.0037	<0.0039	<0.0021	<0.0024	--	--	--	--	--	--	--	<0.0020	<0.0024	<0.0034
alpha-BHC	mg/kg	<0.0020	<0.0021	--	--	--	--	--	--	--	--	<0.0037	<0.0039	<0.0021	<0.0024	--	--	--	--	--	--	--	<0.0020	<0.0024	<0.0034
beta-BHC	mg/kg	<0.0020	<0.0021	--	--	--	--	--	--	--	--	<0.0037	<0.0039	<0.0021	<0.0024	--	--	--	--	--	--	--	<0.0020	<0.0024	<0.0034
Chlordane (technical)	mg/kg	<0.020	<0.021	--	--	--	--	--	--	--	--	<0.037	<0.039	<0.021	<0.024	--	--	--	--	--	--	--	<0.020	<0.024	<0.034
delta-BHC	mg/kg	<0.0020	<0.0021	--	--	--	--	--	--	--	--	<0.0037	<0.0039	<0.0021	<0.0024	--	--	--	--	--	--	--	<0.0020	<0.0024	<0.0034
Dieldrin	mg/kg	<0.0020	<0.0021	--	--	--	--	--	--	--	--	<0.0037	<0.0039	<0.0021	<0.0024	--	--	--	--	--	--	--	<0.0020	<0.0024	<0.0034
Endosulfan I	mg/kg	<0.0020	<0.0021	--	--	--	--	--	--	--	--	<0.0037	<0.0039	<0.0021	<0.0024	--	--	--	--	--	--	--	<0.0020	<0.0024	<0.0034
Endosulfan II	mg/kg	<0.0020	<0.0021	--	--	--	--	--	--	--	--	<0.0037	<0.0039	<0.0021	<0.0024	--	--	--	--	--	--	--	<0.0020	<0.0024	<0.0034
Endosulfan sulfate	mg/kg	<0.0020	<0.0021	--	--	--	--	--	--	--	--	<0.0037	<0.0039	<0.0021	<0.0024	--	--	--	--	--	--	--	<0.0020	<0.0024	<0.0034
Endrin	mg/kg	<0.0020	<0.0021	--	--	--	--	--	--	--	--	<0.0037	<0.0039	<0.0021	<0.0024	--	--	--	--	--	--	--	<0.0020	<0.0024	<0.0034
Endrin ketone	mg/kg	<0.0020	<0.0021	--	--	--	--	--	--	--	--	<0.0037	<0.0039	<0.0021	<0.0024	--	--	--	--	--	--	--	<0.0020	<0.0024	<0.0034
gamma-BHC (Lindane)	mg/kg	<0.0020	<0.0021	--	--	--	--	--	--	--	--	<0.0037	<0.0039	<0.0021	<0.0024	--	--	--	--	--	--	--	<0.0020	<0.0024	<0.0034
Heptachlor	mg/kg	<0.0020	<0.0021	--	--	--	--	--	--	--	--	<0.0037	<0.0039	<0.0021	<0.0024	--	--	--	--	--	--	--	<0.0020	<0.0024	<0.0034
Heptachlor epoxide	mg/kg	<0.0020	<0.0021	--	--	--	--	--	--	--	--	<0.0037	<0.0039	<0.0021	<0.0024	--	--	--	--	--	--	--	<0.0020	<0.0024	<0.0034
Hexachlorobenzene	mg/kg	<0.0020	<0.0021	--	--	--	--	--	--	--	--	<0.0037	<0.0039	<0.0021	<0.0024	--	--	--	--	--	--	--	<0.0020	<0.0024	<0.0034
Methoxychlor	mg/kg	<0.0020	<0.0021	--	--	--	--	--	--	--	--	<0.0037	<0.0039	<0.0021	<0.0024	--	--	--	--	--	--	--	<0.0020	<0.0024	<0.0034
Polychlorinated Biphenyls																									
Aroclor 1016	mg/kg	<0.140	<0.142	<0.202	<0.172	<0.174	<0.164	<0.164	<0.156	<0.149	<0.160	<0.128	<0.124	<0.173	<0.160	<0.192	<0.181	<0.168	<0.181	<0.157	<0.147	<0.155	<0.124	<0.169	<0.228
Aroclor 1221	mg/kg	<0.140	<0.142	<0.202	<0.172	<0.174	<0.164	<0.164	<0.156	<0.149	<0.160	<0.128	<0.124	<0.173	<0.160	<0.192	<0.181	<0.168	<0.181	<0.157	<0.147	<0.155	<0.124	<0.169	<0.228
Aroclor 1232	mg/kg	<0.140	<0.142	<0.202	<0.172	<0.174	<0.164	<0.164	<0.156	<0.149	<0.160	<0.128	<0.124	<0.173	<0.160	<0.192	<0.181	<0.168	<0.181	<0.157	<0.147	<0.155	<0.124	<0.169	<0.228
Aroclor 1242	mg/kg	<0.140	<0.142	<0.202	<0.172	<0.174	<0.164	<0.164	<0.156	<0.149	<0.160	<0.128	<0.124	<0.173	<0.160	<0.192	<0.181	<0.168	<0.181	<0.157	<0.147	<0.155	<0.124	<0.169	<0.228
Aroclor 1248	mg/kg	<0.140	<0.142	<0.202	<0.172	<0.174	<0.164	<0.164	<0.156	<0.149	<0.160	<0.128	<0.124	<0.173	<0.160	<0.192	<0.181	<0.168	<0.181	<0.157	<0.147	<0.155	<0.124	<0.169	<0.228
Aroclor 1254	mg/kg	0.178	1.1	<0.202	<0.172	<0.174	<0.164	<0.164	<0.156	<0.149	<0.160	<0.128	0.7	<0.173	<0.160	<0.192	<0.181	<0.168	<0.181	<0.157	<0.147	<0.155	<0.124	<0.169	<0.228
Aroclor 1260	mg/kg	<0.140	<0.142	<0.202	<0.172	<0.174	<0.164	<0.164	<0.156	<0.149	<0.160	<0.128	<0.124	<0.173	<0.160	<0.192	<0.181	<0.168	<0.181	<0.157	<0.147	<0.155	<0.124	<0.169	<0.228
Aroclor 1262	mg/kg	<0.140	<0.142	<0.202	<0.172	<0.174	<0.164	<0.164	<0.156	<0.149	<0.160	<0.128	<0.124	<0.173	<0.160	<0.192	<0.181	<0.168	<0.181	<0.157	<0.147	<0.155	<0.124	<0.169	<0.228
Aroclor 1268	mg/kg	<0.140	<0.142	<0.202	<0.172	<0.174	<0.164	<0.164	<0.156	<0.149	<0.160	<0.128	<0.124	<0.173	<0.160	<0.192	<0.181	<0.168	<0.181	<0.157	<0.147	<0.155	<0.124	<0.169	<0.228
Total PCBs	mg/kg	0.178	1.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Petroleum Hydrocarbons	mg/kg	288	1990	262	275	68.4	54.2	<49.4	<49.6	<44.2	<54.3	45.3	710	511	<48.9	112	<58.6	<51.0	<57.6	<52.8	<49.1	<49.5	60.7	8580	9740
Volatile Organic Compounds (VOCs)																									
1,1,1,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.125	<0.226
1,1,1-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0627	<0.113
1,1,2,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0627	<0.113
1,1,2-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0627	<0.113
1,1-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0627	<0.113
1,1-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0627	<0.113
1,1-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0627	<0.113
1,2,3-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0627	<0.113
1,2,3-Trichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0627	<0.113
1,2,4-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0627	<0.113
1,2,4-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.242	0.265
1,2-Dibromo-3-Chloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.251	<0.452
1,2-Dibromoethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0627	<0.113
1,2-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0627	<0.113
1,2-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0627	<0.113
1,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0627	<0.113
1,3,5-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.064	0.133
1,3-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0627	<0.113
1,3-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0627	<0.113
1,4-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0627	<0.113
1,4-Dioxane - Screen	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<6.27	<11.3
2,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.125	<0.226
2-Butanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.251	<0.452
2-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0627	<0.113
2-Hexanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.251	<0.452
4-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0627	<0.113
4-Isopropyltoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0627	<0.113
4-Methyl-2-Pentanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.251	<0.452
Acetone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.251	<0.452
Benzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2.28	0.142
Bromobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0627	<0.113
Bromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0627	<0.113
Bromodichloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0627	<0.113
Bromoform	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0627	<0.113
Bromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.125	<0.226
Carbon Disulfide	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0627	0.224
Carbon Tetrachloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0627	<0.113

Analyte	Precharacterization Cell	B23	B23	B23	B23	B23	B23	B23	B23	B23	B23	B24	B24	B24	B24	B24	B24	B24	B24	B24	C01	C01	C01
	Sample ID	B23S02BS04A	B23S04BS05	B23S06	B23S07	B23S08	B23S09	B23S10	B23S11	B23S12S13	B23S14	GZ021S01S02A	GZ021S02BS04A	GZ021S04BS05	GZ021S06S07A	GZ021S07B	GZ021S08	GZ021S10	GZ021S13	GZ021S15	GZ021S16A	GZ021S19	C01S01S02	C01S03S04A	C01S04B
	Laboratory Work Order	1412438	1412438	1412438	1412438	1412438	1412438	1412438	1412438	1412438	1412438	1502372	1502372	1503098	1502372	1502372	1502372	1502372	1502372	1502372	1502372	1502372	1412179	1412179	1412179
	Soil Distinction	Fill	Fill	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Fill	Fill	Fill	Fill	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Fill	Fill	Natural
	Soil Type			Organics	Organics	Organics	Organics	Organics	Organics	Organics	Clay					Organics	Organics	Organics	Organics	Organics	Organics	Organics			Organics
	Depth Interval (ft.)	3.3 - 6.6	6.6 - 10	10 - 14	14 - 19	19 - 24	28 - 29	29 - 34	39 - 39	39 - 44	11 - 46	0 - 3.3	3.3 - 6.6	6.6 - 10	10 - 12.3	12.3 - 14	14 - 16	18 - 20	24 - 26	28 - 30	32 - 32.6	36 - 38	0 - 3.3	3.3 - 6.6	6.6 - 6.9
	Sampling Date	12/19/2014	12/19/2014	12/19/2014	12/19/2014	12/19/2014	12/19/2014	12/19/2014	12/19/2014	12/19/2014	12/19/2014	2/25/2015	2/25/2015	3/5/2015	2/25/2015	2/25/2015	2/25/2015	2/25/2015	2/25/2015	2/25/2015	2/25/2015	2/25/2015	2/25/2015	12/9/2014	12/9/2014	12/9/2014
Preliminary Disposal Facility Category		Hazardous Material Type B	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type B	Hazardous Material Type B	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Uncontaminated	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type B	Hazardous Material Type A
Chlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0627	<0.113
Chloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.125	<0.226
Chloroform	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.294	<0.113
Chloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.125	<0.226
cis-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0627	<0.113
cis-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0627	<0.113
Dibromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0627	<0.113
Dibromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0627	<0.113
Dichlorodifluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0627	<0.113
Diethyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0627	<0.113
Di-isopropyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0627	<0.113
Ethyl tertiary-butyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0627	<0.113
Ethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.255	0.136
Hexachlorobutadiene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0627	<0.113
Isopropylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0765	<0.113
Methyl tert-Butyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0627	<0.113
Methylene Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.251	<0.452
Naphthalene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3.65	10.3
n-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.46	<0.113
n-Propylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0828	<0.113
sec-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.513	<0.113
Styrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.595	<0.113
tert-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0627	<0.113
Tertiary-amyl methyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0627	<0.113
Tetrachloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0627	<0.113
Tetrahydrofuran	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.251	<0.452
Toluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.177	<0.113
trans-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0627	<0.113
trans-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0627	<0.113
Trichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0627	<0.113
Trichlorofluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0627	<0.113
Vinyl Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0627	<0.113
Xylene O	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0765	<0.113
Xylene P,M	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.201	<0.226
Xylenes (Total)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.277	<0.226
Total VOCs	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	9.2438	11.2
Volatile Organic Compounds - Low Level Analysis																									
1,1,1,2-Tetrachloroethane	mg/kg	<0.0053	<0.0045	<0.0047	<0.0044	<0.0039	<0.0033	<0.0035	<0.0038	<0.0030	<0.0030	<0.0042	<0.0049	<0.0034	<0.0055	<0.0056	<0.0049	<0.0034	<0.0040	<0.0045	<0.0033	<0.0032	<0.0037	--	--
1,1,1-Trichloroethane	mg/kg	<0.0053	<0.0045	<0.0047	<0.0044	<0.0039	<0.0033	<0.0035	<0.0038	<0.0030	<0.0030	<0.0042	<0.0049	<0.0034	<0.0055	<0.0056	<0.0049	<0.0034	<0.0040	<0.0045	<0.0033	<0.0032	<0.0037	--	--
1,1,2,2-Tetrachloroethane	mg/kg	<0.0021	<0.0018	<0.0019	<0.0018	<0.0016	<0.0013	<0.0014	<0.0015	<0.0012	<0.0012	<0.0017	<0.0020	<0.0014	<0.0022	<0.0022	<0.0020	<0.0014	<0.0016	<0.0018	<0.0013	<0.0013	<0.0015	--	--
1,1,2-Trichloroethane	mg/kg	<0.0053	<0.0045	<0.0047	<0.0044	<0.0039	<0.0033	<0.0035	<0.0038	<0.0030	<0.0030	<0.0042	<0.0049	<0.0034	<0.0055	<0.0056	<0.0049	<0.0034	<0.0040	<0.0045	<0.0033	<0.0032	<0.0037	--	--
1,1-Dichloroethane	mg/kg	<0.0053	<0.0045	<0.0047	<0.0044	<0.0039	<0.0033	<0.0035	<0.0038	<0.0030	<0.0030	<0.0042	<0.0049	<0.0034	<0.0055	<0.0056	<0.0049	<0.0034	<0.0040	<0.0045	<0.0033	<0.0032	<0.0037	--	--
1,1-Dichloroethene	mg/kg	<0.0053	<0.0045	<0.0047	<0.0044	<0.0039	<0.0033	<0.0035	<0.0038	<0.0030	<0.0030	<0.0042	<0.0049	<0.0034	<0.0055	<0.0056	<0.0049	<0.0034	<0.0040	<0.0045	<0.0033	<0.0032	<0.0037	--	--
1,1-Dichloropropene	mg/kg	<0.0053	<0.0045	<0.0047	<0.0044	<0.0039	<0.0033	<0.0035	<0.0038	<0.0030	<0.0030	<0.0042	<0.0049	<0.0034	<0.0055	<0.0056	<0.0049	<0.0034	<0.0040	<0.0045	<0.0033	<0.0032	<0.0037	--	--
1,2,3-Trichlorobenzene	mg/kg	<0.0053	<0.0045	<0.0047	<0.0044	<0.0039	<0.0033	<0.0035	<0.0038	<0.0030	<0.0030	<0.0042	<0.0049	<0.0034	<0.0055	<0.0056	<0.0049	<0.0034	<0.0040	<0.0045	<0.0033	<0.0032	<0.0037	--	--
1,2,3-Trichloropropane	mg/kg	<0.0053	<0.0045	<0.0047	<0.0044	<0.0039	<0.0033	<0.0035	<0.0038	<0.0030	<0.0030	<0.0042	<0.0049	<0.0034	<0.0055	<0.0056	<0.0049	<0.0034	<0.0040	<0.0045	<0.0033	<0.0032	<0.0037	--	--
1,2,4-Trichlorobenzene	mg/kg	<0.0053	<0.0045	<0.0047	<0.0044	<0.0039	<0.0033	<0.0035	<0.0038	<0.0030	<0.0030	<0.0042	<0.0049	<0.0034	<0.0055	<0.0056	<0.0049	<0.0034	<0.0040	<0.0045	<0.0033	<0.0032	<0.0037	--	--
1,2,4-Trimethylbenzene	mg/kg	<0.0053	0.0086	<0.0047	<0.0044	<0.0039	<0.0033	<0.0035	<0.0038	<0.0030	<0.0030	<0.0042	<0.0049	<0.0034	<0.0055	<0.0056	<0.0049	<0.0034	<0.0040	<0.0045	<0.0033	<0.0032	<0.0037	--	--
1,2-Dibromo-3-Chloropropane	mg/kg	<0.0053	<0.0045	<0.0047	<0.0044	<0.0039	<0.0033	<0.0035	<0.0038	<0.0030	<0.0030	<0.0042	<0.0049	<0.0034	<0.0055	<0.0056	<0.0049	<0.0034	<0.0040	<0.0045	<0.0033	<0.0032	<0.0037	--	--
1,2-Dibromoethane	mg/kg	<0.0053	<0.0045	<0.0047	<0.0044	<0.0039	<0.0033	<0.0035	<0.0038	<0.0030	<0.0030	<0.0042	<0.0049	<0.0034	<0.0055	<0.0056	<0.0049	<0.0034	<0.0040	<0.0045	<0.0033	<0.0032	<0.0037	--	--
1,2-Dichlorobenzene	mg/kg	<0.0053	<0.0045	<0.0047	<0.0044	<0.0039	<0.0033	<0.0035	<0.0038	<0.0030	<0.0030	<0.0042	<0.0049	<0.0034	<0.0055	<0.0056	<0.0049	<0.0034	<0.0040	<0.0045	<0.0033	<0.0032	<0.0037	--	--
1,2-Dichloroethane	mg/kg	<0.0053	<0.0045	<0.0047	<0.0044	<0.0039	<0.0033	<0.0035	<0.0038	<0.0030	<0.0030	<0.0042	<0.0049	<0.0034	<0.0055	<0.0056	<0.0049	<0.0034	<0.0040	<0.0045	<0.0033	<0.0032	<0.0037	--	--
1,2-Dichloropropane	mg/kg	<0.0053	<0.0045	<0.0047	<0.0044	<0.0039	<0.0033	<0.0035	<0.0038	<0.0030	<0.0030	<0.0042	<0.0049	<0.0034	<0.0055	<0.0056	<0.0049	<0.0034	<0.0040	<0.0045	<0.0033	<0.0032	<0.0037	--	--
1,3,5-Trimethylbenzene	mg/kg	<0.0053	<0.0045	<0.0047	<0.0044	<0.0039	<0.0033	<0.0035	<0.0038	<0.0030	<0.0030	<0.0042	<0.0049	<0.0034	<0.0055	<0.0056	<0.0049	<0.0034	<0.0040	<0.0045	<0.0033	<0.0032	<0.0037	--	--
1,3-Dichlorobenzene	mg/kg	<0.0053	<0.0045	<0.0047	<0.0044	<0.0039	<0.0033	<0.0035	<0.0038	<0.0030	<0.0030	<0.0042	<0.0049	<0.0034	<0.0055	<0.0056	<0.0049	<0.0034	<0.0040	<0.0045	<0.0033	<0.0032	<0.0037	--	--
1,3-Dichloropropane	mg/kg	<0.0053	<0.0045	<0.0047	<0.0044	<0.0039	<0.0033	<0.0035	<0.0038	<0.0030	<0.0030	<0.0042	<0.0049	<0.0034	<0.0055	<0.0056	<0.0049	<0.0034	<0.0040	<0.0045	<0.0033	<0.0032	<0.0037	--	--
1,4-Dichlorobenzene	mg/kg	<0.0053	<0.0045	<0.0047	<0.0044	<0.0039	<0.0033	<0.0035	<0.0038	<0.0030	<0.0030	<0.0042	<0.0049	<0.0034	<0.0055	<0.0056	<0.0049	<0.0034	<0.0040	<0.0045	<0.0033	<0.0032	<0.0037	--	--
1,4-Dioxane	mg/kg	<0.106	<0.0892	<0.0941	<0.0882	<0.0783	<0.0656	<0.0708	<0.0755	<0.0595	<0.0595	<0.0838	<0.0981	<0.0689	<0.110	<0.112	<0.0977	<0.0677	<0.0806	<0.0899	<0.0657	<0.0635	<0.0743	--	--
2,2-Dichloropropane	mg/kg	<0.0053	<0.0045	<0.0047	<0.0044	<0.0039	<0.0033	<0.0035	<0.0038	<0.0030	<0.0030	<0.0042	<0.0049	<0.0034	<0.0055	<0.0056	<0.0049	<0.0034	<0.0040	<0.0045	<0.0033	<0.0032	<0.0037	--	--
2-Butanone	mg/kg	<0.0106	<0.0089	<0.0094	<0.0088	<0.0078	<0.0066	<0.0071	<0.0076	<0.0059	<0.0060	<0.0084	<0.0098	<0.0069	<0.0110	0.0186	<0.0098	<0.0068	<0.0081	<0.0090	<0.0066	<0.0063	<0.0074	--	--
2-Chlorotoluene	mg/kg	<0.0053	<0.0045	<0.0047	<0.0044	<0.0039	<0.0033	<0.0035	<0.0038	<0.0030	<0.0030	<0.0042	<0.0049	<0.0034	<0.0055	<0.0056	<0.0049	<0.0034	<0.0040	<0.0045	<0.0033	<0.0032	<0.0037	--	--
2-Hexanone	mg/kg	<0.0106	<0.0089	<0.0094	<0.0088	<0.0078	<0.0066	<0.0071	<0.0076	<0.0059	<0.0060	<0.0084	<0.0098	<0.0069	<0.0110	<0.0112	<0.0098	<0.0068	<0.0081	<0.0090	<0.0066	<0.0063	<0.0074	--	--
4-Chlorotoluene	mg/kg	<0.0053	<0.0045	<0.0047	<0.0044	<0.0039	<0.0033	<0.0035	<0.0038	<0.0030	<0.0030	<0.0042	<0.0049	<0.0034	<0.0055	<0.0056	<0.0049	<0.0034	<0.0040	<0.0045	<0.0033	<0.0032	<0.0037	--	--
4-Isopropyltoluene	mg/kg	<0.0053	<0.0045	<0.0047	<0.0044	<0.0039	<0.0033	<0.0035	<0.0038	<0.0030	0.0085	<0.0042	<0.0049	<0.0034	<0.0055	<0.0056	<0.0049	<0.0034	<0.0040	<0.0045	<0.0033	<0.0032	<0.0037	--	--
4-Methyl-2-Pentanone	mg/kg	<0.0106	<0.0089	<0.0094	<0.0088	<0.0078	<0.0066	<0.0071	<0.0076	<0.0059	<0.0060	<0.0084	<0.0098	<0.0069	<0.0110	<0.0112	<0.0098	<0.0068	<0.0081	<0.0090	<0.0066	<0.0063	<0.0074	--	--
Acetone	mg/kg	<0.0106	0.102	0.0411	0.0297	0.0132	0.0112	0.0193	0.0093	0.0165	0.0208	<0.0084	0.0196	<0.0069	<0.0110	0.108	0.0391	0.0325	0.01	<0.0090	<0.0066	<0.0063	<0.0074	--	--
Benzene	mg/kg	<0.0053	<0.0045	<0.0047	<0.0044	<0.0039	<0.0033	<0.0035	<0.0038	<0.0030	<0.0030	<0.0042	<0.0049	<0.0034	<0.0055	<0.0056	<0.0049	<0.0034	<0.0040	<0.0045	<0.0033	<0.0032	<0.0037	--	--
Bromobenzene	mg/kg	<0.0053	<0.0045	<0.0047	<0.0044	<0.0039	<0.0033	<0.0035	<0.0038	<0.0030	<0.0030	<0.0042	<0.0049	<0.0034	<0.0055	<0.0056	<0.0049	<0.0034	<0.0040	<0.0045	<0.0033	<0.0032	<0.0037	--	--
Bromochloromethane	mg/kg	<0.0053	<0.0045	<0.0047	<0.0044	<0.0039	<0.0033	<0.0035	<0.0038	<0.0030	<0.0030	<0.0042	<0.0049	<0.0034	<0.0055	<0.0056	<0.0049	<0.0034	<0.0040	<0.0045	<0.0033	<0.0032	<0.0037	--	--
Bromodichloromethane	mg/kg	<0.0053	<0.0045	<0.0047	<0.0044	<0.0039	<0.0033	<0.0035	<0.0038	<0.0030	<0.0030	<0.0042	<0.0049	<0.0034	<0.0055	<0.0056	<0.0049	<0.0034	<0.0040	<0.0045	<0.0033	<0.0032	<0.0037	--	--
Bromoform	mg/kg	<0.0053	<0.0045	<0.0047	<0.0044	<0.0039	<0.0033	<0.0035	<0.0038	<0.0030	<0.0030	<0.0042	<0.0049	<0.0034	<0.0055	<0.0056	<0.0049	<0.0034	<0.0040	<0.0045	<0.0033	<0.0032	<0.0037	--	--
Bromomethane	mg/kg	<0.0106	<0.0089	<0.0094	<0.0088	<0.0078	<0.0066	<0.0071	<0.0076	<0.0059	<0.0060	<0.0084	<0.0098	<0.0069	<0.0110	<0.0112	<0.0098	<0.0068	<0.0081	<0.0090	<0.0066	<0.0063	<0.0074	--	--
Carbon Disulfide	mg/kg	<0.0053	<0.0045	0.0049	<0.0044	<0.0039	<0.0033	0.0065	<0.0038	0.0077	<0.0030	<0.0042	<0.0049	<0.0034	<0.0055	0.0159	0.0092	<0.0034	0.0055	0.0055	<0.0033	0.0033	<0.0037	--	--
Carbon Tetrachloride	mg/kg	<0.0053	<0.0045	<0.0047	<0.0044	<0.0039	<0.0033	<0.0035	<0.0038	<0.0030	<0.0030	<0.0042	<0.0049	<0.0034	<0.0055	<0.0056	<0.0049	<0.0034	<0.0040	<0.0045	<0.0033	<0.0032	<0.0037	--	--
Chlorobenzene	mg/kg	<0.0053	<0.0045	<0.0047	<0.0044	<0.0039	<0.0033	<0.0035	<0.0038	<0.0030	<0.0030	<0.0042	<0.0049	<0.0034	<0.0055	<0.0056	<0.0049	<0.0034	<0.0040	<0.0045	<0.0033	<0.0032	<0.0037	--	--
Chloroethane	mg/kg	<0.0106	<0.0089	<0.0094	<0.0088	<0.0078	<0.0066	<0.0071	<0.0076	<0.0059	<0.0060	<0.0084	<0.0098	<0.0069	<0.0110	<0.0112	<0.0098	<0.0068	<0.0081	<0.0090	<0.0066	<0.0063	<0.0074	--	--
Chloroform	mg/kg	<0.0053	<0.0045	<0.0047	<0.0044	<0.0039	<0.0033	<0.0035	<0.0038	<0.0030	<0.0030	<0.0042	<0.0049	<0.0034	<0.0055	<0.0056	<0.0049	<0.0034	<0.0040	<0.0045	<0.0033	<0.0032	<0.0037	--	--
Chloromethane	mg/kg	<0.0106	<0.0089	<0.0094	<0.0088	<0.0078	<0.0066	<0.0071	<0.0076	<0.0059	<0.0060	<0.0084	<0.0098	<0.0069	<0.0110	<0.0112	<0.0098	<0.0068	<0.0081	<0.0090	<0.0066	<0.0063	<0.0074	--	--
cis-1,2-Dichloroethene	mg/kg	<0.0053	<0.0045	<0.0047	<0.0044	<0.0039	<0.0033	<0.0035	<0.0038	<0.0030	<0.0030	<0.0042	<0.0049	<0.0034	<0.0055	<0.0056	<0.0049	<0.0034	<0.0040	<0.0045	<0.0033	<0.0032	<0.0037	--	--
cis-1,3-Dichloropropene	mg/kg	<0.0053	<0.0045	<0.0047	<0.0044	<0.0039	<0.0033	<0.0035	<0.0038	<0.0030	<0.0030	<0.0042	<0.0049	<0.0034	<0.0055	<0.0056	<0.0049	<0.0034	<0.0040	<0.0045	<0.0033	<0.0032	<0.0037	--	--
Dibromochloromethane	mg/kg	<0.0021	<0.0018	<0.0019	<0.0018	<0.0016	<0.0013	<0.0014	<0.0015	<0.0012	<0.0012	<0.0017	<0.0020	<0.0014	<0.0022	<0.0022	<0.0020	<0.0014	<0.0016	<0.0018	<0.0013	<0.0013	<0.0015	--	--
Dibromomethane	mg/kg	<0.0053	<0.0045	<0.0047	<0.0044	<0.0039	<0.0033	<0.0035	<0.0038	<0.0030	<0.0030	<0.0042	<0.0049	<0.0034	<0.0055	<0.0056	<0.0049	<0.0034	<0.0040	<0.0045	<0.0033	<0.0032	<0.0037	--	--
Dichlorodifluoromethane	mg/kg	<0.0106	<0.0089	<0.0094	<0.0088	<0.0078	<0.0066	<0.0071	<0.0076	<0.0059	<0.0060	<0.0084	<0.0098	<0.0069	<0.0110	<0.0112	<0.0098	<0.0068	<0.0081	<0.0090	<0.0066	<0.0063	<0.0074	--	--
Diethyl Ether	mg/kg	<0.0053	<0.0045	<0.0047	<0.0044	<0.0039	<0.0033	<0.0035	<0.0038	<0.0030	<0.0030	<0.0042	<0.0049	<0.0034	<0.0055	<0.0056	<0.0049	<0.0034	<0.0040	<0.0045	<0.0033	<0.0032	<0.0037	--	--
Di-isopropyl ether	mg/kg	<0.0053	<0.0045	<0.0047	<0.0044	<0.0039	<0.0033	<0.0035	<0.0038	<0.0030	<0.0030	<0.0042	<0.0049	<0.0034	<0.0055	<0.0056	<0.0049	<0.0034	<0.0040	<0.0045	<0.0033	<0.0032	<0.0037	--	--
Ethyl tertiary-butyl ether	mg/kg	<0.0053	<0.0045	<0.0047	<0.0044	<0.0039	<0.0033	<0.0035	<0.0038	<0.0030	<0.0030	<0.0042	<0.0049	<0.0034	<0.0055	<0.0056	<0.0049	<0.0034	<0.0040	<0.0045	<0.0033	<0.0032	<0.0037	--	--
Ethylbenzene	mg/kg	<0.0053	<0.0045	<0.0047	<0.0044	<0.0039	<0.0033	<0.0035	<0.0038	<0.0030	<0.0030	<0.0042	<0.0049	<0.0034	<0.0055	<0.0056	<0.0049	<0.0034	<0.0040	<0.0045	<0.0033	<0.0032	<0.0037	--	--
Hexachlorobutadiene	mg/kg	<0.0053	<0.0045	<0.0047	<0.0044	<0.0039	<0.0033	<0.0035	<0.0038	<0.0030	<0.0030	<0.0042	<0.0049	<0.0034	<0.0055	<0.0056	<0.0049	<0.0034	<0.0040	<0.0045	<0.0033	<0.0032	<0.0037	--	--
Isopropylbenzene	mg/kg	<0.0053	<0.0045	<0.0047	<0.0044	<0.0039	<0.0033	<0.0035	<0.0038	<0.0030	<0.0030	<0.0042	<0.0049	<0.0034	<0.0055	<0.0056	<0.0049	<0.0034	<0.0040	<0.0045	<0.0033	<0.0032	<0.0037	--	--
Methyl tert-Butyl Ether	mg/kg	<0.0053	<0.0045	<0.0047	<0.0044	<0.0039	<0.0033	<0.0035	<0.0038	<0.0030	<0.0030	<0.0042	<0.0049	<0.0034	<0.0055	<0.0056	<0.0049	<0.0034	<0.0040	<0.0045	<0.0033	<0.0032	<0.0037	--	--
Methylene Chloride	mg/kg	<0.0106	<0.0089	<0.0094	<0.0088	<0.0078	<0.0066	<0.0071	<0.0076	<0.0059	<0.0060	<0.0084	<0.0098	<0.0069	<0.0110	<0.0112	<0.0098	<0.0068	<0.0081	<0.0090	<0.0066	<0.0063	<0.0074	--	--
Naphthalene	mg/kg	<0.0053	0.0424	<0.0047	<0.0044	<0.0039	<0.0033	<0.0035	<0.0038	<0.0030	0.0082	<0.0042	<0.0049	<0.0034	<0.0055	<0.0056	<0.0049	<0.0034	<0.0040	<0.0045	<0.0033	<0.0032	<0.0037	--	--
n-Butylbenzene	mg/kg	<0.0053	<0.0045	<0.0047	<0.0044	<0.0039	<0.0033	<0.0035	<0.0038	<0.0030	<0.0030	<0.0042	<0.0049	<0.0034	<0.0055	<0.0056	<0.0049	<0.0034	<0.0040	<0.0045	<0.0033	<0.0032	<0.0037	--	--
n-Propylbenzene	mg/kg	<0.0053	<0.0045	<0.0047	<0.0044	<0.0039	<0.0033	<0.0035	<0.0038	<0.0030	<0.0030	<0.0042	<0.0049	<0.0034	<0.0055	<0.0056	<0.0049	<0.0034	<0.0040	<0.0045	<0.0033	<0.0032	<0.0037	--	--
sec-Butylbenzene	mg/kg	<0.0053	<0.0045	<0.0047	<0.0044	<0.0039	<0.0033	<0.0035	<0.0038	<0.0030	<0.0030	<0.0042	<0.0049	<0.0034	<0.0055	<0.0056	<0.0049	<0.0034	<0.0040	<0.0045	<0.0033	<0.0032	<0.0037	--	--

Analyte	Precharacterization Cell	B23	B23	B23	B23	B23	B23	B23	B23	B23	B23	B24	B24	B24	B24	B24	B24	B24	B24	B24	C01	C01	C01
	Sample ID	B23S02BS04A	B23S04BS05	B23S06	B23S07	B23S08	B23S09	B23S10	B23S11	B23S12S13	B23S14	GZ021S01S02A	GZ021S02BS04A	GZ021S06S07A	GZ021S07B	GZ021S08	GZ021S10	GZ021S13	GZ021S15	GZ021S16A	GZ021S19	C01S01S02	C01S03S04A	C01S04B
	Laboratory Work Order	1412438	1412438	1412438	1412438	1412438	1412438	1412438	1412438	1412438	1412438	1502372	1502372	1502372	1502372	1502372	1502372	1502372	1502372	1502372	1502372	1412179	1412179	1412179
	Soil Distinction	Fill	Fill	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Fill	Fill	Fill	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Fill	Fill	Natural
	Soil Type			Organics	Organics	Organics	Organics	Organics	Organics	Organics	Clay				Organics	Organics	Organics	Organics	Organics	Organics	Organics			
	Depth Interval (ft.)	3.3 - 6.6	6.6 - 10	10 - 14	14 - 19	19 - 24	28 - 29	29 - 34	39 - 39	39 - 44	11 - 46	0 - 3.3	3.3 - 6.6	6.6 - 10	10 - 12.3	12.3 - 14	14 - 16	18 - 20	24 - 26	28 - 30	32 - 32.6	0 - 3.3	3.3 - 6.6	6.6 - 6.9
	Sampling Date	12/19/2014	12/19/2014	12/19/2014	12/19/2014	12/19/2014	12/19/2014	12/19/2014	12/19/2014	12/19/2014	12/19/2014	2/25/2015	2/25/2015	3/5/2015	2/25/2015	2/25/2015	2/25/2015	2/25/2015	2/25/2015	2/25/2015	2/25/2015	2/25/2015	12/9/2014	12/9/2014	12/9/2014
Preliminary Disposal Facility Category		Hazardous Material Type B	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type B	Hazardous Material Type B	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Uncontaminated	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type B	Hazardous Material Type A
Styrene	mg/kg	<0.0053	<0.0045	<0.0047	<0.0044	<0.0039	<0.0033	<0.0035	<0.0038	<0.0030	<0.0030	<0.0042	<0.0049	<0.0034	<0.0055	<0.0056	<0.0049	<0.0034	<0.0040	<0.0045	<0.0033	<0.0032	<0.0037	--	--
tert-Butylbenzene	mg/kg	<0.0053	<0.0045	<0.0047	<0.0044	<0.0039	<0.0033	<0.0035	<0.0038	<0.0030	<0.0030	<0.0042	<0.0049	<0.0034	<0.0055	<0.0056	<0.0049	<0.0034	<0.0040	<0.0045	<0.0033	<0.0032	<0.0037	--	--
Tertiary-amyl methyl ether	mg/kg	<0.0053	<0.0045	<0.0047	<0.0044	<0.0039	<0.0033	<0.0035	<0.0038	<0.0030	<0.0030	<0.0042	<0.0049	<0.0034	<0.0055	<0.0056	<0.0049	<0.0034	<0.0040	<0.0045	<0.0033	<0.0032	<0.0037	--	--
Tetrachloroethene	mg/kg	<0.0053	<0.0045	<0.0047	<0.0044	<0.0039	<0.0033	<0.0035	<0.0038	<0.0030	<0.0030	<0.0042	<0.0049	<0.0034	<0.0055	<0.0056	<0.0049	<0.0034	<0.0040	<0.0045	<0.0033	<0.0032	<0.0037	--	--
Tetrahydrofuran	mg/kg	<0.0053	<0.0045	<0.0047	<0.0044	<0.0039	<0.0033	<0.0035	<0.0038	<0.0030	<0.0030	<0.0042	<0.0049	<0.0034	<0.0055	<0.0056	<0.0049	<0.0034	<0.0040	<0.0045	<0.0033	<0.0032	<0.0037	--	--
Toluene	mg/kg	<0.0053	0.0052	<0.0047	<0.0044	<0.0039	<0.0033	<0.0035	<0.0038	<0.0030	<0.0030	<0.0042	<0.0049	<0.0034	<0.0055	<0.0056	<0.0049	<0.0034	<0.0040	<0.0045	<0.0033	<0.0032	<0.0037	--	--
trans-1,2-Dichloroethene	mg/kg	<0.0053	<0.0045	<0.0047	<0.0044	<0.0039	<0.0033	<0.0035	<0.0038	<0.0030	<0.0030	<0.0042	<0.0049	<0.0034	<0.0055	<0.0056	<0.0049	<0.0034	<0.0040	<0.0045	<0.0033	<0.0032	<0.0037	--	--
trans-1,3-Dichloropropene	mg/kg	<0.0053	<0.0045	<0.0047	<0.0044	<0.0039	<0.0033	<0.0035	<0.0038	<0.0030	<0.0030	<0.0042	<0.0049	<0.0034	<0.0055	<0.0056	<0.0049	<0.0034	<0.0040	<0.0045	<0.0033	<0.0032	<0.0037	--	--
Trichloroethene	mg/kg	<0.0053	<0.0045	<0.0047	<0.0044	<0.0039	<0.0033	<0.0035	<0.0038	<0.0030	<0.0030	<0.0042	<0.0049	<0.0034	<0.0055	<0.0056	<0.0049	<0.0034	<0.0040	<0.0045	<0.0033	<0.0032	<0.0037	--	--
Trichlorofluoromethane	mg/kg	<0.0053	<0.0045	<0.0047	<0.0044	<0.0039	<0.0033	<0.0035	<0.0038	<0.0030	<0.0030	<0.0042	<0.0049	<0.0034	<0.0055	<0.0056	<0.0049	<0.0034	<0.0040	<0.0045	<0.0033	<0.0032	<0.0037	--	--
Vinyl Chloride	mg/kg	<0.0106	<0.0089	<0.0094	<0.0088	<0.0078	<0.0066	<0.0071	<0.0076	<0.0059	<0.0060	<0.0084	<0.0098	<0.0069	<0.0110	<0.0112	<0.0098	<0.0068	<0.0081	<0.0090	<0.0066	<0.0063	<0.0074	--	--
Xylene O	mg/kg	<0.0053	0.0071	<0.0047	<0.0044	<0.0039	<0.0033	<0.0035	<0.0038	<0.0030	<0.0030	<0.0042	<0.0049	<0.0034	<0.0055	<0.0056	<0.0049	<0.0034	<0.0040	<0.0045	<0.0033	<0.0032	<0.0037	--	--
Xylene P,M	mg/kg	<0.0106	<0.0089	<0.0094	<0.0088	<0.0078	<0.0066	<0.0071	<0.0076	<0.0059	<0.0060	<0.0084	<0.0098	<0.0069	<0.0110	<0.0112	<0.0098	<0.0068	<0.0081	<0.0090	<0.0066	<0.0063	<0.0074	--	--
Xylenes (Total)	mg/kg	<0.0106	<0.0089	<0.0094	<0.0088	<0.0078	<0.0066	<0.0071	<0.0076	<0.0059	<0.0060	<0.0084	<0.0098	<0.0069	<0.0110	<0.0112	<0.0098	<0.0068	<0.0081	<0.0090	<0.0066	<0.0063	<0.0074	--	--
Total VOCs (Low Level)	mg/kg	ND	0.1653	0.046	0.0297	0.0132	0.0112	0.0258	0.0093	0.0242	0.0375	ND	0.0196	ND	ND	0.1425	0.0483	0.0325	0.0155	0.0055	ND	0.0033	ND	--	--
Semi-Volatile Organic Compounds																									
1,2,4-Trichlorobenzene	mg/kg	<0.931	<0.990	<1.25	<1.12	<1.19	<1.10	<1.01	<1.08	<0.951	<1.06	<0.867	<0.890	<1.24	<1.04	<1.27	<1.12	<1.07	<1.19	<1.01	<0.992	<1.02	<0.824	<1.09	<1.53
1,2-Dichlorobenzene	mg/kg	<0.931	<0.990	<1.25	<1.12	<1.19	<1.10	<1.01	<1.08	<0.951	<1.06	<0.867	<0.890	<1.24	<1.04	<1.27	<1.12	<1.07	<1.19	<1.01	<0.992	<1.02	<0.824	<1.09	<1.53
1,3-Dichlorobenzene	mg/kg	<0.931	<0.990	<1.25	<1.12	<1.19	<1.10	<1.01	<1.08	<0.951	<1.06	<0.867	<0.890	<1.24	<1.04	<1.27	<1.12	<1.07	<1.19	<1.01	<0.992	<1.02	<0.824	<1.09	<1.53
1,4-Dichlorobenzene	mg/kg	<0.467	<0.497	<0.626	<0.561	<0.595	<0.551	<0.508	<0.540	<0.477	<0.531	<0.435	<0.446	<0.624	<0.521	<0.639	<0.560	<0.535	<0.598	<0.507	<0.498	<0.511	<0.413	<0.547	<0.766
2,4,5-Trichlorophenol	mg/kg	<0.931	<0.990	<1.25	<1.12	<1.19	<1.10	<1.01	<1.08	<0.951	<1.06	<0.867	<0.890	<1.24	<1.04	<1.27	<1.12	<1.07	<1.19	<1.01	<0.992	<1.02	<0.824	<1.09	<1.53
2,4,6-Trichlorophenol	mg/kg	<0.931	<0.990	<1.25	<1.12	<1.19	<1.10	<1.01	<1.08	<0.951	<1.06	<0.867	<0.890	<1.24	<1.04	<1.27	<1.12	<1.07	<1.19	<1.01	<0.992	<1.02	<0.824	<1.09	<1.53
2,4-Dichlorophenol	mg/kg	<0.931	<0.990	<1.25	<1.12	<1.19	<1.10	<1.01	<1.08	<0.951	<1.06	<0.867	<0.890	<1.24	<1.04	<1.27	<1.12	<1.07	<1.19	<1.01	<0.992	<1.02	<0.824	<1.09	<1.53
2,4-Dimethylphenol	mg/kg	<0.931	<0.990	<1.25	<1.12	<1.19	<1.10	<1.01	<1.08	<0.951	<1.06	<0.867	<0.890	<1.24	<1.04	<1.27	<1.12	<1.07	<1.19	<1.01	<0.992	<1.02	<0.824	<1.09	<1.53
2,4-Dinitrophenol	mg/kg	<4.67	<4.97	<6.26	<5.61	<5.95	<5.51	<5.08	<5.40	<4.77	<5.31	<4.35	<4.46	<6.24	<5.21	<6.39	<5.60	<5.35	<5.98	<5.07	<4.98	<5.11	<4.13	<5.47	<7.66
2,4-Dinitrotoluene	mg/kg	<0.931	<0.990	<1.25	<1.12	<1.19	<1.10	<1.01	<1.08	<0.951	<1.06	<0.867	<0.890	<1.24	<1.04	<1.27	<1.12	<1.07	<1.19	<1.01	<0.992	<1.02	<0.824	<1.09	<1.53
2,6-Dinitrotoluene	mg/kg	<0.931	<0.990	<1.25	<1.12	<1.19	<1.10	<1.01	<1.08	<0.951	<1.06	<0.867	<0.890	<1.24	<1.04	<1.27	<1.12	<1.07	<1.19	<1.01	<0.992	<1.02	<0.824	<1.09	<1.53
2-Chloronaphthalene	mg/kg	<0.931	<0.990	<1.25	<1.12	<1.19	<1.10	<1.01	<1.08	<0.951	<1.06	<0.867	<0.890	<1.24	<1.04	<1.27	<1.12	<1.07	<1.19	<1.01	<0.992	<1.02	<0.824	<1.09	<1.53
2-Chlorophenol	mg/kg	<0.931	<0.990	<1.25	<1.12	<1.19	<1.10	<1.01	<1.08	<0.951	<1.06	<0.867	<0.890	<1.24	<1.04	<1.27	<1.12	<1.07	<1.19	<1.01	<0.992	<1.02	<0.824	<1.09	<1.53
2-Methylnaphthalene	mg/kg	<0.931	2.45	<1.25	<1.12	<1.19	<1.10	<1.01	<1.08	<0.951	<1.06	<0.867	<0.890	<1.24	<1.04	<1.27	<1.12	<1.07	<1.19	<1.01	<0.992	<1.02	<0.824	12.3	2.1
2-Methylphenol	mg/kg	<0.931	<0.990	<1.25	<1.12	<1.19	<1.10	<1.01	<1.08	<0.951	<1.06	<0.867	<0.890	<1.24	<1.04	<1.27	<1.12	<1.07	<1.19	<1.01	<0.992	<1.02	<0.824	<1.09	<1.53
2-Nitrophenol	mg/kg	<0.931	<0.990	<1.25	<1.12	<1.19	<1.10	<1.01	<1.08	<0.951	<1.06	<0.867	<0.890	<1.24	<1.04	<1.27	<1.12	<1.07	<1.19	<1.01	<0.992	<1.02	<0.824	<1.09	<1.53
3,3´-Dichlorobenzidine	mg/kg	<1.86	<1.98	<2.50	<2.24	<2.38	<2.20	<2.03	<2.16	<1.90	<2.12	<1.74	<1.78	<2.49	<2.08	<2.55	<2.24	<2.14	<2.39	<2.02	<1.99	<2.04	<1.65	<2.19	<3.06
3+4-Methylphenol	mg/kg	<1.86	<1.98	<2.50	<2.24	<2.38	<2.20	<2.03	<2.16	<1.90	<2.12	<1.74	<1.78	<2.49	<2.08	<2.55	<2.24	<2.14	<2.39	<2.02	<1.99	<2.04	<1.65	<2.19	<3.06
4-Bromophenyl-phenylether	mg/kg	<0.931	<0.990	<1.25	<1.12	<1.19	<1.10	<1.01	<1.08	<0.951	<1.06	<0.867	<0.890	<1.24	<1.04	<1.27	<1.12	<1.07	<1.19	<1.01	<0.992	<1.02	<0.824	<1.09	<1.53
4-Chloroaniline	mg/kg	<1.86	<1.98	<2.50	<2.24	<2.38	<2.20	<2.03	<2.16	<1.90	<2.12	<1.74	<1.78	<2.49	<2.08	<2.55	<2.24	<2.14	<2.39	<2.02	<1.99	<2.04	<1.65	<2.19	<3.06
4-Nitrophenol	mg/kg	<4.67	<4.97	<6.26	<5.61	<5.95	<5.51	<5.08	<5.40	<4.77	<5.31	<4.35	<4.46	<6.24	<5.21	<6.39	<5.60	<5.35	<5.98	<5.07	<4.98	<5.11	<4.13	<5.47	<7.66
Acenaphthene	mg/kg	<0.931	2.03	<1.25	<1.12	<1.19	<1.10	<1.01	<1.08	<0.951	<1.06	<0.867	0.922	<1.24	<1.04	<1.27	<1.12	<1.07	<1.19	<1.01	<0.992	<1.02	<0.824	14.2	7.38
Acenaphthylene	mg/kg	<0.931	1.39	<1.25	<1.12	<1.19	<1.10	<1.01	<1.08	<0.951	<1.06	<0.867	<0.890	<1.24	<1.04	<1.27	<1.12	<1.07	<1.19	<1.01	<0.992	<1.02	<0.824	6.77	29.2
Acetophenone	mg/kg	<1.86	<1.98	<2.50	<2.24	<2.38	<2.20	<2.03	<2.16	<1.90	<2.12	<1.74	<1.78	<2.49	<2.08	<2.55	<2.24	<2.14	<2.39	<2.02	<1.99	<2.04	<1.65	<2.19	<3.06
Aniline	mg/kg	<4.67	<4.97	<6.26	<5.61	<5.95	<5.51	<5.08	<5.40	<4.77	<5.31	<4.35	<4.46	<6.24	<5.21	<6.39	<5.60	<5.35	<5.98	<5.07	<4.98	<5.11	<4.13	<5.47	<7.66
Anthracene	mg/kg	<0.931	<0.990	<1.25	<1.12	<1.19	<1.10	<1.01	<1.08	<0.951	<1.06	<0.867	1.94	<1.24	<1.04	<1.27	<1.12	<1.07	<1.19	<1.01	<0.992	<1.02	<0.824	35.1	63.3
Azobenzene	mg/kg	<0.931	<0.990	<1.25	<1.12	<1.19	<1.10	<1.01	<1.08	<0.951	<1.06	<0.867	<0.890	<1.24	<1.04	<1.27	<1.12	<1.07	<1.19	<1.01	<0.992	<1.02	<0.824	<1.09	<1.53
Benzo(a)anthracene	mg/kg	2.39	1.8	<1.25	<1.12	<1.19	<1.10	<1.01	<1.08	<0.951	<1.06	<0.867	3.18	3.48	<1.04	<1.27	<1.12	<1.07	<1.19	<1.01	<0.992	<1.02	<0.824	36.3	47.3
Benzo(a)pyrene	mg/kg	2.01	2.36	<0.626	<0.561	<0.595	<0.551	<0.508	<0.540	<0.477	<0.531	<0.435	4.18	2.89	<0.521	<0.639	<0.560	<0.535	<0.598	<0.507	<0.498	<0.511	<0.413	27.1	43.4
Benzo(b)fluoranthene	mg/kg	2.71	3.26	<1.25	<1.12	<1.19	<1.10	<1.01	<1.08	<0.951	<1.06	<0.867	5.21	4.44	<1.04	<1.27	<1.12	<1.07	<1.19	<1.01	<0.992	<1.02	<0.824	30	41.7
Benzo(g,h,i)perylene	mg/kg	1.5	<0.990	<1.25	<1.12	<1.19	<1.10	<1.01	<1.08	<0.951	<1.06	<0.867	2.77	2.39	<1.04	<1.27	<1.12	<1.07	<1.19	<1.01	<0.992	<1.02	<0.824	5.63	11.2
Benzo(k)fluoranthene	mg/kg	<0.931	<0.990	<1.25	<1.12	<1.19	<1.10	<1.01	<1.08	<0.951	<1.06	<0.867	2.46	1.45	<1.04	<1.27	<1.12	<1.07	<1.19	<1.01	<0.992	<1.02	<0.824	14	21.7
bis(2-Chloroethoxy)methane	mg/kg	<0.931	<0.990	<1.25	<1.12	<1.19	<1.10	<1.01	<1.08	<0.951	<1.06	<0.867	<0.890	<1.24	<1.04	<1.27	<1.12	<1.07	<1.19	<1.01	<0.992	<1.02	<0.824	<1.09	<1.53
bis(2-Chloroethyl)ether	mg/kg	<0.467	<0.497	<0.626	<0.561	<0.595	<0.551	<0.508	<0.540	<0.477	<0.531	<0.435	<0.446	<0.624	<0.521	<0.639	<0.560	<0.535	<0.598	<0.507	<0.498	<0.511	<0.413	<0.547	<0.766
bis(2-chloroisopropyl)Ether	mg/kg	<0.467	<0.497	<0.626	<0.561	<0.595	<0.551	<0.508	<0.540	<0.477	<0.531	<0.435	<0.446	<0.624	<0.521	<0.639	<0.560	<0.535	<0.598	<0.507	<0.498	<0.511	<0.413	<0.547	<0.766
bis(2-Ethylhexyl)phthalate	mg/kg	2.26	296	1.77	<1.12	<1.19	<1.10	<1.01	<1.08	<0.951	<1.06	<0.867	5550	<1.24	5.58	2.3	<1.12	<1.07	<1.19	<1.01	<0.992	<1.02	<0.824	<1.09	<1.53
Butylbenzylphthalate	mg/kg	<0.931	<0.990	<1.25	<1.12	<1.19	<1.10	<1.01	<1.08	<0.951	<1.06	<0.867	<0.890	<1.24	<1.04	<1.27	<1.12	<1.07	<1.19	<1.01	<0.992	<1.02	<0.824	<1.09	<1.53
Chrysene	mg/kg	2.48	1.95	<0.626	<0.561	<0.595	<0.551	<0.508	<0.540	<0.477	<0.531	<0.435	6.1	3.31	<0.521	<0.639	<0.560	<0.535	<0.598	<0.507	<0.498	<0.511	<0.413	31.8	40.2
Dibenzo(a,h)Anthracene	mg/kg	0.606	<0.497	<0.626	<0.561	<0.595	<0.551	<0.508	<0.540	<0.477	<0.531	<0.435	<0.446	<0.624	<0.521	<0.639	<0.560	<0.535	<0.598	<0.507	<0.498	<0.511	<0.413	3.42	5.44
Dibenzofuran	mg/kg	<0.931	<0.990	<1.25	<1.12	<1.19	<1.10	<1.01	<1.08	<0.951	<1.06	<0.867	<0.890	<1.24	<1.04	<1.27	<1.12	<1.07	<1.19	<1.01	<0.992	<1.02	<0.824	18.6	31.1
Diethylphthalate	mg/kg	<0.931	<0.990	<1.25	<1.12	<1.19	<1.10	<1.01	<1.08	<0.951	<1.06	<0.867	<0.890	<1.24	<1.04	<1.27	<1.12	<1.07	<1.19	<1.01	<0.992	<1.02	<0.824	<1.09	<1.53
Dimethylphthalate	mg/kg	<0.931	<0.990	<1.25	<1.12	<1.19	<1.10	<1.01	<1.08	<0.951	<1.06	<0.867	<0.890	<1.24	<1.04	<1.27	<1.12	<1.07	<1.19	<1.01	<0.992	<1.02	<0.824	<1.09	<1.53
Di-n-butylphthalate	mg/kg	<0.931	<0.990	<1.25	<1.12	<1.19	<1.10	<1.01	<1.08	<0.951	<1.06	<0.867	<0.890	<1.24	<1.04	<1.27	<1.12	<1.07	<1.19	<1.01	<0.992	<1.02	<0.824	<1.09	<1.53
Di-n-octylphthalate	mg/kg	<0.931	<0.990	<1.25	<1.12	<1.19	<1.10	<1.01	<1.08	<0.951	<1.06	<0.867	<0.890	<1.24	<1.04	<1.27	<1.12	<1.07	<1.19	<1.01	<0.992	<1.02	<0.824	<1.09	<1.53
Fluoranthene	mg/kg	5.12	3.66	<1.25	<1.12	<1.19	<1.10	<1.01	<1.08	<0.951	<1.06	<0.867	10.1	6.17	<1.04	<1.27	<1.12	<1.07	<1.19	<1.01	<0.992	<1.02	<0.824	103	156
Fluorene	mg/kg	<0.931	<0.990	<1.25	<1.12	<1.19	<1.10	<1.01	<1.08	<0.951	<1.06	<0.867	0.936	<1.24	<1.04	<1.27	<1.12	<1.07	<1.19	<1.01	<0.992	<1.02	<0.824	22.5	34.2
Hexachlorobenzene	mg/kg	<0.467	<0.497	<0.626	<0.561	<0.595	<0.551	<0.508	<0.540	<0.477	<0.531	<0.435	<0.446	<0.624	<0.521	<0.639	<0.560	<0.535	<0.598	<0.507	<0.498	<0.511	<0.413	<0.547	<0.766
Hexachlorobutadiene	mg/kg	<0.931	<0.990	<1.25	<1.12	<1.19	<1.10	<1.01	<1.08	<0.951	<1.06	<0.867	<0.890	<1.24	<1.04	<1.27	<1.12	<1.07	<1.19	<1.01	<0.992	<1.02	<0.824	<1.09	<1.53
Hexachloroethane	mg/kg	<0.931	<0.990	<1.25	<1.12	<1.19	<1.10	<1.01	<1.08	<0.951	<1.06	<0.867	<0.890	<1.24	<1.04	<1.27	<1.12	<1.07	<1.19	<1.01	<0.992	<1.02	<0.824	<1.09	<1.53
Indeno(1,2,3-cd)Pyrene	mg/kg	1.32	<0.990	<1.25	<1.12	<1.19	<1.10	<1.01	<1.08	<0.951	<1.06	<0.867	2.56	2.25	<1.04	<1.27	<1.12	<1.07	<1.19	<1.01	<0.992	<1.02	<0.824	6.18	11.8
Isophorone	mg/kg	<0.931	<0.990	<1.25	<1.12	<1.19	<1.10	<1.01	<1.08	<0.951	<1.06	<0.867	<0.890	<1.24	<1.04	<1.27	<1.12	<1.07	<1.19	<1.01	<0.992	<1.02	<0.824	<1.09	<1.53
Naphthalene	mg/kg	<0.931	5.68	<1.25	<1.12	<1.19	<1.10	<1.01	<1.08	<0.951	<1.06	<0.867	<0.890	<1.24	<1.04	<1.27	<1.12	<1.07	<1.19	<1.01	<0.992	<1.02	<0.824	33.2	5.88
Nitrobenzene	mg/kg	<0.931	<0.990	<1.25	<1.12	<1.19	<1.10	<1.01	<1.08	<0.951	<1.06	<0.867	<0.890	<1.24	<1.04	<1.27	<1.12	<1.07	<1.19	<1.01	<0.992	<1.02	<0.824	<1.09	<1.53
N-Nitrosodimethylamine	mg/kg	<0.931	<0.990	<1.25	<1.12	<1.19	<1.10	<1.01	<1.08	<0.951	<1.06	<0.867	<0.890	<1.24	<1.04	<1.27	<1.12	<1.07	<1.19	<1.01	<0.992	<1.02	<0.824	<1.09	<1.53
Pentachlorophenol	mg/kg	<4.67	<4.97	<6.26	<5.61	<5.95	<5.51	<5.08	<5.40	<4.77	<5.31	<4.35	<4.46	<6.24	<5.21	<6.39	<5.60	<5.35	<5.98	<5.07	<4.98	<5.11	<4.13	<5.47	<7.66
Phenanthrene	mg/kg	3.53	2.32	<1.25	<1.12	<1.19	<1.10	<1.01	<1.08	<0.951	<1.06	<0.867	7.25	3.24	<1.04	<1.27	<1.12	<1.07	<1.19	<1.01	<0.992	<1.02	<0.824	116	210
Phenol	mg/kg	<0.931	<0.990	<1.25	<1.12	<1.19	<1.10	<1.01	<1.08	<0.951	<1.06	<0.867	<0.890	<1.24	<1.04	<1.27	<1.12	<1.07	<1.19	<1.01	<0.992	<1.02	<0.824	6.79	2.19
Pyrene	mg/kg	4.26	2.7	<1.25	<1.12	<1.19	<1.10	<1.01	<1.08	<0.951	<1.06	<0.867	8.5	5.04	<1.04	<1.27	<1.12	<1.07	<1.19	<1.01	<0.992	<1.02	<0.824	61.5	101
Total SVOCs	mg/kg	28.186	325.6	1.77	ND	ND	ND	ND	ND	ND	ND	ND	5606.108	34.66	5.58	2.3	ND	ND	ND	ND	ND	ND	ND	584.39	865.09
Classic Chemistry																									
Corrosivity (pH)	S.U.	9.48	10	6.92	6.81	7.22	7.69	7.8	7.81	7.81	7.46	9.09	10.4	6.5	8.49	4.43	4.75	5.8	8.04	7.81	8.05	7.92	10.4	6.75	7.01
Conductivity	umhos/cm	1100	693	1590	1900	1960	1890	2920	3140	4230	7430	174	369	393	325	1290	1580	1680	3020	1700	1320	1060	425	2720	3120
Flashpoint	°F	>200	>200	--	--	--	--	--	--	--	--	>200	>200	>200	>200	--	--	--	--	--	--	--	>200	>200	>200
Reactive Cyanide	mg/kg	<2.0	<2.0	--	--	--	--	--	--	--	--	<2.0	<2.0	<2.0	<2.0	--	--	--	--	--	--	--	<2.0	<2.0	<2.0
Reactive Sulfide	mg/kg	<2.0	<2.0	--	--	--	--	--	--	--	--	<2.0	<2.0	<2.0	<2.0	--	--	--	--	--	--	--	<2.0	<2.0	<2.0

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	C01 C01S05 1412179 Natural Clay 14 - 16 12/9/2014	C01 C01S06 1412179 Natural Clay 19 - 21 12/9/2014	C01 C01S07 1412179 Natural Clay 24 - 26 12/9/2014	C01 C01S08 1412179 Natural Clay 29 - 31 12/9/2014	C01 C01S09S10 1412179 Natural Clay 34 - 38 12/9/2014	C02 C02S01S02A 1412179 Fill 0 - 3.3 12/9/2014	C02 C02S02BS04A 1412179 Fill 3.3 - 6.6 12/9/2014	C02 C02S04BS05 1412179 Fill 6.6 - 10 12/9/2014	C02 C02S06 1412179 Natural Clay 10 - 12 12/9/2014	C02 C02S07 1412179 Natural Clay 14 - 16 12/9/2014	C02 C02S08 1412179 Natural Clay 19 - 21 12/9/2014	C02 C02S09 1412179 Natural Clay 24 - 26 12/9/2014	C02 C02S10 1412179 Natural Clay 29 - 31 12/9/2014	C02 C02S11S12 1412179 Natural Clay 34 - 38 12/9/2014	C05 C05S01S02A 1503021 Fill 0 - 3.3 3/2/2015	C05 C05S02BS04A 1503021 Fill 3.3 - 6.6 3/2/2015	C05 C05S04BS05 1503021 Fill 6.6 - 10 3/2/2015	C05 C05S06S07A 1503021 Fill 10 - 13.5 3/2/2015	C05 C05S07BS08 1503021 Natural Clay 13.5 - 16 3/2/2015	C05 C05S09 1503021 Natural Clay 19 - 21 3/2/2015	C05 C05S10 1503021 Natural Clay 24 - 26 3/2/2015	C05 C05S11 1503021 Natural Clay 29 - 31 3/2/2015	C05 C05S12S13 1503021 Natural Sand/Gravel 34 - 38 3/2/2015	C06 C06S01S02A 1503047 Fill 0 - 3.3 3/3/2015
Preliminary Disposal Facility Category		MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type A	Uncontaminated	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type B-1	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type B-1	MCP Restricted	Hazardous Material Type A	Hazardous Material Type B	Hazardous Material Type B	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	Uncontaminated	MCP Regulated Type A	Hazardous Material Type B
RCRA 8 Metals	**Units**																								
Arsenic	mg/kg	19.2	18.5	19.3	16.1	9.83	42	170	95.5	11.3	16.6	16.3	18.6	20.4	10.1	23.5	9.49	11.2	13.2	16.5	11.1	29.2	10.1	<7.95	40.9
Barium	mg/kg	110	120	112	96.6	49.9	184	119	158	105	107	107	88.3	103	53.2	136	51.3	48.2	85.6	102	107	75.1	29.5	17	76
Cadmium	mg/kg	<0.65	<0.65	<0.63	<0.61	<0.50	1.65	51	43.9	<0.53	<0.61	<0.59	<0.55	<0.65	<0.39	<1.50	<1.49	<1.45	<1.59	<1.68	<1.72	<1.59	<1.48	<1.59	<1.38
Chromium	mg/kg	51.1	54.7	53.1	41.9	29.1	33	10.4	13.7	52.2	48.8	50.9	50.1	46.1	28.1	21.9	6.03	5.65	5.09	68.6	53.1	43.8	16.7	10.6	27.6
Lead	mg/kg	32.9	20.7	18.1	13.9	10.7	1490	2840	698	24.8	15.7	15.8	17.1	15.4	10.3	872	5370	5350	47.1	23.4	<17.2	<15.9	<14.8	<15.9	1610
Selenium	mg/kg	<3.25	<3.26	<3.14	<3.07	<2.50	7.5	22.6	6.94	<2.67	<3.04	<2.94	<2.75	<3.24	<1.94	<7.51	<7.44	<7.25	<7.97	<8.38	<8.59	<7.93	<7.39	<7.95	<6.90
Silver	mg/kg	0.78	0.92	0.77	0.65	<0.50	2.41	17.5	22.9	0.75	<0.61	0.63	0.79	0.71	0.49	<1.50	<1.49	<1.45	<1.59	<1.68	<1.72	<1.59	<1.48	<1.59	<1.38
Mercury	mg/kg	0.143	0.081	0.072	<0.034	<0.035	2	2.67	0.082	<0.034	<0.041	<0.045	<0.044	<0.030	<0.037	1.57	0.628	0.295	<0.039	<0.041	<0.041	0.048	<0.036	<0.034	5.94
Metals by Toxicity Characteristic Leaching Procedure (TCLP)																									
Arsenic	mg/L	--	--	--	--	--	--	<0.050	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--	--	0.0369	0.0173	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead	mg/L	--	--	--	--	--	0.418	4.46	0.511	--	--	--	--	--	--	<0.500	194	54	--	--	--	--	--	--	5.27
Selenium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.00050
Herbicides																									
2,4,5-T	mg/kg	--	--	--	--	--	<0.062	<0.072	<0.065	--	--	--	--	--	--	<0.10	<0.10	<0.10	<0.050	--	--	--	--	--	<0.24
2,4-D	mg/kg	--	--	--	--	--	<0.062	<0.072	<0.065	--	--	--	--	--	--	<0.52	<0.52	<0.50	<0.25	--	--	--	--	--	<1.2
2,4-DB	mg/kg	--	--	--	--	--	<0.062	<0.072	<0.065	--	--	--	--	--	--	<0.039	<0.039	<0.037	<0.019	--	--	--	--	--	<0.091
Dalapon	mg/kg	--	--	--	--	--	<0.74	<0.87	<0.78	--	--	--	--	--	--	<3.1	<3.1	<3.0	<1.5	--	--	--	--	--	<7.3
Dicamba	mg/kg	--	--	--	--	--	<0.062	<0.072	<0.065	--	--	--	--	--	--	<0.16	<0.15	<0.15	<0.075	--	--	--	--	--	<0.36
Dichlorprop	mg/kg	--	--	--	--	--	<0.062	<0.072	<0.065	--	--	--	--	--	--	<0.34	<0.34	<0.32	<0.16	--	--	--	--	--	<0.79
Dinoseb	mg/kg	--	--	--	--	--	<0.37	<0.44	<0.39	--	--	--	--	--	--	<0.52	<0.52	<0.50	<0.25	--	--	--	--	--	<1.2
MCPA	mg/kg	--	--	--	--	--	<15	<17	<16	--	--	--	--	--	--	<130	<130	<120	<63	--	--	--	--	--	<300
MCPP	mg/kg	--	--	--	--	--	<15	<17	<16	--	--	--	--	--	--	<130	<130	<120	<63	--	--	--	--	--	<300
Silvex (2,4,5-TP)	mg/kg	--	--	--	--	--	<0.062	<0.072	<0.065	--	--	--	--	--	--	<0.10	<0.10	<0.10	<0.050	--	--	--	--	--	<0.24
Pesticides																									
4,4'-DDD	mg/kg	--	--	--	--	--	<0.0022	<0.0026	<0.0023	--	--	--	--	--	--	<0.0086	<0.0045	<0.0042	<0.0022	--	--	--	--	--	<0.021
4,4'-DDE	mg/kg	--	--	--	--	--	<0.0022	<0.0026	<0.0023	--	--	--	--	--	--	<0.0086	<0.0045	<0.0042	<0.0022	--	--	--	--	--	<0.021
4,4'-DDT	mg/kg	--	--	--	--	--	<0.0022	<0.0026	<0.0023	--	--	--	--	--	--	<0.0086	<0.0045	<0.0042	<0.0022	--	--	--	--	--	<0.021
Aldrin	mg/kg	--	--	--	--	--	<0.0022	<0.0026	<0.0023	--	--	--	--	--	--	<0.0086	<0.0045	<0.0042	<0.0022	--	--	--	--	--	<0.021
alpha-BHC	mg/kg	--	--	--	--	--	<0.0022	<0.0026	<0.0023	--	--	--	--	--	--	<0.0086	<0.0045	<0.0042	<0.0022	--	--	--	--	--	<0.021
beta-BHC	mg/kg	--	--	--	--	--	<0.0022	<0.0026	<0.0023	--	--	--	--	--	--	<0.0086	<0.0045	<0.0042	<0.0022	--	--	--	--	--	<0.021
Chlordane (technical)	mg/kg	--	--	--	--	--	<0.022	<0.026	<0.023	--	--	--	--	--	--	<0.086	<0.045	<0.042	<0.022	--	--	--	--	--	<0.21
delta-BHC	mg/kg	--	--	--	--	--	<0.0022	<0.0026	<0.0023	--	--	--	--	--	--	<0.0086	<0.0045	<0.0042	<0.0022	--	--	--	--	--	<0.021
Dieldrin	mg/kg	--	--	--	--	--	<0.0022	<0.0026	<0.0023	--	--	--	--	--	--	<0.0086	<0.0045	<0.0042	<0.0022	--	--	--	--	--	<0.021
Endosulfan I	mg/kg	--	--	--	--	--	<0.0022	<0.0026	<0.0023	--	--	--	--	--	--	<0.0086	<0.0045	<0.0042	<0.0022	--	--	--	--	--	<0.021
Endosulfan II	mg/kg	--	--	--	--	--	<0.0022	<0.0026	<0.0023	--	--	--	--	--	--	<0.0086	<0.0045	<0.0042	<0.0022	--	--	--	--	--	<0.021
Endosulfan sulfate	mg/kg	--	--	--	--	--	<0.0022	<0.0026	<0.0023	--	--	--	--	--	--	<0.0086	<0.0045	<0.0042	<0.0022	--	--	--	--	--	<0.021
Endrin	mg/kg	--	--	--	--	--	<0.0022	<0.0026	<0.0023	--	--	--	--	--	--	<0.0086	<0.0045	<0.0042	<0.0022	--	--	--	--	--	<0.021
Endrin ketone	mg/kg	--	--	--	--	--	<0.0022	<0.0026	<0.0023	--	--	--	--	--	--	<0.0086	<0.0045	<0.0042	<0.0022	--	--	--	--	--	<0.021
gamma-BHC (Lindane)	mg/kg	--	--	--	--	--	<0.0022	<0.0026	<0.0023	--	--	--	--	--	--	<0.0086	<0.0045	<0.0042	<0.0022	--	--	--	--	--	<0.021
Heptachlor	mg/kg	--	--	--	--	--	<0.0022	<0.0026	<0.0023	--	--	--	--	--	--	<0.0086	<0.0045	<0.0042	<0.0022	--	--	--	--	--	<0.021
Heptachlor epoxide	mg/kg	--	--	--	--	--	<0.0022	<0.0026	<0.0023	--	--	--	--	--	--	<0.0086	<0.0045	<0.0042	<0.0022	--	--	--	--	--	<0.021
Hexachlorobenzene	mg/kg	--	--	--	--	--	<0.0022	<0.0026	<0.0023	--	--	--	--	--	--	<0.0086	<0.0045	<0.0042	<0.0022	--	--	--	--	--	<0.021
Methoxychlor	mg/kg	--	--	--	--	--	<0.0022	<0.0026	<0.0023	--	--	--	--	--	--	<0.0086	<0.0045	<0.0042	<0.0022	--	--	--	--	--	<0.021
Polychlorinated Biphenyls																									
Aroclor 1016	mg/kg	<0.164	<0.173	<0.164	<0.158	<0.140	<0.151	<0.138	<0.160	<0.156	<0.159	<0.167	<0.170	<0.139	<0.119	<0.143	<0.144	<0.149	<0.149	<0.157	<0.162	<0.156	<0.153	<0.142	<0.145
Aroclor 1221	mg/kg	<0.164	<0.173	<0.164	<0.158	<0.140	<0.151	<0.138	<0.160	<0.156	<0.159	<0.167	<0.170	<0.139	<0.119	<0.143	<0.144	<0.149	<0.149	<0.157	<0.162	<0.156	<0.153	<0.142	<0.145
Aroclor 1232	mg/kg	<0.164	<0.173	<0.164	<0.158	<0.140	<0.151	<0.138	<0.160	<0.156	<0.159	<0.167	<0.170	<0.139	<0.119	<0.143	<0.144	<0.149	<0.149	<0.157	<0.162	<0.156	<0.153	<0.142	<0.145
Aroclor 1242	mg/kg	<0.164	<0.173	<0.164	<0.158	<0.140	<0.151	<0.138	<0.160	<0.156	<0.159	<0.167	<0.170	<0.139	<0.119	<0.143	<0.144	<0.149	<0.149	<0.157	<0.162	<0.156	<0.153	<0.142	<0.145
Aroclor 1248	mg/kg	<0.164	<0.173	<0.164	<0.158	<0.140	<0.151	<0.138	<0.160	<0.156	<0.159	<0.167	<0.170	<0.139	<0.119	<0.143	<0.144	<0.149	<0.149	<0.157	<0.162	<0.156	<0.153	<0.142	<0.145
Aroclor 1254	mg/kg	<0.164	<0.173	<0.164	<0.158	<0.140	1.18	<0.138	<0.160	<0.156	<0.159	<0.167	<0.170	<0.139	<0.119	2.26	<0.144	<0.149	<0.149	<0.157	<0.162	<0.156	<0.153	<0.142	1.07
Aroclor 1260	mg/kg	<0.164	<0.173	<0.164	<0.158	<0.140	<0.151	<0.138	<0.160	<0.156	<0.159	<0.167	<0.170	<0.139	<0.119	0.489	<0.144	<0.149	<0.149	<0.157	<0.162	<0.156	<0.153	<0.142	<0.145
Aroclor 1262	mg/kg	<0.164	<0.173	<0.164	<0.158	<0.140	<0.151	<0.138	<0.160	<0.156	<0.159	<0.167	<0.170	<0.139	<0.119	<0.143	<0.144	<0.149	<0.149	<0.157	<0.162	<0.156	<0.153	<0.142	<0.145
Aroclor 1268	mg/kg	<0.164	<0.173	<0.164	<0.158	<0.140	<0.151	<0.138	<0.160	<0.156	<0.159	<0.167	<0.170	<0.139	<0.119	<0.143	<0.144	<0.149	<0.149	<0.157	<0.162	<0.156	<0.153	<0.142	<0.145
Total PCBs	mg/kg	ND	ND	ND	ND	ND	1.18	ND	ND	ND	ND	ND	ND	ND	ND	2.749	ND	ND	ND	ND	ND	ND	ND	ND	1.07
Total Petroleum Hydrocarbons	mg/kg	<52.2	<54.1	<51.8	<48.6	<39.6	798	327	196	<48.8	<51.1	<54.6	<54.3	<46.5	<36.5	3090	1010	181	<48.6	<50.1	<51.9	<51.7	<48.0	<45.3	1620
Volatile Organic Compounds (VOCs)																									
1,1,1,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-Chloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane - Screen	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Butanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Isopropyltoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-Pentanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Disulfide	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Analyte	Precharacterization Cell	C01	C01	C01	C01	C01	C02	C02	C02	C02	C02	C02	C02	C02	C02	C05	C05	C05	C05	C05	C05	C05	C05	C05	C06
	Sample ID	C01S05	C01S06	C01S07	C01S08	C01S09S10	C02S01S02A	C02S02BS04A	C02S04BS05	C02S06	C02S07	C02S08	C02S09	C02S10	C02S11S12	C05S01S02A	C05S02BS04A	C05S04BS05	C05S06S07A	C05S07BS08	C05S09	C05S10	C05S11	C05S12S13	C06S01S02A
	Laboratory Work Order	1412179	1412179	1412179	1412179	1412179	1412179	1412179	1412179	1412179	1412179	1412179	1412179	1412179	1412179	1503021	1503021	1503021	1503021	1503021	1503021	1503021	1503021	1503021	1503047
	Soil Distinction	Natural	Natural	Natural	Natural	Natural	Fill	Fill	Fill	Natural	Natural	Natural	Natural	Natural	Natural	Fill	Fill	Fill	Fill	Natural	Natural	Natural	Natural	Natural Sand/Gravel	Fill
	Soil Type	Clay	Clay	Clay	Clay	Clay				Clay	Clay	Clay	Clay	Clay	Clay					Clay	Clay	Clay	Clay	34 - 38	
	Depth Interval (ft.)	14 - 16	19 - 21	24 - 26	29 - 31	34 - 38	0 - 3.3	3.3 - 6.6	6.6 - 10	10 - 12	14 - 16	19 - 21	24 - 26	29 - 31	34 - 38	0 - 3.3	3.3 - 6.6	6.6 - 10	10 - 13.5	13.5 - 16	19 - 21	24 - 26	29 - 31	34 - 38	0 - 3.3
	Sampling Date	12/9/2014	12/9/2014	12/9/2014	12/9/2014	12/9/2014	12/9/2014	12/9/2014	12/9/2014	12/9/2014	12/9/2014	12/9/2014	12/9/2014	12/9/2014	12/9/2014	3/2/2015	3/2/2015	3/2/2015	3/2/2015	3/2/2015	3/2/2015	3/2/2015	3/2/2015	3/2/2015	3/2/2015	3/3/2015
Preliminary Disposal Facility Category		MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type A	Uncontaminated	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type B-1	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type B-1	MCP Restricted	Hazardous Material Type A	Hazardous Material Type B	Hazardous Material Type B	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	Uncontaminated	MCP Regulated Type A	Hazardous Material Type B
Chlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Diethyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Di-isopropyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethyl tertiary-butyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
tert-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tertiary-amyl methyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene O	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene P,M	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylenes (Total)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total VOCs	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds - Low Level Analysis																									
1,1,1,2-Tetrachloroethane	mg/kg	<0.0053	<0.0041	<0.0050	<0.0040	<0.0032	<0.0050	<0.0048	<0.0040	<0.0040	<0.0034	<0.0040	<0.0038	<0.0041	<0.0033	<0.0054	<0.0044	<0.0034	<0.0039	<0.0038	<0.0032	<0.0040	<0.0032	<0.0045	<0.0050
1,1,1-Trichloroethane	mg/kg	<0.0053	<0.0041	<0.0050	<0.0040	<0.0032	<0.0050	<0.0048	<0.0040	<0.0040	<0.0034	<0.0040	<0.0038	<0.0041	<0.0033	<0.0054	<0.0044	<0.0034	<0.0039	<0.0038	<0.0032	<0.0040	<0.0032	<0.0045	<0.0050
1,1,2,2-Tetrachloroethane	mg/kg	<0.0021	<0.0016	<0.0020	<0.0016	<0.0013	<0.0020	<0.0019	<0.0016	<0.0016	<0.0014	<0.0016	<0.0015	<0.0016	<0.0013	<0.0022	<0.0017	<0.0014	<0.0015	<0.0015	<0.0013	<0.0016	<0.0013	<0.0018	<0.0020
1,1,2-Trichloroethane	mg/kg	<0.0053	<0.0041	<0.0050	<0.0040	<0.0032	<0.0050	<0.0048	<0.0040	<0.0040	<0.0034	<0.0040	<0.0038	<0.0041	<0.0033	<0.0054	<0.0044	<0.0034	<0.0039	<0.0038	<0.0032	<0.0040	<0.0032	<0.0045	<0.0050
1,1-Dichloroethane	mg/kg	<0.0053	<0.0041	<0.0050	<0.0040	<0.0032	<0.0050	<0.0048	<0.0040	<0.0040	<0.0034	<0.0040	<0.0038	<0.0041	<0.0033	<0.0054	<0.0044	<0.0034	<0.0039	<0.0038	<0.0032	<0.0040	<0.0032	<0.0045	<0.0050
1,1-Dichloroethene	mg/kg	<0.0053	<0.0041	<0.0050	<0.0040	<0.0032	<0.0050	<0.0048	<0.0040	<0.0040	<0.0034	<0.0040	<0.0038	<0.0041	<0.0033	<0.0054	<0.0044	<0.0034	<0.0039	<0.0038	<0.0032	<0.0040	<0.0032	<0.0045	<0.0050
1,1-Dichloropropene	mg/kg	<0.0053	<0.0041	<0.0050	<0.0040	<0.0032	<0.0050	<0.0048	<0.0040	<0.0040	<0.0034	<0.0040	<0.0038	<0.0041	<0.0033	<0.0054	<0.0044	<0.0034	<0.0039	<0.0038	<0.0032	<0.0040	<0.0032	<0.0045	<0.0050
1,2,3-Trichlorobenzene	mg/kg	<0.0053	<0.0041	<0.0050	<0.0040	<0.0032	<0.0050	<0.0048	<0.0040	<0.0040	<0.0034	<0.0040	<0.0038	<0.0041	<0.0033	<0.0054	<0.0044	<0.0034	<0.0039	<0.0038	<0.0032	<0.0040	<0.0032	<0.0045	<0.0050
1,2,3-Trichloropropane	mg/kg	<0.0053	<0.0041	<0.0050	<0.0040	<0.0032	<0.0050	<0.0048	<0.0040	<0.0040	<0.0034	<0.0040	<0.0038	<0.0041	<0.0033	<0.0054	<0.0044	<0.0034	<0.0039	<0.0038	<0.0032	<0.0040	<0.0032	<0.0045	<0.0050
1,2,4-Trichlorobenzene	mg/kg	<0.0053	<0.0041	<0.0050	<0.0040	<0.0032	<0.0050	<0.0048	<0.0040	<0.0040	<0.0034	<0.0040	<0.0038	<0.0041	<0.0033	<0.0054	<0.0044	<0.0034	<0.0039	<0.0038	<0.0032	<0.0040	<0.0032	<0.0045	<0.0050
1,2,4-Trimethylbenzene	mg/kg	<0.0053	<0.0041	<0.0050	<0.0040	<0.0032	<0.0050	<0.0048	<0.0040	<0.0040	<0.0034	<0.0040	<0.0038	<0.0041	<0.0033	<0.0054	<0.0044	<0.0034	<0.0039	<0.0038	<0.0032	<0.0040	<0.0032	<0.0045	<0.0050
1,2-Dibromo-3-Chloropropane	mg/kg	<0.0053	<0.0041	<0.0050	<0.0040	<0.0032	<0.0050	<0.0048	<0.0040	<0.0040	<0.0034	<0.0040	<0.0038	<0.0041	<0.0033	<0.0054	<0.0044	<0.0034	<0.0039	<0.0038	<0.0032	<0.0040	<0.0032	<0.0045	<0.0050
1,2-Dibromoethane	mg/kg	<0.0053	<0.0041	<0.0050	<0.0040	<0.0032	<0.0050	<0.0048	<0.0040	<0.0040	<0.0034	<0.0040	<0.0038	<0.0041	<0.0033	<0.0054	<0.0044	<0.0034	<0.0039	<0.0038	<0.0032	<0.0040	<0.0032	<0.0045	<0.0050
1,2-Dichlorobenzene	mg/kg	<0.0053	<0.0041	<0.0050	<0.0040	<0.0032	<0.0050	<0.0048	<0.0040	<0.0040	<0.0034	<0.0040	<0.0038	<0.0041	<0.0033	<0.0054	<0.0044	<0.0034	<0.0039	<0.0038	<0.0032	<0.0040	<0.0032	<0.0045	<0.0050
1,2-Dichloroethane	mg/kg	<0.0053	<0.0041	<0.0050	<0.0040	<0.0032	<0.0050	<0.0048	<0.0040	<0.0040	<0.0034	<0.0040	<0.0038	<0.0041	<0.0033	<0.0054	<0.0044	<0.0034	<0.0039	<0.0038	<0.0032	<0.0040	<0.0032	<0.0045	<0.0050
1,2-Dichloropropane	mg/kg	<0.0053	<0.0041	<0.0050	<0.0040	<0.0032	<0.0050	<0.0048	<0.0040	<0.0040	<0.0034	<0.0040	<0.0038	<0.0041	<0.0033	<0.0054	<0.0044	<0.0034	<0.0039	<0.0038	<0.0032	<0.0040	<0.0032	<0.0045	<0.0050
1,3,5-Trimethylbenzene	mg/kg	<0.0053	<0.0041	<0.0050	<0.0040	<0.0032	<0.0050	<0.0048	<0.0040	<0.0040	<0.0034	<0.0040	<0.0038	<0.0041	<0.0033	<0.0054	<0.0044	<0.0034	<0.0039	<0.0038	<0.0032	<0.0040	<0.0032	<0.0045	<0.0050
1,3-Dichlorobenzene	mg/kg	<0.0053	<0.0041	<0.0050	<0.0040	<0.0032	<0.0050	<0.0048	<0.0040	<0.0040	<0.0034	<0.0040	<0.0038	<0.0041	<0.0033	<0.0054	<0.0044	<0.0034	<0.0039	<0.0038	<0.0032	<0.0040	<0.0032	<0.0045	<0.0050
1,3-Dichloropropane	mg/kg	<0.0053	<0.0041	<0.0050	<0.0040	<0.0032	<0.0050	<0.0048	<0.0040	<0.0040	<0.0034	<0.0040	<0.0038	<0.0041	<0.0033	<0.0054	<0.0044	<0.0034	<0.0039	<0.0038	<0.0032	<0.0040	<0.0032	<0.0045	<0.0050
1,4-Dichlorobenzene	mg/kg	<0.0053	<0.0041	<0.0050	<0.0040	<0.0032	<0.0050	<0.0048	<0.0040	<0.0040	<0.0034	<0.0040	<0.0038	<0.0041	<0.0033	<0.0054	<0.0044	<0.0034	<0.0039	<0.0038	<0.0032	<0.0040	<0.0032	<0.0045	<0.0050
1,4-Dioxane	mg/kg	<0.106	<0.0822	<0.101	<0.0791	<0.0634	<0.0992	<0.0961	<0.0805	<0.0810	<0.0678	<0.0810	<0.0764	<0.0813	<0.0656	<0.109	<0.0874	<0.0682	<0.0772	<0.0770	<0.0644	<0.0795	<0.0648	<0.0890	<0.0995
2,2-Dichloropropane	mg/kg	<0.0053	<0.0041	<0.0050	<0.0040	<0.0032	<0.0050	<0.0048	<0.0040	<0.0040	<0.0034	<0.0040	<0.0038	<0.0041	<0.0033	<0.0054	<0.0044	<0.0034	<0.0039	<0.0038	<0.0032	<0.0040	<0.0032	<0.0045	<0.0050
2-Butanone	mg/kg	<0.0106	<0.0082	<0.0101	<0.0079	<0.0063	<0.0099	<0.0096	<0.0080	<0.0081	<0.0068	<0.0081	<0.0076	<0.0081	<0.0066	<0.0109	<0.0087	<0.0068	<0.0077	<0.0077	<0.0064	<0.0080	<0.0065	<0.0089	<0.0099
2-Chlorotoluene	mg/kg	<0.0053	<0.0041	<0.0050	<0.0040	<0.0032	<0.0050	<0.0048	<0.0040	<0.0040	<0.0034	<0.0040	<0.0038	<0.0041	<0.0033	<0.0054	<0.0044	<0.0034	<0.0039	<0.0038	<0.0032	<0.0040	<0.0032	<0.0045	<0.0050
2-Hexanone	mg/kg	<0.0106	<0.0082	<0.0101	<0.0079	<0.0063	<0.0099	<0.0096	<0.0080	<0.0081	<0.0068	<0.0081	<0.0076	<0.0081	<0.0066	<0.0109	<0.0087	<0.0068	<0.0077	<0.0077	<0.0064	<0.0080	<0.0065	<0.0089	<0.0099
4-Chlorotoluene	mg/kg	<0.0053	<0.0041	<0.0050	<0.0040	<0.0032	<0.0050	<0.0048	<0.0040	<0.0040	<0.0034	<0.0040	<0.0038	<0.0041	<0.0033	<0.0054	<0.0044	<0.0034	<0.0039	<0.0038	<0.0032	<0.0040	<0.0032	<0.0045	<0.0050
4-Isopropyltoluene	mg/kg	<0.0053	<0.0041	<0.0050	<0.0040	<0.0032	<0.0050	<0.0048	<0.0040	<0.0040	<0.0034	<0.0040	<0.0038	<0.0041	<0.0033	<0.0054	<0.0044	<0.0034	<0.0039	<0.0038	<0.0032	<0.0040	<0.0032	<0.0045	<0.0050
4-Methyl-2-Pentanone	mg/kg	<0.0106	<0.0082	<0.0101	<0.0079	<0.0063	<0.0099	<0.0096	<0.0080	<0.0081	<0.0068	<0.0081	<0.0076	<0.0081	<0.0066	<0.0109	<0.0087	<0.0068	<0.0077	<0.0077	<0.0064	<0.0080	<0.0065	<0.0089	<0.0099
Acetone	mg/kg	<0.0106	<0.0082	<0.0101	<0.0079	<0.0063	<0.0099	<0.0096	<0.0080	<0.0081	<0.0068	<0.0081	<0.0076	<0.0081	<0.0066	<0.0109	<0.0087	<0.0068	<0.0077	<0.0077	<0.0064	<0.0080	<0.0065	0.0095	<0.0099
Benzene	mg/kg	<0.0053	<0.0041	<0.0050	<0.0040	<0.0032	<0.0050	<0.0048	<0.0040	<0.0040	<0.0034	<0.0040	<0.0038	<0.0041	<0.0033	<0.0054	<0.0044	<0.0034	<0.0039	<0.0038	<0.0032	<0.0040	<0.0032	<0.0045	<0.0050
Bromobenzene	mg/kg	<0.0053	<0.0041	<0.0050	<0.0040	<0.0032	<0.0050	<0.0048	<0.0040	<0.0040	<0.0034	<0.0040	<0.0038	<0.0041	<0.0033	<0.0054	<0.0044	<0.0034	<0.0039	<0.0038	<0.0032	<0.0040	<0.0032	<0.0045	<0.0050
Bromochloromethane	mg/kg	<0.0053	<0.0041	<0.0050	<0.0040	<0.0032	<0.0050	<0.0048	<0.0040	<0.0040	<0.0034	<0.0040	<0.0038	<0.0041	<0.0033	<0.0054	<0.0044	<0.0034	<0.0039	<0.0038	<0.0032	<0.0040	<0.0032	<0.0045	<0.0050
Bromodichloromethane	mg/kg	<0.0053	<0.0041	<0.0050	<0.0040	<0.0032	<0.0050	<0.0048	<0.0040	<0.0040	<0.0034	<0.0040	<0.0038	<0.0041	<0.0033	<0.0054	<0.0044	<0.0034	<0.0039	<0.0038	<0.0032	<0.0040	<0.0032	<0.0045	<0.0050
Bromoform	mg/kg	<0.0053	<0.0041	<0.0050	<0.0040	<0.0032	<0.0050	<0.0048	<0.0040	<0.0040	<0.0034	<0.0040	<0.0038	<0.0041	<0.0033	<0.0054	<0.0044	<0.0034	<0.0039	<0.0038	<0.0032	<0.0040	<0.0032	<0.0045	<0.0050
Bromomethane	mg/kg	<0.0106	<0.0082	<0.0101	<0.0079	<0.0063	<0.0099	<0.0096	<0.0080	<0.0081	<0.0068	<0.0081	<0.0076	<0.0081	<0.0066	<0.0109	<0.0087	<0.0068	<0.0077	<0.0077	<0.0064	<0.0080	<0.0065	<0.0089	<0.0099
Carbon Disulfide	mg/kg	<0.0053	<0.0041	<0.0050	<0.0040	<0.0032	<0.0050	<0.0048	<0.0040	<0.0040	<0.0034	<0.0040	<0.0038	<0.0041	<0.0033	<0.0054	<0.0044	<0.0034	<0.0039	<0.0038	<0.0032	<0.0040	<0.0032	<0.0045	<0.0050
Carbon Tetrachloride	mg/kg	<0.0053	<0.0041	<0.0050	<0.0040	<0.0032	<0.0050	<0.0048	<0.0040	<0.0040	<0.0034	<0.0040	<0.0038	<0.0041	<0.0033	<0.0054	<0.0044	<0.0034	<0.0039	<0.0038	<0.0032	<0.0040	<0.0032	<0.0045	<0.0050
Chlorobenzene	mg/kg	<0.0053	<0.0041	<0.0050	<0.0040	<0.0032	<0.0050	<0.0048	<0.0040	<0.0040	<0.0034	<0.0040	<0.0038	<0.0041	<0.0033	<0.0054	<0.0044	<0.0034	<0.0039	<0.0038	<0.0032	<0.0040	<0.0032	<0.0045	<0.0050
Chloroethane	mg/kg	<0.0106	<0.0082	<0.0101	<0.0079	<0.0063	<0.0099	<0.0096	<0.0080	<0.0081	<0.0068	<0.0081	<0.0076	<0.0081	<0.0066	<0.0109	<0.0087	<0.0068	<0.0077	<0.0077	<0.0064	<0.0080	<0.0065	<0.0089	<0.0099
Chloroform	mg/kg	<0.0053	<0.0041	<0.0050	<0.0040	<0.0032	<0.0050	<0.0048	<0.0040	<0.0040	<0.0034	<0.0040	<0.0038	<0.0041	<0.0033	<0.0054	<0.0044	<0.0034	<0.0039	<0.0038	<0.0032	<0.0040	<0.0032	<0.0045	<0.0050
Chloromethane	mg/kg	<0.0106	<0.0082	<0.0101	<0.0079	<0.0063	<0.0099	<0.0096	<0.0080	<0.0081	<0.0068	<0.0081	<0.0076	<0.0081	<0.0066	<0.0109	<0.0087	<0.0068	<0.0077	<0.0077	<0.0064	<0.0080	<0.0065	<0.0089	<0.0099
cis-1,2-Dichloroethene	mg/kg	<0.0053	<0.0041	<0.0050	<0.0040	<0.0032	<0.0050	<0.0048	<0.0040	<0.0040	<0.0034	<0.0040	<0.0038	<0.0041	<0.0033	<0.0054	<0.0044	<0.0034	<0.0039	<0.0038	<0.0032	<0.0040	<0.0032	<0.0045	<0.0050
cis-1,3-Dichloropropene	mg/kg	<0.0053	<0.0041	<0.0050	<0.0040	<0.0032	<0.0050	<0.0048	<0.0040	<0.0040	<0.0034	<0.0040	<0.0038	<0.0041	<0.0033	<0.0054	<0.0044	<0.0034	<0.0039	<0.0038	<0.0032	<0.0040	<0.0032	<0.0045	<0.0050
Dibromochloromethane	mg/kg	<0.0021	<0.0016	<0.0020	<0.0016	<0.0013	<0.0020	<0.0019	<0.0016	<0.0016	<0.0014	<0.0016	<0.0015	<0.0016	<0.0013	<0.0022	<0.0017	<0.0014	<0.0015	<0.0015	<0.0013	<0.0016	<0.0013	<0.0018	<0.0020
Dibromomethane	mg/kg	<0.0053	<0.0041	<0.0050	<0.0040	<0.0032	<0.0050	<0.0048	<0.0040	<0.0040	<0.0034	<0.0040	<0.0038	<0.0041	<0.0033	<0.0054	<0.0044	<0.0034	<0.0039	<0.0038	<0.0032	<0.0040	<0.0032	<0.0045	<0.0050
Dichlorodifluoromethane	mg/kg	<0.0106	<0.0082	<0.0101	<0.0079	<0.0063	<0.0099	<0.0096	<0.0080	<0.0081	<0.0068	<0.0081	<0.0076	<0.0081	<0.0066	<0.0109	<0.0087	<0.0068	<0.0077	<0.0077	<0.0064	<0.0080	<0.0065	<0.0089	<0.0099
Diethyl Ether	mg/kg	<0.0053	<0.0041	<0.0050	<0.0040	<0.0032	<0.0050	<0.0048	<0.0040	<0.0040	<0.0034	<0.0040	<0.0038	<0.0041	<0.0033	<0.0054	<0.0044	<0.0034	<0.0039	<0.0038	<0.0032	<0.0040	<0.0032	<0.0045	<0.0050
Di-isopropyl ether	mg/kg	<0.0053	<0.0041	<0.0050	<0.0040	<0.0032	<0.0050	<0.0048	<0.0040	<0.0040	<0.0034	<0.0040	<0.0038	<0.0041	<0.0033	<0.0054	<0.0044	<0.0034	<0.0039	<0.0038	<0.0032	<0.0040	<0.0032	<0.0045	<0.0050
Ethyl tertiary-butyl ether	mg/kg	<0.0053	<0.0041	<0.0050	<0.0040	<0.0032	<0.0050	<0.0048	<0.0040	<0.0040	<0.0034	<0.0040	<0.0038	<0.0041	<0.0033	<0.0054	<0.0044	<0.0034	<0.0039	<0.0038	<0.0032	<0.0040	<0.0032	<0.0045	<0.0050
Ethylbenzene	mg/kg	<0.0053	<0.0041	<0.0050	<0.0040	<0.0032	<0.0050	<0.0048	<0.0040	<0.0040	<0.0034	<0.0040	<0.0038	<0.0041	<0.0033	<0.0054	<0.0044	<0.0034	<0.0039	<0.0038	<0.0032	<0.0040	<0.0032	<0.0045	<0.0050
Hexachlorobutadiene	mg/kg	<0.0053	<0.0041	<0.0050	<0.0040	<0.0032	<0.0050	<0.0048	<0.0040	<0.0040	<0.0034	<0.0040	<0.0038	<0.0041	<0.0033	<0.0054	<0.0044	<0.0034	<0.0039	<0.0038	<0.0032	<0.0040	<0.0032	<0.0045	<0.0050
Isopropylbenzene	mg/kg	<0.0053	<0.0041	<0.0050	<0.0040	<0.0032	<0.0050	<0.0048	<0.0040	<0.0040	<0.0034	<0.0040	<0.0038	<0.0041	<0.0033	<0.0054	<0.0044	<0.0034	<0.0039	<0.0038	<0.0032	<0.0040	<0.0032	<0.0045	<0.0050
Methyl tert-Butyl Ether	mg/kg	<0.0053	<0.0041	<0.0050	<0.0040	<0.0032	<0.0050	<0.0048	<0.0040	<0.0040	<0.0034	<0.0040	<0.0038	<0.0041	<0.0033	<0.0054	<0.0044	<0.0034	<0.0039	<0.0038	<0.0032	<0.0040	<0.0032	<0.0045	<0.0050
Methylene Chloride	mg/kg	<0.0106	<0.0082	<0.0101	<0.0079	<0.0063	<0.0099	<0.0096	<0.0080	<0.0081	<0.0068	<0.0081	<0.0076	<0.0081	<0.0066	<0.0109	<0.0087	<0.0068	<0.0077	<0.0077	<0.0064	<0.0080	<0.0065	<0.0089	<0.0099
Naphthalene	mg/kg	<0.0053	<0.0041	<0.0050	<0.0040	<0.0032	<0.0050	<0.0048	<0.0040	<0.0040	<0.0034	<0.0040	<0.0038	<0.0041	<0.0033	0.009	0.0567	<0.0034	<0.0039	<0.0038	<0.0032	<0.0040	<0.0032	<0.0045	<0.0050
n-Butylbenzene	mg/kg	<0.0053	<0.0041	<0.0050	<0.0040	<0.0032	<0.0050	<0.0048	<0.0040	<0.0040	<0.0034	<0.0040	<0.0038	<0.0041	<0.0033	<0.0054	<0.0044	<0.0034	<0.0039	<0.0038	<0.0032	<0.0040	<0.0032	<0.0045	<0.0050
n-Propylbenzene	mg/kg	<0.0053	<0.0041	<0.0050	<0.0040	<0.0032	<0.0050	<0.0048	<0.0040	<0.0040	<0.0034	<0.0040	<0.0038	<0.0041	<0.0033	<0.0054	<0.0044	<0.0034	<0.0039	<0.0038	<0.0032	<0.0040	<0.0032	<0.0045	<0.0050
sec-Butylbenzene	mg/kg	<0.0053	<0.0041	<0.0050	<0.0040	<0.0032	<0.0050	<0.0048	<0.0040	<0.0040	<0.0034	<0.0040	<0.0038	<0.0041	<0.0033	<0.0054	<0.0044	<0.0034	<0.0039	<0.0038	<0.0032	<0.0040	<0.0032	<0.0045	<0.0050

Table 1
Soil Precharacterization Data

Wynn Resort Casino
Everett, Massachusetts

Analyte	Precharacterization Cell	C01	C01	C01	C01	C01	C02	C02	C02	C02	C02	C02	C02	C02	C02	C05	C05	C05	C05	C05	C05	C05	C05	C05	C06
	Sample ID	C01S05	C01S06	C01S07	C01S08	C01S09S10	C02S01S02A	C02S02BS04A	C02S04BS05	C02S06	C02S07	C02S08	C02S09	C02S10	C02S11S12	C05S01S02A	C05S02BS04A	C05S04BS05	C05S06S07A	C05S07BS08	C05S09	C05S10	C05S11	C05S12S13	C06S01S02A
	Laboratory Work Order	1412179	1412179	1412179	1412179	1412179	1412179	1412179	1412179	1412179	1412179	1412179	1412179	1412179	1412179	1503021	1503021	1503021	1503021	1503021	1503021	1503021	1503021	1503021	1503047
	Soil Distinction	Natural	Natural	Natural	Natural	Natural	Fill	Fill	Fill	Natural	Natural	Natural	Natural	Natural	Natural	Fill	Fill	Fill	Fill	Natural	Natural	Natural	Natural	Natural Sand/Gravel	Fill
	Soil Type	Clay	Clay	Clay	Clay	Clay				Clay	Clay	Clay	Clay	Clay	Clay					Clay	Clay	Clay	Clay	34 - 38	
	Depth Interval (ft.)	14 - 16	19 - 21	24 - 26	29 - 31	34 - 38	0 - 3.3	3.3 - 6.6	6.6 - 10	10 - 12	14 - 16	19 - 21	24 - 26	29 - 31	34 - 38	0 - 3.3	3.3 - 6.6	6.6 - 10	10 - 13.5	13.5 - 16	19 - 21	24 - 26	29 - 31	34 - 38	0 - 3.3
	Sampling Date	12/9/2014	12/9/2014	12/9/2014	12/9/2014	12/9/2014	12/9/2014	12/9/2014	12/9/2014	12/9/2014	12/9/2014	12/9/2014	12/9/2014	12/9/2014	12/9/2014	3/2/2015	3/2/2015	3/2/2015	3/2/2015	3/2/2015	3/2/2015	3/2/2015	3/2/2015	3/2/2015	3/2/2015	3/3/2015
Preliminary Disposal Facility Category		MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	Uncontaminated	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type B-1	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type B-1	MCP Restricted	Hazardous Material Type A	Hazardous Material Type B	Hazardous Material Type B	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	Uncontaminated	MCP Regulated Type A	Hazardous Material Type B
Styrene	mg/kg	<0.0053	<0.0041	<0.0050	<0.0040	<0.0032	<0.0050	<0.0048	<0.0040	<0.0040	<0.0034	<0.0040	<0.0038	<0.0041	<0.0033	<0.0054	<0.0044	<0.0034	<0.0039	<0.0038	<0.0032	<0.0040	<0.0032	<0.0045	<0.0050
tert-Butylbenzene	mg/kg	<0.0053	<0.0041	<0.0050	<0.0040	<0.0032	<0.0050	<0.0048	<0.0040	<0.0040	<0.0034	<0.0040	<0.0038	<0.0041	<0.0033	<0.0054	<0.0044	<0.0034	<0.0039	<0.0038	<0.0032	<0.0040	<0.0032	<0.0045	<0.0050
Tertiary-amyl methyl ether	mg/kg	<0.0053	<0.0041	<0.0050	<0.0040	<0.0032	<0.0050	<0.0048	<0.0040	<0.0040	<0.0034	<0.0040	<0.0038	<0.0041	<0.0033	<0.0054	<0.0044	<0.0034	<0.0039	<0.0038	<0.0032	<0.0040	<0.0032	<0.0045	<0.0050
Tetrachloroethene	mg/kg	<0.0053	<0.0041	<0.0050	<0.0040	<0.0032	<0.0050	<0.0048	<0.0040	<0.0040	<0.0034	<0.0040	<0.0038	<0.0041	<0.0033	<0.0054	<0.0044	<0.0034	<0.0039	<0.0038	<0.0032	<0.0040	<0.0032	<0.0045	<0.0050
Tetrahydrofuran	mg/kg	<0.0053	<0.0041	<0.0050	<0.0040	<0.0032	<0.0050	<0.0048	<0.0040	<0.0040	<0.0034	<0.0040	<0.0038	<0.0041	<0.0033	<0.0054	<0.0044	<0.0034	<0.0039	<0.0038	<0.0032	<0.0040	<0.0032	<0.0045	<0.0050
Toluene	mg/kg	<0.0053	<0.0041	<0.0050	<0.0040	<0.0032	<0.0050	<0.0048	<0.0040	<0.0040	<0.0034	<0.0040	<0.0038	<0.0041	<0.0033	<0.0054	<0.0044	<0.0034	<0.0039	<0.0038	<0.0032	<0.0040	<0.0032	<0.0045	<0.0050
trans-1,2-Dichloroethene	mg/kg	<0.0053	<0.0041	<0.0050	<0.0040	<0.0032	<0.0050	<0.0048	<0.0040	<0.0040	<0.0034	<0.0040	<0.0038	<0.0041	<0.0033	<0.0054	<0.0044	<0.0034	<0.0039	<0.0038	<0.0032	<0.0040	<0.0032	<0.0045	<0.0050
trans-1,3-Dichloropropene	mg/kg	<0.0053	<0.0041	<0.0050	<0.0040	<0.0032	<0.0050	<0.0048	<0.0040	<0.0040	<0.0034	<0.0040	<0.0038	<0.0041	<0.0033	<0.0054	<0.0044	<0.0034	<0.0039	<0.0038	<0.0032	<0.0040	<0.0032	<0.0045	<0.0050
Trichloroethene	mg/kg	<0.0053	<0.0041	<0.0050	<0.0040	<0.0032	<0.0050	0.0077	<0.0040	<0.0040	<0.0034	<0.0040	<0.0038	<0.0041	<0.0033	<0.0054	<0.0044	<0.0034	<0.0039	<0.0038	<0.0032	<0.0040	<0.0032	<0.0045	<0.0050
Trichlorofluoromethane	mg/kg	<0.0053	<0.0041	<0.0050	<0.0040	<0.0032	<0.0050	<0.0048	<0.0040	<0.0040	<0.0034	<0.0040	<0.0038	<0.0041	<0.0033	<0.0054	<0.0044	<0.0034	<0.0039	<0.0038	<0.0032	<0.0040	<0.0032	<0.0045	<0.0050
Vinyl Chloride	mg/kg	<0.0106	<0.0082	<0.0101	<0.0079	<0.0063	<0.0099	<0.0096	<0.0080	<0.0081	<0.0068	<0.0081	<0.0076	<0.0081	<0.0066	<0.0109	<0.0087	<0.0068	<0.0077	<0.0077	<0.0064	<0.0080	<0.0065	<0.0089	<0.0099
Xylene O	mg/kg	<0.0053	<0.0041	<0.0050	<0.0040	<0.0032	<0.0050	<0.0048	<0.0040	<0.0040	<0.0034	<0.0040	<0.0038	<0.0041	<0.0033	<0.0054	<0.0044	<0.0034	<0.0039	<0.0038	<0.0032	<0.0040	<0.0032	<0.0045	<0.0050
Xylene P,M	mg/kg	<0.0106	<0.0082	<0.0101	<0.0079	<0.0063	<0.0099	<0.0096	<0.0080	<0.0081	<0.0068	<0.0081	<0.0076	<0.0081	<0.0066	<0.0109	<0.0087	<0.0068	<0.0077	<0.0077	<0.0064	<0.0080	<0.0065	<0.0089	<0.0099
Xylenes (Total)	mg/kg	<0.0106	<0.0082	<0.0101	<0.0079	<0.0063	<0.0099	<0.0096	<0.0080	<0.0081	<0.0068	<0.0081	<0.0076	<0.0081	<0.0066	<0.0109	<0.0087	<0.0068	<0.0077	<0.0077	<0.0064	<0.0080	<0.0065	<0.0089	<0.0099
Total VOCs (Low Level)	mg/kg	ND	ND	ND	ND	ND	ND	0.0077	ND	ND	ND	ND	ND	ND	ND	0.009	0.0567	ND	ND	ND	ND	ND	ND	0.0095	ND
Semi-Volatile Organic Compounds																									
1,2,4-Trichlorobenzene	mg/kg	<1.11	<1.15	<1.07	<1.06	<0.897	<0.985	<1.04	<0.955	<1.04	<0.951	<1.11	<1.11	<1.04	<0.748	<1.02	<1.00	<0.942	<1.01	<1.06	<1.07	<1.08	<0.946	<0.927	<1.03
1,2-Dichlorobenzene	mg/kg	<1.11	<1.15	<1.07	<1.06	<0.897	<0.985	<1.04	<0.955	<1.04	<0.951	<1.11	<1.11	<1.04	<0.748	<1.02	<1.00	<0.942	<1.01	<1.06	<1.07	<1.08	<0.946	<0.927	<1.03
1,3-Dichlorobenzene	mg/kg	<1.11	<1.15	<1.07	<1.06	<0.897	<0.985	<1.04	<0.955	<1.04	<0.951	<1.11	<1.11	<1.04	<0.748	<1.02	<1.00	<0.942	<1.01	<1.06	<1.07	<1.08	<0.946	<0.927	<1.03
1,4-Dichlorobenzene	mg/kg	<0.556	<0.577	<0.535	<0.529	<0.450	<0.494	<0.523	<0.479	<0.522	<0.477	<0.559	<0.558	<0.522	<0.375	<0.511	<0.503	<0.473	<0.509	<0.532	<0.538	<0.543	<0.475	<0.465	<0.518
2,4,5-Trichlorophenol	mg/kg	<1.11	<1.15	<1.07	<1.06	<0.897	<0.985	<1.04	<0.955	<1.04	<0.951	<1.11	<1.11	<1.04	<0.748	<1.02	<1.00	<0.942	<1.01	<1.06	<1.07	<1.08	<0.946	<0.927	<1.03
2,4,6-Trichlorophenol	mg/kg	<1.11	<1.15	<1.07	<1.06	<0.897	<0.985	<1.04	<0.955	<1.04	<0.951	<1.11	<1.11	<1.04	<0.748	<1.02	<1.00	<0.942	<1.01	<1.06	<1.07	<1.08	<0.946	<0.927	<1.03
2,4-Dichlorophenol	mg/kg	<1.11	<1.15	<1.07	<1.06	<0.897	<0.985	<1.04	<0.955	<1.04	<0.951	<1.11	<1.11	<1.04	<0.748	<1.02	<1.00	<0.942	<1.01	<1.06	<1.07	<1.08	<0.946	<0.927	<1.03
2,4-Dimethylphenol	mg/kg	<1.11	<1.15	<1.07	<1.06	<0.897	<0.985	<1.04	<0.955	<1.04	<0.951	<1.11	<1.11	<1.04	<0.748	<1.02	<1.00	<0.942	<1.01	<1.06	<1.07	<1.08	<0.946	<0.927	<1.03
2,4-Dinitrophenol	mg/kg	<5.56	<5.77	<5.35	<5.29	<4.50	<4.94	<5.23	<4.79	<5.22	<4.77	<5.59	<5.58	<5.22	<3.75	<5.11	<5.03	<4.73	<5.09	<5.32	<5.38	<5.43	<4.75	<4.65	<5.18
2,4-Dinitrotoluene	mg/kg	<1.11	<1.15	<1.07	<1.06	<0.897	<0.985	<1.04	<0.955	<1.04	<0.951	<1.11	<1.11	<1.04	<0.748	<1.02	<1.00	<0.942	<1.01	<1.06	<1.07	<1.08	<0.946	<0.927	<1.03
2,6-Dinitrotoluene	mg/kg	<1.11	<1.15	<1.07	<1.06	<0.897	<0.985	<1.04	<0.955	<1.04	<0.951	<1.11	<1.11	<1.04	<0.748	<1.02	<1.00	<0.942	<1.01	<1.06	<1.07	<1.08	<0.946	<0.927	<1.03
2-Chloronaphthalene	mg/kg	<1.11	<1.15	<1.07	<1.06	<0.897	<0.985	<1.04	<0.955	<1.04	<0.951	<1.11	<1.11	<1.04	<0.748	<1.02	<1.00	<0.942	<1.01	<1.06	<1.07	<1.08	<0.946	<0.927	<1.03
2-Chlorophenol	mg/kg	<1.11	<1.15	<1.07	<1.06	<0.897	<0.985	<1.04	<0.955	<1.04	<0.951	<1.11	<1.11	<1.04	<0.748	<1.02	<1.00	<0.942	<1.01	<1.06	<1.07	<1.08	<0.946	<0.927	<1.03
2-Methylnaphthalene	mg/kg	<1.11	<1.15	<1.07	<1.06	<0.897	<0.985	<1.04	<0.955	<1.04	<0.951	<1.11	<1.11	<1.04	<0.748	7.55	1.94	<0.942	<1.01	<1.06	<1.07	<1.08	<0.946	<0.927	1.32
2-Methylphenol	mg/kg	<1.11	<1.15	<1.07	<1.06	<0.897	<0.985	<1.04	<0.955	<1.04	<0.951	<1.11	<1.11	<1.04	<0.748	<1.02	<1.00	<0.942	<1.01	<1.06	<1.07	<1.08	<0.946	<0.927	<1.03
2-Nitrophenol	mg/kg	<1.11	<1.15	<1.07	<1.06	<0.897	<0.985	<1.04	<0.955	<1.04	<0.951	<1.11	<1.11	<1.04	<0.748	<1.02	<1.00	<0.942	<1.01	<1.06	<1.07	<1.08	<0.946	<0.927	<1.03
3,3´-Dichlorobenzidine	mg/kg	<2.22	<2.30	<2.14	<2.11	<1.80	<1.97	<2.09	<1.91	<2.08	<1.90	<2.23	<2.23	<2.09	<1.50	<2.04	<2.01	<1.89	<2.03	<2.12	<2.15	<2.17	<1.90	<1.86	<2.07
3+4-Methylphenol	mg/kg	<2.22	<2.30	<2.14	<2.11	<1.80	<1.97	<2.09	<1.91	<2.08	<1.90	<2.23	<2.23	<2.09	<1.50	<2.04	<2.01	<1.89	<2.03	<2.12	<2.15	<2.17	<1.90	<1.86	<2.07
4-Bromophenyl-phenylether	mg/kg	<1.11	<1.15	<1.07	<1.06	<0.897	<0.985	<1.04	<0.955	<1.04	<0.951	<1.11	<1.11	<1.04	<0.748	<1.02	<1.00	<0.942	<1.01	<1.06	<1.07	<1.08	<0.946	<0.927	<1.03
4-Chloroaniline	mg/kg	<2.22	<2.30	<2.14	<2.11	<1.80	<1.97	<2.09	<1.91	<2.08	<1.90	<2.23	<2.23	<2.09	<1.50	<2.04	<2.01	<1.89	<2.03	<2.12	<2.15	<2.17	<1.90	<1.86	<2.07
4-Nitrophenol	mg/kg	<5.56	<5.77	<5.35	<5.29	<4.50	<4.94	<5.23	<4.79	<5.22	<4.77	<5.59	<5.58	<5.22	<3.75	<5.11	<5.03	<4.73	<5.09	<5.32	<5.38	<5.43	<4.75	<4.65	<5.18
Acenaphthene	mg/kg	<1.11	<1.15	<1.07	<1.06	<0.897	<0.985	<1.04	<0.955	<1.04	<0.951	<1.11	<1.11	<1.04	<0.748	21.9	3.74	<0.942	<1.01	<1.06	<1.07	<1.08	<0.946	<0.927	1.36
Acenaphthylene	mg/kg	<1.11	<1.15	<1.07	<1.06	<0.897	<0.985	<1.04	1.73	<1.04	<0.951	<1.11	<1.11	<1.04	<0.748	2.1	<1.00	<0.942	<1.01	<1.06	<1.07	<1.08	<0.946	<0.927	1.94
Acetophenone	mg/kg	<2.22	<2.30	<2.14	<2.11	<1.80	<1.97	<2.09	<1.91	<2.08	<1.90	<2.23	<2.23	<2.09	<1.50	<2.04	<2.01	<1.89	<2.03	<2.12	<2.15	<2.17	<1.90	<1.86	<2.07
Aniline	mg/kg	<5.56	<5.77	<5.35	<5.29	<4.50	<4.94	<5.23	<4.79	<5.22	<4.77	<5.59	<5.58	<5.22	<3.75	<5.11	<5.03	<4.73	<5.09	<5.32	<5.38	<5.43	<4.75	<4.65	<5.18
Anthracene	mg/kg	<1.11	<1.15	<1.07	<1.06	<0.897	2.32	<1.04	2.6	<1.04	<0.951	<1.11	<1.11	<1.04	<0.748	53.2	7.7	<0.942	<1.01	<1.06	<1.07	<1.08	<0.946	<0.927	4.15
Azobenzene	mg/kg	<1.11	<1.15	<1.07	<1.06	<0.897	<0.985	<1.04	<0.955	<1.04	<0.951	<1.11	<1.11	<1.04	<0.748	<1.02	<1.00	<0.942	<1.01	<1.06	<1.07	<1.08	<0.946	<0.927	<1.03
Benzo(a)anthracene	mg/kg	<1.11	<1.15	<1.07	<1.06	<0.897	6.2	2.94	4.76	<1.04	<0.951	<1.11	<1.11	<1.04	<0.748	115	14.6	1.96	<1.01	<1.06	<1.07	<1.08	<0.946	<0.927	11.5
Benzo(a)pyrene	mg/kg	<0.556	<0.577	<0.535	<0.529	<0.450	5.17	2.35	4.46	<0.522	<0.477	<0.559	<0.558	<0.522	<0.375	93	11.5	1.64	<0.509	<0.532	<0.538	<0.543	<0.475	<0.465	9.32
Benzo(b)fluoranthene	mg/kg	<1.11	<1.15	<1.07	<1.06	<0.897	6.24	2.77	4.34	<1.04	<0.951	<1.11	<1.11	<1.04	<0.748	69.1	15.4	1.97	<1.01	<1.06	<1.07	<1.08	<0.946	<0.927	10.5
Benzo(g,h,i)perylene	mg/kg	<1.11	<1.15	<1.07	<1.06	<0.897	1.79	<1.04	2.02	<1.04	<0.951	<1.11	<1.11	<1.04	<0.748	25	4.38	<0.942	<1.01	<1.06	<1.07	<1.08	<0.946	<0.927	3.27
Benzo(k)fluoranthene	mg/kg	<1.11	<1.15	<1.07	<1.06	<0.897	3.03	<1.04	1.43	<1.04	<0.951	<1.11	<1.11	<1.04	<0.748	91.1	4.39	<0.942	<1.01	<1.06	<1.07	<1.08	<0.946	<0.927	9.66
bis(2-Chloroethoxy)methane	mg/kg	<1.11	<1.15	<1.07	<1.06	<0.897	<0.985	<1.04	<0.955	<1.04	<0.951	<1.11	<1.11	<1.04	<0.748	<1.02	<1.00	<0.942	<1.01	<1.06	<1.07	<1.08	<0.946	<0.927	<1.03
bis(2-Chloroethyl)ether	mg/kg	<0.556	<0.577	<0.535	<0.529	<0.450	<0.494	<0.523	<0.479	<0.522	<0.477	<0.559	<0.558	<0.522	<0.375	<0.511	<0.503	<0.473	<0.509	<0.532	<0.538	<0.543	<0.475	<0.465	<0.518
bis(2-chloroisopropyl)Ether	mg/kg	<0.556	<0.577	<0.535	<0.529	<0.450	<0.494	<0.523	<0.479	<0.522	<0.477	<0.559	<0.558	<0.522	<0.375	<0.511	<0.503	<0.473	<0.509	<0.532	<0.538	<0.543	<0.475	<0.465	<0.518
bis(2-Ethylhexyl)phthalate	mg/kg	<1.11	<1.15	<1.07	<1.06	<0.897	1.04	<1.04	<0.955	<1.04	<0.951	<1.11	<1.11	<1.04	<0.748	<1.02	<1.00	<0.942	<1.01	<1.06	<1.07	<1.08	<0.946	<0.927	<1.03
Butylbenzylphthalate	mg/kg	<1.11	<1.15	<1.07	<1.06	<0.897	<0.985	<1.04	<0.955	<1.04	<0.951	<1.11	<1.11	<1.04	<0.748	<1.02	<1.00	<0.942	<1.01	<1.06	<1.07	<1.08	<0.946	<0.927	<1.03
Chrysene	mg/kg	<0.556	<0.577	<0.535	<0.529	<0.450	5.89	2.8	4.06	<0.522	<0.477	<0.559	<0.558	<0.522	<0.375	93.6	13.1	1.79	<0.509	<0.532	<0.538	<0.543	<0.475	<0.465	9.44
Dibenzo(a,h)Anthracene	mg/kg	<0.556	<0.577	<0.535	<0.529	<0.450	1.06	0.597	0.868	<0.522	<0.477	<0.559	<0.558	<0.522	<0.375	16.4	0.529	<0.473	<0.509	<0.532	<0.538	<0.543	<0.475	<0.465	1.9
Dibenzofuran	mg/kg	<1.11	<1.15	<1.07	<1.06	<0.897	<0.985	<1.04	2.17	<1.04	<0.951	<1.11	<1.11	<1.04	<0.748	16.9	4.25	<0.942	<1.01	<1.06	<1.07	<1.08	<0.946	<0.927	1.25
Diethylphthalate	mg/kg	<1.11	<1.15	<1.07	<1.06	<0.897	<0.985	<1.04	<0.955	<1.04	<0.951	<1.11	<1.11	<1.04	<0.748	<1.02	<1.00	<0.942	<1.01	<1.06	<1.07	<1.08	<0.946	<0.927	<1.03
Dimethylphthalate	mg/kg	<1.11	<1.15	<1.07	<1.06	<0.897	<0.985	<1.04	<0.955	<1.04	<0.951	<1.11	<1.11	<1.04	<0.748	<1.02	<1.00	<0.942	<1.01	<1.06	<1.07	<1.08	<0.946	<0.927	<1.03
Di-n-butylphthalate	mg/kg	<1.11	<1.15	<1.07	<1.06	<0.897	<0.985	<1.04	<0.955	<1.04	<0.951	<1.11	<1.11	<1.04	<0.748	<1.02	<1.00	<0.942	<1.01	<1.06	<1.07	<1.08	<0.946	<0.927	<1.03
Di-n-octylphthalate	mg/kg	<1.11	<1.15	<1.07	<1.06	<0.897	<0.985	<1.04	<0.955	<1.04	<0.951	<1.11	<1.11	<1.04	<0.748	<1.02	<1.00	<0.942	<1.01	<1.06	<1.07	<1.08	<0.946	<0.927	<1.03
Fluoranthene	mg/kg	<1.11	<1.15	<1.07	<1.06	<0.897	12.6	6.41	16.2	<1.04	<0.951	<1.11	<1.11	<1.04	<0.748	254	42.9	4.01	<1.01	<1.06	<1.07	<1.08	<0.946	<0.927	28.4
Fluorene	mg/kg	<1.11	<1.15	<1.07	<1.06	<0.897	<0.985	<1.04	3.2	<1.04	<0.951	<1.11	<1.11	<1.04	<0.748	27	5.18	<0.942	<1.01	<1.06	<1.07	<1.08	<0.946	<0.927	2.97
Hexachlorobenzene	mg/kg	<0.556	<0.577	<0.535	<0.529	<0.450	<0.494	<0.523	<0.479	<0.522	<0.477	<0.559	<0.558	<0.522	<0.375	<0.511	<0.503	<0.473	<0.509	<0.532	<0.538	<0.543	<0.475	<0.465	<0.518
Hexachlorobutadiene	mg/kg	<1.11	<1.15	<1.07	<1.06	<0.897	<0.985	<1.04	<0.955	<1.04	<0.951	<1.11	<1.11	<1.04	<0.748	<1.02	<1.00	<0.942	<1.01	<1.06	<1.07	<1.08	<0.946	<0.927	<1.03
Hexachloroethane	mg/kg	<1.11	<1.15	<1.07	<1.06	<0.897	<0.985	<1.04	<0.955	<1.04	<0.951	<1.11	<1.11	<1.04	<0.748	<1.02	<1.00	<0.942	<1.01	<1.06	<1.07	<1.08	<0.946	<0.927	<1.03
Indeno(1,2,3-cd)Pyrene	mg/kg	<1.11	<1.15	<1.07	<1.06	<0.897	1.95	1.06	1.99	<1.04	<0.951	<1.11	<1.11	<1.04	<0.748	25.3	4.89	<0.942	<1.01	<1.06	<1.07	<1.08	<0.946	<0.927	3.45
Isophorone	mg/kg	<1.11	<1.15	<1.07	<1.06	<0.897	<0.985	<1.04	<0.955	<1.04	<0.951	<1.11	<1.11	<1.04	<0.748	<1.02	<1.00	<0.942	<1.01	<1.06	<1.07	<1.08	<0.946	<0.927	<1.03
Naphthalene	mg/kg	<1.11	<1.15	<1.07	<1.06	<0.897	<0.985	<1.04	1.14	<1.04	<0.951	<1.11	<1.11	<1.04	<0.748	22	5.56	<0.942	<1.01	<1.06	<1.07	<1.08	<0.946	<0.927	<1.03
Nitrobenzene	mg/kg	<1.11	<1.15	<1.07	<1.06	<0.897	<0.985	<1.04	<0.955	<1.04	<0.951	<1.11	<1.11	<1.04	<0.748	<1.02	<1.00	<0.942	<1.01	<1.06	<1.07	<1.08	<0.946	<0.927	<1.03
N-Nitrosodimethylamine	mg/kg	<1.11	<1.15	<1.07	<1.06	<0.897	<0.985	<1.04	<0.955	<1.04	<0.951	<1.11	<1.11	<1.04	<0.748	<1.02	<1.00	<0.942	<1.01	<1.06	<1.07	<1.08	<0.946	<0.927	<1.03
Pentachlorophenol	mg/kg	<5.56	<5.77	<5.35	<5.29	<4.50	<4.94	<5.23	<4.79	<5.22	<4.77	<5.59	<5.58	<5.22	<3.75	<5.11	<5.03	<4.73	<5.09	<5.32	<5.38	<5.43	<4.75	<4.65	<5.18
Phenanthrene	mg/kg	<1.11	<1.15	<1.07	<1.06	<0.897	7.42	3.71	9.19	<1.04	<0.951	<1.11	<1.11	<1.04	<0.748	186	39.6	3.55	<1.01	<1.06	<1.07	<1.08	<0.946	<0.927	15.9
Phenol	mg/kg	<1.11	<1.15	<1.07	<1.06	<0.897	<0.985	<1.04	<0.955	<1.04	<0.951	<1.11	<1.11	<1.04	<0.748	<1.02	<1.00	<0.942	<1.01	<1.06	<1.07	<1.08	<0.946	<0.927	<1.03
Pyrene	mg/kg	<1.11	<1.15	<1.07	<1.06	<0.897	8.68	4.67	10.9	<1.04	<0.951	<1.11	<1.11	<1.04	<0.748	144	20.7	2.97	<1.01	<1.06	<1.07	<1.08	<0.946	<0.927	15.3
Total SVOCs	mg/kg	ND	ND	ND	ND	ND	63.39	27.307	71.058	ND	ND	ND	ND	ND	ND	1263.15	200.359	17.89	ND	ND	ND	ND	ND	ND	131.63
Classic Chemistry																									
Corrosivity (pH)	S.U.	7.11	7.04	7.38	7.9	8.01	8.01	6.89	8.29	7.87	7.1	7	7.22	7.43	7.76	8.98	9.41	9.36	5	3.55	6.19	6.79	6.85	7.34	7.68
Conductivity	umhos/cm	6380	6490	5820	3190	1450	630	744	1750	3240	5260	10600	8970	4970	1710	274	640	301	1220	5490	3500	1630	1250	1290	264
Flashpoint	°F	--	--	--	--	--	>200	>200	>200	--	--	--	--	--	--	>200	>200	>200	>200	--	--	--	--	--	>200
Reactive Cyanide	mg/kg	--	--	--	--	--	<2.0	<2.0	<2.0	--	--	--	--	--	--	<2.0	<2.0	<2.0	<2.0	--	--	--	--	--	<2.0
Reactive Sulfide	mg/kg	--	--	--	--	--	<2.0	<2.0	<2.0	--	--	--	--	--	--	<2.0	<2.0	<2.0	<2.0	--	--	--	--	--	<2.0

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	C06 C06S02BS04A 1503047 Fill 3.3 - 6.6 3/3/2015	C06 C06S04BS05 1503047 Fill 6.6 - 10 3/3/2015	C06 C06S06S07 1503047 Fill 10 - 14 3/3/2015	C06 C06S08 1503047 Natural Clay 14 - 16 3/3/2015	C06 C06S09 1503047 Natural Clay 19 - 21 3/3/2015	C06 C06S10 1503047 Natural Clay 24 - 26 3/3/2015	C06 C06S11 1503047 Natural Clay 29 - 31 3/3/2015	C06 C06S12S13 1503047 Natural Sand/Gravel 34 - 38 3/3/2015	C07 C07S01S02A 1501512 Fill 0 - 3.3 1/26/2015	C07 C07S02BS04A 1501512 Fill 3.3 - 6.6 1/26/2015	C07 C07S04BS05 1501512 Fill 6.6 - 10 1/26/2015	C07 C07S07 1501512 Natural Clay 12 - 14 1/26/2015	C07 C07S08 1501512 Natural Clay 19 - 21 1/26/2015	C07 C07S09 1501512 Natural Clay 24 - 26 1/26/2015	C07 C07S10 1501546 Natural Clay 29 - 31 1/29/2015	C07 C07S11S12 1501546 Natural Clay 34 - 38 1/29/2015	C08 C08S01S02A 1501166 Fill 0 - 3.33 1/9/2015	C08 C08S02BS04A 1501166 Fill 3.33 - 6.66 1/9/2015	C08 C08S04B 1501166 Natural Sand/Gravel 6.66 - 8 1/9/2015	C08 C08S05S06 1501166 Natural Clay 10 - 14 1/9/2015	C08 C08S07 1501166 Natural Clay 14 - 16 1/9/2015	C08 C08S08 1501166 Natural Clay 19 - 21 1/9/2015	C08 C08S09 1501166 Natural Clay 24 - 26 1/9/2015	C08 C08S10 1501166 Natural Sand/Gravel 29 - 31 1/9/2015
Preliminary Disposal Facility Category		Hazardous Material Type B	Hazardous Material Type B	Hazardous Material Type B	MCP Regulated Type A	MCP Regulated Type A	MCP Restricted	MCP Restricted	MCP Restricted	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Uncontaminated	Uncontaminated	Uncontaminated	MCP Regulated Type A	MCP Regulated Type B-1	Hazardous Material Type A	MCP Regulated Material Type B-2	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Uncontaminated
RCRA 8 Metals	**Units**																								
Arsenic	mg/kg	20.2	71.1	63.6	15.9	12.4	10.5	<8.49	<6.34	<6.83	<7.96	<7.83	21.8	<7.90	<7.94	<6.50	<7.97	30.7	53.8	<12.3	17.1	18	19	<14.6	<13.9
Barium	mg/kg	25.6	72.4	30.8	95.5	120	59.3	60.2	77.9	41.1	44.9	31.7	125	48.7	15.3	30.1	23.9	66.5	66.6	<12.3	139	119	120	43.2	27.7
Cadmium	mg/kg	1.81	10.8	3.37	<1.65	<1.64	<1.61	<1.70	<1.27	<1.37	3.4	1.65	<1.67	<1.58	<1.59	<1.30	<1.59	<2.72	<2.51	<2.46	<2.75	<2.49	<2.57	<2.91	<2.79
Chromium	mg/kg	<3.08	9.86	3.76	60.2	65.6	35.3	36.4	10.9	9.61	8.52	10.5	54.6	28	11.2	17	15.9	23.5	26.2	<4.92	60.3	61.7	66.6	28.9	23.6
Lead	mg/kg	2430	5390	21400	27.6	20.9	<16.1	22.7	<12.7	316	219	234	<16.7	<15.8	<15.9	<13.0	<15.9	1270	1360	334	<27.5	<24.9	<25.7	<29.1	<27.9
Selenium	mg/kg	<7.71	18.3	7.86	<8.27	<8.18	<8.03	<8.49	<6.34	<6.83	<12.7	<15.7	<8.37	<7.90	<15.9	<6.50	<7.97	<10.9	<10.0	<19.7	<11.0	<9.98	<10.3	<18.6	<11.2
Silver	mg/kg	<1.54	5.03	3.6	<1.65	<1.64	<1.61	<1.70	<1.27	<1.37	<1.59	<1.57	<1.67	<1.58	<1.59	<1.30	<1.59	<2.72	<2.51	<2.46	<2.75	<2.49	<2.57	<2.91	<2.79
Mercury	mg/kg	18	3.83	2.82	<0.039	<0.043	<0.037	<0.039	<0.025	0.312	0.095	0.089	<0.039	<0.041	<0.038	<0.037	<0.039	0.392	0.194	0.226	<0.043	<0.041	<0.039	<0.039	<0.037
Metals by Toxicity Characteristic Leaching Procedure (TCLP)																									
Arsenic	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead	mg/L	144	85.9	37.5	--	--	--	--	--	2.84	0.619	<0.050	--	--	--	--	--	0.976	2.36	36.7	--	--	--	--	--
Selenium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	mg/L	<0.00050	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Herbicides																									
2,4,5-T	mg/kg	<0.11	<0.099	<0.095	--	--	--	--	--	<0.62	<0.066	<0.30	<0.064	--	--	--	--	<0.057	<0.056	<0.059	--	--	<0.060	--	--
2,4-D	mg/kg	<0.54	<0.50	<0.48	--	--	--	--	--	<0.62	<0.066	<0.30	<0.064	--	--	--	--	<0.057	<0.056	<0.059	--	--	<0.060	--	--
2,4-DB	mg/kg	<0.041	<0.037	<0.036	--	--	--	--	--	<0.62	<0.066	<0.30	<0.064	--	--	--	--	<0.057	<0.056	<0.059	--	--	<0.060	--	--
Dalapon	mg/kg	<3.3	<3.0	<2.9	--	--	--	--	--	<7.5	<0.79	<3.6	<0.77	--	--	--	--	<0.69	<0.68	<0.71	--	--	<0.73	--	--
Dicamba	mg/kg	<0.16	<0.15	<0.14	--	--	--	--	--	<0.62	<0.066	<0.30	<0.064	--	--	--	--	<0.057	<0.056	<0.059	--	--	<0.060	--	--
Dichlorprop	mg/kg	<0.35	<0.32	<0.31	--	--	--	--	--	<0.62	<0.066	<0.30	<0.064	--	--	--	--	<0.057	<0.056	<0.059	--	--	<0.060	--	--
Dinoseb	mg/kg	<0.54	<0.50	<0.48	--	--	--	--	--	<3.7	<0.39	<1.8	<0.39	--	--	--	--	<0.35	<0.34	<0.36	--	--	<0.36	--	--
MCPA	mg/kg	<140	<120	<120	--	--	--	--	--	<150	<16	<73	<15	--	--	--	--	<14	<14	<14	--	--	<15	--	--
MCPP	mg/kg	<140	<120	<120	--	--	--	--	--	<150	<16	<73	<15	--	--	--	--	<14	<14	<14	--	--	<15	--	--
Silvex (2,4,5-TP)	mg/kg	<0.11	<0.099	<0.095	--	--	--	--	--	<0.62	<0.066	<0.30	<0.064	--	--	--	--	<0.057	<0.056	<0.059	--	--	<0.060	--	--
Pesticides																									
4,4'-DDD	mg/kg	<0.0046	<0.0042	<0.0040	--	--	--	--	--	<0.043	<0.044	<0.0041	<0.0022	--	--	--	--	<0.022	<0.0020	<0.0040	--	--	<0.0021	--	--
4,4'-DDE	mg/kg	<0.0046	<0.0042	<0.0040	--	--	--	--	--	<0.043	<0.044	<0.0041	<0.0022	--	--	--	--	<0.022	<0.0020	<0.0040	--	--	<0.0021	--	--
4,4'-DDT	mg/kg	<0.0046	<0.0042	<0.0040	--	--	--	--	--	<0.043	<0.044	<0.0041	<0.0022	--	--	--	--	<0.022	<0.0020	<0.0040	--	--	<0.0021	--	--
Aldrin	mg/kg	<0.0046	<0.0042	<0.0040	--	--	--	--	--	<0.043	<0.044	<0.0041	<0.0022	--	--	--	--	<0.022	<0.0020	<0.0040	--	--	<0.0021	--	--
alpha-BHC	mg/kg	<0.0046	<0.0042	<0.0040	--	--	--	--	--	<0.043	<0.044	<0.0041	<0.0022	--	--	--	--	<0.022	<0.0020	<0.0040	--	--	<0.0021	--	--
beta-BHC	mg/kg	<0.0046	<0.0042	<0.0040	--	--	--	--	--	<0.043	<0.044	<0.0041	<0.0022	--	--	--	--	<0.022	<0.0020	<0.0040	--	--	<0.0021	--	--
Chlordane (technical)	mg/kg	<0.046	<0.042	<0.040	--	--	--	--	--	<0.43	<0.44	<0.041	<0.022	--	--	--	--	<0.22	<0.020	<0.040	--	--	<0.021	--	--
delta-BHC	mg/kg	<0.0046	<0.0042	<0.0040	--	--	--	--	--	<0.043	<0.044	<0.0041	<0.0022	--	--	--	--	<0.022	<0.0020	<0.0040	--	--	<0.0021	--	--
Dieldrin	mg/kg	<0.0046	<0.0042	<0.0040	--	--	--	--	--	<0.043	<0.044	<0.0041	<0.0022	--	--	--	--	<0.022	<0.0020	<0.0040	--	--	<0.0021	--	--
Endosulfan I	mg/kg	<0.0046	<0.0042	<0.0040	--	--	--	--	--	<0.043	<0.044	<0.0041	<0.0022	--	--	--	--	<0.022	<0.0020	<0.0040	--	--	<0.0021	--	--
Endosulfan II	mg/kg	<0.0046	<0.0042	<0.0040	--	--	--	--	--	<0.043	<0.044	<0.0041	<0.0022	--	--	--	--	<0.022	<0.0020	<0.0040	--	--	<0.0021	--	--
Endosulfan sulfate	mg/kg	<0.0046	<0.0042	<0.0040	--	--	--	--	--	<0.043	<0.044	<0.0041	<0.0022	--	--	--	--	<0.022	<0.0020	<0.0040	--	--	<0.0021	--	--
Endrin	mg/kg	<0.0046	<0.0042	<0.0040	--	--	--	--	--	<0.043	<0.044	<0.0041	<0.0022	--	--	--	--	<0.022	<0.0020	<0.0040	--	--	<0.0021	--	--
Endrin ketone	mg/kg	<0.0046	<0.0042	<0.0040	--	--	--	--	--	<0.043	<0.044	<0.0041	<0.0022	--	--	--	--	<0.022	<0.0020	<0.0040	--	--	<0.0021	--	--
gamma-BHC (Lindane)	mg/kg	<0.0046	<0.0042	<0.0040	--	--	--	--	--	<0.043	<0.044	<0.0041	<0.0022	--	--	--	--	<0.022	<0.0020	<0.0040	--	--	<0.0021	--	--
Heptachlor	mg/kg	<0.0046	<0.0042	<0.0040	--	--	--	--	--	<0.043	<0.044	<0.0041	<0.0022	--	--	--	--	<0.022	<0.0020	<0.0040	--	--	<0.0021	--	--
Heptachlor epoxide	mg/kg	<0.0046	<0.0042	<0.0040	--	--	--	--	--	<0.043	<0.044	<0.0041	<0.0022	--	--	--	--	<0.022	<0.0020	<0.0040	--	--	<0.0021	--	--
Hexachlorobenzene	mg/kg	<0.0046	<0.0042	<0.0040	--	--	--	--	--	<0.043	<0.044	<0.0041	<0.0022	--	--	--	--	<0.022	<0.0020	<0.0040	--	--	<0.0021	--	--
Methoxychlor	mg/kg	<0.0046	<0.0042	<0.0040	--	--	--	--	--	<0.043	<0.044	<0.0041	<0.0022	--	--	--	--	<0.022	<0.0020	<0.0040	--	--	<0.0021	--	--
Polychlorinated Biphenyls																									
Aroclor 1016	mg/kg	<0.158	<0.153	<0.146	<0.156	<0.169	<0.158	<0.166	<0.130	<0.136	<0.153	<0.152	<0.150	<0.155	<0.151	<0.141	<0.142	<0.138	<0.155	<0.155	<0.160	<0.158	<0.165	<0.153	<0.146
Aroclor 1221	mg/kg	<0.158	<0.153	<0.146	<0.156	<0.169	<0.158	<0.166	<0.130	<0.136	<0.153	<0.152	<0.150	<0.155	<0.151	<0.141	<0.142	<0.138	<0.155	<0.155	<0.160	<0.158	<0.165	<0.153	<0.146
Aroclor 1232	mg/kg	<0.158	<0.153	<0.146	<0.156	<0.169	<0.158	<0.166	<0.130	<0.136	<0.153	<0.152	<0.150	<0.155	<0.151	<0.141	<0.142	<0.138	<0.155	<0.155	<0.160	<0.158	<0.165	<0.153	<0.146
Aroclor 1242	mg/kg	<0.158	<0.153	<0.146	<0.156	<0.169	<0.158	<0.166	<0.130	<0.136	<0.153	<0.152	<0.150	<0.155	<0.151	<0.141	<0.142	<0.138	<0.155	<0.155	<0.160	<0.158	<0.165	<0.153	<0.146
Aroclor 1248	mg/kg	<0.158	<0.153	<0.146	<0.156	<0.169	<0.158	<0.166	<0.130	<0.136	<0.153	<0.152	<0.150	<0.155	<0.151	<0.141	<0.142	<0.138	<0.155	<0.155	<0.160	<0.158	<0.165	<0.153	<0.146
Aroclor 1254	mg/kg	<0.158	<0.153	<0.146	<0.156	<0.169	<0.158	<0.166	<0.130	0.149	<0.153	<0.152	<0.150	<0.155	<0.151	<0.141	<0.142	<0.138	<0.155	<0.155	<0.160	<0.158	<0.165	<0.153	<0.146
Aroclor 1260	mg/kg	<0.158	<0.153	<0.146	<0.156	<0.169	<0.158	<0.166	<0.130	<0.136	<0.153	<0.152	<0.150	<0.155	<0.151	<0.141	<0.142	<0.138	<0.155	<0.155	<0.160	<0.158	<0.165	<0.153	<0.146
Aroclor 1262	mg/kg	<0.158	<0.153	<0.146	<0.156	<0.169	<0.158	<0.166	<0.130	<0.136	<0.153	<0.152	<0.150	<0.155	<0.151	<0.141	<0.142	<0.138	<0.155	<0.155	<0.160	<0.158	<0.165	<0.153	<0.146
Aroclor 1268	mg/kg	<0.158	<0.153	<0.146	<0.156	<0.169	<0.158	<0.166	<0.130	<0.136	<0.153	<0.152	<0.150	<0.155	<0.151	<0.141	<0.142	<0.138	<0.155	<0.155	<0.160	<0.158	<0.165	<0.153	<0.146
Total PCBs	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	0.149	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Petroleum Hydrocarbons	mg/kg	1490	303	105	<52.5	<50.7	<47.7	<50.8	<43.7	3050	802	324	<48.9	<44.7	<42.1	<42.5	<47.8	79.6	114	182	<50.1	<51.8	<50.2	<48.4	<46.8
Volatile Organic Compounds (VOCs)																									
1,1,1,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-Chloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane - Screen	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Butanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Isopropyltoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-Pentanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Disulfide	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	C06 C06S02BS04A 1503047 Fill 3.3 - 6.6 3/3/2015	C06 C06S04BS05 1503047 Fill 6.6 - 10 3/3/2015	C06 C06S06S07 1503047 Fill 10 - 14 3/3/2015	C06 C06S08 1503047 Natural Clay 14 - 16 3/3/2015	C06 C06S09 1503047 Natural Clay 19 - 21 3/3/2015	C06 C06S10 1503047 Natural Clay 24 - 26 3/3/2015	C06 C06S11 1503047 Natural Clay 29 - 31 3/3/2015	C06 C06S12S13 1503047 Natural Sand/Gravel 34 - 38 3/3/2015	C07 C07S01S02A 1501512 Fill 0 - 3.3 1/26/2015	C07 C07S02BS04A 1501512 Fill 3.3 - 6.6 1/26/2015	C07 C07S04BS05 1501512 Fill 6.6 - 10 1/26/2015	C07 C07S07 1501512 Natural Clay 12 - 14 1/26/2015	C07 C07S08 1501512 Natural Clay 19 - 21 1/26/2015	C07 C07S09 1501512 Natural Clay 24 - 26 1/26/2015	C07 C07S10 1501546 Natural Clay 29 - 31 1/29/2015	C07 C07S11S12 1501546 Natural Clay 34 - 38 1/29/2015	C08 C08S01S02A 1501166 Fill 0 - 3.33 1/9/2015	C08 C08S02BS04A 1501166 Fill 3.33 - 6.66 1/9/2015	C08 C08S04B 1501166 Natural Sand/Gravel 6.66 - 8 1/9/2015	C08 C08S05S06 1501166 Natural Clay 10 - 14 1/9/2015	C08 C08S07 1501166 Natural Clay 14 - 16 1/9/2015	C08 C08S08 1501166 Natural Clay 19 - 21 1/9/2015	C08 C08S09 1501166 Natural Clay 24 - 26 1/9/2015	C08 C08S10 1501166 Natural Sand/Gravel 29 - 31 1/9/2015
Preliminary Disposal Facility Category		Hazardous Material Type B	Hazardous Material Type B	Hazardous Material Type B	MCP Regulated Type A	MCP Regulated Type A	MCP Restricted	MCP Restricted	MCP Restricted	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Uncontaminated	Uncontaminated	Uncontaminated	MCP Regulated Type A	MCP Regulated Type B-1	Hazardous Material Type A	MCP Regulated Material Type B-2	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Uncontaminated
Chlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Diethyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Di-isopropyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethyl tertiary-butyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
tert-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tertiary-amyl methyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene O	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene P,M	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylenes (Total)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total VOCs	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds - Low Level Analysis																									
1,1,1,2-Tetrachloroethane	mg/kg	<0.0044	<0.0044	<0.0039	<0.0033	<0.0034	<0.0034	<0.0040	<0.0025	<0.0059	<0.0041	<0.0036	<0.0047	<0.0040	<0.0035	<0.0035	<0.0034	<0.0060	<0.0042	<0.0033	<0.0052	<0.0054	<0.0066	<0.0045	<0.0043
1,1,1-Trichloroethane	mg/kg	<0.0044	<0.0044	<0.0039	<0.0033	<0.0034	<0.0034	<0.0040	<0.0025	<0.0059	<0.0041	<0.0036	<0.0047	<0.0040	<0.0035	<0.0035	<0.0034	<0.0060	<0.0042	<0.0033	<0.0052	<0.0054	<0.0066	<0.0045	<0.0043
1,1,2,2-Tetrachloroethane	mg/kg	<0.0018	<0.0018	<0.0016	<0.0013	<0.0014	<0.0014	<0.0016	<0.0010	<0.0024	<0.0017	<0.0015	<0.0019	<0.0016	<0.0014	<0.0014	<0.0013	<0.0024	<0.0017	<0.0013	<0.0021	<0.0022	<0.0026	<0.0018	<0.0017
1,1,2-Trichloroethane	mg/kg	<0.0044	<0.0044	<0.0039	<0.0033	<0.0034	<0.0034	<0.0040	<0.0025	<0.0059	<0.0041	<0.0036	<0.0047	<0.0040	<0.0035	<0.0035	<0.0034	<0.0060	<0.0042	<0.0033	<0.0052	<0.0054	<0.0066	<0.0045	<0.0043
1,1-Dichloroethane	mg/kg	<0.0044	<0.0044	<0.0039	<0.0033	<0.0034	<0.0034	<0.0040	<0.0025	<0.0059	<0.0041	<0.0036	<0.0047	<0.0040	<0.0035	<0.0035	<0.0034	<0.0060	<0.0042	<0.0033	<0.0052	<0.0054	<0.0066	<0.0045	<0.0043
1,1-Dichloroethene	mg/kg	<0.0044	<0.0044	<0.0039	<0.0033	<0.0034	<0.0034	<0.0040	<0.0025	<0.0059	<0.0041	<0.0036	<0.0047	<0.0040	<0.0035	<0.0035	<0.0034	<0.0060	<0.0042	<0.0033	<0.0052	<0.0054	<0.0066	<0.0045	<0.0043
1,1-Dichloropropene	mg/kg	<0.0044	<0.0044	<0.0039	<0.0033	<0.0034	<0.0034	<0.0040	<0.0025	<0.0059	<0.0041	<0.0036	<0.0047	<0.0040	<0.0035	<0.0035	<0.0034	<0.0060	<0.0042	<0.0033	<0.0052	<0.0054	<0.0066	<0.0045	<0.0043
1,2,3-Trichlorobenzene	mg/kg	<0.0044	<0.0044	<0.0039	<0.0033	<0.0034	<0.0034	<0.0040	<0.0025	<0.0059	<0.0041	<0.0036	<0.0047	<0.0040	<0.0035	<0.0035	<0.0034	<0.0060	<0.0042	<0.0033	<0.0052	<0.0054	<0.0066	<0.0045	<0.0043
1,2,3-Trichloropropane	mg/kg	<0.0044	<0.0044	<0.0039	<0.0033	<0.0034	<0.0034	<0.0040	<0.0025	<0.0059	<0.0041	<0.0036	<0.0047	<0.0040	<0.0035	<0.0035	<0.0034	<0.0060	<0.0042	<0.0033	<0.0052	<0.0054	<0.0066	<0.0045	<0.0043
1,2,4-Trichlorobenzene	mg/kg	<0.0044	<0.0044	<0.0039	<0.0033	<0.0034	<0.0034	<0.0040	<0.0025	<0.0059	<0.0041	<0.0036	<0.0047	<0.0040	<0.0035	<0.0035	<0.0034	<0.0060	<0.0042	<0.0033	<0.0052	<0.0054	<0.0066	<0.0045	<0.0043
1,2,4-Trimethylbenzene	mg/kg	<0.0044	<0.0044	<0.0039	<0.0033	<0.0034	<0.0034	<0.0040	<0.0025	<0.0059	<0.0041	<0.0036	<0.0047	<0.0040	<0.0035	<0.0035	<0.0034	<0.0060	<0.0042	<0.0033	<0.0052	<0.0054	<0.0066	<0.0045	<0.0043
1,2-Dibromo-3-Chloropropane	mg/kg	<0.0044	<0.0044	<0.0039	<0.0033	<0.0034	<0.0034	<0.0040	<0.0025	<0.0059	<0.0041	<0.0036	<0.0047	<0.0040	<0.0035	<0.0035	<0.0034	<0.0060	<0.0042	<0.0033	<0.0052	<0.0054	<0.0066	<0.0045	<0.0043
1,2-Dibromoethane	mg/kg	<0.0044	<0.0044	<0.0039	<0.0033	<0.0034	<0.0034	<0.0040	<0.0025	<0.0059	<0.0041	<0.0036	<0.0047	<0.0040	<0.0035	<0.0035	<0.0034	<0.0060	<0.0042	<0.0033	<0.0052	<0.0054	<0.0066	<0.0045	<0.0043
1,2-Dichlorobenzene	mg/kg	<0.0044	<0.0044	<0.0039	<0.0033	<0.0034	<0.0034	<0.0040	<0.0025	<0.0059	<0.0041	<0.0036	<0.0047	<0.0040	<0.0035	<0.0035	<0.0034	<0.0060	<0.0042	<0.0033	<0.0052	<0.0054	<0.0066	<0.0045	<0.0043
1,2-Dichloroethane	mg/kg	<0.0044	<0.0044	<0.0039	<0.0033	<0.0034	<0.0034	<0.0040	<0.0025	<0.0059	<0.0041	<0.0036	<0.0047	<0.0040	<0.0035	<0.0035	<0.0034	<0.0060	<0.0042	<0.0033	<0.0052	<0.0054	<0.0066	<0.0045	<0.0043
1,2-Dichloropropane	mg/kg	<0.0044	<0.0044	<0.0039	<0.0033	<0.0034	<0.0034	<0.0040	<0.0025	<0.0059	<0.0041	<0.0036	<0.0047	<0.0040	<0.0035	<0.0035	<0.0034	<0.0060	<0.0042	<0.0033	<0.0052	<0.0054	<0.0066	<0.0045	<0.0043
1,3,5-Trimethylbenzene	mg/kg	<0.0044	<0.0044	<0.0039	<0.0033	<0.0034	<0.0034	<0.0040	<0.0025	<0.0059	<0.0041	<0.0036	<0.0047	<0.0040	<0.0035	<0.0035	<0.0034	<0.0060	<0.0042	<0.0033	<0.0052	<0.0054	<0.0066	<0.0045	<0.0043
1,3-Dichlorobenzene	mg/kg	<0.0044	<0.0044	<0.0039	<0.0033	<0.0034	<0.0034	<0.0040	<0.0025	<0.0059	<0.0041	<0.0036	<0.0047	<0.0040	<0.0035	<0.0035	<0.0034	<0.0060	<0.0042	<0.0033	<0.0052	<0.0054	<0.0066	<0.0045	<0.0043
1,3-Dichloropropane	mg/kg	<0.0044	<0.0044	<0.0039	<0.0033	<0.0034	<0.0034	<0.0040	<0.0025	<0.0059	<0.0041	<0.0036	<0.0047	<0.0040	<0.0035	<0.0035	<0.0034	<0.0060	<0.0042	<0.0033	<0.0052	<0.0054	<0.0066	<0.0045	<0.0043
1,4-Dichlorobenzene	mg/kg	<0.0044	<0.0044	<0.0039	<0.0033	<0.0034	<0.0034	<0.0040	<0.0025	<0.0059	<0.0041	<0.0036	<0.0047	<0.0040	<0.0035	<0.0035	<0.0034	<0.0060	<0.0042	<0.0033	<0.0052	<0.0054	<0.0066	<0.0045	<0.0043
1,4-Dioxane	mg/kg	<0.0877	<0.0878	<0.0779	<0.0655	<0.0677	<0.0677	<0.0800	<0.0503	<0.118	<0.0828	<0.0725	<0.0943	<0.0802	<0.0698	<0.0705	<0.0672	<0.121	<0.0848	<0.0670	<0.104	<0.108	<0.132	<0.0890	<0.0869
2,2-Dichloropropane	mg/kg	<0.0044	<0.0044	<0.0039	<0.0033	<0.0034	<0.0034	<0.0040	<0.0025	<0.0059	<0.0041	<0.0036	<0.0047	<0.0040	<0.0035	<0.0035	<0.0034	<0.0060	<0.0042	<0.0033	<0.0052	<0.0054	<0.0066	<0.0045	<0.0043
2-Butanone	mg/kg	<0.0088	<0.0088	<0.0078	<0.0066	<0.0068	<0.0068	<0.0080	<0.0050	<0.0118	<0.0083	<0.0073	<0.0094	<0.0080	<0.0070	<0.0070	<0.0067	<0.0121	<0.0085	<0.0067	<0.0104	<0.0108	<0.0132	<0.0089	<0.0087
2-Chlorotoluene	mg/kg	<0.0044	<0.0044	<0.0039	<0.0033	<0.0034	<0.0034	<0.0040	<0.0025	<0.0059	<0.0041	<0.0036	<0.0047	<0.0040	<0.0035	<0.0035	<0.0034	<0.0060	<0.0042	<0.0033	<0.0052	<0.0054	<0.0066	<0.0045	<0.0043
2-Hexanone	mg/kg	<0.0088	<0.0088	<0.0078	<0.0066	<0.0068	<0.0068	<0.0080	<0.0050	<0.0118	<0.0083	<0.0073	<0.0094	<0.0080	<0.0070	<0.0070	<0.0067	<0.0121	<0.0085	<0.0067	<0.0104	<0.0108	<0.0132	<0.0089	<0.0087
4-Chlorotoluene	mg/kg	<0.0044	<0.0044	<0.0039	<0.0033	<0.0034	<0.0034	<0.0040	<0.0025	<0.0059	<0.0041	<0.0036	<0.0047	<0.0040	<0.0035	<0.0035	<0.0034	<0.0060	<0.0042	<0.0033	<0.0052	<0.0054	<0.0066	<0.0045	<0.0043
4-Isopropyltoluene	mg/kg	<0.0044	<0.0044	<0.0039	0.0039	0.0081	<0.0034	<0.0040	<0.0025	<0.0059	<0.0041	<0.0036	<0.0047	<0.0040	<0.0035	<0.0035	<0.0034	<0.0060	<0.0042	<0.0033	0.019	<0.0054	0.007	<0.0045	<0.0043
4-Methyl-2-Pentanone	mg/kg	<0.0088	<0.0088	<0.0078	<0.0066	<0.0068	<0.0068	<0.0080	<0.0050	<0.0118	<0.0083	<0.0073	<0.0094	<0.0080	<0.0070	<0.0070	<0.0067	<0.0121	<0.0085	<0.0067	<0.0104	<0.0108	<0.0132	<0.0089	<0.0087
Acetone	mg/kg	<0.0088	<0.0088	<0.0078	<0.0066	<0.0068	<0.0068	<0.0080	<0.0050	0.024	0.0349	0.026	0.019	<0.0080	<0.0070	<0.0070	0.0083	0.0486	<0.0085	0.0181	0.0416	0.0166	0.148	0.0127	<0.0087
Benzene	mg/kg	<0.0044	<0.0044	<0.0039	<0.0033	<0.0034	<0.0034	<0.0040	<0.0025	0.0093	<0.0041	<0.0036	<0.0047	<0.0040	<0.0035	<0.0035	<0.0034	<0.0060	<0.0042	<0.0033	<0.0052	<0.0054	<0.0066	<0.0045	<0.0043
Bromobenzene	mg/kg	<0.0044	<0.0044	<0.0039	<0.0033	<0.0034	<0.0034	<0.0040	<0.0025	<0.0059	<0.0041	<0.0036	<0.0047	<0.0040	<0.0035	<0.0035	<0.0034	<0.0060	<0.0042	<0.0033	<0.0052	<0.0054	<0.0066	<0.0045	<0.0043
Bromochloromethane	mg/kg	<0.0044	<0.0044	<0.0039	<0.0033	<0.0034	<0.0034	<0.0040	<0.0025	<0.0059	<0.0041	<0.0036	<0.0047	<0.0040	<0.0035	<0.0035	<0.0034	<0.0060	<0.0042	<0.0033	<0.0052	<0.0054	<0.0066	<0.0045	<0.0043
Bromodichloromethane	mg/kg	<0.0044	<0.0044	<0.0039	<0.0033	<0.0034	<0.0034	<0.0040	<0.0025	<0.0059	<0.0041	<0.0036	<0.0047	<0.0040	<0.0035	<0.0035	<0.0034	<0.0060	<0.0042	<0.0033	<0.0052	<0.0054	<0.0066	<0.0045	<0.0043
Bromoform	mg/kg	<0.0044	<0.0044	<0.0039	<0.0033	<0.0034	<0.0034	<0.0040	<0.0025	<0.0059	<0.0041	<0.0036	<0.0047	<0.0040	<0.0035	<0.0035	<0.0034	<0.0060	<0.0042	<0.0033	<0.0052	<0.0054	<0.0066	<0.0045	<0.0043
Bromomethane	mg/kg	<0.0088	<0.0088	<0.0078	<0.0066	<0.0068	<0.0068	<0.0080	<0.0050	<0.0118	<0.0083	<0.0073	<0.0094	<0.0080	<0.0070	<0.0070	<0.0067	<0.0121	<0.0085	<0.0067	<0.0104	<0.0108	<0.0132	<0.0089	<0.0087
Carbon Disulfide	mg/kg	<0.0044	<0.0044	<0.0039	<0.0033	<0.0034	<0.0034	<0.0040	<0.0025	<0.0059	<0.0041	<0.0036	<0.0047	<0.0040	<0.0035	<0.0035	<0.0034	<0.0060	<0.0042	<0.0033	<0.0052	<0.0054	<0.0066	<0.0045	<0.0043
Carbon Tetrachloride	mg/kg	<0.0044	<0.0044	<0.0039	<0.0033	<0.0034	<0.0034	<0.0040	<0.0025	<0.0059	<0.0041	<0.0036	<0.0047	<0.0040	<0.0035	<0.0035	<0.0034	<0.0060	<0.0042	<0.0033	<0.0052	<0.0054	<0.0066	<0.0045	<0.0043
Chlorobenzene	mg/kg	<0.0044	<0.0044	<0.0039	<0.0033	<0.0034	<0.0034	<0.0040	<0.0025	<0.0059	<0.0041	<0.0036	<0.0047	<0.0040	<0.0035	<0.0035	<0.0034	<0.0060	<0.0042	<0.0033	<0.0052	<0.0054	<0.0066	<0.0045	<0.0043
Chloroethane	mg/kg	<0.0088	<0.0088	<0.0078	<0.0066	<0.0068	<0.0068	<0.0080	<0.0050	<0.0118	<0.0083	<0.0073	<0.0094	<0.0080	<0.0070	<0.0070	<0.0067	<0.0121	<0.0085	<0.0067	<0.0104	<0.0108	<0.0132	<0.0089	<0.0087
Chloroform	mg/kg	<0.0044	<0.0044	<0.0039	<0.0033	<0.0034	<0.0034	<0.0040	<0.0025	<0.0059	<0.0041	<0.0036	<0.0047	<0.0040	<0.0035	<0.0035	<0.0034	<0.0060	<0.0042	<0.0033	<0.0052	<0.0054	<0.0066	<0.0045	<0.0043
Chloromethane	mg/kg	<0.0088	<0.0088	<0.0078	<0.0066	<0.0068	<0.0068	<0.0080	<0.0050	<0.0118	<0.0083	<0.0073	<0.0094	<0.0080	<0.0070	<0.0070	<0.0067	<0.0121	<0.0085	<0.0067	<0.0104	<0.0108	<0.0132	<0.0089	<0.0087
cis-1,2-Dichloroethene	mg/kg	<0.0044	<0.0044	<0.0039	<0.0033	<0.0034	<0.0034	<0.0040	<0.0025	<0.0059	<0.0041	<0.0036	<0.0047	<0.0040	<0.0035	<0.0035	<0.0034	<0.0060	<0.0042	<0.0033	<0.0052	<0.0054	<0.0066	<0.0045	<0.0043
cis-1,3-Dichloropropene	mg/kg	<0.0044	<0.0044	<0.0039	<0.0033	<0.0034	<0.0034	<0.0040	<0.0025	<0.0059	<0.0041	<0.0036	<0.0047	<0.0040	<0.0035	<0.0035	<0.0034	<0.0060	<0.0042	<0.0033	<0.0052	<0.0054	<0.0066	<0.0045	<0.0043
Dibromochloromethane	mg/kg	<0.0018	<0.0018	<0.0016	<0.0013	<0.0014	<0.0014	<0.0016	<0.0010	<0.0024	<0.0017	<0.0015	<0.0019	<0.0016	<0.0014	<0.0014	<0.0013	<0.0024	<0.0017	<0.0013	<0.0021	<0.0022	<0.0026	<0.0018	<0.0017
Dibromomethane	mg/kg	<0.0044	<0.0044	<0.0039	<0.0033	<0.0034	<0.0034	<0.0040	<0.0025	<0.0059	<0.0041	<0.0036	<0.0047	<0.0040	<0.0035	<0.0035	<0.0034	<0.0060	<0.0042	<0.0033	<0.0052	<0.0054	<0.0066	<0.0045	<0.0043
Dichlorodifluoromethane	mg/kg	<0.0088	<0.0088	<0.0078	<0.0066	<0.0068	<0.0068	<0.0080	<0.0050	<0.0118	<0.0083	<0.0073	<0.0094	<0.0080	<0.0070	<0.0070	<0.0067	<0.0121	<0.0085	<0.0067	<0.0104	<0.0108	<0.0132	<0.0089	<0.0087
Diethyl Ether	mg/kg	<0.0044	<0.0044	<0.0039	<0.0033	<0.0034	<0.0034	<0.0040	<0.0025	<0.0059	<0.0041	<0.0036	<0.0047	<0.0040	<0.0035	<0.0035	<0.0034	<0.0060	<0.0042	<0.0033	<0.0052	<0.0054	<0.0066	<0.0045	<0.0043
Di-isopropyl ether	mg/kg	<0.0044	<0.0044	<0.0039	<0.0033	<0.0034	<0.0034	<0.0040	<0.0025	<0.0059	<0.0041	<0.0036	<0.0047	<0.0040	<0.0035	<0.0035	<0.0034	<0.0060	<0.0042	<0.0033	<0.0052	<0.0054	<0.0066	<0.0045	<0.0043
Ethyl tertiary-butyl ether	mg/kg	<0.0044	<0.0044	<0.0039	<0.0033	<0.0034	<0.0034	<0.0040	<0.0025	<0.0059	<0.0041	<0.0036	<0.0047	<0.0040	<0.0035	<0.0035	<0.0034	<0.0060	<0.0042	<0.0033	<0.0052	<0.0054	<0.0066	<0.0045	<0.0043
Ethylbenzene	mg/kg	<0.0044	<0.0044	<0.0039	<0.0033	<0.0034	<0.0034	<0.0040	<0.0025	<0.0059	<0.0041	<0.0036	<0.0047	<0.0040	<0.0035	<0.0035	<0.0034	<0.0060	<0.0042	<0.0033	<0.0052	<0.0054	<0.0066	<0.0045	<0.0043
Hexachlorobutadiene	mg/kg	<0.0044	<0.0044	<0.0039	<0.0033	<0.0034	<0.0034	<0.0040	<0.0025	<0.0059	<0.0041	<0.0036	<0.0047	<0.0040	<0.0035	<0.0035	<0.0034	<0.0060	<0.0042	<0.0033	<0.0052	<0.0054	<0.0066	<0.0045	<0.0043
Isopropylbenzene	mg/kg	<0.0044	<0.0044	<0.0039	<0.0033	<0.0034	<0.0034	<0.0040	<0.0025	<0.0059	<0.0041	<0.0036	<0.0047	<0.0040	<0.0035	<0.0035	<0.0034	<0.0060	<0.0042	<0.0033	<0.0052	<0.0054	<0.0066	<0.0045	<0.0043
Methyl tert-Butyl Ether	mg/kg	<0.0044	<0.0044	<0.0039	<0.0033	<0.0034	<0.0034	<0.0040	<0.0025	<0.0059	<0.0041	<0.0036	<0.0047	<0.0040	<0.0035	<0.0035	<0.0034	<0.0060	<0.0042	<0.0033	<0.0052	<0.0054	<0.0066	<0.0045	<0.0043
Methylene Chloride	mg/kg	<0.0088	<0.0088	<0.0078	<0.0066	<0.0068	<0.0068	<0.0080	<0.0050	<0.0118	<0.0083	<0.0073	<0.0094	<0.0080	<0.0070	<0.0070	<0.0067	<0.0121	<0.0085	<0.0067	<0.0104	<0.0108	<0.0132	<0.0089	<0.0087
Naphthalene	mg/kg	<0.0044	<0.0044	<0.0039	<0.0033	<0.0034	<0.0034	<0.0040	<0.0025	0.0116	<0.0041	<0.0036	<0.0047	<0.0040	<0.0035	<0.0035	<0.0034	<0.0060	<0.0042	<0.0033	<0.0052	<0.0054	<0.0066	<0.0045	<0.0043
n-Butylbenzene	mg/kg	<0.0044	<0.0044	<0.0039	<0.0033	<0.0034	<0.0034	<0.0040	<0.0025	<0.0059	<0.0041	<0.0036	<0.0047	<0.0040	<0.0035	<0.0035	<0.0034	<0.0060	<0.0042	<0.0033	<0.0052	<0.0054	<0.0066	<0.0045	<0.0043
n-Propylbenzene	mg/kg	<0.0044	<0.0044	<0.0039	<0.0033	<0.0034	<0.0034	<0.0040	<0.0025	<0.0059	<0.0041	<0.0036	<0.0047	<0.0040	<0.0035	<0.0035	<0.0034	<0.0060	<0.0042	<0.0033	<0.0052	<0.0054	<0.0066	<0.0045	<0.0043
sec-Butylbenzene	mg/kg	<0.0044	<0.0044	<0.0039	<0.0033	<0.0034	<0.0034	<0.0040	<0.0025	<0.0059	<0.0041	<0.0036	<0.0047	<0.0040	<0.0035	<0.0035	<0.0034	<0.0060	<0.0042	<0.0033	<0.0052	<0.0054	<0.0066	<0.0045	<0.0043

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	C06 C06S02BS04A 1503047 Fill 3.3 - 6.6 3/3/2015	C06 C06S04BS05 1503047 Fill 6.6 - 10 3/3/2015	C06 C06S06S07 1503047 Fill 10 - 14 3/3/2015	C06 C06S08 1503047 Natural Clay 14 - 16 3/3/2015	C06 C06S09 1503047 Natural Clay 19 - 21 3/3/2015	C06 C06S10 1503047 Natural Clay 24 - 26 3/3/2015	C06 C06S11 1503047 Natural Clay 29 - 31 3/3/2015	C06 C06S12S13 1503047 Natural Sand/Gravel 34 - 38 3/3/2015	C07 C07S01S02A 1501512 Fill 0 - 3.3 1/26/2015	C07 C07S02BS04A 1501512 Fill 3.3 - 6.6 1/26/2015	C07 C07S04BS05 1501512 Fill 6.6 - 10 1/26/2015	C07 C07S07 1501512 Natural Clay 12 - 14 1/26/2015	C07 C07S08 1501512 Natural Clay 19 - 21 1/26/2015	C07 C07S09 1501512 Natural Clay 24 - 26 1/26/2015	C07 C07S10 1501546 Natural Clay 29 - 31 1/29/2015	C07 C07S11S12 1501546 Natural Clay 34 - 38 1/29/2015	C08 C08S01S02A 1501166 Fill 0 - 3.33 1/9/2015	C08 C08S02BS04A 1501166 Fill 3.33 - 6.66 1/9/2015	C08 C08S04B 1501166 Natural Sand/Gravel 6.66 - 8 1/9/2015	C08 C08S05S06 1501166 Natural Clay 10 - 14 1/9/2015	C08 C08S07 1501166 Natural Clay 14 - 16 1/9/2015	C08 C08S08 1501166 Natural Clay 19 - 21 1/9/2015	C08 C08S09 1501166 Natural Clay 24 - 26 1/9/2015	C08 C08S10 1501166 Natural Sand/Gravel 29 - 31 1/9/2015
Preliminary Disposal Facility Category		Hazardous Material Type B	Hazardous Material Type B	Hazardous Material Type B	MCP Regulated Type A	MCP Regulated Type A	MCP Restricted	MCP Restricted	MCP Restricted	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Uncontaminated	Uncontaminated	Uncontaminated	MCP Regulated Type A	MCP Regulated Type B-1	Hazardous Material Type A	MCP Regulated Material Type B-2	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Uncontaminated
Styrene	mg/kg	<0.0044	<0.0044	<0.0039	<0.0033	<0.0034	<0.0034	<0.0040	<0.0025	<0.0059	<0.0041	<0.0036	<0.0047	<0.0040	<0.0035	<0.0035	<0.0034	<0.0060	<0.0042	<0.0033	<0.0052	<0.0054	<0.0066	<0.0045	<0.0043
tert-Butylbenzene	mg/kg	<0.0044	<0.0044	<0.0039	<0.0033	<0.0034	<0.0034	<0.0040	<0.0025	<0.0059	<0.0041	<0.0036	<0.0047	<0.0040	<0.0035	<0.0035	<0.0034	<0.0060	<0.0042	<0.0033	<0.0052	<0.0054	<0.0066	<0.0045	<0.0043
Tertiary-amyl methyl ether	mg/kg	<0.0044	<0.0044	<0.0039	<0.0033	<0.0034	<0.0034	<0.0040	<0.0025	<0.0059	<0.0041	<0.0036	<0.0047	<0.0040	<0.0035	<0.0035	<0.0034	<0.0060	<0.0042	<0.0033	<0.0052	<0.0054	<0.0066	<0.0045	<0.0043
Tetrachloroethene	mg/kg	<0.0044	<0.0044	<0.0039	<0.0033	<0.0034	<0.0034	<0.0040	<0.0025	<0.0059	<0.0041	<0.0036	<0.0047	<0.0040	<0.0035	<0.0035	<0.0034	<0.0060	<0.0042	<0.0033	<0.0052	<0.0054	<0.0066	<0.0045	<0.0043
Tetrahydrofuran	mg/kg	<0.0044	<0.0044	<0.0039	<0.0033	<0.0034	<0.0034	<0.0040	<0.0025	<0.0059	<0.0041	<0.0036	<0.0047	<0.0040	<0.0035	<0.0035	<0.0034	<0.0060	<0.0042	<0.0033	<0.0052	<0.0054	<0.0066	<0.0045	<0.0043
Toluene	mg/kg	<0.0044	<0.0044	<0.0039	<0.0033	<0.0034	<0.0034	<0.0040	<0.0025	0.0092	<0.0041	<0.0036	<0.0047	<0.0040	<0.0035	<0.0035	<0.0034	<0.0060	<0.0042	<0.0033	<0.0052	<0.0054	<0.0066	<0.0045	<0.0043
trans-1,2-Dichloroethene	mg/kg	<0.0044	<0.0044	<0.0039	<0.0033	<0.0034	<0.0034	<0.0040	<0.0025	<0.0059	<0.0041	<0.0036	<0.0047	<0.0040	<0.0035	<0.0035	<0.0034	<0.0060	<0.0042	<0.0033	<0.0052	<0.0054	<0.0066	<0.0045	<0.0043
trans-1,3-Dichloropropene	mg/kg	<0.0044	<0.0044	<0.0039	<0.0033	<0.0034	<0.0034	<0.0040	<0.0025	<0.0059	<0.0041	<0.0036	<0.0047	<0.0040	<0.0035	<0.0035	<0.0034	<0.0060	<0.0042	<0.0033	<0.0052	<0.0054	<0.0066	<0.0045	<0.0043
Trichloroethene	mg/kg	<0.0044	<0.0044	<0.0039	<0.0033	<0.0034	<0.0034	<0.0040	<0.0025	<0.0059	<0.0041	<0.0036	<0.0047	<0.0040	<0.0035	<0.0035	<0.0034	<0.0060	<0.0042	<0.0033	<0.0052	<0.0054	<0.0066	<0.0045	<0.0043
Trichlorofluoromethane	mg/kg	<0.0044	<0.0044	<0.0039	<0.0033	<0.0034	<0.0034	<0.0040	<0.0025	<0.0059	<0.0041	<0.0036	<0.0047	<0.0040	<0.0035	<0.0035	<0.0034	<0.0060	<0.0042	<0.0033	<0.0052	<0.0054	<0.0066	<0.0045	<0.0043
Vinyl Chloride	mg/kg	<0.0088	<0.0088	<0.0078	<0.0066	<0.0068	<0.0068	<0.0080	<0.0050	<0.0118	<0.0083	<0.0073	<0.0094	<0.0080	<0.0070	<0.0070	<0.0067	<0.0121	<0.0085	<0.0067	<0.0104	<0.0108	<0.0132	<0.0089	<0.0087
Xylene O	mg/kg	<0.0044	<0.0044	<0.0039	<0.0033	<0.0034	<0.0034	<0.0040	<0.0025	<0.0059	<0.0041	<0.0036	<0.0047	<0.0040	<0.0035	<0.0035	<0.0034	<0.0060	<0.0042	<0.0033	<0.0052	<0.0054	<0.0066	<0.0045	<0.0043
Xylene P,M	mg/kg	<0.0088	<0.0088	<0.0078	<0.0066	<0.0068	<0.0068	<0.0080	<0.0050	<0.0118	<0.0083	<0.0073	<0.0094	<0.0080	<0.0070	<0.0070	<0.0067	<0.0121	<0.0085	<0.0067	<0.0104	<0.0108	<0.0132	<0.0089	<0.0087
Xylenes (Total)	mg/kg	<0.0088	<0.0088	<0.0078	<0.0066	<0.0068	<0.0068	<0.0080	<0.0050	<0.0118	<0.0083	<0.0073	<0.0094	<0.0080	<0.0070	<0.0070	<0.0067	<0.0121	<0.0085	<0.0067	<0.0104	<0.0108	<0.0132	<0.0089	<0.0087
Total VOCs (Low Level)	mg/kg	ND	ND	ND	0.0039	0.0081	ND	ND	ND	0.0541	0.0349	0.026	0.019	ND	ND	ND	0.0083	0.0486	ND	0.0181	0.0606	0.0166	0.155	0.0127	ND
Semi-Volatile Organic Compounds																									
1,2,4-Trichlorobenzene	mg/kg	<0.997	<0.949	<0.907	<0.996	<1.03	<0.982	<0.995	<0.857	<4.43	<1.01	<0.986	<1.06	<0.906	<0.877	<0.906	<0.994	<0.940	<1.03	<1.09	<0.973	<1.04	<1.06	<0.981	<0.910
1,2-Dichlorobenzene	mg/kg	<0.997	<0.949	<0.907	<0.996	<1.03	<0.982	<0.995	<0.857	<4.43	<1.01	<0.986	<1.06	<0.906	<0.877	<0.906	<0.994	<0.940	<1.03	<1.09	<0.973	<1.04	<1.06	<0.981	<0.910
1,3-Dichlorobenzene	mg/kg	<0.997	<0.949	<0.907	<0.996	<1.03	<0.982	<0.995	<0.857	<4.43	<1.01	<0.986	<1.06	<0.906	<0.877	<0.906	<0.994	<0.940	<1.03	<1.09	<0.973	<1.04	<1.06	<0.981	<0.910
1,4-Dichlorobenzene	mg/kg	<0.500	<0.476	<0.455	<0.499	<0.518	<0.493	<0.499	<0.430	<2.22	<0.507	<0.494	<0.530	<0.454	<0.440	<0.454	<0.499	<0.471	<0.517	<0.545	<0.488	<0.523	<0.532	<0.492	<0.456
2,4,5-Trichlorophenol	mg/kg	<0.997	<0.949	<0.907	<0.996	<1.03	<0.982	<0.995	<0.857	<4.43	<1.01	<0.986	<1.06	<0.906	<0.877	<0.906	<0.994	<0.940	<1.03	<1.09	<0.973	<1.04	<1.06	<0.981	<0.910
2,4,6-Trichlorophenol	mg/kg	<0.997	<0.949	<0.907	<0.996	<1.03	<0.982	<0.995	<0.857	<4.43	<1.01	<0.986	<1.06	<0.906	<0.877	<0.906	<0.994	<0.940	<1.03	<1.09	<0.973	<1.04	<1.06	<0.981	<0.910
2,4-Dichlorophenol	mg/kg	<0.997	<0.949	<0.907	<0.996	<1.03	<0.982	<0.995	<0.857	<4.43	<1.01	<0.986	<1.06	<0.906	<0.877	<0.906	<0.994	<0.940	<1.03	<1.09	<0.973	<1.04	<1.06	<0.981	<0.910
2,4-Dimethylphenol	mg/kg	<0.997	<0.949	<0.907	<0.996	<1.03	<0.982	<0.995	<0.857	<4.43	<1.01	<0.986	<1.06	<0.906	<0.877	<0.906	<0.994	<0.940	<1.03	<1.09	<0.973	<1.04	<1.06	<0.981	<0.910
2,4-Dinitrophenol	mg/kg	<5.00	<4.76	<4.55	<4.99	<5.18	<4.93	<4.99	<4.30	<22.2	<5.07	<4.94	<5.30	<4.54	<4.40	<4.54	<4.99	<4.71	<5.17	<5.45	<4.88	<5.23	<5.32	<4.92	<4.56
2,4-Dinitrotoluene	mg/kg	<0.997	<0.949	<0.907	<0.996	<1.03	<0.982	<0.995	<0.857	<1.11	<1.01	<0.986	<1.06	<0.906	<0.877	<0.906	<0.994	<0.940	<1.03	<1.09	<0.973	<1.04	<1.06	<0.981	<0.910
2,6-Dinitrotoluene	mg/kg	<0.997	<0.949	<0.907	<0.996	<1.03	<0.982	<0.995	<0.857	<4.43	<1.01	<0.986	<1.06	<0.906	<0.877	<0.906	<0.994	<0.940	<1.03	<1.09	<0.973	<1.04	<1.06	<0.981	<0.910
2-Chloronaphthalene	mg/kg	<0.997	<0.949	<0.907	<0.996	<1.03	<0.982	<0.995	<0.857	<4.43	<1.01	<0.986	<1.06	<0.906	<0.877	<0.906	<0.994	<0.940	<1.03	<1.09	<0.973	<1.04	<1.06	<0.981	<0.910
2-Chlorophenol	mg/kg	<0.997	<0.949	<0.907	<0.996	<1.03	<0.982	<0.995	<0.857	<4.43	<1.01	<0.986	<1.06	<0.906	<0.877	<0.906	<0.994	<0.940	<1.03	<1.09	<0.973	<1.04	<1.06	<0.981	<0.910
2-Methylnaphthalene	mg/kg	<0.997	<0.949	<0.907	<0.996	<1.03	<0.982	<0.995	<0.857	<4.43	<1.01	<0.986	<1.06	<0.906	<0.877	<0.906	<0.994	<0.940	<1.03	<1.09	<0.973	<1.04	<1.06	<0.981	<0.910
2-Methylphenol	mg/kg	<0.997	<0.949	<0.907	<0.996	<1.03	<0.982	<0.995	<0.857	<4.43	<1.01	<0.986	<1.06	<0.906	<0.877	<0.906	<0.994	<0.940	<1.03	<1.09	<0.973	<1.04	<1.06	<0.981	<0.910
2-Nitrophenol	mg/kg	<0.997	<0.949	<0.907	<0.996	<1.03	<0.982	<0.995	<0.857	<4.43	<1.01	<0.986	<1.06	<0.906	<0.877	<0.906	<0.994	<0.940	<1.03	<1.09	<0.973	<1.04	<1.06	<0.981	<0.910
3,3´-Dichlorobenzidine	mg/kg	<2.00	<1.90	<1.82	<1.99	<2.07	<1.97	<1.99	<1.72	<8.88	<2.02	<1.97	<2.12	<1.81	<1.76	<1.81	<1.99	<1.88	<2.06	<2.18	<1.95	<2.09	<2.13	<1.96	<1.82
3+4-Methylphenol	mg/kg	<2.00	<1.90	<1.82	<1.99	<2.07	<1.97	<1.99	<1.72	<8.88	<2.02	<1.97	<2.12	<1.81	<1.76	<1.81	<1.99	<1.88	<2.06	<2.18	<1.95	<2.09	<2.13	<1.96	<1.82
4-Bromophenyl-phenylether	mg/kg	<0.997	<0.949	<0.907	<0.996	<1.03	<0.982	<0.995	<0.857	<4.43	<1.01	<0.986	<1.06	<0.906	<0.877	<0.906	<0.994	<0.940	<1.03	<1.09	<0.973	<1.04	<1.06	<0.981	<0.910
4-Chloroaniline	mg/kg	<2.00	<1.90	<1.82	<1.99	<2.07	<1.97	<1.99	<1.72	<2.22	<2.02	<1.97	<2.12	<1.81	<1.76	<1.81	<1.99	<1.88	<2.06	<2.18	<1.95	<2.09	<2.13	<1.96	<1.82
4-Nitrophenol	mg/kg	<5.00	<4.76	<4.55	<4.99	<5.18	<4.93	<4.99	<4.30	<22.2	<5.07	<4.94	<5.30	<4.54	<4.40	<4.54	<4.99	<4.71	<5.17	<5.45	<4.88	<5.23	<5.32	<4.92	<4.56
Acenaphthene	mg/kg	<0.997	<0.949	<0.907	<0.996	<1.03	<0.982	<0.995	<0.857	<4.43	<1.01	<0.986	<1.06	<0.906	<0.877	<0.906	<0.994	<0.940	<1.03	<1.09	<0.973	<1.04	<1.06	<0.981	<0.910
Acenaphthylene	mg/kg	<0.997	<0.949	<0.907	<0.996	<1.03	<0.982	<0.995	<0.857	<4.43	<1.01	<0.986	<1.06	<0.906	<0.877	<0.906	<0.994	<0.940	<1.03	<1.09	<0.973	<1.04	<1.06	<0.981	<0.910
Acetophenone	mg/kg	<2.00	<1.90	<1.82	<1.99	<2.07	<1.97	<1.99	<1.72	<8.88	<2.02	<1.97	<2.12	<1.81	<1.76	<1.81	<1.99	<1.88	<2.06	<2.18	<1.95	<2.09	<2.13	<1.96	<1.82
Aniline	mg/kg	<5.00	<4.76	<4.55	<4.99	<5.18	<4.93	<4.99	<4.30	<22.2	<5.07	<4.94	<5.30	<4.54	<4.40	<4.54	<4.99	<4.71	<5.17	<5.45	<4.88	<5.23	<5.32	<4.92	<4.56
Anthracene	mg/kg	1.98	<0.949	<0.907	<0.996	<1.03	<0.982	<0.995	<0.857	<4.43	<1.01	<0.986	<1.06	<0.906	<0.877	<0.906	<0.994	<0.940	<1.03	<1.09	<0.973	<1.04	<1.06	<0.981	<0.910
Azobenzene	mg/kg	<0.997	<0.949	<0.907	<0.996	<1.03	<0.982	<0.995	<0.857	<4.43	<1.01	<0.986	<1.06	<0.906	<0.877	<0.906	<0.994	<0.940	<1.03	<1.09	<0.973	<1.04	<1.06	<0.981	<0.910
Benzo(a)anthracene	mg/kg	9.49	1.42	0.99	<0.996	<1.03	<0.982	<0.995	<0.857	<4.43	<1.01	<0.986	<1.06	<0.906	<0.877	<0.906	<0.994	<0.940	<1.03	<1.09	<0.973	<1.04	<1.06	<0.981	<0.910
Benzo(a)pyrene	mg/kg	4.09	1.2	0.799	<0.499	<0.518	<0.493	<0.499	<0.430	<2.22	0.566	<0.494	<0.530	<0.454	<0.440	<0.454	<0.499	<0.471	0.528	0.55	<0.488	<0.523	<0.532	<0.492	<0.456
Benzo(b)fluoranthene	mg/kg	6.78	<0.949	<0.907	<0.996	<1.03	<0.982	<0.995	<0.857	<4.43	<1.01	<0.986	<1.06	<0.906	<0.877	<0.906	<0.994	<0.940	<1.03	<1.09	<0.973	<1.04	<1.06	<0.981	<0.910
Benzo(g,h,i)perylene	mg/kg	2.4	<0.949	<0.907	<0.996	<1.03	<0.982	<0.995	<0.857	<4.43	<1.01	<0.986	<1.06	<0.906	<0.877	<0.906	<0.994	<0.940	<1.03	<1.09	<0.973	<1.04	<1.06	<0.981	<0.910
Benzo(k)fluoranthene	mg/kg	5.1	1.06	<0.907	<0.996	<1.03	<0.982	<0.995	<0.857	<4.43	<1.01	<0.986	<1.06	<0.906	<0.877	<0.906	<0.994	<0.940	<1.03	<1.09	<0.973	<1.04	<1.06	<0.981	<0.910
bis(2-Chloroethoxy)methane	mg/kg	<0.997	<0.949	<0.907	<0.996	<1.03	<0.982	<0.995	<0.857	<4.43	<1.01	<0.986	<1.06	<0.906	<0.877	<0.906	<0.994	<0.940	<1.03	<1.09	<0.973	<1.04	<1.06	<0.981	<0.910
bis(2-Chloroethyl)ether	mg/kg	<0.500	<0.476	<0.455	<0.499	<0.518	<0.493	<0.499	<0.430	<0.439	<0.507	<0.494	<0.530	<0.454	<0.440	<0.454	<0.499	<0.471	<0.517	<0.545	<0.488	<0.523	<0.532	<0.492	<0.456
bis(2-chloroisopropyl)Ether	mg/kg	<0.500	<0.476	<0.455	<0.499	<0.518	<0.493	<0.499	<0.430	<0.439	<0.507	<0.494	<0.530	<0.454	<0.440	<0.454	<0.499	<0.471	<0.517	<0.545	<0.488	<0.523	<0.532	<0.492	<0.456
bis(2-Ethylhexyl)phthalate	mg/kg	<0.997	<0.949	<0.907	<0.996	<1.03	<0.982	<0.995	<0.857	19.8	<1.01	<0.986	<1.06	<0.906	<0.877	<0.906	<0.994	<0.940	<1.03	<1.09	<0.973	<1.04	<1.06	<0.981	<0.910
Butylbenzylphthalate	mg/kg	<0.997	<0.949	<0.907	<0.996	<1.03	<0.982	<0.995	<0.857	4.54	<1.01	<0.986	<1.06	<0.906	<0.877	<0.906	<0.994	<0.940	<1.03	<1.09	<0.973	<1.04	<1.06	<0.981	<0.910
Chrysene	mg/kg	8.94	1.28	0.902	<0.499	<0.518	<0.493	<0.499	<0.430	<2.22	0.645	<0.494	<0.530	<0.454	<0.440	<0.454	<0.499	<0.471	0.59	0.668	<0.488	<0.523	<0.532	<0.492	<0.456
Dibenzo(a,h)Anthracene	mg/kg	1.55	<0.476	<0.455	<0.499	<0.518	<0.493	<0.499	<0.430	<2.22	<0.507	<0.494	<0.530	<0.454	<0.440	<0.454	<0.499	<0.471	<0.517	<0.545	<0.488	<0.523	<0.532	<0.492	<0.456
Dibenzofuran	mg/kg	1.22	<0.949	<0.907	<0.996	<1.03	<0.982	<0.995	<0.857	<4.43	<1.01	<0.986	<1.06	<0.906	<0.877	<0.906	<0.994	<0.940	<1.03	<1.09	<0.973	<1.04	<1.06	<0.981	<0.910
Diethylphthalate	mg/kg	<0.997	<0.949	<0.907	<0.996	<1.03	<0.982	<0.995	<0.857	<4.43	<1.01	<0.986	<1.06	<0.906	<0.877	<0.906	<0.994	<0.940	<1.03	<1.09	<0.973	<1.04	<1.06	<0.981	<0.910
Dimethylphthalate	mg/kg	<0.997	<0.949	<0.907	<0.996	<1.03	<0.982	<0.995	<0.857	<4.43	<1.01	<0.986	<1.06	<0.906	<0.877	<0.906	<0.994	<0.940	<1.03	<1.09	<0.973	<1.04	<1.06	<0.981	<0.910
Di-n-butylphthalate	mg/kg	<0.997	<0.949	<0.907	<0.996	<1.03	<0.982	<0.995	<0.857	<4.43	<1.01	<0.986	<1.06	<0.906	<0.877	<0.906	<0.994	<0.940	<1.03	<1.09	<0.973	<1.04	<1.06	<0.981	<0.910
Di-n-octylphthalate	mg/kg	<0.997	<0.949	<0.907	<0.996	<1.03	<0.982	<0.995	<0.857	<4.43	<1.01	<0.986	<1.06	<0.906	<0.877	<0.906	<0.994	<0.940	<1.03	<1.09	<0.973	<1.04	<1.06	<0.981	<0.910
Fluoranthene	mg/kg	19.9	3.31	2.38	<0.996	<1.03	<0.982	<0.995	<0.857	<4.43	<1.01	<0.986	<1.06	<0.906	<0.877	<0.906	<0.994	<0.940	1.57	1.62	<0.973	<1.04	<1.06	<0.981	<0.910
Fluorene	mg/kg	1.26	<0.949	<0.907	<0.996	<1.03	<0.982	<0.995	<0.857	<4.43	<1.01	<0.986	<1.06	<0.906	<0.877	<0.906	<0.994	<0.940	<1.03	<1.09	<0.973	<1.04	<1.06	<0.981	<0.910
Hexachlorobenzene	mg/kg	<0.500	<0.476	<0.455	<0.499	<0.518	<0.493	<0.499	<0.430	<1.11	<0.507	<0.494	<0.530	<0.454	<0.440	<0.454	<0.499	<0.471	<0.517	<0.545	<0.488	<0.523	<0.532	<0.492	<0.456
Hexachlorobutadiene	mg/kg	<0.997	<0.949	<0.907	<0.996	<1.03	<0.982	<0.995	<0.857	<4.43	<1.01	<0.986	<1.06	<0.906	<0.877	<0.906	<0.994	<0.940	<1.03	<1.09	<0.973	<1.04	<1.06	<0.981	<0.910
Hexachloroethane	mg/kg	<0.997	<0.949	<0.907	<0.996	<1.03	<0.982	<0.995	<0.857	<2.22	<1.01	<0.986	<1.06	<0.906	<0.877	<0.906	<0.994	<0.940	<1.03	<1.09	<0.973	<1.04	<1.06	<0.981	<0.910
Indeno(1,2,3-cd)Pyrene	mg/kg	2.89	<0.949	<0.907	<0.996	<1.03	<0.982	<0.995	<0.857	<4.43	<1.01	<0.986	<1.06	<0.906	<0.877	<0.906	<0.994	<0.940	<1.03	<1.09	<0.973	<1.04	<1.06	<0.981	<0.910
Isophorone	mg/kg	<0.997	<0.949	<0.907	<0.996	<1.03	<0.982	<0.995	<0.857	<4.43	<1.01	<0.986	<1.06	<0.906	<0.877	<0.906	<0.994	<0.940	<1.03	<1.09	<0.973	<1.04	<1.06	<0.981	<0.910
Naphthalene	mg/kg	<0.997	<0.949	<0.907	<0.996	<1.03	<0.982	<0.995	<0.857	<4.43	<1.01	<0.986	<1.06	<0.906	<0.877	<0.906	<0.994	<0.940	<1.03	<1.09	<0.973	<1.04	<1.06	<0.981	<0.910
Nitrobenzene	mg/kg	<0.997	<0.949	<0.907	<0.996	<1.03	<0.982	<0.995	<0.857	<4.43	<1.01	<0.986	<1.06	<0.906	<0.877	<0.906	<0.994	<0.940	<1.03	<1.09	<0.973	<1.04	<1.06	<0.981	<0.910
N-Nitrosodimethylamine	mg/kg	<0.997	<0.949	<0.907	<0.996	<1.03	<0.982	<0.995	<0.857	<4.43	<1.01	<0.986	<1.06	<0.906	<0.877	<0.906	<0.994	<0.940	<1.03	<1.09	<0.973	<1.04	<1.06	<0.981	<0.910
Pentachlorophenol	mg/kg	<5.00	<4.76	<4.55	<4.99	<5.18	<4.93	<4.99	<4.30	<4.43	<5.07	<4.94	<5.30	<4.54	<4.40	<4.54	<4.99	<4.71	<5.17	<5.45	<4.88	<5.23	<5.32	<4.92	<4.56
Phenanthrene	mg/kg	8.99	1.99	1.91	<0.996	<1.03	<0.982	<0.995	<0.857	<4.43	<1.01	<0.986	<1.06	<0.906	<0.877	<0.906	<0.994	<0.940	1.13	1.61	<0.973	<1.04	<1.06	<0.981	<0.910
Phenol	mg/kg	<0.997	<0.949	<0.907	<0.996	<1.03	<0.982	<0.995	<0.857	<4.43	<1.01	<0.986	<1.06	<0.906	<0.877	<0.906	<0.994	<0.940	<1.03	<1.09	<0.973	<1.04	<1.06	<0.981	<0.910
Pyrene	mg/kg	10.4	2.03	1.5	<0.996	<1.03	<0.982	<0.995	<0.857	<4.43	<1.01	<0.986	<1.06	<0.906	<0.877	<0.906	<0.994	<0.940	1.29	1.37	<0.973	<1.04	<1.06	<0.981	<0.910
Total SVOCs	mg/kg	84.99	12.29	8.481	ND	ND	ND	ND	ND	24.34	1.211	ND	ND	ND	ND	ND	ND	ND	5.108	5.818	ND	ND	ND	ND	ND
Classic Chemistry																									
Corrosivity (pH)	S.U.	6.35	5.89	5.35	3.77	4.89	5.94	5.64	6.28	7.27	7	6.65	5.74	6.6	6.66	7.06	7.01	9.06	5.25	5.75	5.21	6.27	6.8	5.03	5
Conductivity	umhos/cm	275	321	1130	2820	1680	1940	1200	672	1340	542	412	780	1100	1610	978	848	622	464	236	2310	1070	1030	1120	841
Flashpoint	°F	>200	>200	>200	--	--	--	--	--	>200	>200	>200	--	--	--	--	--	>200	>200	>200	--	--	--	--	--
Reactive Cyanide	mg/kg	<2.0	<2.0	<2.0	--	--	--	--	--	<2.0	<2.0	<2.0	--	--	--	--	--	<2.0	<2.0	<2.0	--	--	--	--	--
Reactive Sulfide	mg/kg	<2.0	<2.0	<2.0	--	--	--	--	--	<2.0	<2.0	<2.0	--	--	--	--	--	<2.0	<2.0	<2.0	--	--	--	--	--

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	C08 C08S11S12 1501166 Natural Sand/Gravel 34 - 38 1/9/2015	C09 C09S01S02A 1501111 Fill 0 - 3.33 1/7/2015	C09 C09S02BS04A 1501111 Fill 3.33 - 6.66 1/7/2015	C09 C09S04BS05 1501111 Fill 6.66 - 10 1/7/2015	C09 C09S06 1501111 Natural Clay 10 - 12 1/7/2015	C09 C09S07 1501111 Natural Clay 14 - 16 1/7/2015	C09 C09S08 1501111 Natural Clay 19 - 21 1/7/2015	C09 C09S09 1501111 Natural Clay 24 - 26 1/7/2015	C09 C09S10 1501111 Natural Clay 29 - 31 1/7/2015	C09 C09S11S12 1501111 Natural Clay 34 - 38 1/7/2015	C10 C10S01S02A 1501058 Fill 0 - 3.33 1/6/2015	C10 C10S02BS04A 1501058 Fill 3.33 - 6.66 1/6/2015	C10 C10S04BS05 1501058 Fill 6.66 - 9.75 1/6/2015	C10 C10S06 1501058 Natural Clay 10 - 12 1/6/2015	C10 C10S07 1501111 Natural Clay 14 - 16 1/7/2015	C10 C10S08 1501111 Natural Sand/Gravel 19 - 21 1/7/2015	C10 C10S09 1501111 Natural Sand/Gravel 24 - 26 1/7/2015	C10 C10S10 1501111 Natural Sand/Gravel 29 - 31 1/7/2015	C10 C10S11S12 1501111 Natural Sand/Gravel 34 - 38 1/7/2015	C11 C11S01S02A 1501031 Fill 0 - 3.3 1/5/2015	C11 C11S02BS04A 1501058 Fill 3.33 - 6.66 1/6/2015	C11 C11S05 1501058 Natural Clay 8 - 10 1/6/2015	C11 C11S06 1501058 Natural Sand/Gravel 14 - 16 1/6/2015	C11 C11S07 1501058 Natural Sand/Gravel 19 - 21 1/6/2015
Preliminary Disposal Facility Category		MCP Regulated Type A	MCP Regulated Type B-1	Hazardous Material Type A	Hazardous Material Type B	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Restricted	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	Uncontaminated	Uncontaminated	MCP Regulated Type A	Uncontaminated	Uncontaminated	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A
RCRA 8 Metals	**Units**																								
Arsenic	mg/kg	<12.7	16.1	48.7	396	22.4	16.7	17.1	17.3	20.1	14.9	5.1	163	200	14.6	11.3	17.3	16.8	<9.03	<12.5	5.25	67.5	12.8	4.16	6.93
Barium	mg/kg	12.9	84.3	61.5	53.1	99.8	98.2	105	102	99.2	45.2	21.1	68.7	13.3	96.8	43.8	14	19.5	<9.03	20.4	24.6	21.4	85.5	12.3	17.5
Cadmium	mg/kg	<2.54	<2.62	<3.00	6.8	<2.29	<2.88	<2.72	<2.29	<2.56	<2.92	<0.43	3.81	4.63	0.75	<2.10	<2.45	<1.96	<1.81	<2.50	<0.52	6.01	<0.62	<0.56	<0.53
Chromium	mg/kg	10.9	21.1	14	15	56.1	53.2	56.6	56	53.4	24.8	17.7	9.27	7.73	48.1	25.8	13.9	17.6	23.4	16	17.3	38.4	63	9.78	15.4
Lead	mg/kg	<25.4	1050	1580	4260	<22.9	<28.8	<27.2	<22.9	<25.6	<29.2	62.5	544	43.7	15.5	<21.0	<24.5	<19.6	<18.1	<25.0	29.9	578	35.2	<5.62	5.52
Selenium	mg/kg	<16.2	<10.5	<12.0	21.9	<18.3	<18.4	<17.4	<18.3	<10.2	<18.7	<8.66	<9.80	<8.19	<11.5	<16.8	<19.6	<15.7	<14.4	<16.0	<10.4	<9.60	<12.4	<11.2	<10.6
Silver	mg/kg	<2.54	<2.62	<3.00	<2.60	<2.29	<2.88	<2.72	<2.29	<2.56	<2.92	<0.43	<0.49	<0.41	<0.57	<2.10	<2.45	<1.96	<1.81	<2.50	<0.52	<0.48	<0.62	<0.56	<0.53
Mercury	mg/kg	<0.030	1.92	1.1	0.368	<0.038	<0.038	<0.039	<0.042	<0.042	<0.036	<0.030	0.191	<0.035	<0.035	<0.035	<0.033	<0.034	<0.031	<0.038	<0.027	0.244	<0.040	<0.035	<0.039
Metals by Toxicity Characteristic Leaching Procedure (TCLP)																									
Arsenic	mg/L	--	--	--	0.064	--	--	--	--	--	--	--	<0.050	0.057	--	--	--	--	--	--	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead	mg/L	--	1.6	3.66	15.5	--	--	--	--	--	--	--	0.138	--	--	--	--	--	--	--	--	0.177	--	--	--
Selenium	mg/L	--	--	--	<0.050	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Herbicides																									
2,4,5-T	mg/kg	--	<0.057	<0.063	<0.066	--	--	--	--	--	--	<0.056	<0.057	<0.056	--	--	--	--	--	--	<0.058	<0.060	--	--	--
2,4-D	mg/kg	--	<0.057	<0.063	<0.066	--	--	--	--	--	--	<0.056	<0.057	<0.056	--	--	--	--	--	--	<0.058	<0.060	--	--	--
2,4-DB	mg/kg	--	<0.057	<0.063	<0.066	--	--	--	--	--	--	<0.056	<0.057	<0.056	--	--	--	--	--	--	<0.058	<0.060	--	--	--
Dalapon	mg/kg	--	<0.69	<0.75	<0.79	--	--	--	--	--	--	<0.67	<0.69	<0.68	--	--	--	--	--	--	<0.69	<0.73	--	--	--
Dicamba	mg/kg	--	<0.057	<0.063	<0.066	--	--	--	--	--	--	<0.056	<0.057	<0.056	--	--	--	--	--	--	<0.058	<0.060	--	--	--
Dichlorprop	mg/kg	--	<0.057	<0.063	<0.066	--	--	--	--	--	--	<0.056	<0.057	<0.056	--	--	--	--	--	--	<0.058	<0.060	--	--	--
Dinoseb	mg/kg	--	<0.34	<0.38	<0.39	--	--	--	--	--	--	<0.33	<0.34	<0.34	--	--	--	--	--	--	<0.35	<0.36	--	--	--
MCPA	mg/kg	--	<14	<15	<16	--	--	--	--	--	--	<13	<14	<14	--	--	--	--	--	--	<14	<15	--	--	--
MCPP	mg/kg	--	<14	<15	<16	--	--	--	--	--	--	<13	<14	<14	--	--	--	--	--	--	<14	<15	--	--	--
Silvex (2,4,5-TP)	mg/kg	--	<0.057	<0.063	<0.066	--	--	--	--	--	--	<0.056	<0.057	<0.056	--	--	--	--	--	--	<0.058	<0.060	--	--	--
Pesticides																									
4,4'-DDD	mg/kg	--	<0.010	<0.0021	<0.0024	--	--	--	--	--	--	<0.0037	<0.0041	<0.0020	--	--	--	--	--	--	<0.0039	<0.0042	--	--	--
4,4'-DDE	mg/kg	--	<0.010	<0.0021	<0.0024	--	--	--	--	--	--	<0.0037	<0.0041	<0.0020	--	--	--	--	--	--	<0.0039	<0.0042	--	--	--
4,4'-DDT	mg/kg	--	<0.010	<0.0021	<0.0024	--	--	--	--	--	--	<0.0037	<0.0041	<0.0020	--	--	--	--	--	--	<0.0039	<0.0042	--	--	--
Aldrin	mg/kg	--	<0.010	<0.0021	<0.0024	--	--	--	--	--	--	<0.0037	<0.0041	<0.0020	--	--	--	--	--	--	<0.0039	<0.0042	--	--	--
alpha-BHC	mg/kg	--	<0.010	<0.0021	<0.0024	--	--	--	--	--	--	<0.0037	<0.0041	<0.0020	--	--	--	--	--	--	<0.0039	<0.0042	--	--	--
beta-BHC	mg/kg	--	<0.010	<0.0021	<0.0024	--	--	--	--	--	--	<0.0037	<0.0041	<0.0020	--	--	--	--	--	--	<0.0039	<0.0042	--	--	--
Chlordane (technical)	mg/kg	--	<0.10	<0.021	<0.024	--	--	--	--	--	--	<0.037	<0.041	<0.020	--	--	--	--	--	--	<0.039	<0.042	--	--	--
delta-BHC	mg/kg	--	<0.010	<0.0021	<0.0024	--	--	--	--	--	--	<0.0037	<0.0041	<0.0020	--	--	--	--	--	--	<0.0039	<0.0042	--	--	--
Dieldrin	mg/kg	--	<0.010	<0.0021	<0.0024	--	--	--	--	--	--	<0.0037	<0.0041	<0.0020	--	--	--	--	--	--	<0.0039	<0.0042	--	--	--
Endosulfan I	mg/kg	--	<0.010	<0.0021	<0.0024	--	--	--	--	--	--	<0.0037	<0.0041	<0.0020	--	--	--	--	--	--	<0.0039	<0.0042	--	--	--
Endosulfan II	mg/kg	--	<0.010	<0.0021	<0.0024	--	--	--	--	--	--	<0.0037	<0.0041	<0.0020	--	--	--	--	--	--	<0.0039	<0.0042	--	--	--
Endosulfan sulfate	mg/kg	--	<0.010	<0.0021	<0.0024	--	--	--	--	--	--	<0.0037	<0.0041	<0.0020	--	--	--	--	--	--	<0.0039	<0.0042	--	--	--
Endrin	mg/kg	--	<0.010	<0.0021	<0.0024	--	--	--	--	--	--	<0.0037	<0.0041	<0.0020	--	--	--	--	--	--	<0.0039	<0.0042	--	--	--
Endrin ketone	mg/kg	--	<0.010	<0.0021	<0.0024	--	--	--	--	--	--	<0.0037	<0.0041	<0.0020	--	--	--	--	--	--	<0.0039	<0.0042	--	--	--
gamma-BHC (Lindane)	mg/kg	--	<0.010	<0.0021	<0.0024	--	--	--	--	--	--	<0.0037	<0.0041	<0.0020	--	--	--	--	--	--	<0.0039	<0.0042	--	--	--
Heptachlor	mg/kg	--	<0.010	<0.0021	<0.0024	--	--	--	--	--	--	<0.0037	<0.0041	<0.0020	--	--	--	--	--	--	<0.0039	<0.0042	--	--	--
Heptachlor epoxide	mg/kg	--	<0.010	<0.0021	<0.0024	--	--	--	--	--	--	<0.0037	<0.0041	<0.0020	--	--	--	--	--	--	<0.0039	<0.0042	--	--	--
Hexachlorobenzene	mg/kg	--	<0.010	<0.0021	<0.0024	--	--	--	--	--	--	<0.0037	<0.0041	<0.0020	--	--	--	--	--	--	<0.0039	<0.0042	--	--	--
Methoxychlor	mg/kg	--	<0.010	<0.0021	<0.0024	--	--	--	--	--	--	<0.0037	<0.0041	<0.0020	--	--	--	--	--	--	<0.0039	<0.0042	--	--	--
Polychlorinated Biphenyls																									
Aroclor 1016	mg/kg	<0.125	<0.150	<0.155	<0.150	<0.156	<0.156	<0.167	<0.171	<0.161	<0.154	<0.130	<0.144	<0.144	<0.151	<0.152	<0.138	<0.134	<0.131	<0.142	<0.129	<0.136	<0.162	<0.155	<0.143
Aroclor 1221	mg/kg	<0.125	<0.150	<0.155	<0.150	<0.156	<0.156	<0.167	<0.171	<0.161	<0.154	<0.130	<0.144	<0.144	<0.151	<0.152	<0.138	<0.134	<0.131	<0.142	<0.129	<0.136	<0.162	<0.155	<0.143
Aroclor 1232	mg/kg	<0.125	<0.150	<0.155	<0.150	<0.156	<0.156	<0.167	<0.171	<0.161	<0.154	<0.130	<0.144	<0.144	<0.151	<0.152	<0.138	<0.134	<0.131	<0.142	<0.129	<0.136	<0.162	<0.155	<0.143
Aroclor 1242	mg/kg	<0.125	<0.150	<0.155	<0.150	<0.156	<0.156	<0.167	<0.171	<0.161	<0.154	<0.130	<0.144	<0.144	<0.151	<0.152	<0.138	<0.134	<0.131	<0.142	<0.129	<0.136	<0.162	<0.155	<0.143
Aroclor 1248	mg/kg	<0.125	<0.150	<0.155	<0.150	<0.156	<0.156	<0.167	<0.171	<0.161	<0.154	<0.130	<0.144	<0.144	<0.151	<0.152	<0.138	<0.134	<0.131	<0.142	<0.129	<0.136	<0.162	<0.155	<0.143
Aroclor 1254	mg/kg	<0.125	0.472	<0.155	<0.150	<0.156	<0.156	<0.167	<0.171	<0.161	<0.154	<0.130	<0.144	<0.144	<0.151	<0.152	<0.138	<0.134	<0.131	<0.142	<0.129	<0.136	<0.162	<0.155	<0.143
Aroclor 1260	mg/kg	<0.125	<0.150	<0.155	<0.150	<0.156	<0.156	<0.167	<0.171	<0.161	<0.154	<0.130	<0.144	<0.144	<0.151	<0.152	<0.138	<0.134	<0.131	<0.142	<0.129	<0.136	<0.162	<0.155	<0.143
Aroclor 1262	mg/kg	<0.125	<0.150	<0.155	<0.150	<0.156	<0.156	<0.167	<0.171	<0.161	<0.154	<0.130	<0.144	<0.144	<0.151	<0.152	<0.138	<0.134	<0.131	<0.142	<0.129	<0.136	<0.162	<0.155	<0.143
Aroclor 1268	mg/kg	<0.125	<0.150	<0.155	<0.150	<0.156	<0.156	<0.167	<0.171	<0.161	<0.154	<0.130	<0.144	<0.144	<0.151	<0.152	<0.138	<0.134	<0.131	<0.142	<0.129	<0.136	<0.162	<0.155	<0.143
Total PCBs	mg/kg	ND	0.472	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Petroleum Hydrocarbons	mg/kg	<41.1	187	61	52.7	<50.4	<51.5	<51.9	<52.3	<54.3	<49.4	365	58.3	<45.0	<48.0	<42.5	<40.6	<39.1	<40.8	<43.3	54.3	<46.8	<49.9	<46.1	<44.9
Volatile Organic Compounds (VOCs)																									
1,1,1,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0960	--	--	--	--	--	--	--
1,1,1-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0480	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0480	--	--	--	--	--	--	--
1,1,2-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0480	--	--	--	--	--	--	--
1,1-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0480	--	--	--	--	--	--	--
1,1-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0480	--	--	--	--	--	--	--
1,1-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0480	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0480	--	--	--	--	--	--	--
1,2,3-Trichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0480	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0480	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0480	--	--	--	--	--	--	--
1,2-Dibromo-3-Chloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.192	--	--	--	--	--	--	--
1,2-Dibromoethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0480	--	--	--	--	--	--	--
1,2-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0480	--	--	--	--	--	--	--
1,2-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0480	--	--	--	--	--	--	--
1,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0480	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0480	--	--	--	--	--	--	--
1,3-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0480	--	--	--	--	--	--	--
1,3-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0480	--	--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0480	--	--	--	--	--	--	--
1,4-Dioxane - Screen	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<4.80	--	--	--	--	--	--	--
2,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0960	--	--	--	--	--	--	--
2-Butanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.192	--	--	--	--	--	--	--
2-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0480	--	--	--	--	--	--	--
2-Hexanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.192	--	--	--	--	--	--	--
4-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0480	--	--	--	--	--	--	--
4-Isopropyltoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0480	--	--	--	--	--	--	--
4-Methyl-2-Pentanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.192	--	--	--	--	--	--	--
Acetone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.228	--	--	--	--	--	--	--
Benzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0480	--	--	--	--	--	--	--
Bromobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0480	--	--	--	--	--	--	--
Bromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0480	--	--	--	--	--	--	--
Bromodichloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0480	--	--	--	--	--	--	--
Bromoform	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0480	--	--	--	--	--	--	--
Bromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0960	--	--	--	--	--	--	--
Carbon Disulfide	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0480	--	--	--	--	--	--	--
Carbon Tetrachloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0480	--	--	--	--	--	--	--

Analyte	Precharacterization Cell	C08	C09	C09	C09	C09	C09	C09	C09	C09	C09	C09	C10	C10	C10	C10	C10	C10	C10	C10	C11	C11	C11	C11	C11
	Sample ID	C08S11S12	C09S01S02A	C09S02BS04A	C09S04BS05	C09S06	C09S07	C09S08	C09S09	C09S10	C09S11S12	C10S01S02A	C10S02BS04A	C10S04BS05	C10S06	C10S07	C10S08	C10S09	C10S10	C10S11S12	C11S01S02A	C11S02BS04A	C11S05	C11S06	C11S07
	Laboratory Work Order	1501166	1501111	1501111	1501111	1501111	1501111	1501111	1501111	1501111	1501111	1501058	1501058	1501058	1501058	1501111	1501111	1501111	1501111	1501111	1501031	1501058	1501058	1501058	1501058
	Soil Distinction	Natural	Fill	Fill	Fill	Natural	Natural	Natural	Natural	Natural	Natural	Fill	Fill	Fill	Natural	Natural	Natural	Natural	Natural	Natural	Fill	Fill	Natural	Natural	Natural
	Soil Type	Sand/Gravel				Clay	Clay	Clay	Clay	Clay	Clay				Clay	Clay	Sand/Gravel	Sand/Gravel	Sand/Gravel	Sand/Gravel			Clay	Sand/Gravel	Sand/Gravel
	Depth Interval (ft.)	34 - 38	0 - 3.33	3.33 - 6.66	6.66 - 10	10 - 12	14 - 16	19 - 21	24 - 26	29 - 31	34 - 38	0 - 3.33	3.33 - 6.66	6.66 - 9.75	10 - 12	14 - 16	19 - 21	24 - 26	29 - 31	34 - 38	0 - 3.3	3.33 - 6.66	8 - 10	14 - 16	19 - 21
	Sampling Date	1/9/2015	1/7/2015	1/7/2015	1/7/2015	1/7/2015	1/7/2015	1/7/2015	1/7/2015	1/7/2015	1/7/2015	1/6/2015	1/6/2015	1/6/2015	1/6/2015	1/7/2015	1/7/2015	1/7/2015	1/7/2015	1/7/2015	1/7/2015	1/5/2015	1/6/2015	1/6/2015	1/6/2015	1/6/2015
Preliminary Disposal Facility Category		MCP Regulated Type A	MCP Regulated Type B-1	Hazardous Material Type A	Hazardous Material Type B	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Restricted	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	Uncontaminated	Uncontaminated	MCP Regulated Type A	Uncontaminated	Uncontaminated	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A
Chlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0480	--	--	--	--	--	--	--
Chloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0960	--	--	--	--	--	--	--
Chloroform	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0480	--	--	--	--	--	--	--
Chloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0960	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0480	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0480	--	--	--	--	--	--	--
Dibromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0480	--	--	--	--	--	--	--
Dibromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0480	--	--	--	--	--	--	--
Dichlorodifluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0480	--	--	--	--	--	--	--
Diethyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0480	--	--	--	--	--	--	--
Di-isopropyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0480	--	--	--	--	--	--	--
Ethyl tertiary-butyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0480	--	--	--	--	--	--	--
Ethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0480	--	--	--	--	--	--	--
Hexachlorobutadiene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0480	--	--	--	--	--	--	--
Isopropylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0480	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0480	--	--	--	--	--	--	--
Methylene Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.192	--	--	--	--	--	--	--
Naphthalene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0480	--	--	--	--	--	--	--
n-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0480	--	--	--	--	--	--	--
n-Propylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0480	--	--	--	--	--	--	--
sec-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0480	--	--	--	--	--	--	--
Styrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0480	--	--	--	--	--	--	--
tert-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0480	--	--	--	--	--	--	--
Tertiary-amyl methyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0480	--	--	--	--	--	--	--
Tetrachloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0480	--	--	--	--	--	--	--
Tetrahydrofuran	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.192	--	--	--	--	--	--	--
Toluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0480	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0480	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0480	--	--	--	--	--	--	--
Trichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0480	--	--	--	--	--	--	--
Trichlorofluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0480	--	--	--	--	--	--	--
Vinyl Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0480	--	--	--	--	--	--	--
Xylene O	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0480	--	--	--	--	--	--	--
Xylene P,M	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0960	--	--	--	--	--	--	--
Xylenes (Total)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0960	--	--	--	--	--	--	--
Total VOCs	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.228	--	--	--	--	--	--	--
Volatile Organic Compounds - Low Level Analysis																									
1,1,1,2-Tetrachloroethane	mg/kg	<0.0042	<0.0034	<0.0060	<0.0045	<0.0039	<0.0046	<0.0057	<0.0050	<0.0060	<0.0031	<0.0053	<0.0068	<0.0041	<0.0035	<0.0044	<0.0037	--	<0.0050	<0.0047	<0.0049	<0.0056	<0.0040	<0.0040	<0.0037
1,1,1-Trichloroethane	mg/kg	<0.0042	<0.0034	<0.0060	<0.0045	<0.0039	<0.0046	<0.0057	<0.0050	<0.0060	<0.0031	<0.0053	<0.0068	<0.0041	<0.0035	<0.0044	<0.0037	--	<0.0050	<0.0047	<0.0049	<0.0056	<0.0040	<0.0040	<0.0037
1,1,2,2-Tetrachloroethane	mg/kg	<0.0017	<0.0013	<0.0024	<0.0018	<0.0015	<0.0018	<0.0023	<0.0020	<0.0024	<0.0012	<0.0021	<0.0027	<0.0017	<0.0014	<0.0018	<0.0015	--	<0.0020	<0.0019	<0.0020	<0.0023	<0.0016	<0.0016	<0.0015
1,1,2-Trichloroethane	mg/kg	<0.0042	<0.0034	<0.0060	<0.0045	<0.0039	<0.0046	<0.0057	<0.0050	<0.0060	<0.0031	<0.0053	<0.0068	<0.0041	<0.0035	<0.0044	<0.0037	--	<0.0050	<0.0047	<0.0049	<0.0056	<0.0040	<0.0040	<0.0037
1,1-Dichloroethane	mg/kg	<0.0042	<0.0034	<0.0060	<0.0045	<0.0039	<0.0046	<0.0057	<0.0050	<0.0060	<0.0031	<0.0053	<0.0068	<0.0041	<0.0035	<0.0044	<0.0037	--	<0.0050	<0.0047	<0.0049	<0.0056	<0.0040	<0.0040	<0.0037
1,1-Dichloroethene	mg/kg	<0.0042	<0.0034	<0.0060	<0.0045	<0.0039	<0.0046	<0.0057	<0.0050	<0.0060	<0.0031	<0.0053	<0.0068	<0.0041	<0.0035	<0.0044	<0.0037	--	<0.0050	<0.0047	<0.0049	<0.0056	<0.0040	<0.0040	<0.0037
1,1-Dichloropropene	mg/kg	<0.0042	<0.0034	<0.0060	<0.0045	<0.0039	<0.0046	<0.0057	<0.0050	<0.0060	<0.0031	<0.0053	<0.0068	<0.0041	<0.0035	<0.0044	<0.0037	--	<0.0050	<0.0047	<0.0049	<0.0056	<0.0040	<0.0040	<0.0037
1,2,3-Trichlorobenzene	mg/kg	<0.0042	<0.0034	<0.0060	<0.0045	<0.0039	<0.0046	<0.0057	<0.0050	<0.0060	<0.0031	<0.0053	<0.0068	<0.0041	<0.0035	<0.0044	<0.0037	--	<0.0050	<0.0047	<0.0049	<0.0056	<0.0040	<0.0040	<0.0037
1,2,3-Trichloropropane	mg/kg	<0.0042	<0.0034	<0.0060	<0.0045	<0.0039	<0.0046	<0.0057	<0.0050	<0.0060	<0.0031	<0.0053	<0.0068	<0.0041	<0.0035	<0.0044	<0.0037	--	<0.0050	<0.0047	<0.0049	<0.0056	<0.0040	<0.0040	<0.0037
1,2,4-Trichlorobenzene	mg/kg	<0.0042	<0.0034	<0.0060	<0.0045	<0.0039	<0.0046	<0.0057	<0.0050	<0.0060	<0.0031	<0.0053	<0.0068	<0.0041	<0.0035	<0.0044	<0.0037	--	<0.0050	<0.0047	<0.0049	<0.0056	<0.0040	<0.0040	<0.0037
1,2,4-Trimethylbenzene	mg/kg	<0.0042	<0.0034	<0.0060	<0.0045	<0.0039	<0.0046	<0.0057	<0.0050	<0.0060	<0.0031	<0.0053	<0.0068	<0.0041	<0.0035	<0.0044	<0.0037	--	<0.0050	<0.0047	<0.0049	<0.0056	<0.0040	<0.0040	<0.0037
1,2-Dibromo-3-Chloropropane	mg/kg	<0.0042	<0.0034	<0.0060	<0.0045	<0.0039	<0.0046	<0.0057	<0.0050	<0.0060	<0.0031	<0.0053	<0.0068	<0.0041	<0.0035	<0.0044	<0.0037	--	<0.0050	<0.0047	<0.0049	<0.0056	<0.0040	<0.0040	<0.0037
1,2-Dibromoethane	mg/kg	<0.0042	<0.0034	<0.0060	<0.0045	<0.0039	<0.0046	<0.0057	<0.0050	<0.0060	<0.0031	<0.0053	<0.0068	<0.0041	<0.0035	<0.0044	<0.0037	--	<0.0050	<0.0047	<0.0049	<0.0056	<0.0040	<0.0040	<0.0037
1,2-Dichlorobenzene	mg/kg	<0.0042	<0.0034	<0.0060	<0.0045	<0.0039	<0.0046	<0.0057	<0.0050	<0.0060	<0.0031	<0.0053	<0.0068	<0.0041	<0.0035	<0.0044	<0.0037	--	<0.0050	<0.0047	<0.0049	<0.0056	<0.0040	<0.0040	<0.0037
1,2-Dichloroethane	mg/kg	<0.0042	<0.0034	<0.0060	<0.0045	<0.0039	<0.0046	<0.0057	<0.0050	<0.0060	<0.0031	<0.0053	<0.0068	<0.0041	<0.0035	<0.0044	<0.0037	--	<0.0050	<0.0047	<0.0049	<0.0056	<0.0040	<0.0040	<0.0037
1,2-Dichloropropane	mg/kg	<0.0042	<0.0034	<0.0060	<0.0045	<0.0039	<0.0046	<0.0057	<0.0050	<0.0060	<0.0031	<0.0053	<0.0068	<0.0041	<0.0035	<0.0044	<0.0037	--	<0.0050	<0.0047	<0.0049	<0.0056	<0.0040	<0.0040	<0.0037
1,3,5-Trimethylbenzene	mg/kg	<0.0042	<0.0034	<0.0060	<0.0045	<0.0039	<0.0046	<0.0057	<0.0050	<0.0060	<0.0031	<0.0053	<0.0068	<0.0041	<0.0035	<0.0044	<0.0037	--	<0.0050	<0.0047	<0.0049	<0.0056	<0.0040	<0.0040	<0.0037
1,3-Dichlorobenzene	mg/kg	<0.0042	<0.0034	<0.0060	<0.0045	<0.0039	<0.0046	<0.0057	<0.0050	<0.0060	<0.0031	<0.0053	<0.0068	<0.0041	<0.0035	<0.0044	<0.0037	--	<0.0050	<0.0047	<0.0049	<0.0056	<0.0040	<0.0040	<0.0037
1,3-Dichloropropane	mg/kg	<0.0042	<0.0034	<0.0060	<0.0045	<0.0039	<0.0046	<0.0057	<0.0050	<0.0060	<0.0031	<0.0053	<0.0068	<0.0041	<0.0035	<0.0044	<0.0037	--	<0.0050	<0.0047	<0.0049	<0.0056	<0.0040	<0.0040	<0.0037
1,4-Dichlorobenzene	mg/kg	<0.0042	<0.0034	<0.0060	<0.0045	<0.0039	<0.0046	<0.0057	<0.0050	<0.0060	<0.0031	<0.0053	<0.0068	<0.0041	<0.0035	<0.0044	<0.0037	--	<0.0050	<0.0047	<0.0049	<0.0056	<0.0040	<0.0040	<0.0037
1,4-Dioxane	mg/kg	<0.0838	<0.0673	<0.120	<0.0890	<0.0773	<0.0921	<0.114	<0.0990	<0.120	<0.0612	<0.106	<0.137	<0.0828	<0.0701	<0.0883	<0.0748	--	<0.0995	<0.0950	<0.0977	<0.113	<0.0792	<0.0803	<0.0737
2,2-Dichloropropane	mg/kg	<0.0042	<0.0034	<0.0060	<0.0045	<0.0039	<0.0046	<0.0057	<0.0050	<0.0060	<0.0031	<0.0053	<0.0068	<0.0041	<0.0035	<0.0044	<0.0037	--	<0.0050	<0.0047	<0.0049	<0.0056	<0.0040	<0.0040	<0.0037
2-Butanone	mg/kg	<0.0084	<0.0067	<0.0120	<0.0089	<0.0077	<0.0092	<0.0114	<0.0099	<0.0120	<0.0061	<0.0106	<0.0137	<0.0083	<0.0070	<0.0088	<0.0075	--	<0.0099	<0.0095	<0.0098	<0.0113	<0.0079	<0.0080	<0.0074
2-Chlorotoluene	mg/kg	<0.0042	<0.0034	<0.0060	<0.0045	<0.0039	<0.0046	<0.0057	<0.0050	<0.0060	<0.0031	<0.0053	<0.0068	<0.0041	<0.0035	<0.0044	<0.0037	--	<0.0050	<0.0047	<0.0049	<0.0056	<0.0040	<0.0040	<0.0037
2-Hexanone	mg/kg	<0.0084	<0.0067	<0.0120	<0.0089	<0.0077	<0.0092	<0.0114	<0.0099	<0.0120	<0.0061	<0.0106	<0.0137	<0.0083	<0.0070	<0.0088	<0.0075	--	<0.0099	<0.0095	<0.0098	<0.0113	<0.0079	<0.0080	<0.0074
4-Chlorotoluene	mg/kg	<0.0042	<0.0034	<0.0060	<0.0045	<0.0039	<0.0046	<0.0057	<0.0050	<0.0060	<0.0031	<0.0053	<0.0068	<0.0041	<0.0035	<0.0044	<0.0037	--	<0.0050	<0.0047	<0.0049	<0.0056	<0.0040	<0.0040	<0.0037
4-Isopropyltoluene	mg/kg	<0.0042	<0.0034	<0.0060	<0.0045	<0.0039	<0.0046	<0.0057	<0.0050	<0.0060	<0.0031	<0.0053	<0.0068	<0.0041	<0.0035	<0.0044	<0.0037	--	<0.0050	<0.0047	<0.0049	<0.0056	<0.0040	<0.0040	<0.0037
4-Methyl-2-Pentanone	mg/kg	<0.0084	<0.0067	<0.0120	<0.0089	<0.0077	<0.0092	<0.0114	<0.0099	<0.0120	<0.0061	<0.0106	<0.0137	<0.0083	<0.0070	<0.0088	<0.0075	--	<0.0099	<0.0095	<0.0098	<0.0113	<0.0079	<0.0080	<0.0074
Acetone	mg/kg	0.0086	0.0094	<0.0120	0.0173	0.0227	<0.0092	0.018	<0.0099	<0.0120	0.0126	<0.0106	<0.0137	0.0142	0.0193	<0.0088	<0.0075	--	<0.0099	<0.0095	<0.0098	0.0404	0.0353	0.0105	0.0089
Benzene	mg/kg	<0.0042	<0.0034	<0.0060	<0.0045	<0.0039	<0.0046	<0.0057	<0.0050	<0.0060	<0.0031	<0.0053	<0.0068	<0.0041	<0.0035	<0.0044	<0.0037	--	<0.0050	<0.0047	<0.0049	<0.0056	<0.0040	<0.0040	<0.0037
Bromobenzene	mg/kg	<0.0042	<0.0034	<0.0060	<0.0045	<0.0039	<0.0046	<0.0057	<0.0050	<0.0060	<0.0031	<0.0053	<0.0068	<0.0041	<0.0035	<0.0044	<0.0037	--	<0.0050	<0.0047	<0.0049	<0.0056	<0.0040	<0.0040	<0.0037
Bromochloromethane	mg/kg	<0.0042	<0.0034	<0.0060	<0.0045	<0.0039	<0.0046	<0.0057	<0.0050	<0.0060	<0.0031	<0.0053	<0.0068	<0.0041	<0.0035	<0.0044	<0.0037	--	<0.0050	<0.0047	<0.0049	<0.0056	<0.0040	<0.0040	<0.0037
Bromodichloromethane	mg/kg	<0.0042	<0.0034	<0.0060	<0.0045	<0.0039	<0.0046	<0.0057	<0.0050	<0.0060	<0.0031	<0.0053	<0.0068	<0.0041	<0.0035	<0.0044	<0.0037	--	<0.0050	<0.0047	<0.0049	<0.0056	<0.0040	<0.0040	<0.0037
Bromoform	mg/kg	<0.0042	<0.0034	<0.0060	<0.0045	<0.0039	<0.0046	<0.0057	<0.0050	<0.0060	<0.0031	<0.0053	<0.0068	<0.0041	<0.0035	<0.0044	<0.0037	--	<0.0050	<0.0047	<0.0049	<0.0056	<0.0040	<0.0040	<0.0037
Bromomethane	mg/kg	<0.0084	<0.0067	<0.0120	<0.0089	<0.0077	<0.0092	<0.0114	<0.0099	<0.0120	<0.0061	<0.0106	<0.0137	<0.0083	<0.0070	<0.0088	<0.0075	--	<0.0099	<0.0095	<0.0098	<0.0113	<0.0079	<0.0080	<0.0074
Carbon Disulfide	mg/kg	<0.0042	<0.0034	<0.0060	<0.0045	<0.0039	<0.0046	<0.0057	<0.0050	<0.0060	<0.0031	<0.0053	<0.0068	<0.0041	<0.0035	<0.0044	<0.0037	--	<0.0050	<0.0047	<0.0049	<0.0056	<0.0040	<0.0040	<0.0037
Carbon Tetrachloride	mg/kg	<0.0042	<0.0034	<0.0060	<0.0045	<0.0039	<0.0046	<0.0057	<0.0050	<0.0060	<0.0031	<0.0053	<0.0068	<0.0041	<0.0035	<0.0044	<0.0037	--	<0.0050	<0.0047	<0.0049	<0.0056	<0.0040	<0.0040	<0.0037
Chlorobenzene	mg/kg	<0.0042	<0.0034	<0.0060	<0.0045	<0.0039	<0.0046	<0.0057	<0.0050	<0.0060	<0.0031	<0.0053	<0.0068	<0.0041	<0.0035	<0.0044	<0.0037	--	<0.0050	<0.0047	<0.0049	<0.0056	<0.0040	<0.0040	<0.0037
Chloroethane	mg/kg	<0.0084	<0.0067	<0.0120	<0.0089	<0.0077	<0.0092	<0.0114	<0.0099	<0.0120	<0.0061	<0.0106	<0.0137	<0.0083	<0.0070	<0.0088	<0.0075	--	<0.0099	<0.0095	<0.0098	<0.0113	<0.0079	<0.0080	<0.0074
Chloroform	mg/kg	<0.0042	<0.0034	<0.0060	<0.0045	<0.0039	<0.0046	<0.0057	<0.0050	<0.0060	<0.0031	<0.0053	<0.0068	<0.0041	<0.0035	<0.0044	<0.0037	--	<0.0050	<0.0047	<0.0049	<0.0056	<0.0040	<0.0040	<0.0037
Chloromethane	mg/kg	<0.0084	<0.0067	<0.0120	<0.0089	<0.0077	<0.0092	<0.0114	<0.0099	<0.0120	<0.0061	<0.0106	<0.0137	<0.0083	<0.0070	<0.0088	<0.0075	--	<0.0099	<0.0095	<0.0098	<0.0113	<0.0079	<0.0080	<0.0074
cis-1,2-Dichloroethene	mg/kg	<0.0042	<0.0034	<0.0060	<0.0045	<0.0039	<0.0046	<0.0057	<0.0050	<0.0060	<0.0031	<0.0053	<0.0068	<0.0041	<0.0035	<0.0044	<0.0037	--	<0.0050	<0.0047	<0.0049	<0.0056	<0.0040	<0.0040	<0.0037
cis-1,3-Dichloropropene	mg/kg	<0.0042	<0.0034	<0.0060	<0.0045	<0.0039	<0.0046	<0.0057	<0.0050	<0.0060	<0.0031	<0.0053	<0.0068	<0.0041	<0.0035	<0.0044	<0.0037	--	<0.0050	<0.0047	<0.0049	<0.0056	<0.0040	<0.0040	<0.0037
Dibromochloromethane	mg/kg	<0.0017	<0.0013	<0.0024	<0.0018	<0.0015	<0.0018	<0.0023	<0.0020	<0.0024	<0.0012	<0.0021	<0.0027	<0.0017	<0.0014	<0.0018	<0.0015	--	<0.0020	<0.0019	<0.0020	<0.0023	<0.0016	<0.0016	<0.0015
Dibromomethane	mg/kg	<0.0042	<0.0034	<0.0060	<0.0045	<0.0039	<0.0046	<0.0057	<0.0050	<0.0060	<0.0031	<0.0053	<0.0068	<0.0041	<0.0035	<0.0044	<0.0037	--	<0.0050	<0.0047	<0.0049	<0.0056	<0.0040	<0.0040	<0.0037
Dichlorodifluoromethane	mg/kg	<0.0084	<0.0067	<0.0120	<0.0089	<0.0077	<0.0092	<0.0114	<0.0099	<0.0120	<0.0061	<0.0106	<0.0137	<0.0083	<0.0070	<0.0088	<0.0075	--	<0.0099	<0.0095	<0.0098	<0.0113	<0.0079	<0.0080	<0.0074
Diethyl Ether	mg/kg	<0.0042	<0.0034	<0.0060	<0.0045	<0.0039	<0.0046	<0.0057	<0.0050	<0.0060	<0.0031	<0.0053	<0.0068	<0.0041	<0.0035	<0.0044	<0.0037	--	<0.0050	<0.0047	<0.0049	<0.0056	<0.0040	<0.0040	<0.0037
Di-isopropyl ether	mg/kg	<0.0042	<0.0034	<0.0060	<0.0045	<0.0039	<0.0046	<0.0057	<0.0050	<0.0060	<0.0031	<0.0053	<0.0068	<0.0041	<0.0035	<0.0044	<0.0037	--	<0.0050	<0.0047	<0.0049	<0.0056	<0.0040	<0.0040	<0.0037
Ethyl tertiary-butyl ether	mg/kg	<0.0042	<0.0034	<0.0060	<0.0045	<0.0039	<0.0046	<0.0057	<0.0050	<0.0060	<0.0031	<0.0053	<0.0068	<0.0041	<0.0035	<0.0044	<0.0037	--	<0.0050	<0.0047	<0.0049	<0.0056	<0.0040	<0.0040	<0.0037
Ethylbenzene	mg/kg	<0.0042	<0.0034	<0.0060	<0.0045	<0.0039	<0.0046	<0.0057	<0.0050	<0.0060	<0.0031	<0.0053	<0.0068	<0.0041	<0.0035	<0.0044	<0.0037	--	<0.0050	<0.0047	<0.0049	<0.0056	<0.0040	<0.0040	<0.0037
Hexachlorobutadiene	mg/kg	<0.0042	<0.0034	<0.0060	<0.0045	<0.0039	<0.0046	<0.0057	<0.0050	<0.0060	<0.0031	<0.0053	<0.0068	<0.0041	<0.0035	<0.0044	<0.0037	--	<0.0050	<0.0047	<0.0049	<0.0056	<0.0040	<0.0040	<0.0037
Isopropylbenzene	mg/kg	<0.0042	<0.0034	<0.0060	<0.0045	<0.0039	<0.0046	<0.0057	<0.0050	<0.0060	<0.0031	<0.0053	<0.0068	<0.0041	<0.0035	<0.0044	<0.0037	--	<0.0050	<0.0047	<0.0049	<0.0056	<0.0040	<0.0040	<0.0037
Methyl tert-Butyl Ether	mg/kg	<0.0042	<0.0034	<0.0060	<0.0045	<0.0039	<0.0046	<0.0057	<0.0050	<0.0060	<0.0031	<0.0053	<0.0068	<0.0041	<0.0035	<0.0044	<0.0037	--	<0.0050	<0.0047	<0.0049	<0.0056	<0.0040	<0.0040	<0.0037
Methylene Chloride	mg/kg	<0.0084	<0.0067	<0.0120	<0.0089	<0.0077	<0.0092	<0.0114	<0.0099	<0.0120	<0.0061	<0.0106	<0.0137	<0.0083	<0.0070	<0.0088	<0.0075	--	<0.0099	<0.0095	<0.0098	<0.0113	<0.0079	<0.0080	<0.0074
Naphthalene	mg/kg	<0.0042	<0.0034	<0.0060	<0.0045	<0.0039	<0.0046	<0.0057	<0.0050	<0.0060	<0.0031	<0.0053	<0.0068	<0.0041	<0.0035	<0.0044	<0.0037	--	<0.0050	<0.0047	<0.0049	<0.0056	<0.0040	<0.0040	<0.0037
n-Butylbenzene	mg/kg	<0.0042	<0.0034	<0.0060	<0.0045	<0.0039	<0.0046	<0.0057	<0.0050	<0.0060	<0.0031	<0.0053	<0.0068	<0.0041	<0.0035	<0.0044	<0.0037	--	<0.0050	<0.0047	<0.0049	<0.0056	<0.0040	<0.0040	<0.0037
n-Propylbenzene	mg/kg	<0.0042	<0.0034	<0.0060	<0.0045	<0.0039	<0.0046	<0.0057	<0.0050	<0.0060	<0.0031	<0.0053	<0.0068	<0.0041	<0.0035	<0.0044	<0.0037	--	<0.0050	<0.0047	<0.0049	<0.0056	<0.0040	<0.0040	<0.0037
sec-Butylbenzene	mg/kg	<0.0042	<0.0034	<0.0060	<0.0045	<0.0039	<0.0046	<0.0057	<0.0050	<0.0060	<0.0031	<0.0053	<0.0068	<0.0041	<0.0035	<0.0044	<0.0037	--	<0.0050	<0.0047	<0.0049	<0.0056	<0.0040	<0.0040	<0.0037

Table 1
Soil Precharacterization Data

Wynn Resort Casino
Everett, Massachusetts

Analyte	Precharacterization Cell	C08	C09	C09	C09	C09	C09	C09	C09	C09	C09	C09	C10	C10	C10	C10	C10	C10	C10	C10	C11	C11	C11	C11	C11
	Sample ID	C08S11S12	C09S01S02A	C09S02BS04A	C09S04BS05	C09S06	C09S07	C09S08	C09S09	C09S10	C09S11S12	C09S12	C10S01S02A	C10S02BS04A	C10S04BS05	C10S06	C10S07	C10S08	C10S09	C10S10	C10S11S12	C11S01S02A	C11S02BS04A	C11S05	C11S06	C11S07
	Laboratory Work Order	1501166	1501111	1501111	1501111	1501111	1501111	1501111	1501111	1501111	1501111	1501111	1501058	1501058	1501058	1501058	1501111	1501111	1501111	1501111	1501111	1501031	1501058	1501058	1501058	1501058
	Soil Distinction	Natural	Fill	Fill	Fill	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Fill	Fill	Fill	Natural	Natural	Natural	Natural	Natural	Natural	Fill	Fill	Natural	Natural	Natural
	Soil Type	Sand/Gravel				Clay	Clay	Clay	Clay	Clay	Clay	Clay				Clay	Clay	Sand/Gravel	Sand/Gravel	Sand/Gravel	Sand/Gravel			Clay	Sand/Gravel	Sand/Gravel
	Depth Interval (ft.)	34 - 38	0 - 3.33	3.33 - 6.66	6.66 - 10	10 - 12	14 - 16	19 - 21	24 - 26	29 - 31	34 - 38	34 - 38	0 - 3.33	3.33 - 6.66	6.66 - 9.75	10 - 12	14 - 16	19 - 21	24 - 26	29 - 31	34 - 38	0 - 3.3	3.33 - 6.66	8 - 10	14 - 16	19 - 21
	Sampling Date	1/9/2015	1/7/2015	1/7/2015	1/7/2015	1/7/2015	1/7/2015	1/7/2015	1/7/2015	1/7/2015	1/7/2015	1/7/2015	1/6/2015	1/6/2015	1/6/2015	1/6/2015	1/7/2015	1/7/2015	1/7/2015	1/7/2015	1/7/2015	1/7/2015	1/5/2015	1/6/2015	1/6/2015	1/6/2015	1/6/2015
Preliminary Disposal Facility Category		MCP Regulated Type A	MCP Regulated Type B-1	Hazardous Material Type A	Hazardous Material Type B	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Restricted	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	Uncontaminated	Uncontaminated	MCP Regulated Type A	Uncontaminated	Uncontaminated	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A
Styrene	mg/kg	<0.0042	<0.0034	<0.0060	<0.0045	<0.0039	<0.0046	<0.0057	<0.0050	<0.0060	<0.0031	<0.0053	<0.0068	<0.0041	<0.0035	<0.0044	<0.0037	--	<0.0050	<0.0047	<0.0049	<0.0056	<0.0040	<0.0040	<0.0037
tert-Butylbenzene	mg/kg	<0.0042	<0.0034	<0.0060	<0.0045	<0.0039	<0.0046	<0.0057	<0.0050	<0.0060	<0.0031	<0.0053	<0.0068	<0.0041	<0.0035	<0.0044	<0.0037	--	<0.0050	<0.0047	<0.0049	<0.0056	<0.0040	<0.0040	<0.0037
Tertiary-amyl methyl ether	mg/kg	<0.0042	<0.0034	<0.0060	<0.0045	<0.0039	<0.0046	<0.0057	<0.0050	<0.0060	<0.0031	<0.0053	<0.0068	<0.0041	<0.0035	<0.0044	<0.0037	--	<0.0050	<0.0047	<0.0049	<0.0056	<0.0040	<0.0040	<0.0037
Tetrachloroethene	mg/kg	<0.0042	<0.0034	<0.0060	<0.0045	<0.0039	<0.0046	<0.0057	<0.0050	<0.0060	<0.0031	<0.0053	<0.0068	<0.0041	<0.0035	<0.0044	<0.0037	--	<0.0050	<0.0047	<0.0049	<0.0056	<0.0040	<0.0040	<0.0037
Tetrahydrofuran	mg/kg	<0.0042	<0.0034	<0.0060	<0.0045	<0.0039	<0.0046	<0.0057	<0.0050	<0.0060	<0.0031	<0.0053	<0.0068	<0.0041	<0.0035	<0.0044	<0.0037	--	<0.0050	<0.0047	<0.0049	<0.0056	<0.0040	<0.0040	<0.0037
Toluene	mg/kg	<0.0042	<0.0034	<0.0060	<0.0045	<0.0039	<0.0046	<0.0057	<0.0050	<0.0060	<0.0031	<0.0053	<0.0068	<0.0041	<0.0035	<0.0044	<0.0037	--	<0.0050	<0.0047	<0.0049	<0.0056	<0.0040	<0.0040	<0.0037
trans-1,2-Dichloroethene	mg/kg	<0.0042	<0.0034	<0.0060	<0.0045	<0.0039	<0.0046	<0.0057	<0.0050	<0.0060	<0.0031	<0.0053	<0.0068	<0.0041	<0.0035	<0.0044	<0.0037	--	<0.0050	<0.0047	<0.0049	<0.0056	<0.0040	<0.0040	<0.0037
trans-1,3-Dichloropropene	mg/kg	<0.0042	<0.0034	<0.0060	<0.0045	<0.0039	<0.0046	<0.0057	<0.0050	<0.0060	<0.0031	<0.0053	<0.0068	<0.0041	<0.0035	<0.0044	<0.0037	--	<0.0050	<0.0047	<0.0049	<0.0056	<0.0040	<0.0040	<0.0037
Trichloroethene	mg/kg	<0.0042	<0.0034	<0.0060	<0.0045	<0.0039	<0.0046	<0.0057	<0.0050	<0.0060	<0.0031	<0.0053	<0.0068	<0.0041	<0.0035	<0.0044	<0.0037	--	<0.0050	<0.0047	<0.0049	<0.0056	<0.0040	<0.0040	<0.0037
Trichlorofluoromethane	mg/kg	<0.0042	<0.0034	<0.0060	<0.0045	<0.0039	<0.0046	<0.0057	<0.0050	<0.0060	<0.0031	<0.0053	<0.0068	<0.0041	<0.0035	<0.0044	<0.0037	--	<0.0050	<0.0047	<0.0049	<0.0056	<0.0040	<0.0040	<0.0037
Vinyl Chloride	mg/kg	<0.0084	<0.0067	<0.0120	<0.0089	<0.0077	<0.0092	<0.0114	<0.0099	<0.0120	<0.0061	<0.0106	<0.0137	<0.0083	<0.0070	<0.0088	<0.0075	--	<0.0099	<0.0095	<0.0098	<0.0113	<0.0079	<0.0080	<0.0074
Xylene O	mg/kg	<0.0042	<0.0034	<0.0060	<0.0045	<0.0039	<0.0046	<0.0057	<0.0050	<0.0060	<0.0031	<0.0053	<0.0068	<0.0041	<0.0035	<0.0044	<0.0037	--	<0.0050	<0.0047	<0.0049	<0.0056	<0.0040	<0.0040	<0.0037
Xylene P,M	mg/kg	<0.0084	<0.0067	<0.0120	<0.0089	<0.0077	<0.0092	<0.0114	<0.0099	<0.0120	<0.0061	<0.0106	<0.0137	<0.0083	<0.0070	<0.0088	<0.0075	--	<0.0099	<0.0095	<0.0098	<0.0113	<0.0079	<0.0080	<0.0074
Xylenes (Total)	mg/kg	<0.0084	<0.0067	<0.0120	<0.0089	<0.0077	<0.0092	<0.0114	<0.0099	<0.0120	<0.0061	<0.0106	<0.0137	<0.0083	<0.0070	<0.0088	<0.0075	--	<0.0099	<0.0095	<0.0098	<0.0113	<0.0079	<0.0080	<0.0074
Total VOCs (Low Level)	mg/kg	0.0086	0.0094	ND	0.0173	0.0227	ND	0.018	ND	ND	0.0126	ND	ND	ND	0.0142	0.0193	ND	ND	ND	ND	ND	0.0404	0.0353	0.0105	0.0089
Semi-Volatile Organic Compounds																										
1,2,4-Trichlorobenzene	mg/kg	<0.863	<1.00	<1.02	<0.943	<1.04	<1.04	<1.09	<1.12	<1.15	<1.02	<0.885	<0.878	<0.826	<1.01	<0.955	<0.884	<0.900	<0.824	<0.929	<0.893	<0.988	<1.01	<0.902	<0.876
1,2-Dichlorobenzene	mg/kg	<0.863	<1.00	<1.02	<0.943	<1.04	<1.04	<1.09	<1.12	<1.15	<1.02	<0.885	<0.878	<0.826	<1.01	<0.955	<0.884	<0.900	<0.824	<0.929	<0.893	<0.988	<1.01	<0.902	<0.876
1,3-Dichlorobenzene	mg/kg	<0.863	<1.00	<1.02	<0.943	<1.04	<1.04	<1.09	<1.12	<1.15	<1.02	<0.885	<0.878	<0.826	<1.01	<0.955	<0.884	<0.900	<0.824	<0.929	<0.893	<0.988	<1.01	<0.902	<0.876
1,4-Dichlorobenzene	mg/kg	<0.433	<0.504	<0.509	<0.473	<0.524	<0.524	<0.545	<0.559	<0.578	<0.510	<0.444	<0.440	<0.414	<0.509	<0.479	<0.443	<0.451	<0.413	<0.466	<0.448	<0.496	<0.509	<0.452	<0.440
2,4,5-Trichlorophenol	mg/kg	<0.863	<1.00	<1.02	<0.943	<1.04	<1.04	<1.09	<1.12	<1.15	<1.02	<0.885	<0.878	<0.826	<1.01	<0.955	<0.884	<0.900	<0.824	<0.929	<0.893	<0.988	<1.01	<0.902	<0.876
2,4,6-Trichlorophenol	mg/kg	<0.863	<1.00	<1.02	<0.943	<1.04	<1.04	<1.09	<1.12	<1.15	<1.02	<0.885	<0.878	<0.826	<1.01	<0.955	<0.884	<0.900	<0.824	<0.929	<0.893	<0.988	<1.01	<0.902	<0.876
2,4-Dichlorophenol	mg/kg	<0.863	<1.00	<1.02	<0.943	<1.04	<1.04	<1.09	<1.12	<1.15	<1.02	<0.885	<0.878	<0.826	<1.01	<0.955	<0.884	<0.900	<0.824	<0.929	<0.893	<0.988	<1.01	<0.902	<0.876
2,4-Dimethylphenol	mg/kg	<0.863	<1.00	<1.02	<0.943	<1.04	<1.04	<1.09	<1.12	<1.15	<1.02	<0.885	<0.878	<0.826	<1.01	<0.955	<0.884	<0.900	<0.824	<0.929	<0.893	<0.988	<1.01	<0.902	<0.876
2,4-Dinitrophenol	mg/kg	<4.33	<5.04	<5.09	<4.73	<5.24	<5.24	<5.45	<5.59	<5.78	<5.10	<4.44	<4.40	<4.14	<5.09	<4.79	<4.43	<4.51	<4.13	<4.66	<4.48	<4.96	<5.09	<4.52	<4.40
2,4-Dinitrotoluene	mg/kg	<0.863	<1.00	<1.02	<0.943	<1.04	<1.04	<1.09	<1.12	<1.15	<1.02	<0.885	<0.878	<0.826	<1.01	<0.955	<0.884	<0.900	<0.824	<0.929	<0.893	<0.988	<1.01	<0.902	<0.876
2,6-Dinitrotoluene	mg/kg	<0.863	<1.00	<1.02	<0.943	<1.04	<1.04	<1.09	<1.12	<1.15	<1.02	<0.885	<0.878	<0.826	<1.01	<0.955	<0.884	<0.900	<0.824	<0.929	<0.893	<0.988	<1.01	<0.902	<0.876
2-Chloronaphthalene	mg/kg	<0.863	<1.00	<1.02	<0.943	<1.04	<1.04	<1.09	<1.12	<1.15	<1.02	<0.885	<0.878	<0.826	<1.01	<0.955	<0.884	<0.900	<0.824	<0.929	<0.893	<0.988	<1.01	<0.902	<0.876
2-Chlorophenol	mg/kg	<0.863	<1.00	<1.02	<0.943	<1.04	<1.04	<1.09	<1.12	<1.15	<1.02	<0.885	<0.878	<0.826	<1.01	<0.955	<0.884	<0.900	<0.824	<0.929	<0.893	<0.988	<1.01	<0.902	<0.876
2-Methylnaphthalene	mg/kg	<0.863	<1.00	<1.02	<0.943	<1.04	<1.04	<1.09	<1.12	<1.15	<1.02	<0.885	<0.878	<0.826	<1.01	<0.955	<0.884	<0.900	<0.824	<0.929	<0.893	<0.988	<1.01	<0.902	<0.876
2-Methylphenol	mg/kg	<0.863	<1.00	<1.02	<0.943	<1.04	<1.04	<1.09	<1.12	<1.15	<1.02	<0.885	<0.878	<0.826	<1.01	<0.955	<0.884	<0.900	<0.824	<0.929	<0.893	<0.988	<1.01	<0.902	<0.876
2-Nitrophenol	mg/kg	<0.863	<1.00	<1.02	<0.943	<1.04	<1.04	<1.09	<1.12	<1.15	<1.02	<0.885	<0.878	<0.826	<1.01	<0.955	<0.884	<0.900	<0.824	<0.929	<0.893	<0.988	<1.01	<0.902	<0.876
3,3'-Dichlorobenzidine	mg/kg	<1.73	<2.01	<2.03	<1.89	<2.09	<2.09	<2.18	<2.23	<2.31	<2.03	<1.77	<1.76	<1.65	<2.03	<1.91	<1.77	<1.80	<1.65	<1.86	<1.79	<1.98	<2.03	<1.81	<1.76
3+4-Methylphenol	mg/kg	<1.73	<2.01	<2.03	<1.89	<2.09	<2.09	<2.18	<2.23	<2.31	<2.03	<1.77	<1.76	<1.65	<2.03	<1.91	<1.77	<1.80	<1.65	<1.86	<1.79	<1.98	<2.03	<1.81	<1.76
4-Bromophenyl-phenylether	mg/kg	<0.863	<1.00	<1.02	<0.943	<1.04	<1.04	<1.09	<1.12	<1.15	<1.02	<0.885	<0.878	<0.826	<1.01	<0.955	<0.884	<0.900	<0.824	<0.929	<0.893	<0.988	<1.01	<0.902	<0.876
4-Chloroaniline	mg/kg	<1.73	<2.01	<2.03	<1.89	<2.09	<2.09	<2.18	<2.23	<2.31	<2.03	<1.77	<1.76	<1.65	<2.03	<1.91	<1.77	<1.80	<1.65	<1.86	<1.79	<1.98	<2.03	<1.81	<1.76
4-Nitrophenol	mg/kg	<4.33	<5.04	<5.09	<4.73	<5.24	<5.24	<5.45	<5.59	<5.78	<5.10	<4.44	<4.40	<4.14	<5.09	<4.79	<4.43	<4.51	<4.13	<4.66	<4.48	<4.96	<5.09	<4.52	<4.40
Acenaphthene	mg/kg	<0.863	<1.00	<1.02	<0.943	<1.04	<1.04	<1.09	<1.12	<1.15	<1.02	<0.885	<0.878	<0.826	<1.01	<0.955	<0.884	<0.900	<0.824	<0.929	<0.893	<0.988	<1.01	<0.902	<0.876
Acenaphthylene	mg/kg	<0.863	<1.00	<1.02	<0.943	<1.04	<1.04	<1.09	<1.12	<1.15	<1.02	<0.885	<0.878	<0.826	<1.01	<0.955	<0.884	<0.900	<0.824	<0.929	<0.893	<0.988	<1.01	<0.902	<0.876
Acetophenone	mg/kg	<1.73	<2.01	<2.03	<1.89	<2.09	<2.09	<2.18	<2.23	<2.31	<2.03	<1.77	<1.76	<1.65	<2.03	<1.91	<1.77	<1.80	<1.65	<1.86	<1.79	<1.98	<2.03	<1.81	<1.76
Aniline	mg/kg	<4.33	<5.04	<5.09	<4.73	<5.24	<5.24	<5.45	<5.59	<5.78	<5.10	<4.44	<4.40	<4.14	<5.09	<4.79	<4.43	<4.51	<4.13	<4.66	<4.48	<4.96	<5.09	<4.52	<4.40
Anthracene	mg/kg	<0.863	<1.00	<1.02	<0.943	<1.04	<1.04	<1.09	<1.12	<1.15	<1.02	<0.885	<0.878	<0.826	<1.01	<0.955	<0.884	<0.900	<0.824	<0.929	<0.893	<0.988	<1.01	<0.902	<0.876
Azobenzene	mg/kg	<0.863	<1.00	<1.02	<0.943	<1.04	<1.04	<1.09	<1.12	<1.15	<1.02	<0.885	<0.878	<0.826	<1.01	<0.955	<0.884	<0.900	<0.824	<0.929	<0.893	<0.988	<1.01	<0.902	<0.876
Benzo(a)anthracene	mg/kg	<0.863	1.54	<1.02	<0.943	<1.04	<1.04	<1.09	<1.12	<1.15	<1.02	<0.885	<0.878	<0.826	<1.01	<0.955	<0.884	<0.900	<0.824	<0.929	<0.893	<0.988	<1.01	<0.902	<0.876
Benzo(a)pyrene	mg/kg	<0.433	1.44	<0.509	<0.473	<0.524	<0.524	<0.545	<0.559	<0.578	<0.510	<0.444	<0.440	<0.414	<0.509	<0.479	<0.443	<0.451	<0.413	<0.466	<0.448	<0.496	<0.509	<0.452	<0.440
Benzo(b)fluoranthene	mg/kg	<0.863	2.14	<1.02	<0.943	<1.04	<1.04	<1.09	<1.12	<1.15	<1.02	<0.885	<0.878	<0.826	<1.01	<0.955	<0.884	<0.900	<0.824	<0.929	<0.893	<0.988	<1.01	<0.902	<0.876
Benzo(g,h,i)perylene	mg/kg	<0.863	<1.00	<1.02	<0.943	<1.04	<1.04	<1.09	<1.12	<1.15	<1.02	<0.885	<0.878	<0.826	<1.01	<0.955	<0.884	<0.900	<0.824	<0.929	<0.893	<0.988	<1.01	<0.902	<0.876
Benzo(k)fluoranthene	mg/kg	<0.863	<1.00	<1.02	<0.943	<1.04	<1.04	<1.09	<1.12	<1.15	<1.02	<0.885	<0.878	<0.826	<1.01	<0.955	<0.884	<0.900	<0.824	<0.929	<0.893	<0.988	<1.01	<0.902	<0.876
bis(2-Chloroethoxy)methane	mg/kg	<0.863	<1.00	<1.02	<0.943	<1.04	<1.04	<1.09	<1.12	<1.15	<1.02	<0.885	<0.878	<0.826	<1.01	<0.955	<0.884	<0.900	<0.824	<0.929	<0.893	<0.988	<1.01	<0.902	<0.876
bis(2-Chloroethyl)ether	mg/kg	<0.433	<0.504	<0.509	<0.473	<0.524	<0.524	<0.545	<0.559	<0.578	<0.510	<0.444	<0.440	<0.414	<0.509	<0.479	<0.443	<0.451	<0.413	<0.466	<0.448	<0.496	<0.509	<0.452	<0.440
bis(2-chloroisopropyl)Ether	mg/kg	<0.433	<0.504	<0.509	<0.473	<0.524	<0.524	<0.545	<0.559	<0.578	<0.510	<0.444	<0.440	<0.414	<0.509	<0.479	<0.443	<0.451	<0.413	<0.466	<0.448	<0.496	<0.509	<0.452	<0.440
bis(2-Ethylhexyl)phthalate	mg/kg	<0.863	<1.00	<1.02	<0.943	<1.04	<1.04	<1.09	<1.12	<1.15	<1.02	<0.885	<0.878	<0.826	<1.01	<0.955	<0.884	<0.900	<0.824	<0.929	<0.893	<0.988	<1.01	<0.902	<0.876
Butylbenzylphthalate	mg/kg	<0.863	<1.00	<1.02	<0.943	<1.04	<1.04	<1.09	<1.12	<1.15	<1.02	<0.885	<0.878	<0.826	<1.01	<0.955	<0.884	<0.900	<0.824	<0.929	<0.893	<0.988	<1.01	<0.902	<0.876
Chrysene	mg/kg	<0.433	1.5	0.623	<0.473	<0.524	<0.524	<0.545	<0.559	<0.578	<0.510	<0.444	0.557	<0.414	<0.509	<0.479	<0.443	<0.451	<0.413	<0.466	<0.448	<0.496	<0.509	<0.452	<0.440
Dibenzo(a,h)Anthracene	mg/kg	<0.433	<0.504	<0.509	<0.473	<0.524	<0.524	<0.545	<0.559	<0.578	<0.510	<0.444	<0.440	<0.414	<0.509	<0.479	<0.443	<0.451	<0.413	<0.466	<0.448	<0.496	<0.509	<0.452	<0.440
Dibenzofuran	mg/kg	<0.863	<1.00	<1.02	<0.943	<1.04	<1.04	<1.09	<1.12	<1.15	<1.02	<0.885	<0.878	<0.826	<1.01	<0.955	<0.884	<0.900	<0.824	<0.929	<0.893	<0.988	<1.01	<0.902	<0.876
Diethylphthalate	mg/kg	<0.863	<1.00	<1.02	<0.943	<1.04	<1.04	<1.09	<1.12	<1.15	<1.02	<0.885	<0.878	<0.826	<1.01	<0.955	<0.884	<0.900	<0.824	<0.929	<0.893	<0.988	<1.01	<0.902	<0.876
Dimethylphthalate	mg/kg	<0.863	<1.00	<1.02	<0.943	<1.04	<1.04	<1.09	<1.12	<1.15	<1.02	<0.885	<0.878	<0.826	<1.01	<0.955	<0.884	<0.900	<0.824	<0.929	<0.893	<0.988	<1.01	<0.902	<0.876
Di-n-butylphthalate	mg/kg	<0.863	<1.00	<1.02	<0.943	<1.04	<1.04	<1.09	<1.12	<1.15	<1.02	<0.885	<0.878	<0.826	<1.01	<0.955	<0.884	<0.900	<0.824	<0.929	<0.893	<0.988	<1.01	<0.902	<0.876
Di-n-octylphthalate	mg/kg	<0.863	<1.00	<1.02	<0.943	<1.04	<1.04	<1.09	<1.12	<1.15	<1.02	<0.885	<0.878	<0.826	<1.01	<0.955	<0.884	<0.900	<0.824	<0.929	<0.893	<0.988	<1.01	<0.902	<0.876
Fluoranthene	mg/kg	<0.863	3.25	1.1	<0.943	<1.04	<1.04	<1.09	<1.12	<1.15	<1.02	<0.885	<0.878	<0.826	<1.01	<0.955	<0.884	<0.900	<0.824	<0.929	<0.893	<0.988	<1.01	<0.902	<0.876
Fluorene	mg/kg	<0.863	<1.00	<1.02	<0.943	<1.04	<1.04	<1.09	<1.12	<1.15	<1.02	<0.885	<0.878	<0.826	<1.01	<0.955	<0.884	<0.900	<0.824	<0.929	<0.893	<0.988	<1.01	<0.902	<0.876
Hexachlorobenzene	mg/kg	<0.433	<0.504	<0.509	<0.473	<0.524	<0.524	<0.545	<0.559	<0.578	<0.510	<0.444	<0.440	<0.414	<0.509	<0.479	<0.443	<0.451	<0.413	<0.466	<0.448	<0.496	<0.509	<0.452	<0.440
Hexachlorobutadiene	mg/kg	<0.863	<1.00	<1.02	<0.943	<1.04	<1.04	<1.09	<1.12	<1.15	<1.02	<0.885	<0.878	<0.826	<1.01	<0.955	<0.884	<0.900	<0.824	<0.929	<0.893	<0.988	<1.01	<0.902	<0.876
Hexachloroethane	mg/kg	<0.863	<1.00	<1.02	<0.943	<1.04	<1.04	<1.09	<1.12	<1.15	<1.02	<0.885	<0.878	<0.826	<1.01	<0.955	<0.884	<0.900	<0.824	<0.929	<0.893	<0.988	<1.01	<0.902	<0.876
Indeno(1,2,3-cd)Pyrene	mg/kg	<0.863	<1.00	<1.02	<0.943	<1.04	<1.04	<1.09	<1.12	<1.15	<1.02	<0.885	<0.878	<0.826	<1.01	<0.955	<0.884	<0.900	<0.824	<0.929	<0.893	<0.988	<1.01	<0.902	<0.876
Isophorone	mg/kg	<0.863	<1.00	<1.02	<0.943	<1.04	<1.04	<1.09	<1.12	<1.15	<1.02	<0.885	<0.878	<0.826	<1.01	<0.955	<0.884	<0.900	<0.824	<0.929	<0.893	<0.988	<1.01	<0.902	<0.876
Naphthalene	mg/kg	<0.863	<1.00	<1.02	<0.943	<1.04	<1.04	<1.09	<1.12	<1.15	<1.02	<0.885	<0.878	<0.826	<1.01	<0.955	<0.884	<0.900	<0.824	<0.929	<0.893	<0.988	<1.01	<0.902	<0.876
Nitrobenzene	mg/kg	<0.863	<1.00	<1.02	<0.943	<1.04	<1.04	<1.09	<1.12	<1.15	<1.02	<0.885	<0.878	<0.826	<1.01	<0.955	<0.884	<0.900	<0.824	<0.929	<0.893	<0.988	<1.01	<0.902	<0.876
N-Nitrosodimethylamine	mg/kg	<0.863	<1.00	<1.02	<0.943	<1.04	<1.04	<1.09	<1.12	<1.15	<1.02	<0.885	<0.878	<0.826	<1.01	<0.955	<0.884	<0.900	<0.824	<0.929	<0.893	<0.988	<1.01	<0.902	<0.876
Pentachlorophenol	mg/kg	<4.33	<5.04	<5.09	<4.73	<5.24	<5.24	<5.45	<5.59	<5.78	<5.10	<4.44	<4.40	<4.14	<5.09	<4.79	<4.43	<4.51	<4.13	<4.66	<4.48	<4.96	<5.09	<4.52	<4.40
Phenanthrene	mg/kg	<0.863	2.33	<1.02	<0.943	<1.04	<1.04	<1.09	<1.12	<1.15	<1.02	<0.885	<0.878	<0.826	<1.01	<0.955	<0.884	<0.900	<0.824	<0.929	<0.893	<0.988	<1.01	<0.902	<0.876
Phenol	mg/kg	<0.863	<1.00	<1.02	<0.943	<1.04	<1.04	<1.09	<1.12	<1.15	<1.02	<0.885	<0.878	<0.826	<1.01	<0.955	<0.884	<0.900	<0.824	<0.929	<0.893	<0.988	<1.01	<0.902	<0.876
Pyrene	mg/kg	<0.863	2.16	<1.02	<0.943	<1.04	<1.04	<1.09	<1.12	<1.15	<1.02	<0.885	<0.878	<0.826	<1.01	<0.955	<0.884	<0.900	<0.824	<0.929	<0.893	<0.988	<1.01	<0.902	<0.876
Total SVOCs	mg/kg	ND	14.36	1.723	ND	ND	ND	ND	ND	ND	ND	ND	0.557	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Classic Chemistry																										
Corrosivity (pH)	S.U.	6.39	9.37	7.08	6.6	3.86	3.88	7.75	7.78	7.26	5.23	9.71	7.77	5.22	3.81	3.93	4.82	4.97	7.58	6.73	7.63	6.23	4.13	4.67	5.64
Conductivity	umhos/cm	1600	515	1280	1470	3450	8260	1250	1330	1140	2270	486	828	499	1640	1930	391	283	571	595	693	970	1120	227	224
Flashpoint	°F	--	>200	>200	>200	--	--	--	--	--	--	>200	>200	>200	--	--	--	--	--	--	>200	>200	--	--	--
Reactive Cyanide	mg/kg	--	<2.0	<2.0	<2.0	--	--	--	--	--	--	<2.0	<2.0	<2.0	--	--	--	--	--	--	<2.0	<2.0	--	--	--
Reactive Sulfide	mg/kg	--	<2.0	<2.0	<2.0	--	--	--	--	--	--	<2.0	<2.0	<2.0	--	--	--	--	--	--	<2.0	<2.0	--	--	--

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	C11 C11S08 1501058 Natural Sand/Gravel 24 - 26 1/6/2015	C11 C11S09 1501058 Natural Sand/Gravel 29 - 31 1/6/2015	C11 C11S10S11 1501058 Natural Sand/Gravel 34 - 38 1/6/2015	C12 C12S01S02 1501031 Fill 0 - 2.75 1/5/2015	C12 C12S03S04A 1501031 Fill 4 - 6.66 1/5/2015	C12 C12S04B 1501031 Fill 6.66 - 8 1/5/2015	C12 C12S06S07A 1501031 Fill 10 - 13.33 1/5/2015	C12 C12S07BS08 1501031 Natural Sand/Gravel 13.33 - 16 1/5/2015	C12 C12S09 1501031 Natural Sand/Gravel 19 - 21 1/5/2015	C12 C12S10 1501031 Natural Sand/Gravel 26 - 29 1/5/2015	C12 C12S11 1501031 Natural Sand/Gravel 29 - 31 1/5/2015	C12 C12S12S13 1501031 Natural Sand/Gravel 34 - 38 1/5/2015	C13 C13S01S02A 1412502 Fill 0 - 3.3 12/23/2014	C13 C13S02BS04A 1412502 Fill 3.3 - 6.6 12/23/2014	C13 C13S04BS05 1412502 Fill 6.6 - 10 12/23/2014	C13 C13S06 1412502 Natural Sand/Gravel 11 - 13 12/23/2014	C13 C13S07 1412502 Natural Sand/Gravel 19 - 21 12/23/2014	C13 C13S08 1412502 Natural Sand/Gravel 24 - 26 12/23/2014	C13 C13S09 1412502 Natural Sand/Gravel 29 - 31 12/23/2014	C13 C13S10S11 1412502 Natural Sand/Gravel 34 - 38 12/23/2014	C14 C14S01S02A 1412473 Fill 0 - 3.3 12/22/2014	C14 C14S02BS04A 1412473 Fill 3.3 - 6.6 12/22/2014	C14 C14S04BS05 1412473 Fill 6.6 - 10 12/22/2014	C14 C14S06 1412473 Natural Sand/Gravel 10 - 12 12/22/2014
Preliminary Disposal Facility Category		MCP Regulated Type A	MCP Regulated Type A	Uncontaminated	MCP Regulated Type A	Hazardous Material Type B	Hazardous Material Type A	MCP Regulated Type A	Uncontaminated	MCP Regulated Type A	Uncontaminated	Hazardous Material Type A	Uncontaminated	MCP Regulated Type A	Hazardous Material Type B	MCP Regulated Type A	MCP Regulated Type A	Uncontaminated	MCP Restricted	MCP Restricted	Hazardous Material Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A
RCRA 8 Metals	**Units**																								
Arsenic	mg/kg	22.3	24.9	19.1	6.33	81.2	52.2	21.6	14.3	29.3	11.8	87.7	9.37	6.13	9.05	20.6	34.5	5.55	7.24	5.06	113	4.84	102	47	129
Barium	mg/kg	14	11	13.7	27.9	111	78.7	36.4	10.5	12.2	8.68	16.2	10.6	20.4	97.8	80.9	8.56	9.18	14.2	10.6	12.3	20.3	107	29.5	27.3
Cadmium	mg/kg	0.59	0.65	0.48	<0.43	2.58	1.23	0.53	<0.48	0.63	<0.45	1.81	<0.58	<0.52	<0.55	<0.56	0.64	<0.55	<0.56	<0.42	1.73	<0.90	1.64	<2.52	2.57
Chromium	mg/kg	7.53	13.8	15.3	21.3	6.2	52.7	22.2	10.3	13.6	11.4	14.8	8.79	21.4	17.3	3.31	14.3	10.5	11.1	3.6	10.5	21.1	25.3	13.2	24.1
Lead	mg/kg	87.4	47.4	5.74	53.7	5140	35.7	38.2	17.2	7.56	9.63	<5.22	<5.76	10.2	5020	256	6.55	20.8	102	104	36	9.64	1930	197	547
Selenium	mg/kg	<10.0	<9.77	<8.64	<8.70	12.7	<11.7	<7.66	<9.64	<8.81	<8.91	<10.4	<11.5	<10.4	<11.0	<11.2	<9.99	<11.1	<11.2	<8.48	<0.51	<9.02	<11.0	<10.1	14.7
Silver	mg/kg	<0.50	<0.49	<0.43	<0.43	4.48	<0.59	<0.38	<0.48	<0.44	<0.45	<0.52	<0.58	<0.52	<0.55	<0.56	<0.50	<0.55	<0.56	<0.42	<0.51	<0.45	0.65	<0.50	0.72
Mercury	mg/kg	<0.037	<0.033	<0.037	0.079	1.58	<0.036	0.046	<0.035	0.175	0.118	<0.035	<0.037	<0.031	0.307	0.074	<0.035	0.049	0.04	0.044	<0.036	<0.032	2.9	0.286	0.38
Metals by Toxicity Characteristic Leaching Procedure (TCLP)																									
Arsenic	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.050	--	<0.050	--	<0.050
Cadmium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead	mg/L	--	--	--	--	72.9	--	--	--	--	--	--	--	--	49.9	0.793	--	--	1.58	<0.050	--	--	0.24	<0.050	<0.050
Selenium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Herbicides																									
2,4,5-T	mg/kg	--	--	--	<0.052	<0.059	<0.064	<0.065	--	--	--	--	--	<0.048	<0.058	<0.059	--	--	--	--	--	<0.058	<0.066	<0.062	<0.070
2,4-D	mg/kg	--	--	--	<0.052	<0.059	<0.064	<0.065	--	--	--	--	--	<0.048	<0.058	<0.059	--	--	--	--	--	<0.058	<0.066	<0.062	<0.070
2,4-DB	mg/kg	--	--	--	<0.052	<0.059	<0.064	<0.065	--	--	--	--	--	<0.048	<0.058	<0.059	--	--	--	--	--	<0.058	<0.066	<0.062	<0.070
Dalapon	mg/kg	--	--	--	<0.63	<0.71	<0.78	<0.78	--	--	--	--	--	<0.58	<0.70	<0.71	--	--	--	--	--	<0.70	<0.80	<0.75	<0.84
Dicamba	mg/kg	--	--	--	<0.052	<0.059	<0.064	<0.065	--	--	--	--	--	<0.048	<0.058	<0.059	--	--	--	--	--	<0.058	<0.066	<0.062	<0.070
Dichlorprop	mg/kg	--	--	--	<0.052	<0.059	<0.064	<0.065	--	--	--	--	--	<0.048	<0.058	<0.059	--	--	--	--	--	<0.058	<0.066	<0.062	<0.070
Dinoseb	mg/kg	--	--	--	<0.31	<0.35	<0.39	<0.39	--	--	--	--	--	<0.29	<0.35	<0.36	--	--	--	--	--	<0.35	<0.40	<0.38	<0.42
MCPA	mg/kg	--	--	--	<13	<14	<16	<16	--	--	--	--	--	<12	<14	<14	--	--	--	--	--	<14	<16	<15	<17
MCPP	mg/kg	--	--	--	<13	<14	<16	<16	--	--	--	--	--	<12	<14	<14	--	--	--	--	--	<14	<16	<15	<17
Silvex (2,4,5-TP)	mg/kg	--	--	--	<0.052	<0.059	<0.064	<0.065	--	--	--	--	--	<0.048	<0.058	<0.059	--	--	--	--	--	<0.058	<0.066	<0.062	<0.070
Pesticides																									
4,4'-DDD	mg/kg	--	--	--	<0.0037	<0.0021	<0.0023	<0.0023	--	--	--	--	--	<0.0018	<0.0021	<0.0021	--	--	--	--	--	<0.0021	<0.0022	<0.0023	<0.0024
4,4'-DDE	mg/kg	--	--	--	<0.0037	<0.0021	<0.0023	<0.0023	--	--	--	--	--	<0.0018	<0.0021	<0.0021	--	--	--	--	--	<0.0021	<0.0022	<0.0023	<0.0024
4,4'-DDT	mg/kg	--	--	--	<0.0037	<0.0021	<0.0023	<0.0023	--	--	--	--	--	<0.0018	<0.0021	<0.0021	--	--	--	--	--	<0.0021	<0.0022	<0.0023	<0.0024
Aldrin	mg/kg	--	--	--	<0.0037	<0.0021	<0.0023	<0.0023	--	--	--	--	--	<0.0018	<0.0021	<0.0021	--	--	--	--	--	<0.0021	<0.0022	<0.0023	<0.0024
alpha-BHC	mg/kg	--	--	--	<0.0037	<0.0021	<0.0023	<0.0023	--	--	--	--	--	<0.0018	<0.0021	<0.0021	--	--	--	--	--	<0.0021	<0.0022	<0.0023	<0.0024
beta-BHC	mg/kg	--	--	--	<0.0037	<0.0021	<0.0023	<0.0023	--	--	--	--	--	<0.0018	<0.0021	<0.0021	--	--	--	--	--	<0.0021	<0.0022	<0.0023	<0.0024
Chlordane (technical)	mg/kg	--	--	--	<0.037	<0.021	<0.023	<0.023	--	--	--	--	--	<0.018	<0.021	<0.021	--	--	--	--	--	<0.021	<0.022	<0.023	<0.024
delta-BHC	mg/kg	--	--	--	<0.0037	<0.0021	<0.0023	<0.0023	--	--	--	--	--	<0.0018	<0.0021	<0.0021	--	--	--	--	--	<0.0021	<0.0022	<0.0023	<0.0024
Dieldrin	mg/kg	--	--	--	<0.0037	<0.0021	<0.0023	<0.0023	--	--	--	--	--	<0.0018	<0.0021	<0.0021	--	--	--	--	--	<0.0021	<0.0022	<0.0023	<0.0024
Endosulfan I	mg/kg	--	--	--	<0.0037	<0.0021	<0.0023	<0.0023	--	--	--	--	--	<0.0018	<0.0021	<0.0021	--	--	--	--	--	<0.0021	<0.0022	<0.0023	<0.0024
Endosulfan II	mg/kg	--	--	--	<0.0037	<0.0021	<0.0023	<0.0023	--	--	--	--	--	<0.0018	<0.0021	<0.0021	--	--	--	--	--	<0.0021	<0.0022	<0.0023	<0.0024
Endosulfan sulfate	mg/kg	--	--	--	<0.0037	<0.0021	<0.0023	<0.0023	--	--	--	--	--	<0.0018	<0.0021	<0.0021	--	--	--	--	--	<0.0021	<0.0022	<0.0023	<0.0024
Endrin	mg/kg	--	--	--	<0.0037	<0.0021	<0.0023	<0.0023	--	--	--	--	--	<0.0018	<0.0021	<0.0021	--	--	--	--	--	<0.0021	<0.0022	<0.0023	<0.0024
Endrin ketone	mg/kg	--	--	--	<0.0037	<0.0021	<0.0023	<0.0023	--	--	--	--	--	<0.0018	<0.0021	<0.0021	--	--	--	--	--	<0.0021	<0.0022	<0.0023	<0.0024
gamma-BHC (Lindane)	mg/kg	--	--	--	<0.0037	<0.0021	<0.0023	<0.0023	--	--	--	--	--	<0.0018	<0.0021	<0.0021	--	--	--	--	--	<0.0021	<0.0022	<0.0023	<0.0024
Heptachlor	mg/kg	--	--	--	<0.0037	<0.0021	<0.0023	<0.0023	--	--	--	--	--	<0.0018	<0.0021	<0.0021	--	--	--	--	--	<0.0021	<0.0022	<0.0023	<0.0024
Heptachlor epoxide	mg/kg	--	--	--	<0.0037	<0.0021	<0.0023	<0.0023	--	--	--	--	--	<0.0018	<0.0021	<0.0021	--	--	--	--	--	<0.0021	<0.0022	<0.0023	<0.0024
Hexachlorobenzene	mg/kg	--	--	--	<0.0037	<0.0021	<0.0023	<0.0023	--	--	--	--	--	<0.0018	<0.0021	<0.0021	--	--	--	--	--	<0.0021	0.043	0.0051	0.0031
Methoxychlor	mg/kg	--	--	--	<0.0037	<0.0021	<0.0023	<0.0023	--	--	--	--	--	<0.0018	<0.0021	<0.0021	--	--	--	--	--	<0.0021	<0.0022	<0.0023	<0.0024
Polychlorinated Biphenyls																									
Aroclor 1016	mg/kg	<0.148	<0.146	<0.154	<0.135	<0.156	<0.158	<0.150	<0.153	<0.127	<0.142	<0.142	<0.145	<0.127	<0.134	<0.144	<0.137	<0.142	<0.136	<0.138	<0.138	<0.132	<0.130	<0.148	<0.145
Aroclor 1221	mg/kg	<0.148	<0.146	<0.154	<0.135	<0.156	<0.158	<0.150	<0.153	<0.127	<0.142	<0.142	<0.145	<0.127	<0.134	<0.144	<0.137	<0.142	<0.136	<0.138	<0.138	<0.132	<0.130	<0.148	<0.145
Aroclor 1232	mg/kg	<0.148	<0.146	<0.154	<0.135	<0.156	<0.158	<0.150	<0.153	<0.127	<0.142	<0.142	<0.145	<0.127	<0.134	<0.144	<0.137	<0.142	<0.136	<0.138	<0.138	<0.132	<0.130	<0.148	<0.145
Aroclor 1242	mg/kg	<0.148	<0.146	<0.154	<0.135	<0.156	<0.158	<0.150	<0.153	<0.127	<0.142	<0.142	<0.145	<0.127	<0.134	<0.144	<0.137	<0.142	<0.136	<0.138	<0.138	<0.132	<0.130	<0.148	<0.145
Aroclor 1248	mg/kg	<0.148	<0.146	<0.154	<0.135	<0.156	<0.158	<0.150	<0.153	<0.127	<0.142	<0.142	<0.145	<0.127	<0.134	<0.144	<0.137	<0.142	<0.136	<0.138	<0.138	<0.132	<0.130	<0.148	<0.145
Aroclor 1254	mg/kg	<0.148	<0.146	<0.154	<0.135	<0.156	<0.158	<0.150	<0.153	<0.127	<0.142	<0.142	<0.145	<0.127	0.372	<0.144	<0.137	<0.142	<0.136	<0.138	<0.138	<0.132	0.831	<0.148	<0.145
Aroclor 1260	mg/kg	<0.148	<0.146	<0.154	<0.135	<0.156	<0.158	<0.150	<0.153	<0.127	<0.142	<0.142	<0.145	<0.127	<0.134	<0.144	<0.137	<0.142	<0.136	<0.138	<0.138	<0.132	<0.130	<0.148	<0.145
Aroclor 1262	mg/kg	<0.148	<0.146	<0.154	<0.135	<0.156	<0.158	<0.150	<0.153	<0.127	<0.142	<0.142	<0.145	<0.127	<0.134	<0.144	<0.137	<0.142	<0.136	<0.138	<0.138	<0.132	1.06	<0.148	<0.145
Aroclor 1268	mg/kg	<0.148	<0.146	<0.154	<0.135	<0.156	<0.158	<0.150	<0.153	<0.127	<0.142	<0.142	<0.145	<0.127	<0.134	<0.144	<0.137	<0.142	<0.136	<0.138	<0.138	<0.132	<0.130	<0.148	<0.145
Total PCBs	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.372	ND	ND	ND	ND	ND	ND	ND	1.891	ND	ND
Total Petroleum Hydrocarbons	mg/kg	<44.0	<46.6	<40.6	118	<48.1	<46.5	<48.0	<40.6	<40.4	<43.2	<44.8	<46.7	<37.6	258	<45.9	<44.5	<43.4	<45.3	<41.3	<41.8	<41.9	534	<48.6	<49.3
Volatile Organic Compounds (VOCs)																									
1,1,1,2-Tetrachloroethane	mg/kg	--	<0.0843	--	--	--	--	<0.114	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	mg/kg	--	<0.0422	--	--	--	--	<0.0571	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg	--	<0.0422	--	--	--	--	<0.0571	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	mg/kg	--	<0.0422	--	--	--	--	<0.0571	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	mg/kg	--	<0.0422	--	--	--	--	<0.0571	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	mg/kg	--	<0.0422	--	--	--	--	<0.0571	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloropropene	mg/kg	--	<0.0422	--	--	--	--	<0.0571	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	mg/kg	--	<0.0422	--	--	--	--	<0.0571	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	mg/kg	--	<0.0422	--	--	--	--	<0.0571	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	mg/kg	--	<0.0422	--	--	--	--	<0.0571	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	mg/kg	--	<0.0422	--	--	--	--	<0.0571	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-Chloropropane	mg/kg	--	<0.169	--	--	--	--	<0.228	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	mg/kg	--	<0.0422	--	--	--	--	<0.0571	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	mg/kg	--	<0.0422	--	--	--	--	<0.0571	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	mg/kg	--	<0.0422	--	--	--	--	<0.0571	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	mg/kg	--	<0.0422	--	--	--	--	<0.0571	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	mg/kg	--	<0.0422	--	--	--	--	<0.0571	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	mg/kg	--	<0.0422	--	--	--	--	<0.0571	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichloropropane	mg/kg	--	<0.0422	--	--	--	--	<0.0571	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg	--	<0.0422	--	--	--	--	<0.0571	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane - Screen	mg/kg	--	<4.22	--	--	--	--	<5.71	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,2-Dichloropropane	mg/kg	--	<0.0843	--	--	--	--	<0.114	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Butanone	mg/kg	--	<0.169	--	--	--	--	<0.228	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chlorotoluene	mg/kg	--	<0.0422	--	--	--	--	<0.0571	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	mg/kg	--	<0.169	--	--	--	--	<0.228	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Chlorotoluene	mg/kg	--	<0.0422	--	--	--	--	<0.0571	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Isopropyltoluene	mg/kg	--	<0.0422	--	--	--	--	<0.0571	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-Pentanone	mg/kg	--	<0.169	--	--	--	--	<0.228	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	mg/kg	--	0.247	--	--	--	--	0.436	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzene	mg/kg	--	<0.0422	--	--	--	--	<0.0571	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromobenzene	mg/kg	--	<0.0422	--	--	--	--	<0.0571	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	mg/kg	--	<0.0422	--	--	--	--	<0.0571	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	mg/kg	--	<0.0422	--	--	--	--	<0.0571	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	mg/kg	--	<0.0422	--	--	--	--	<0.0571	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	mg/kg	--	<0.0843	--	--	--	--	<0.114	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Disulfide	mg/kg	--	<0.0422	--	--	--	--	<0.0571	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	mg/kg	--	<0.0422	--	--	--	--	<0.0571	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	C11 C11S08 1501058 Natural Sand/Gravel 24 - 26 1/6/2015	C11 C11S09 1501058 Natural Sand/Gravel 29 - 31 1/6/2015	C11 C11S10S11 1501058 Natural Sand/Gravel 34 - 38 1/6/2015	C12 C12S01S02 1501031 Fill 0 - 2.75 1/5/2015	C12 C12S03S04A 1501031 Fill 4 - 6.66 1/5/2015	C12 C12S04B 1501031 Fill 6.66 - 8 1/5/2015	C12 C12S06S07A 1501031 Fill 10 - 13.33 1/5/2015	C12 C12S07BS08 1501031 Natural Sand/Gravel 13.33 - 16 1/5/2015	C12 C12S09 1501031 Natural Sand/Gravel 19 - 21 1/5/2015	C12 C12S10 1501031 Natural Sand/Gravel 26 - 29 1/5/2015	C12 C12S11 1501031 Natural Sand/Gravel 29 - 31 1/5/2015	C12 C12S12S13 1501031 Natural Sand/Gravel 34 - 38 1/5/2015	C13 C13S01S02A 1412502 Fill 0 - 3.3 12/23/2014	C13 C13S02BS04A 1412502 Fill 3.3 - 6.6 12/23/2014	C13 C13S04BS05 1412502 Fill 6.6 - 10 12/23/2014	C13 C13S06 1412502 Natural Sand/Gravel 11 - 13 12/23/2014	C13 C13S07 1412502 Natural Sand/Gravel 19 - 21 12/23/2014	C13 C13S08 1412502 Natural Sand/Gravel 24 - 26 12/23/2014	C13 C13S09 1412502 Natural Sand/Gravel 29 - 31 12/23/2014	C13 C13S10S11 1412502 Natural Sand/Gravel 34 - 38 12/23/2014	C14 C14S01S02A 1412473 Fill 0 - 3.3 12/22/2014	C14 C14S02BS04A 1412473 Fill 3.3 - 6.6 12/22/2014	C14 C14S04BS05 1412473 Fill 6.6 - 10 12/22/2014	C14 C14S06 1412473 Natural Sand/Gravel 10 - 12 12/22/2014
Preliminary Disposal Facility Category		**MCP Regulated Type A**	**MCP Regulated Type A**	**Uncontaminated**	**MCP Regulated Type A**	**Hazardous Material Type B**	**Hazardous Material Type A**	**MCP Regulated Type A**	**Uncontaminated**	**MCP Regulated Type A**	**Uncontaminated**	**Hazardous Material Type A**	**Uncontaminated**	**MCP Regulated Type A**	**Hazardous Material Type B**	**MCP Regulated Type A**	**MCP Regulated Type A**	**Uncontaminated**	**MCP Restricted**	**MCP Restricted**	**Hazardous Material Type A**	**MCP Regulated Type A**	**Hazardous Material Type A**	**Hazardous Material Type A**	**Hazardous Material Type A**
Chlorobenzene	mg/kg	--	<0.0422	--	--	--	--	<0.0571	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	mg/kg	--	<0.0843	--	--	--	--	<0.114	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	mg/kg	--	<0.0422	--	--	--	--	<0.0571	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	mg/kg	--	<0.0843	--	--	--	--	<0.114	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	mg/kg	--	<0.0422	--	--	--	--	<0.0571	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	mg/kg	--	<0.0422	--	--	--	--	<0.0571	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	mg/kg	--	<0.0422	--	--	--	--	<0.0571	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromomethane	mg/kg	--	<0.0422	--	--	--	--	<0.0571	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	mg/kg	--	<0.0422	--	--	--	--	<0.0571	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Diethyl Ether	mg/kg	--	<0.0422	--	--	--	--	<0.0571	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Di-isopropyl ether	mg/kg	--	<0.0422	--	--	--	--	<0.0571	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethyl tertiary-butyl ether	mg/kg	--	<0.0422	--	--	--	--	<0.0571	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	mg/kg	--	<0.0422	--	--	--	--	<0.0571	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	mg/kg	--	<0.0422	--	--	--	--	<0.0571	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene	mg/kg	--	<0.0422	--	--	--	--	<0.0571	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	mg/kg	--	<0.0422	--	--	--	--	<0.0571	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride	mg/kg	--	<0.169	--	--	--	--	<0.228	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	mg/kg	--	<0.0422	--	--	--	--	<0.0571	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	mg/kg	--	<0.0422	--	--	--	--	<0.0571	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	mg/kg	--	<0.0422	--	--	--	--	<0.0571	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	mg/kg	--	<0.0422	--	--	--	--	<0.0571	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	mg/kg	--	<0.0422	--	--	--	--	<0.0571	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
tert-Butylbenzene	mg/kg	--	<0.0422	--	--	--	--	<0.0571	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tertiary-amyl methyl ether	mg/kg	--	<0.0422	--	--	--	--	<0.0571	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	mg/kg	--	<0.0422	--	--	--	--	<0.0571	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	mg/kg	--	<0.169	--	--	--	--	<0.228	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	mg/kg	--	<0.0422	--	--	--	--	<0.0571	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	mg/kg	--	<0.0422	--	--	--	--	<0.0571	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	mg/kg	--	<0.0422	--	--	--	--	<0.0571	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene	mg/kg	--	<0.0422	--	--	--	--	<0.0571	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane	mg/kg	--	<0.0422	--	--	--	--	<0.0571	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	mg/kg	--	<0.0422	--	--	--	--	<0.0571	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene O	mg/kg	--	<0.0422	--	--	--	--	<0.0571	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene P,M	mg/kg	--	<0.0843	--	--	--	--	<0.114	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylenes (Total)	mg/kg	--	<0.0843	--	--	--	--	<0.114	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total VOCs	mg/kg	--	0.247	--	--	--	--	0.436	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds - Low Level Analysis																									
1,1,1,2-Tetrachloroethane	mg/kg	<0.0048	--	<0.0040	<0.0053	<0.0043	<0.0061	--	<0.0048	<0.0037	<0.0046	<0.0042	<0.0043	<0.0088	<0.0070	<0.0063	<0.0041	<0.0040	<0.0043	<0.0043	<0.0042	<0.0051	<0.0052	<0.0050	<0.0042
1,1,1-Trichloroethane	mg/kg	<0.0048	--	<0.0040	<0.0053	<0.0043	<0.0061	--	<0.0048	<0.0037	<0.0046	<0.0042	<0.0043	<0.0088	<0.0070	<0.0063	<0.0041	<0.0040	<0.0043	<0.0043	<0.0042	<0.0051	<0.0052	<0.0050	<0.0042
1,1,2,2-Tetrachloroethane	mg/kg	<0.0019	--	<0.0016	<0.0021	<0.0017	<0.0024	--	<0.0019	<0.0015	<0.0018	<0.0017	<0.0017	<0.0035	<0.0028	<0.0025	<0.0016	<0.0016	<0.0017	<0.0017	<0.0017	<0.0020	<0.0021	<0.0020	<0.0017
1,1,2-Trichloroethane	mg/kg	<0.0048	--	<0.0040	<0.0053	<0.0043	<0.0061	--	<0.0048	<0.0037	<0.0046	<0.0042	<0.0043	<0.0088	<0.0070	<0.0063	<0.0041	<0.0040	<0.0043	<0.0043	<0.0042	<0.0051	<0.0052	<0.0050	<0.0042
1,1-Dichloroethane	mg/kg	<0.0048	--	<0.0040	<0.0053	<0.0043	<0.0061	--	<0.0048	<0.0037	<0.0046	<0.0042	<0.0043	<0.0088	<0.0070	<0.0063	<0.0041	<0.0040	<0.0043	<0.0043	<0.0042	<0.0051	<0.0052	<0.0050	<0.0042
1,1-Dichloroethene	mg/kg	<0.0048	--	<0.0040	<0.0053	<0.0043	<0.0061	--	<0.0048	<0.0037	<0.0046	<0.0042	<0.0043	<0.0088	<0.0070	<0.0063	<0.0041	<0.0040	<0.0043	<0.0043	<0.0042	<0.0051	<0.0052	<0.0050	<0.0042
1,1-Dichloropropene	mg/kg	<0.0048	--	<0.0040	<0.0053	<0.0043	<0.0061	--	<0.0048	<0.0037	<0.0046	<0.0042	<0.0043	<0.0088	<0.0070	<0.0063	<0.0041	<0.0040	<0.0043	<0.0043	<0.0042	<0.0051	<0.0052	<0.0050	<0.0042
1,2,3-Trichlorobenzene	mg/kg	<0.0048	--	<0.0040	<0.0053	<0.0043	<0.0061	--	<0.0048	<0.0037	<0.0046	<0.0042	<0.0043	<0.0088	<0.0070	<0.0063	<0.0041	<0.0040	<0.0043	<0.0043	<0.0042	<0.0051	<0.0052	<0.0050	<0.0042
1,2,3-Trichloropropane	mg/kg	<0.0048	--	<0.0040	<0.0053	<0.0043	<0.0061	--	<0.0048	<0.0037	<0.0046	<0.0042	<0.0043	<0.0088	<0.0070	<0.0063	<0.0041	<0.0040	<0.0043	<0.0043	<0.0042	<0.0051	<0.0052	<0.0050	<0.0042
1,2,4-Trichlorobenzene	mg/kg	<0.0048	--	<0.0040	<0.0053	<0.0043	<0.0061	--	<0.0048	<0.0037	<0.0046	<0.0042	<0.0043	<0.0088	<0.0070	<0.0063	<0.0041	<0.0040	<0.0043	<0.0043	<0.0042	<0.0051	<0.0052	<0.0050	<0.0042
1,2,4-Trimethylbenzene	mg/kg	<0.0048	--	<0.0040	<0.0053	<0.0043	<0.0061	--	<0.0048	<0.0037	<0.0046	<0.0042	<0.0043	<0.0088	<0.0070	<0.0063	<0.0041	<0.0040	<0.0043	<0.0043	<0.0042	<0.0051	<0.0052	<0.0050	<0.0042
1,2-Dibromo-3-Chloropropane	mg/kg	<0.0048	--	<0.0040	<0.0053	<0.0043	<0.0061	--	<0.0048	<0.0037	<0.0046	<0.0042	<0.0043	<0.0088	<0.0070	<0.0063	<0.0041	<0.0040	<0.0043	<0.0043	<0.0042	<0.0051	<0.0052	<0.0050	<0.0042
1,2-Dibromoethane	mg/kg	<0.0048	--	<0.0040	<0.0053	<0.0043	<0.0061	--	<0.0048	<0.0037	<0.0046	<0.0042	<0.0043	<0.0088	<0.0070	<0.0063	<0.0041	<0.0040	<0.0043	<0.0043	<0.0042	<0.0051	<0.0052	<0.0050	<0.0042
1,2-Dichlorobenzene	mg/kg	<0.0048	--	<0.0040	<0.0053	<0.0043	<0.0061	--	<0.0048	<0.0037	<0.0046	<0.0042	<0.0043	<0.0088	<0.0070	<0.0063	<0.0041	<0.0040	<0.0043	<0.0043	<0.0042	<0.0051	<0.0052	<0.0050	<0.0042
1,2-Dichloroethane	mg/kg	<0.0048	--	<0.0040	<0.0053	<0.0043	<0.0061	--	<0.0048	<0.0037	<0.0046	<0.0042	<0.0043	<0.0088	<0.0070	<0.0063	<0.0041	<0.0040	<0.0043	<0.0043	<0.0042	<0.0051	<0.0052	<0.0050	<0.0042
1,2-Dichloropropane	mg/kg	<0.0048	--	<0.0040	<0.0053	<0.0043	<0.0061	--	<0.0048	<0.0037	<0.0046	<0.0042	<0.0043	<0.0088	<0.0070	<0.0063	<0.0041	<0.0040	<0.0043	<0.0043	<0.0042	<0.0051	<0.0052	<0.0050	<0.0042
1,3,5-Trimethylbenzene	mg/kg	<0.0048	--	<0.0040	<0.0053	<0.0043	<0.0061	--	<0.0048	<0.0037	<0.0046	<0.0042	<0.0043	<0.0088	<0.0070	<0.0063	<0.0041	<0.0040	<0.0043	<0.0043	<0.0042	<0.0051	<0.0052	<0.0050	<0.0042
1,3-Dichlorobenzene	mg/kg	<0.0048	--	<0.0040	<0.0053	<0.0043	<0.0061	--	<0.0048	<0.0037	<0.0046	<0.0042	<0.0043	<0.0088	<0.0070	<0.0063	<0.0041	<0.0040	<0.0043	<0.0043	<0.0042	<0.0051	<0.0052	<0.0050	<0.0042
1,3-Dichloropropane	mg/kg	<0.0048	--	<0.0040	<0.0053	<0.0043	<0.0061	--	<0.0048	<0.0037	<0.0046	<0.0042	<0.0043	<0.0088	<0.0070	<0.0063	<0.0041	<0.0040	<0.0043	<0.0043	<0.0042	<0.0051	<0.0052	<0.0050	<0.0042
1,4-Dichlorobenzene	mg/kg	<0.0048	--	<0.0040	<0.0053	<0.0043	<0.0061	--	<0.0048	<0.0037	<0.0046	<0.0042	<0.0043	<0.0088	<0.0070	<0.0063	<0.0041	<0.0040	<0.0043	<0.0043	<0.0042	<0.0051	<0.0052	<0.0050	<0.0042
1,4-Dioxane	mg/kg	<0.0959	--	<0.0807	<0.106	<0.0864	<0.122	--	<0.0967	<0.0743	<0.0923	<0.0843	<0.0860	<0.176	<0.141	<0.126	<0.0819	<0.0796	<0.0863	<0.0851	<0.0847	<0.101	<0.103	<0.100	<0.0844
2,2-Dichloropropane	mg/kg	<0.0048	--	<0.0040	<0.0053	<0.0043	<0.0061	--	<0.0048	<0.0037	<0.0046	<0.0042	<0.0043	<0.0088	<0.0070	<0.0063	<0.0041	<0.0040	<0.0043	<0.0043	<0.0042	<0.0051	<0.0052	<0.0050	<0.0042
2-Butanone	mg/kg	<0.0096	--	<0.0081	<0.0106	<0.0086	<0.0122	--	<0.0097	<0.0074	<0.0092	<0.0084	<0.0086	<0.0176	<0.0141	<0.0126	<0.0082	<0.0080	<0.0086	<0.0085	<0.0085	<0.0101	<0.0103	<0.0100	<0.0084
2-Chlorotoluene	mg/kg	<0.0048	--	<0.0040	<0.0053	<0.0043	<0.0061	--	<0.0048	<0.0037	<0.0046	<0.0042	<0.0043	<0.0088	<0.0070	<0.0063	<0.0041	<0.0040	<0.0043	<0.0043	<0.0042	<0.0051	<0.0052	<0.0050	<0.0042
2-Hexanone	mg/kg	<0.0096	--	<0.0081	<0.0106	<0.0086	<0.0122	--	<0.0097	<0.0074	<0.0092	<0.0084	<0.0086	<0.0176	<0.0141	<0.0126	<0.0082	<0.0080	<0.0086	<0.0085	<0.0085	<0.0101	<0.0103	<0.0100	<0.0084
4-Chlorotoluene	mg/kg	<0.0048	--	<0.0040	<0.0053	<0.0043	<0.0061	--	<0.0048	<0.0037	<0.0046	<0.0042	<0.0043	<0.0088	<0.0070	<0.0063	<0.0041	<0.0040	<0.0043	<0.0043	<0.0042	<0.0051	<0.0052	<0.0050	<0.0042
4-Isopropyltoluene	mg/kg	<0.0048	--	<0.0040	<0.0053	<0.0043	<0.0061	--	<0.0048	<0.0037	<0.0046	<0.0042	<0.0043	<0.0088	<0.0070	<0.0063	<0.0041	<0.0040	<0.0043	<0.0043	<0.0042	<0.0051	<0.0052	<0.0050	<0.0042
4-Methyl-2-Pentanone	mg/kg	<0.0096	--	<0.0081	<0.0106	<0.0086	<0.0122	--	<0.0097	<0.0074	<0.0092	<0.0084	<0.0086	<0.0176	<0.0141	<0.0126	<0.0082	<0.0080	<0.0086	<0.0085	<0.0085	<0.0101	<0.0103	<0.0100	<0.0084
Acetone	mg/kg	<0.0096	--	<0.0081	<0.0106	0.0456	<0.0122	--	<0.0097	0.0152	<0.0092	0.0239	<0.0086	<0.0176	<0.0141	<0.0126	0.0335	<0.0080	<0.0086	<0.0085	<0.0085	<0.0101	0.0123	0.0266	0.0182
Benzene	mg/kg	<0.0048	--	<0.0040	<0.0053	<0.0043	<0.0061	--	<0.0048	<0.0037	<0.0046	<0.0042	<0.0043	<0.0088	<0.0070	<0.0063	<0.0041	<0.0040	<0.0043	<0.0043	<0.0042	<0.0051	<0.0052	<0.0050	<0.0042
Bromobenzene	mg/kg	<0.0048	--	<0.0040	<0.0053	<0.0043	<0.0061	--	<0.0048	<0.0037	<0.0046	<0.0042	<0.0043	<0.0088	<0.0070	<0.0063	<0.0041	<0.0040	<0.0043	<0.0043	<0.0042	<0.0051	<0.0052	<0.0050	<0.0042
Bromochloromethane	mg/kg	<0.0048	--	<0.0040	<0.0053	<0.0043	<0.0061	--	<0.0048	<0.0037	<0.0046	<0.0042	<0.0043	<0.0088	<0.0070	<0.0063	<0.0041	<0.0040	<0.0043	<0.0043	<0.0042	<0.0051	<0.0052	<0.0050	<0.0042
Bromodichloromethane	mg/kg	<0.0048	--	<0.0040	<0.0053	<0.0043	<0.0061	--	<0.0048	<0.0037	<0.0046	<0.0042	<0.0043	<0.0088	<0.0070	<0.0063	<0.0041	<0.0040	<0.0043	<0.0043	<0.0042	<0.0051	<0.0052	<0.0050	<0.0042
Bromoform	mg/kg	<0.0048	--	<0.0040	<0.0053	<0.0043	<0.0061	--	<0.0048	<0.0037	<0.0046	<0.0042	<0.0043	<0.0088	<0.0070	<0.0063	<0.0041	<0.0040	<0.0043	<0.0043	<0.0042	<0.0051	<0.0052	<0.0050	<0.0042
Bromomethane	mg/kg	<0.0096	--	<0.0081	<0.0106	<0.0086	<0.0122	--	<0.0097	<0.0074	<0.0092	<0.0084	<0.0086	<0.0176	<0.0141	<0.0126	<0.0082	<0.0080	<0.0086	<0.0085	<0.0085	<0.0101	<0.0103	<0.0100	<0.0084
Carbon Disulfide	mg/kg	<0.0048	--	<0.0040	<0.0053	<0.0043	<0.0061	--	<0.0048	<0.0037	<0.0046	<0.0042	<0.0043	<0.0088	<0.0070	<0.0063	<0.0041	<0.0040	<0.0043	<0.0043	<0.0042	<0.0051	<0.0052	<0.0050	<0.0042
Carbon Tetrachloride	mg/kg	<0.0048	--	<0.0040	<0.0053	<0.0043	<0.0061	--	<0.0048	<0.0037	<0.0046	<0.0042	<0.0043	<0.0088	<0.0070	<0.0063	<0.0041	<0.0040	<0.0043	<0.0043	<0.0042	<0.0051	<0.0052	<0.0050	<0.0042
Chlorobenzene	mg/kg	<0.0048	--	<0.0040	<0.0053	<0.0043	<0.0061	--	<0.0048	<0.0037	<0.0046	<0.0042	<0.0043	<0.0088	<0.0070	<0.0063	<0.0041	<0.0040	<0.0043	<0.0043	<0.0042	<0.0051	<0.0052	<0.0050	<0.0042
Chloroethane	mg/kg	<0.0096	--	<0.0081	<0.0106	<0.0086	<0.0122	--	<0.0097	<0.0074	<0.0092	<0.0084	<0.0086	<0.0176	<0.0141	<0.0126	<0.0082	<0.0080	<0.0086	<0.0085	<0.0085	<0.0101	<0.0103	<0.0100	<0.0084
Chloroform	mg/kg	<0.0048	--	<0.0040	<0.0053	<0.0043	<0.0061	--	<0.0048	<0.0037	<0.0046	<0.0042	<0.0043	<0.0088	<0.0070	<0.0063	<0.0041	<0.0040	<0.0043	<0.0043	<0.0042	<0.0051	<0.0052	<0.0050	<0.0042
Chloromethane	mg/kg	<0.0096	--	<0.0081	<0.0106	<0.0086	<0.0122	--	<0.0097	<0.0074	<0.0092	<0.0084	<0.0086	<0.0176	<0.0141	<0.0126	<0.0082	<0.0080	<0.0086	<0.0085	<0.0085	<0.0101	<0.0103	<0.0100	<0.0084
cis-1,2-Dichloroethene	mg/kg	<0.0048	--	<0.0040	<0.0053	<0.0043	<0.0061	--	<0.0048	<0.0037	<0.0046	<0.0042	<0.0043	<0.0088	<0.0070	<0.0063	<0.0041	<0.0040	<0.0043	<0.0043	<0.0042	<0.0051	<0.0052	<0.0050	<0.0042
cis-1,3-Dichloropropene	mg/kg	<0.0048	--	<0.0040	<0.0053	<0.0043	<0.0061	--	<0.0048	<0.0037	<0.0046	<0.0042	<0.0043	<0.0088	<0.0070	<0.0063	<0.0041	<0.0040	<0.0043	<0.0043	<0.0042	<0.0051	<0.0052	<0.0050	<0.0042
Dibromochloromethane	mg/kg	<0.0019	--	<0.0016	<0.0021	<0.0017	<0.0024	--	<0.0019	<0.0015	<0.0018	<0.0017	<0.0017	<0.0035	<0.0028	<0.0025	<0.0016	<0.0016	<0.0017	<0.0017	<0.0017	<0.0020	<0.0021	<0.0020	<0.0017
Dibromomethane	mg/kg	<0.0048	--	<0.0040	<0.0053	<0.0043	<0.0061	--	<0.0048	<0.0037	<0.0046	<0.0042	<0.0043	<0.0088	<0.0070	<0.0063	<0.0041	<0.0040	<0.0043	<0.0043	<0.0042	<0.0051	<0.0052	<0.0050	<0.0042
Dichlorodifluoromethane	mg/kg	<0.0096	--	<0.0081	<0.0106	<0.0086	<0.0122	--	<0.0097	<0.0074	<0.0092	<0.0084	<0.0086	<0.0176	<0.0141	<0.0126	<0.0082	<0.0080	<0.0086	<0.0085	<0.0085	<0.0101	<0.0103	<0.0100	<0.0084
Diethyl Ether	mg/kg	<0.0048	--	<0.0040	<0.0053	<0.0043	<0.0061	--	<0.0048	<0.0037	<0.0046	<0.0042	<0.0043	<0.0088	<0.0070	<0.0063	<0.0041	<0.0040	<0.0043	<0.0043	<0.0042	<0.0051	<0.0052	<0.0050	<0.0042
Di-isopropyl ether	mg/kg	<0.0048	--	<0.0040	<0.0053	<0.0043	<0.0061	--	<0.0048	<0.0037	<0.0046	<0.0042	<0.0043	<0.0088	<0.0070	<0.0063	<0.0041	<0.0040	<0.0043	<0.0043	<0.0042	<0.0051	<0.0052	<0.0050	<0.0042
Ethyl tertiary-butyl ether	mg/kg	<0.0048	--	<0.0040	<0.0053	<0.0043	<0.0061	--	<0.0048	<0.0037	<0.0046	<0.0042	<0.0043	<0.0088	<0.0070	<0.0063	<0.0041	<0.0040	<0.0043	<0.0043	<0.0042	<0.0051	<0.0052	<0.0050	<0.0042
Ethylbenzene	mg/kg	<0.0048	--	<0.0040	<0.0053	<0.0043	<0.0061	--	<0.0048	<0.0037	<0.0046	<0.0042	<0.0043	<0.0088	<0.0070	<0.0063	<0.0041	<0.0040	<0.0043	<0.0043	<0.0042	<0.0051	<0.0052	<0.0050	<0.0042
Hexachlorobutadiene	mg/kg	<0.0048	--	<0.0040	<0.0053	<0.0043	<0.0061	--	<0.0048	<0.0037	<0.0046	<0.0042	<0.0043	<0.0088	<0.0070	<0.0063	<0.0041	<0.0040	<0.0043	<0.0043	<0.0042	<0.0051	<0.0052	<0.0050	<0.0042
Isopropylbenzene	mg/kg	<0.0048	--	<0.0040	<0.0053	<0.0043	<0.0061	--	<0.0048	<0.0037	<0.0046	<0.0042	<0.0043	<0.0088	<0.0070	<0.0063	<0.0041	<0.0040	<0.0043	<0.0043	<0.0042	<0.0051	<0.0052	<0.0050	<0.0042
Methyl tert-Butyl Ether	mg/kg	<0.0048	--	<0.0040	<0.0053	<0.0043	<0.0061	--	<0.0048	<0.0037	<0.0046	<0.0042	<0.0043	<0.0088	<0.0070	<0.0063	<0.0041	<0.0040	<0.0043	<0.0043	<0.0042	<0.0051	<0.0052	<0.0050	<0.0042
Methylene Chloride	mg/kg	<0.0096	--	<0.0081	<0.0106	<0.0086	<0.0122	--	<0.0097	<0.0074	<0.0092	<0.0084	<0.0086	<0.0176	<0.0141	<0.0126	<0.0082	<0.0080	<0.0086	<0.0085	<0.0085	<0.0101	<0.0103	<0.0100	<0.0084
Naphthalene	mg/kg	<0.0048	--	<0.0040	<0.0053	<0.0043	<0.0061	--	<0.0048	<0.0037	<0.0046	<0.0042	<0.0043	<0.0088	<0.0070	<0.0063	<0.0041	<0.0040	<0.0043	<0.0043	<0.0042	<0.0051	<0.0052	<0.0050	<0.0042
n-Butylbenzene	mg/kg	<0.0048	--	<0.0040	<0.0053	<0.0043	<0.0061	--	<0.0048	<0.0037	<0.0046	<0.0042	<0.0043	<0.0088	<0.0070	<0.0063	<0.0041	<0.0040	<0.0043	<0.0043	<0.0042	<0.0051	<0.0052	<0.0050	<0.0042
n-Propylbenzene	mg/kg	<0.0048	--	<0.0040	<0.0053	<0.0043	<0.0061	--	<0.0048	<0.0037	<0.0046	<0.0042	<0.0043	<0.0088	<0.0070	<0.0063	<0.0041	<0.0040	<0.0043	<0.0043	<0.0042	<0.0051	<0.0052	<0.0050	<0.0042
sec-Butylbenzene	mg/kg	<0.0048	--	<0.0040	<0.0053	<0.0043	<0.0061	--	<0.0048	<0.0037	<0.0046	<0.0042	<0.0043	<0.0088	<0.0070	<0.0063	<0.0041	<0.0040	<0.0043	<0.0043	<0.0042	<0.0051	<0.0052	<0.0050	<0.0042

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	C11 C11S08 1501058 Natural Sand/Gravel 24 - 26 1/6/2015	C11 C11S09 1501058 Natural Sand/Gravel 29 - 31 1/6/2015	C11 C11S10511 1501058 Natural Sand/Gravel 34 - 38 1/6/2015	C12 C12S01S02 1501031 Fill 0 - 2.75 1/5/2015	C12 C12S03S04A 1501031 Fill 4 - 6.66 1/5/2015	C12 C12S04B 1501031 Fill 6.66 - 8 1/5/2015	C12 C12S06S07A 1501031 Fill 10 - 13.33 1/5/2015	C12 C12S07BS08 1501031 Natural Sand/Gravel 13.33 - 16 1/5/2015	C12 C12S09 1501031 Natural Sand/Gravel 19 - 21 1/5/2015	C12 C12S10 1501031 Natural Sand/Gravel 26 - 29 1/5/2015	C12 C12S11 1501031 Natural Sand/Gravel 29 - 31 1/5/2015	C12 C12S12S13 1501031 Natural Sand/Gravel 34 - 38 1/5/2015	C13 C13S01S02A 1412502 Fill 0 - 3.3 12/23/2014	C13 C13S02BS04A 1412502 Fill 3.3 - 6.6 12/23/2014	C13 C13S04BS05 1412502 Fill 6.6 - 10 12/23/2014	C13 C13S06 1412502 Natural Sand/Gravel 11 - 13 12/23/2014	C13 C13S07 1412502 Natural Sand/Gravel 19 - 21 12/23/2014	C13 C13S08 1412502 Natural Sand/Gravel 24 - 26 12/23/2014	C13 C13S09 1412502 Natural Sand/Gravel 29 - 31 12/23/2014	C13 C13S10511 1412502 Natural Sand/Gravel 34 - 38 12/23/2014	C14 C14S01S02A 1412473 Fill 0 - 3.3 12/22/2014	C14 C14S02BS04A 1412473 Fill 3.3 - 6.6 12/22/2014	C14 C14S04BS05 1412473 Fill 6.6 - 10 12/22/2014	C14 C14S06 1412473 Natural Sand/Gravel 10 - 12 12/22/2014
Preliminary Disposal Facility Category		MCP Regulated Type A	MCP Regulated Type A	Uncontaminated	MCP Regulated Type A	Hazardous Material Type B	Hazardous Material Type A	MCP Regulated Type A	Uncontaminated	MCP Regulated Type A	Uncontaminated	Hazardous Material Type A	Uncontaminated	MCP Regulated Type A	Hazardous Material Type B	MCP Regulated Type A	MCP Regulated Type A	Uncontaminated	MCP Restricted	MCP Restricted	Hazardous Material Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A
Styrene	mg/kg	<0.0048	--	<0.0040	<0.0053	<0.0043	<0.0061	--	<0.0048	<0.0037	<0.0046	<0.0042	<0.0043	<0.0088	<0.0070	<0.0063	<0.0041	<0.0040	<0.0043	<0.0043	<0.0042	<0.0051	<0.0052	<0.0050	<0.0042
tert-Butylbenzene	mg/kg	<0.0048	--	<0.0040	<0.0053	<0.0043	<0.0061	--	<0.0048	<0.0037	<0.0046	<0.0042	<0.0043	<0.0088	<0.0070	<0.0063	<0.0041	<0.0040	<0.0043	<0.0043	<0.0042	<0.0051	<0.0052	<0.0050	<0.0042
Tertiary-amyl methyl ether	mg/kg	<0.0048	--	<0.0040	<0.0053	<0.0043	<0.0061	--	<0.0048	<0.0037	<0.0046	<0.0042	<0.0043	<0.0088	<0.0070	<0.0063	<0.0041	<0.0040	<0.0043	<0.0043	<0.0042	<0.0051	<0.0052	<0.0050	<0.0042
Tetrachloroethene	mg/kg	<0.0048	--	<0.0040	<0.0053	<0.0043	<0.0061	--	<0.0048	<0.0037	<0.0046	<0.0042	<0.0043	<0.0088	<0.0070	<0.0063	<0.0041	<0.0040	<0.0043	<0.0043	<0.0042	<0.0051	<0.0052	<0.0050	<0.0042
Tetrahydrofuran	mg/kg	<0.0048	--	<0.0040	<0.0053	<0.0043	<0.0061	--	<0.0048	<0.0037	<0.0046	<0.0042	<0.0043	<0.0088	<0.0070	<0.0063	<0.0041	<0.0040	<0.0043	<0.0043	<0.0042	<0.0051	<0.0052	<0.0050	<0.0042
Toluene	mg/kg	<0.0048	--	<0.0040	<0.0053	<0.0043	<0.0061	--	<0.0048	<0.0037	<0.0046	<0.0042	<0.0043	<0.0088	<0.0070	<0.0063	<0.0041	<0.0040	<0.0043	<0.0043	<0.0042	<0.0051	<0.0052	<0.0050	<0.0042
trans-1,2-Dichloroethene	mg/kg	<0.0048	--	<0.0040	<0.0053	<0.0043	<0.0061	--	<0.0048	<0.0037	<0.0046	<0.0042	<0.0043	<0.0088	<0.0070	<0.0063	<0.0041	<0.0040	<0.0043	<0.0043	<0.0042	<0.0051	<0.0052	<0.0050	<0.0042
trans-1,3-Dichloropropene	mg/kg	<0.0048	--	<0.0040	<0.0053	<0.0043	<0.0061	--	<0.0048	<0.0037	<0.0046	<0.0042	<0.0043	<0.0088	<0.0070	<0.0063	<0.0041	<0.0040	<0.0043	<0.0043	<0.0042	<0.0051	<0.0052	<0.0050	<0.0042
Trichloroethene	mg/kg	<0.0048	--	<0.0040	<0.0053	<0.0043	<0.0061	--	<0.0048	<0.0037	<0.0046	<0.0042	<0.0043	<0.0088	<0.0070	<0.0063	<0.0041	<0.0040	<0.0043	<0.0043	<0.0042	<0.0051	<0.0052	<0.0050	<0.0042
Trichlorofluoromethane	mg/kg	<0.0048	--	<0.0040	<0.0053	<0.0043	<0.0061	--	<0.0048	<0.0037	<0.0046	<0.0042	<0.0043	<0.0088	<0.0070	<0.0063	<0.0041	<0.0040	<0.0043	<0.0043	<0.0042	<0.0051	<0.0052	<0.0050	<0.0042
Vinyl Chloride	mg/kg	<0.0096	--	<0.0081	<0.0106	<0.0086	<0.0122	--	<0.0097	<0.0074	<0.0092	<0.0084	<0.0086	<0.0176	<0.0141	<0.0126	<0.0082	<0.0080	<0.0086	<0.0085	<0.0085	<0.0101	<0.0103	<0.0100	<0.0084
Xylene O	mg/kg	<0.0048	--	<0.0040	<0.0053	<0.0043	<0.0061	--	<0.0048	<0.0037	<0.0046	<0.0042	<0.0043	<0.0088	<0.0070	<0.0063	<0.0041	<0.0040	<0.0043	<0.0043	<0.0042	<0.0051	<0.0052	<0.0050	<0.0042
Xylene P,M	mg/kg	<0.0096	--	<0.0081	<0.0106	<0.0086	<0.0122	--	<0.0097	<0.0074	<0.0092	<0.0084	<0.0086	<0.0176	<0.0141	<0.0126	<0.0082	<0.0080	<0.0086	<0.0085	<0.0085	<0.0101	<0.0103	<0.0100	<0.0084
Xylenes (Total)	mg/kg	<0.0096	--	<0.0081	<0.0106	<0.0086	<0.0122	--	<0.0097	<0.0074	<0.0092	<0.0084	<0.0086	<0.0176	<0.0141	<0.0126	<0.0082	<0.0080	<0.0086	<0.0085	<0.0085	<0.0101	<0.0103	<0.0100	<0.0084
Total VOCs (Low Level)	mg/kg	ND	--	ND	ND	0.0456	ND	--	ND	0.0152	ND	0.0239	ND	ND	ND	ND	0.0335	ND	ND	ND	ND	ND	0.0123	0.0266	0.0182
Semi-Volatile Organic Compounds																									
1,2,4-Trichlorobenzene	mg/kg	<0.890	<0.844	<0.924	<0.849	<0.987	<0.999	<0.875	<0.935	<0.822	<0.907	<0.951	<0.911	<0.838	<0.881	<0.952	<0.935	<0.947	<0.875	<0.917	<0.899	<0.820	<0.898	<1.03	<1.03
1,2-Dichlorobenzene	mg/kg	<0.890	<0.844	<0.924	<0.849	<0.987	<0.999	<0.875	<0.935	<0.822	<0.907	<0.951	<0.911	<0.838	<0.881	<0.952	<0.935	<0.947	<0.875	<0.917	<0.899	<0.820	<0.898	<1.03	<1.03
1,3-Dichlorobenzene	mg/kg	<0.890	<0.844	<0.924	<0.849	<0.987	<0.999	<0.875	<0.935	<0.822	<0.907	<0.951	<0.911	<0.838	<0.881	<0.952	<0.935	<0.947	<0.875	<0.917	<0.899	<0.820	<0.898	<1.03	<1.03
1,4-Dichlorobenzene	mg/kg	<0.446	<0.423	<0.463	<0.426	<0.495	<0.501	<0.439	<0.469	<0.412	<0.455	<0.477	<0.457	<0.420	<0.442	<0.477	<0.469	<0.475	<0.439	<0.460	<0.451	<0.411	<0.450	<0.516	<0.515
2,4,5-Trichlorophenol	mg/kg	<0.890	<0.844	<0.924	<0.849	<0.987	<0.999	<0.875	<0.935	<0.822	<0.907	<0.951	<0.911	<0.838	<0.881	<0.952	<0.935	<0.947	<0.875	<0.917	<0.899	<0.820	<0.898	<1.03	<1.03
2,4,6-Trichlorophenol	mg/kg	<0.890	<0.844	<0.924	<0.849	<0.987	<0.999	<0.875	<0.935	<0.822	<0.907	<0.951	<0.911	<0.838	<0.881	<0.952	<0.935	<0.947	<0.875	<0.917	<0.899	<0.820	<0.898	<1.03	<1.03
2,4-Dichlorophenol	mg/kg	<0.890	<0.844	<0.924	<0.849	<0.987	<0.999	<0.875	<0.935	<0.822	<0.907	<0.951	<0.911	<0.838	<0.881	<0.952	<0.935	<0.947	<0.875	<0.917	<0.899	<0.820	<0.898	<1.03	<1.03
2,4-Dimethylphenol	mg/kg	<0.890	<0.844	<0.924	<0.849	<0.987	<0.999	<0.875	<0.935	<0.822	<0.907	<0.951	<0.911	<0.838	<0.881	<0.952	<0.935	<0.947	<0.875	<0.917	<0.899	<0.820	<0.898	<1.03	<1.03
2,4-Dinitrophenol	mg/kg	<4.46	<4.23	<4.63	<4.26	<4.95	<5.01	<4.39	<4.69	<4.12	<4.55	<4.77	<4.57	<4.20	<4.42	<4.77	<4.69	<4.75	<4.39	<4.60	<4.51	<4.11	<4.50	<5.16	<5.15
2,4-Dinitrotoluene	mg/kg	<0.890	<0.844	<0.924	<0.849	<0.987	<0.999	<0.875	<0.935	<0.822	<0.907	<0.951	<0.911	<0.838	<0.881	<0.952	<0.935	<0.947	<0.875	<0.917	<0.899	<0.820	<0.898	<1.03	<1.03
2,6-Dinitrotoluene	mg/kg	<0.890	<0.844	<0.924	<0.849	<0.987	<0.999	<0.875	<0.935	<0.822	<0.907	<0.951	<0.911	<0.838	<0.881	<0.952	<0.935	<0.947	<0.875	<0.917	<0.899	<0.820	<0.898	<1.03	<1.03
2-Chloronaphthalene	mg/kg	<0.890	<0.844	<0.924	<0.849	<0.987	<0.999	<0.875	<0.935	<0.822	<0.907	<0.951	<0.911	<0.838	<0.881	<0.952	<0.935	<0.947	<0.875	<0.917	<0.899	<0.820	<0.898	<1.03	<1.03
2-Chlorophenol	mg/kg	<0.890	<0.844	<0.924	<0.849	<0.987	<0.999	<0.875	<0.935	<0.822	<0.907	<0.951	<0.911	<0.838	<0.881	<0.952	<0.935	<0.947	<0.875	<0.917	<0.899	<0.820	<0.898	<1.03	<1.03
2-Methylnaphthalene	mg/kg	<0.890	<0.844	<0.924	<0.849	<0.987	<0.999	<0.875	<0.935	<0.822	<0.907	<0.951	<0.911	<0.838	<0.881	<0.952	<0.935	<0.947	<0.875	<0.917	<0.899	<0.820	<0.898	<1.03	<1.03
2-Methylphenol	mg/kg	<0.890	<0.844	<0.924	<0.849	<0.987	<0.999	<0.875	<0.935	<0.822	<0.907	<0.951	<0.911	<0.838	<0.881	<0.952	<0.935	<0.947	<0.875	<0.917	<0.899	<0.820	<0.898	<1.03	<1.03
2-Nitrophenol	mg/kg	<0.890	<0.844	<0.924	<0.849	<0.987	<0.999	<0.875	<0.935	<0.822	<0.907	<0.951	<0.911	<0.838	<0.881	<0.952	<0.935	<0.947	<0.875	<0.917	<0.899	<0.820	<0.898	<1.03	<1.03
3,3´-Dichlorobenzidine	mg/kg	<1.78	<1.69	<1.85	<1.70	<1.98	<2.00	<1.75	<1.87	<1.65	<1.82	<1.90	<1.83	<1.68	<1.76	<1.91	<1.87	<1.90	<1.75	<1.84	<1.80	<1.64	<1.80	<2.06	<2.06
3+4-Methylphenol	mg/kg	<1.78	<1.69	<1.85	<1.70	<1.98	<2.00	<1.75	<1.87	<1.65	<1.82	<1.90	<1.83	<1.68	<1.76	<1.91	<1.87	<1.90	<1.75	<1.84	<1.80	<1.64	<1.80	<2.06	<2.06
4-Bromophenyl-phenylether	mg/kg	<0.890	<0.844	<0.924	<0.849	<0.987	<0.999	<0.875	<0.935	<0.822	<0.907	<0.951	<0.911	<0.838	<0.881	<0.952	<0.935	<0.947	<0.875	<0.917	<0.899	<0.820	<0.898	<1.03	<1.03
4-Chloroaniline	mg/kg	<1.78	<1.69	<1.85	<1.70	<1.98	<2.00	<1.75	<1.87	<1.65	<1.82	<1.90	<1.83	<1.68	<1.76	<1.91	<1.87	<1.90	<1.75	<1.84	<1.80	<1.64	<1.80	<2.06	<2.06
4-Nitrophenol	mg/kg	<4.46	<4.23	<4.63	<4.26	<4.95	<5.01	<4.39	<4.69	<4.12	<4.55	<4.77	<4.57	<4.20	<4.42	<4.77	<4.69	<4.75	<4.39	<4.60	<4.51	<4.11	<4.50	<5.16	<5.15
Acenaphthene	mg/kg	<0.890	<0.844	<0.924	<0.849	<0.987	<0.999	<0.875	<0.935	<0.822	<0.907	<0.951	<0.911	<0.838	<0.881	<0.952	<0.935	<0.947	<0.875	<0.917	<0.899	<0.820	<0.898	<1.03	<1.03
Acenaphthylene	mg/kg	<0.890	<0.844	<0.924	<0.849	<0.987	<0.999	<0.875	<0.935	<0.822	<0.907	<0.951	<0.911	<0.838	<0.881	<0.952	<0.935	<0.947	<0.875	<0.917	<0.899	<0.820	<0.898	<1.03	<1.03
Acetophenone	mg/kg	<1.78	<1.69	<1.85	<1.70	<1.98	<2.00	<1.75	<1.87	<1.65	<1.82	<1.90	<1.83	<1.68	<1.76	<1.91	<1.87	<1.90	<1.75	<1.84	<1.80	<1.64	<1.80	<2.06	<2.06
Aniline	mg/kg	<4.46	<4.23	<4.63	<4.26	<4.95	<5.01	<4.39	<4.69	<4.12	<4.55	<4.77	<4.57	<4.20	<4.42	<4.77	<4.69	<4.75	<4.39	<4.60	<4.51	<4.11	<4.50	<5.16	<5.15
Anthracene	mg/kg	<0.890	<0.844	<0.924	1.17	<0.987	<0.999	<0.875	<0.935	<0.822	<0.907	<0.951	<0.911	<0.838	<0.881	<0.952	<0.935	<0.947	<0.875	<0.917	<0.899	<0.820	<0.898	<1.03	<1.03
Azobenzene	mg/kg	<0.890	<0.844	<0.924	<0.849	<0.987	<0.999	<0.875	<0.935	<0.822	<0.907	<0.951	<0.911	<0.838	<0.881	<0.952	<0.935	<0.947	<0.875	<0.917	<0.899	<0.820	<0.898	<1.03	<1.03
Benzo(a)anthracene	mg/kg	<0.890	<0.844	<0.924	2.25	<0.987	<0.999	<0.875	<0.935	<0.822	<0.907	<0.951	<0.911	<0.838	<0.881	<0.952	<0.935	<0.947	<0.875	<0.917	<0.899	<0.820	1.4	<1.03	<1.03
Benzo(a)pyrene	mg/kg	<0.446	<0.423	<0.463	2.3	<0.495	<0.501	<0.439	<0.469	<0.412	<0.455	<0.477	<0.457	<0.420	<0.442	<0.477	<0.469	<0.475	<0.439	<0.460	<0.451	<0.411	1.15	<0.516	<0.515
Benzo(b)fluoranthene	mg/kg	<0.890	<0.844	<0.924	3.11	<0.987	<0.999	<0.875	<0.935	<0.822	<0.907	<0.951	<0.911	<0.838	<0.881	<0.952	<0.935	<0.947	<0.875	<0.917	<0.899	<0.820	1.51	<1.03	<1.03
Benzo(g,h,i)perylene	mg/kg	<0.890	<0.844	<0.924	<0.849	<0.987	<0.999	<0.875	<0.935	<0.822	<0.907	<0.951	<0.911	<0.838	<0.881	<0.952	<0.935	<0.947	<0.875	<0.917	<0.899	<0.820	<0.898	<1.03	<1.03
Benzo(k)fluoranthene	mg/kg	<0.890	<0.844	<0.924	1.41	<0.987	<0.999	<0.875	<0.935	<0.822	<0.907	<0.951	<0.911	<0.838	<0.881	<0.952	<0.935	<0.947	<0.875	<0.917	<0.899	<0.820	<0.898	<1.03	<1.03
bis(2-Chloroethoxy)methane	mg/kg	<0.890	<0.844	<0.924	<0.849	<0.987	<0.999	<0.875	<0.935	<0.822	<0.907	<0.951	<0.911	<0.838	<0.881	<0.952	<0.935	<0.947	<0.875	<0.917	<0.899	<0.820	<0.898	<1.03	<1.03
bis(2-Chloroethyl)ether	mg/kg	<0.446	<0.423	<0.463	<0.426	<0.495	<0.501	<0.439	<0.469	<0.412	<0.455	<0.477	<0.457	<0.420	<0.442	<0.477	<0.469	<0.475	<0.439	<0.460	<0.451	<0.411	<0.450	<0.516	<0.515
bis(2-chloroisopropyl)Ether	mg/kg	<0.446	<0.423	<0.463	<0.426	<0.495	<0.501	<0.439	<0.469	<0.412	<0.455	<0.477	<0.457	<0.420	<0.442	<0.477	<0.469	<0.475	<0.439	<0.460	<0.451	<0.411	<0.450	<0.516	<0.515
bis(2-Ethylhexyl)phthalate	mg/kg	<0.890	<0.844	<0.924	1.23	<0.987	<0.999	<0.875	<0.935	<0.822	<0.907	<0.951	<0.911	<0.838	<0.881	<0.952	<0.935	<0.947	<0.875	<0.917	<0.899	<0.820	<0.898	<1.03	<1.03
Butylbenzylphthalate	mg/kg	<0.890	<0.844	<0.924	<0.849	<0.987	<0.999	<0.875	<0.935	<0.822	<0.907	<0.951	<0.911	<0.838	<0.881	<0.952	<0.935	<0.947	<0.875	<0.917	<0.899	<0.820	<0.898	<1.03	<1.03
Chrysene	mg/kg	<0.446	<0.423	<0.463	2.25	<0.495	<0.501	<0.439	<0.469	<0.412	<0.455	<0.477	<0.457	<0.420	<0.442	<0.477	<0.469	<0.475	<0.439	<0.460	<0.451	<0.411	1.47	<0.516	<0.515
Dibenzo(a,h)Anthracene	mg/kg	<0.446	<0.423	<0.463	<0.426	<0.495	<0.501	<0.439	<0.469	<0.412	<0.455	<0.477	<0.457	<0.420	<0.442	<0.477	<0.469	<0.475	<0.439	<0.460	<0.451	<0.411	<0.450	<0.516	<0.515
Dibenzofuran	mg/kg	<0.890	<0.844	<0.924	<0.849	<0.987	<0.999	<0.875	<0.935	<0.822	<0.907	<0.951	<0.911	<0.838	<0.881	<0.952	<0.935	<0.947	<0.875	<0.917	<0.899	<0.820	<0.898	<1.03	<1.03
Diethylphthalate	mg/kg	<0.890	<0.844	<0.924	<0.849	<0.987	<0.999	<0.875	<0.935	<0.822	<0.907	<0.951	<0.911	<0.838	<0.881	<0.952	<0.935	<0.947	<0.875	<0.917	<0.899	<0.820	<0.898	<1.03	<1.03
Dimethylphthalate	mg/kg	<0.890	<0.844	<0.924	<0.849	<0.987	<0.999	<0.875	<0.935	<0.822	<0.907	<0.951	<0.911	<0.838	<0.881	<0.952	<0.935	<0.947	<0.875	<0.917	<0.899	<0.820	<0.898	<1.03	<1.03
Di-n-butylphthalate	mg/kg	<0.890	<0.844	<0.924	<0.849	<0.987	<0.999	<0.875	<0.935	<0.822	<0.907	<0.951	<0.911	<0.838	<0.881	<0.952	<0.935	<0.947	<0.875	<0.917	<0.899	<0.820	<0.898	<1.03	<1.03
Di-n-octylphthalate	mg/kg	<0.890	<0.844	<0.924	<0.849	<0.987	<0.999	<0.875	<0.935	<0.822	<0.907	<0.951	<0.911	<0.838	<0.881	<0.952	<0.935	<0.947	<0.875	<0.917	<0.899	<0.820	<0.898	<1.03	<1.03
Fluoranthene	mg/kg	<0.890	<0.844	<0.924	5.29	<0.987	<0.999	<0.875	<0.935	<0.822	<0.907	<0.951	<0.911	<0.838	<0.881	<0.952	<0.935	<0.947	<0.875	<0.917	<0.899	<0.820	2.94	<1.03	<1.03
Fluorene	mg/kg	<0.890	<0.844	<0.924	<0.849	<0.987	<0.999	<0.875	<0.935	<0.822	<0.907	<0.951	<0.911	<0.838	<0.881	<0.952	<0.935	<0.947	<0.875	<0.917	<0.899	<0.820	<0.898	<1.03	<1.03
Hexachlorobenzene	mg/kg	<0.446	<0.423	<0.463	<0.426	<0.495	<0.501	<0.439	<0.469	<0.412	<0.455	<0.477	<0.457	<0.420	<0.442	<0.477	<0.469	<0.475	<0.439	<0.460	<0.451	<0.411	<0.450	<0.516	<0.515
Hexachlorobutadiene	mg/kg	<0.890	<0.844	<0.924	<0.849	<0.987	<0.999	<0.875	<0.935	<0.822	<0.907	<0.951	<0.911	<0.838	<0.881	<0.952	<0.935	<0.947	<0.875	<0.917	<0.899	<0.820	<0.898	<1.03	<1.03
Hexachloroethane	mg/kg	<0.890	<0.844	<0.924	<0.849	<0.987	<0.999	<0.875	<0.935	<0.822	<0.907	<0.951	<0.911	<0.838	<0.881	<0.952	<0.935	<0.947	<0.875	<0.917	<0.899	<0.820	<0.898	<1.03	<1.03
Indeno(1,2,3-cd)Pyrene	mg/kg	<0.890	<0.844	<0.924	<0.849	<0.987	<0.999	<0.875	<0.935	<0.822	<0.907	<0.951	<0.911	<0.838	<0.881	<0.952	<0.935	<0.947	<0.875	<0.917	<0.899	<0.820	<0.898	<1.03	<1.03
Isophorone	mg/kg	<0.890	<0.844	<0.924	<0.849	<0.987	<0.999	<0.875	<0.935	<0.822	<0.907	<0.951	<0.911	<0.838	<0.881	<0.952	<0.935	<0.947	<0.875	<0.917	<0.899	<0.820	<0.898	<1.03	<1.03
Naphthalene	mg/kg	<0.890	<0.844	<0.924	<0.849	<0.987	<0.999	<0.875	<0.935	<0.822	<0.907	<0.951	<0.911	<0.838	<0.881	<0.952	<0.935	<0.947	<0.875	<0.917	<0.899	<0.820	<0.898	<1.03	<1.03
Nitrobenzene	mg/kg	<0.890	<0.844	<0.924	<0.849	<0.987	<0.999	<0.875	<0.935	<0.822	<0.907	<0.951	<0.911	<0.838	<0.881	<0.952	<0.935	<0.947	<0.875	<0.917	<0.899	<0.820	<0.898	<1.03	<1.03
N-Nitrosodimethylamine	mg/kg	<0.890	<0.844	<0.924	<0.849	<0.987	<0.999	<0.875	<0.935	<0.822	<0.907	<0.951	<0.911	<0.838	<0.881	<0.952	<0.935	<0.947	<0.875	<0.917	<0.899	<0.820	<0.898	<1.03	<1.03
Pentachlorophenol	mg/kg	<4.46	<4.23	<4.63	<4.26	<4.95	<5.01	<4.39	<4.69	<4.12	<4.55	<4.77	<4.57	<4.20	<4.42	<4.77	<4.69	<4.75	<4.39	<4.60	<4.51	<4.11	<4.50	<5.16	<5.15
Phenanthrene	mg/kg	<0.890	<0.844	<0.924	4.01	<0.987	<0.999	<0.875	<0.935	<0.822	<0.907	<0.951	<0.911	<0.838	<0.881	<0.952	<0.935	<0.947	<0.875	<0.917	<0.899	<0.820	2.25	<1.03	<1.03
Phenol	mg/kg	<0.890	<0.844	<0.924	<0.849	<0.987	<0.999	<0.875	<0.935	<0.822	<0.907	<0.951	<0.911	<0.838	<0.881	<0.952	<0.935	<0.947	<0.875	<0.917	<0.899	<0.820	<0.898	<1.03	<1.03
Pyrene	mg/kg	<0.890	<0.844	<0.924	3.73	<0.987	<0.999	<0.875	<0.935	<0.822	<0.907	<0.951	<0.911	<0.838	<0.881	<0.952	<0.935	<0.947	<0.875	<0.917	<0.899	<0.820	2.55	<1.03	<1.03
Total SVOCs	mg/kg	ND	ND	ND	26.75	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	13.27	ND	ND
Classic Chemistry																									
Corrosivity (pH)	S.U.	6	4.76	4.71	8.32	4.43	3.79	4	4.46	4.89	4.74	4.4	4.98	8.85	7.55	6.21	4.91	5.3	5.66	5.89	5.17	8.7	9.38	6.46	4.71
Conductivity	umhos/cm	149	653	1070	327	1190	1530	1720	1030	408	940	1920	1740	100	948	1970	1330	374	1280	1180	1630	157	1090	1040	934
Flashpoint	°F	--	--	--	>200	>200	>200	>200	--	--	--	--	--	>200	>200	>200	--	--	--	--	--	>200	>200	>200	>200
Reactive Cyanide	mg/kg	--	--	--	<2.0	<2.0	<2.0	<2.0	--	--	--	--	--	<2.0	<2.0	<2.0	--	--	--	--	--	<2.0	<2.0	<2.0	<2.0
Reactive Sulfide	mg/kg	--	--	--	<2.0	<2.0	<2.0	<2.0	--	--	--	--	--	<2.0	<2.0	<2.0	--	--	--	--	--	<2.0	<2.0	<2.0	<2.0

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	C14 C14S07 1412473 Natural Organics 12 - 14 12/22/2014	C14 C14S08 1412473 Natural Sand/Gravel 19 - 21 12/22/2014	C14 C14S09 1412502 Natural Sand/Gravel 24 - 26 12/23/2014	C14 C14S10 1412502 Natural Sand/Gravel 29 - 31 12/23/2014	C14 C14S11S12 1412502 Natural Sand/Gravel 34 - 38 12/23/2014	C15 C15S01S02A 1412439 Fill 0 - 3.3 12/19/2014	C15 C15S02BS04A 1412439 Fill 3.3 - 6.6 12/19/2014	C15 C15S04BS05 1412439 Fill 6.6 - 10 12/19/2014	C15 C15S06S07A 1412473 Fill 10 - 13.3 12/22/2014	C15 C15S07BS09A 1412473 Fill 13.3 - 16.6 12/22/2014	C15 C15S09BS10 1412473 Fill 16.6 - 20 12/22/2014	C15 C15S11 1412473 Natural Clay 20 - 22 12/22/2014	C15 C15S12 1412473 Natural Sand/Gravel 22 - 24 12/22/2014	C15 C15S13 1412473 Natural Sand/Gravel 29 - 31 12/22/2014	C15 C15S14S15 1412473 Natural Sand/Gravel 34 - 38 12/22/2014	C16 C16S01S02A 1412409 Fill 0 - 3.3 12/18/2014	C16 C16S02BS04A 1412439 Fill 3.3 - 6.6 12/19/2014	C16 C16S04BS05 1412439 Fill 6.6 - 10 12/19/2014	C16 C16S06 1412439 Natural Sand/Gravel 10 - 12 12/19/2014	C16 C16S07 1412439 Natural Sand/Gravel 14 - 16 12/19/2014	C16 C16S08 1412439 Natural Sand/Gravel 19 - 21 12/19/2014	C16 C16S09 1412439 Natural Clay 24 - 26 12/19/2014	C16 C16S10 1412439 Natural Sand/Gravel 29 - 31 12/19/2014	C16 C16S11S12 1412439 Natural Sand/Gravel 34 - 38 12/19/2014
Preliminary Disposal Facility Category		MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Uncontaminated	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type B-1	MCP Regulated Material Type B-2	Hazardous Material Type A	Hazardous Material Type A	Uncontaminated	MCP Regulated Material Type B-2	MCP Restricted	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Restricted	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Material Type B-2
RCRA 8 Metals	**Units**																									
Arsenic	mg/kg	6.41	<3.07	<2.80	<2.48	2.63	4.16	7.45	142	26.5	15.7	63.8	136	13.7	<2.71	<2.59	8.12	10.3	4.06	<2.52	5.63	18.8	350	7.3	<2.27
Barium	mg/kg	23.8	18.8	6.12	13.2	11.2	12.9	34.9	188	111	294	20.9	16.5	10.4	13.3	14.6	27.3	45.2	92.2	53.2	86.8	97.8	206	12.4	26.8
Cadmium	mg/kg	<0.69	<0.61	<0.56	<0.50	<0.51	<0.47	<0.60	3.81	<0.61	1.58	1.01	1.17	<0.44	<0.54	<0.52	<0.49	5.26	<0.45	<0.50	<0.69	<0.60	5.54	<0.46	<0.45
Chromium	mg/kg	23.2	2.33	1.37	1.45	2.38	15.4	17.2	3.29	5.95	<1.15	17.4	10.5	5.46	<1.09	2.36	23.1	205	27.9	<1.01	<1.37	1.66	135	2.92	<0.91
Lead	mg/kg	8.27	251	114	288	89.6	13.1	230	302	185	1300	36.9	18.9	45.1	327	181	29	3040	377	41.9	40.9	61.6	4350	118	366
Selenium	mg/kg	<13.9	<12.3	<11.2	<9.94	<10.1	<9.38	<12.0	<11.8	<12.3	<11.5	<10.3	<9.88	<8.81	<10.9	<10.4	<9.73	<9.73	<8.95	<10.1	<13.7	<12.1	217	<9.17	<9.07
Silver	mg/kg	<0.69	<0.61	<0.56	<0.50	<0.51	<0.47	0.6	5.65	1.15	6.13	1.25	<0.49	<0.44	<0.54	<0.52	<0.49	1.95	1.08	<0.50	<0.69	<0.60	2.91	<0.46	<0.45
Mercury	mg/kg	<0.047	<0.038	<0.036	<0.034	<0.034	<0.028	0.335	0.637	0.403	1.86	0.338	0.059	0.042	<0.039	<0.035	0.782	1.92	0.954	<0.030	<0.045	0.841	21.6	0.079	<0.035
Metals by Toxicity Characteristic Leaching Procedure (TCLP)																									
Arsenic	mg/L	--	--	--	--	--	--	--	<0.050	--	--	--	0.055	--	--	--	--	--	--	--	--	--	0.718	--	--
Cadmium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.020	--	--	--	--	0.043	--	--
Lead	mg/L	--	<0.050	0.313	3.25	--	--	3.48	<0.050	1.01	25.6	--	--	--	8.35	4.77	--	0.838	0.19	--	--	--	0.062	<0.050	9.95
Selenium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.100	--	--
Mercury	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.00050	--	--
Herbicides																									
2,4,5-T	mg/kg	--	--	--	--	--	<0.21	<0.47	<0.50	<0.069	<0.062	<0.070	<0.056	--	--	--	<0.043	<0.23	<0.32	--	--	--	--	--	--
2,4-D	mg/kg	--	--	--	--	--	<1.1	<2.3	<2.5	<0.069	<0.062	<0.070	<0.056	--	--	--	<0.21	<1.2	<1.6	--	--	--	--	--	--
2,4-DB	mg/kg	--	--	--	--	--	<0.080	<0.18	<0.19	<0.069	<0.062	<0.070	<0.056	--	--	--	<0.016	<0.088	<0.12	--	--	--	--	--	--
Dalapon	mg/kg	--	--	--	--	--	<6.4	<14	<15	<0.83	<0.75	<0.84	<0.68	--	--	--	<1.3	<7.0	<9.7	--	--	--	--	--	--
Dicamba	mg/kg	--	--	--	--	--	<0.32	<0.70	<0.75	<0.069	<0.062	<0.070	<0.056	--	--	--	<0.064	<0.35	<0.49	--	--	--	--	--	--
Dichlorprop	mg/kg	--	--	--	--	--	<0.70	<1.5	<1.6	<0.069	<0.062	<0.070	<0.056	--	--	--	<0.14	<0.76	<1.1	--	--	--	--	--	--
Dinoseb	mg/kg	--	--	--	--	--	<1.1	<2.3	<2.5	<0.42	<0.38	<0.42	<0.34	--	--	--	<0.21	<1.2	<1.6	--	--	--	--	--	--
MCPA	mg/kg	--	--	--	--	--	<270	<580	<630	<17	<15	<17	<14	--	--	--	<53	<290	<400	--	--	--	--	--	--
MCPP	mg/kg	--	--	--	--	--	<270	<580	<630	<17	<15	<17	<14	--	--	--	<53	<290	<400	--	--	--	--	--	--
Silvex (2,4,5-TP)	mg/kg	--	--	--	--	--	<0.21	<0.47	<0.50	<0.069	<0.062	<0.070	<0.056	--	--	--	<0.043	<0.23	<0.32	--	--	--	--	--	--
Pesticides																									
4,4'-DDD	mg/kg	--	--	--	--	--	<0.0018	<0.0097	<0.010	<0.0024	<0.0021	<0.0024	<0.0022	--	--	--	<0.0018	<0.0039	<0.014	--	--	--	--	--	--
4,4'-DDE	mg/kg	--	--	--	--	--	<0.0018	<0.0097	<0.010	<0.0024	<0.0021	<0.0024	<0.0022	--	--	--	<0.0018	<0.0039	<0.014	--	--	--	--	--	--
4,4'-DDT	mg/kg	--	--	--	--	--	<0.0018	<0.0097	<0.010	<0.0024	<0.0021	<0.0024	<0.0022	--	--	--	<0.0018	<0.0039	<0.014	--	--	--	--	--	--
Aldrin	mg/kg	--	--	--	--	--	<0.0018	<0.0097	<0.010	<0.0024	<0.0021	<0.0024	<0.0022	--	--	--	<0.0018	<0.0039	<0.014	--	--	--	--	--	--
alpha-BHC	mg/kg	--	--	--	--	--	<0.0018	<0.0097	<0.010	<0.0024	<0.0021	<0.0024	<0.0022	--	--	--	<0.0018	<0.0039	<0.014	--	--	--	--	--	--
beta-BHC	mg/kg	--	--	--	--	--	<0.0018	<0.0097	<0.010	<0.0024	<0.0021	<0.0024	<0.0022	--	--	--	<0.0018	<0.0039	<0.014	--	--	--	--	--	--
Chlordane (technical)	mg/kg	--	--	--	--	--	<0.018	<0.097	<0.10	<0.024	<0.021	<0.024	<0.022	--	--	--	<0.018	<0.039	<0.14	--	--	--	--	--	--
delta-BHC	mg/kg	--	--	--	--	--	<0.0018	<0.0097	<0.010	<0.0024	<0.0021	<0.0024	<0.0022	--	--	--	<0.0018	<0.0039	<0.014	--	--	--	--	--	--
Dieldrin	mg/kg	--	--	--	--	--	<0.0018	<0.0097	<0.010	<0.0024	<0.0021	<0.0024	<0.0022	--	--	--	<0.0018	<0.0039	<0.014	--	--	--	--	--	--
Endosulfan I	mg/kg	--	--	--	--	--	<0.0018	<0.0097	<0.010	<0.0024	<0.0021	<0.0024	<0.0022	--	--	--	<0.0018	<0.0039	<0.014	--	--	--	--	--	--
Endosulfan II	mg/kg	--	--	--	--	--	<0.0018	<0.0097	<0.010	<0.0024	<0.0021	<0.0024	<0.0022	--	--	--	<0.0018	<0.0039	<0.014	--	--	--	--	--	--
Endosulfan sulfate	mg/kg	--	--	--	--	--	<0.0018	<0.0097	<0.010	<0.0024	<0.0021	<0.0024	<0.0022	--	--	--	<0.0018	<0.0039	<0.014	--	--	--	--	--	--
Endrin	mg/kg	--	--	--	--	--	<0.0018	<0.0097	<0.010	<0.0024	<0.0021	<0.0024	<0.0022	--	--	--	<0.0018	<0.0039	<0.014	--	--	--	--	--	--
Endrin ketone	mg/kg	--	--	--	--	--	<0.0018	<0.0097	<0.010	<0.0024	<0.0021	<0.0024	<0.0022	--	--	--	<0.0018	<0.0039	<0.014	--	--	--	--	--	--
gamma-BHC (Lindane)	mg/kg	--	--	--	--	--	<0.0018	<0.0097	<0.010	<0.0024	<0.0021	<0.0024	<0.0022	--	--	--	<0.0018	<0.0039	<0.014	--	--	--	--	--	--
Heptachlor	mg/kg	--	--	--	--	--	<0.0018	<0.0097	<0.010	<0.0024	<0.0021	<0.0024	<0.0022	--	--	--	<0.0018	<0.0039	<0.014	--	--	--	--	--	--
Heptachlor epoxide	mg/kg	--	--	--	--	--	<0.0018	<0.0097	<0.010	<0.0024	<0.0021	<0.0024	<0.0022	--	--	--	<0.0018	<0.0039	<0.014	--	--	--	--	--	--
Hexachlorobenzene	mg/kg	--	--	--	--	--	0.0023	<0.0097	<0.010	<0.0024	<0.0021	<0.0024	<0.0022	--	--	--	<0.0018	<0.0039	<0.014	--	--	--	--	--	--
Methoxychlor	mg/kg	--	--	--	--	--	<0.0018	<0.0097	<0.010	<0.0024	<0.0021	<0.0024	<0.0022	--	--	--	<0.0018	<0.0039	<0.014	--	--	--	--	--	--
Polychlorinated Biphenyls																									
Aroclor 1016	mg/kg	<0.177	<0.154	<0.147	<0.140	<0.133	<0.131	<0.137	<0.149	<0.147	<0.156	<0.143	<0.139	<0.145	<0.155	<0.139	<0.133	<2.78	<0.135	<0.147	<0.164	<0.160	<0.195	<0.136	<0.130
Aroclor 1221	mg/kg	<0.177	<0.154	<0.147	<0.140	<0.133	<0.131	<0.137	<0.149	<0.147	<0.156	<0.143	<0.139	<0.145	<0.155	<0.139	<0.133	<2.78	<0.135	<0.147	<0.164	<0.160	<0.195	<0.136	<0.130
Aroclor 1232	mg/kg	<0.177	<0.154	<0.147	<0.140	<0.133	<0.131	<0.137	<0.149	<0.147	<0.156	<0.143	<0.139	<0.145	<0.155	<0.139	<0.133	<2.78	<0.135	<0.147	<0.164	<0.160	<0.195	<0.136	<0.130
Aroclor 1242	mg/kg	<0.177	<0.154	<0.147	<0.140	<0.133	<0.131	<0.137	<0.149	<0.147	<0.156	<0.143	<0.139	<0.145	<0.155	<0.139	<0.133	<2.78	<0.135	<0.147	<0.164	<0.160	<0.195	<0.136	<0.130
Aroclor 1248	mg/kg	<0.177	<0.154	<0.147	<0.140	<0.133	<0.131	<0.137	<0.149	<0.147	<0.156	<0.143	<0.139	<0.145	<0.155	<0.139	<0.133	<2.78	<0.135	<0.147	<0.164	<0.160	<0.195	<0.136	<0.130
Aroclor 1254	mg/kg	<0.177	<0.154	<0.147	<0.140	<0.133	<0.131	0.45	<0.149	<0.147	<0.156	<0.143	<0.139	<0.145	<0.155	<0.139	<0.133	28.7	5.97	<0.147	<0.164	<0.160	<0.195	<0.136	<0.130
Aroclor 1260	mg/kg	<0.177	<0.154	<0.147	<0.140	<0.133	<0.131	<0.137	<0.149	<0.147	<0.156	<0.143	<0.139	<0.145	<0.155	<0.139	<0.133	12.2	<0.135	<0.147	<0.164	<0.160	<0.195	<0.136	<0.130
Aroclor 1262	mg/kg	<0.177	<0.154	<0.147	<0.140	<0.133	<0.131	0.433	<0.149	<0.147	<0.156	<0.143	<0.139	<0.145	<0.155	<0.139	<0.133	<2.78	<0.135	<0.147	<0.164	<0.160	<0.195	<0.136	<0.130
Aroclor 1268	mg/kg	<0.177	<0.154	<0.147	<0.140	<0.133	<0.131	<0.137	<0.149	<0.147	<0.156	<0.143	<0.139	<0.145	<0.155	<0.139	<0.133	<2.78	<0.135	<0.147	<0.164	<0.160	<0.195	<0.136	<0.130
Total PCBs	mg/kg	ND	ND	ND	ND	ND	ND	0.883	ND	ND	ND	ND	ND	ND	ND	ND	ND	40.9	5.97	ND	ND	ND	ND	ND	ND
Total Petroleum Hydrocarbons	mg/kg	63	<46.9	<43.0	<40.3	<43.2	39	226	1000	712	151	<47.1	<48.1	<46.6	<44.0	<46.7	<41.5	6970	1630	<46.1	65.6	91.2	684	<45.7	<42.0
Volatile Organic Compounds (VOCs)																									
1,1,1,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0901	--	--	--	--	--	--
1,1,1-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0450	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0450	--	--	--	--	--	--
1,1,2-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0450	--	--	--	--	--	--
1,1-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0450	--	--	--	--	--	--
1,1-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0450	--	--	--	--	--	--
1,1-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0450	--	--	--	--	--	--
1,2,3-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0450	--	--	--	--	--	--
1,2,3-Trichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0450	--	--	--	--	--	--
1,2,4-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0450	--	--	--	--	--	--
1,2,4-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.163	--	--	--	--	--	--
1,2-Dibromo-3-Chloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.180	--	--	--	--	--	--
1,2-Dibromoethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0450	--	--	--	--	--	--
1,2-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0450	--	--	--	--	--	--
1,2-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0450	--	--	--	--	--	--
1,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0450	--	--	--	--	--	--
1,3,5-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0622	--	--	--	--	--	--
1,3-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0450	--	--	--	--	--	--
1,3-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0450	--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0450	--	--	--	--	--	--
1,4-Dioxane - Screen	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<4.50	--	--	--	--	--	--
2,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0901	--	--	--	--	--	--
2-Butanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.180	--	--	--	--	--	--
2-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0450	--	--	--	--	--	--
2-Hexanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.180	--	--	--	--	--	--
4-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0450	--	--	--	--	--	--
4-Isopropyltoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0450	--	--	--	--	--	--
4-Methyl-2-Pentanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.180	--	--	--	--	--	--
Acetone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.180	--	--	--	--	--	--
Benzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0450	--	--	--	--	--	--
Bromobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0450	--	--	--	--	--	--
Bromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0450	--	--	--	--	--	--
Bromodichloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0450	--	--	--	--	--	--
Bromoform	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0450	--	--	--	--	--	--
Bromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0901	--	--	--	--	--	--
Carbon Disulfide	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0450	--	--	--	--	--	--
Carbon Tetrachloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0450	--	--	--	--	--	--

Analyte	Precharacterization Cell	C14	C14	C14	C14	C14	C15	C15	C15	C15	C15	C15	C15	C15	C15	C15	C16	C16	C16	C16	C16	C16	C16	C16
	Sample ID	C14S07	C14S08	C14S09	C14S10	C14S11S12	C15S01S02A	C15S02BS04A	C15S04BS05	C15S06S07A	C15S07BS09A	C15S09BS10	C15S11	C15S12	C15S13	C15S14S15	C16S01S02A	C16S02BS04A	C16S04BS05	C16S06	C16S07	C16S08	C16S09	C16S10	C16S11S12
	Laboratory Work Order	1412473	1412473	1412502	1412502	1412502	1412439	1412439	1412439	1412473	1412473	1412473	1412473	1412473	1412473	1412473	1412409	1412439	1412439	1412439	1412439	1412439	1412439	1412439	1412439
	Soil Distinction	Natural	Natural	Natural	Natural	Natural	Fill	Fill	Fill	Fill	Fill	Fill	Natural	Natural	Natural	Natural	Fill	Fill	Fill	Natural	Natural	Natural	Natural	Natural	Natural
	Soil Type	Organics	Sand/Gravel	Sand/Gravel	Sand/Gravel	Sand/Gravel							Clay	Sand/Gravel	Sand/Gravel	Sand/Gravel				Sand/Gravel	Sand/Gravel	Sand/Gravel	Clay	Sand/Gravel	Sand/Gravel
	Depth Interval (ft.)	12 - 14	19 - 21	24 - 26	29 - 31	34 - 38	0 - 3.3	3.3 - 6.6	6.6 - 10	10 - 13.3	13.3 - 16.6	16.6 - 20	20 - 22	22 - 24	29 - 31	34 - 38	0 - 3.3	3.3 - 6.6	6.6 - 10	10 - 12	14 - 16	19 - 21	24 - 26	29 - 31	34 - 38
	Sampling Date	12/22/2014	12/22/2014	12/23/2014	12/23/2014	12/23/2014	12/19/2014	12/19/2014	12/19/2014	12/22/2014	12/22/2014	12/22/2014	12/22/2014	12/22/2014	12/22/2014	12/22/2014	12/18/2014	12/19/2014	12/19/2014	12/19/2014	12/19/2014	12/19/2014	12/19/2014	12/19/2014	12/19/2014	12/19/2014
Preliminary Disposal Facility Category		MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Uncontaminated	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type B-1	MCP Regulated Material Type B-2	Hazardous Material Type A	Hazardous Material Type A	Uncontaminated	MCP Regulated Material Type B-2	MCP Restricted	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Restricted	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Material Type B-2
Chlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0450	--	--	--	--	--	--
Chloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0901	--	--	--	--	--	--
Chloroform	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0450	--	--	--	--	--	--
Chloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0901	--	--	--	--	--	--
cis-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0450	--	--	--	--	--	--
cis-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0450	--	--	--	--	--	--
Dibromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0450	--	--	--	--	--	--
Dibromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0450	--	--	--	--	--	--
Dichlorodifluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0450	--	--	--	--	--	--
Diethyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0450	--	--	--	--	--	--
Di-isopropyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0450	--	--	--	--	--	--
Ethyl tertiary-butyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0450	--	--	--	--	--	--
Ethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0450	--	--	--	--	--	--
Hexachlorobutadiene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0450	--	--	--	--	--	--
Isopropylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0450	--	--	--	--	--	--
Methyl tert-Butyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0450	--	--	--	--	--	--
Methylene Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.180	--	--	--	--	--	--
Naphthalene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.454	--	--	--	--	--	--
n-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0450	--	--	--	--	--	--
n-Propylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0450	--	--	--	--	--	--
sec-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0450	--	--	--	--	--	--
Styrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0450	--	--	--	--	--	--
tert-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0450	--	--	--	--	--	--
Tertiary-amyl methyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0450	--	--	--	--	--	--
Tetrachloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0450	--	--	--	--	--	--
Tetrahydrofuran	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.180	--	--	--	--	--	--
Toluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0450	--	--	--	--	--	--
trans-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0450	--	--	--	--	--	--
trans-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0450	--	--	--	--	--	--
Trichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0450	--	--	--	--	--	--
Trichlorofluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0450	--	--	--	--	--	--
Vinyl Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0450	--	--	--	--	--	--
Xylene O	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0450	--	--	--	--	--	--
Xylene P,M	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0901	--	--	--	--	--	--
Xylenes (Total)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0901	--	--	--	--	--	--
Total VOCs	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.6792	--	--	--	--	--	--
Volatile Organic Compounds - Low Level Analysis																									
1,1,1,2-Tetrachloroethane	mg/kg	<0.0053	<0.0055	<0.0044	<0.0049	<0.0048	<0.0050	<0.0103	<0.0052	<0.0047	<0.0071	<0.0042	<0.0048	<0.0035	<0.0044	<0.0048	<0.0047	<0.0049	<0.0043	<0.0057	<0.0059	<0.0066	<0.0075	<0.0051	<0.0046
1,1,1-Trichloroethane	mg/kg	<0.0053	<0.0055	<0.0044	<0.0049	<0.0048	<0.0050	<0.0103	<0.0052	<0.0047	<0.0071	<0.0042	<0.0048	<0.0035	<0.0044	<0.0048	<0.0047	<0.0049	<0.0043	<0.0057	<0.0059	<0.0066	<0.0075	<0.0051	<0.0046
1,1,2,2-Tetrachloroethane	mg/kg	<0.0021	<0.0022	<0.0017	<0.0019	<0.0019	<0.0020	<0.0041	<0.0021	<0.0019	<0.0028	<0.0017	<0.0019	<0.0014	<0.0018	<0.0019	<0.0019	<0.0020	<0.0017	<0.0023	<0.0023	<0.0026	<0.0030	<0.0021	<0.0019
1,1,2-Trichloroethane	mg/kg	<0.0053	<0.0055	<0.0044	<0.0049	<0.0048	<0.0050	<0.0103	<0.0052	<0.0047	<0.0071	<0.0042	<0.0048	<0.0035	<0.0044	<0.0048	<0.0047	<0.0049	<0.0043	<0.0057	<0.0059	<0.0066	<0.0075	<0.0051	<0.0046
1,1-Dichloroethane	mg/kg	<0.0053	<0.0055	<0.0044	<0.0049	<0.0048	<0.0050	<0.0103	<0.0052	<0.0047	<0.0071	<0.0042	<0.0048	<0.0035	<0.0044	<0.0048	<0.0047	<0.0049	<0.0043	<0.0057	<0.0059	<0.0066	<0.0075	<0.0051	<0.0046
1,1-Dichloroethene	mg/kg	<0.0053	<0.0055	<0.0044	<0.0049	<0.0048	<0.0050	<0.0103	<0.0052	<0.0047	<0.0071	<0.0042	<0.0048	<0.0035	<0.0044	<0.0048	<0.0047	<0.0049	<0.0043	<0.0057	<0.0059	<0.0066	<0.0075	<0.0051	<0.0046
1,1-Dichloropropene	mg/kg	<0.0053	<0.0055	<0.0044	<0.0049	<0.0048	<0.0050	<0.0103	<0.0052	<0.0047	<0.0071	<0.0042	<0.0048	<0.0035	<0.0044	<0.0048	<0.0047	<0.0049	<0.0043	<0.0057	<0.0059	<0.0066	<0.0075	<0.0051	<0.0046
1,2,3-Trichlorobenzene	mg/kg	<0.0053	<0.0055	<0.0044	<0.0049	<0.0048	<0.0050	<0.0103	<0.0052	<0.0047	<0.0071	<0.0042	<0.0048	<0.0035	<0.0044	<0.0048	<0.0047	<0.0049	<0.0043	<0.0057	<0.0059	<0.0066	<0.0075	<0.0051	<0.0046
1,2,3-Trichloropropane	mg/kg	<0.0053	<0.0055	<0.0044	<0.0049	<0.0048	<0.0050	<0.0103	<0.0052	<0.0047	<0.0071	<0.0042	<0.0048	<0.0035	<0.0044	<0.0048	<0.0047	<0.0049	<0.0043	<0.0057	<0.0059	<0.0066	<0.0075	<0.0051	<0.0046
1,2,4-Trichlorobenzene	mg/kg	<0.0053	<0.0055	<0.0044	<0.0049	<0.0048	<0.0050	<0.0103	<0.0052	<0.0047	<0.0071	<0.0042	<0.0048	<0.0035	<0.0044	<0.0048	<0.0047	<0.0049	<0.0043	<0.0057	<0.0059	<0.0066	<0.0075	<0.0051	<0.0046
1,2,4-Trimethylbenzene	mg/kg	<0.0053	<0.0055	<0.0044	<0.0049	<0.0048	<0.0050	<0.0103	<0.0052	<0.0047	<0.0071	<0.0042	<0.0048	<0.0035	<0.0044	<0.0048	<0.0047	<0.0049	<0.0043	<0.0057	<0.0059	<0.0066	<0.0075	<0.0051	<0.0046
1,2-Dibromo-3-Chloropropane	mg/kg	<0.0053	<0.0055	<0.0044	<0.0049	<0.0048	<0.0050	<0.0103	<0.0052	<0.0047	<0.0071	<0.0042	<0.0048	<0.0035	<0.0044	<0.0048	<0.0047	<0.0049	<0.0043	<0.0057	<0.0059	<0.0066	<0.0075	<0.0051	<0.0046
1,2-Dibromoethane	mg/kg	<0.0053	<0.0055	<0.0044	<0.0049	<0.0048	<0.0050	<0.0103	<0.0052	<0.0047	<0.0071	<0.0042	<0.0048	<0.0035	<0.0044	<0.0048	<0.0047	<0.0049	<0.0043	<0.0057	<0.0059	<0.0066	<0.0075	<0.0051	<0.0046
1,2-Dichlorobenzene	mg/kg	<0.0053	<0.0055	<0.0044	<0.0049	<0.0048	<0.0050	<0.0103	<0.0052	<0.0047	<0.0071	<0.0042	<0.0048	<0.0035	<0.0044	<0.0048	<0.0047	<0.0049	<0.0043	<0.0057	<0.0059	<0.0066	<0.0075	<0.0051	<0.0046
1,2-Dichloroethane	mg/kg	<0.0053	<0.0055	<0.0044	<0.0049	<0.0048	<0.0050	<0.0103	<0.0052	<0.0047	<0.0071	<0.0042	<0.0048	<0.0035	<0.0044	<0.0048	<0.0047	<0.0049	<0.0043	<0.0057	<0.0059	<0.0066	<0.0075	<0.0051	<0.0046
1,2-Dichloropropane	mg/kg	<0.0053	<0.0055	<0.0044	<0.0049	<0.0048	<0.0050	<0.0103	<0.0052	<0.0047	<0.0071	<0.0042	<0.0048	<0.0035	<0.0044	<0.0048	<0.0047	<0.0049	<0.0043	<0.0057	<0.0059	<0.0066	<0.0075	<0.0051	<0.0046
1,3,5-Trimethylbenzene	mg/kg	<0.0053	<0.0055	<0.0044	<0.0049	<0.0048	<0.0050	<0.0103	<0.0052	<0.0047	<0.0071	<0.0042	<0.0048	<0.0035	<0.0044	<0.0048	<0.0047	<0.0049	<0.0043	<0.0057	<0.0059	<0.0066	<0.0075	<0.0051	<0.0046
1,3-Dichlorobenzene	mg/kg	<0.0053	<0.0055	<0.0044	<0.0049	<0.0048	<0.0050	<0.0103	<0.0052	<0.0047	<0.0071	<0.0042	<0.0048	<0.0035	<0.0044	<0.0048	<0.0047	<0.0049	<0.0043	<0.0057	<0.0059	<0.0066	<0.0075	<0.0051	<0.0046
1,3-Dichloropropane	mg/kg	<0.0053	<0.0055	<0.0044	<0.0049	<0.0048	<0.0050	<0.0103	<0.0052	<0.0047	<0.0071	<0.0042	<0.0048	<0.0035	<0.0044	<0.0048	<0.0047	<0.0049	<0.0043	<0.0057	<0.0059	<0.0066	<0.0075	<0.0051	<0.0046
1,4-Dichlorobenzene	mg/kg	<0.0053	<0.0055	<0.0044	<0.0049	<0.0048	<0.0050	<0.0103	<0.0052	<0.0047	<0.0071	<0.0042	<0.0048	<0.0035	<0.0044	<0.0048	<0.0047	<0.0049	<0.0043	<0.0057	<0.0059	<0.0066	<0.0075	<0.0051	<0.0046
1,4-Dioxane	mg/kg	<0.106	<0.109	<0.0873	<0.0973	<0.0955	<0.100	<0.206	<0.104	<0.0935	<0.142	<0.0837	<0.0960	<0.0692	<0.0882	<0.0957	<0.0931	<0.0977	<0.0866	<0.113	<0.117	<0.132	<0.149	<0.103	<0.0930
2,2-Dichloropropane	mg/kg	<0.0053	<0.0055	<0.0044	<0.0049	<0.0048	<0.0050	<0.0103	<0.0052	<0.0047	<0.0071	<0.0042	<0.0048	<0.0035	<0.0044	<0.0048	<0.0047	<0.0049	<0.0043	<0.0057	<0.0059	<0.0066	<0.0075	<0.0051	<0.0046
2-Butanone	mg/kg	<0.0106	<0.0109	<0.0087	<0.0097	<0.0095	<0.0100	<0.0206	0.017	<0.0094	<0.0142	<0.0084	<0.0096	<0.0069	<0.0088	<0.0096	<0.0093	<0.0098	<0.0087	<0.0113	<0.0117	<0.0132	0.0618	<0.0103	<0.0093
2-Chlorotoluene	mg/kg	<0.0053	<0.0055	<0.0044	<0.0049	<0.0048	<0.0050	<0.0103	<0.0052	<0.0047	<0.0071	<0.0042	<0.0048	<0.0035	<0.0044	<0.0048	<0.0047	<0.0049	<0.0043	<0.0057	<0.0059	<0.0066	<0.0075	<0.0051	<0.0046
2-Hexanone	mg/kg	<0.0106	<0.0109	<0.0087	<0.0097	<0.0095	<0.0100	<0.0206	<0.0104	<0.0094	<0.0142	<0.0084	<0.0096	<0.0069	<0.0088	<0.0096	<0.0093	<0.0098	<0.0087	<0.0113	<0.0117	<0.0132	<0.0149	<0.0103	<0.0093
4-Chlorotoluene	mg/kg	<0.0053	<0.0055	<0.0044	<0.0049	<0.0048	<0.0050	<0.0103	<0.0052	<0.0047	<0.0071	<0.0042	<0.0048	<0.0035	<0.0044	<0.0048	<0.0047	<0.0049	<0.0043	<0.0057	<0.0059	<0.0066	<0.0075	<0.0051	<0.0046
4-Isopropyltoluene	mg/kg	<0.0053	<0.0055	<0.0044	<0.0049	<0.0048	<0.0050	<0.0103	<0.0052	<0.0047	<0.0071	<0.0042	<0.0048	<0.0035	<0.0044	<0.0048	<0.0047	<0.0049	<0.0043	<0.0057	<0.0059	<0.0066	0.0116	<0.0051	<0.0046
4-Methyl-2-Pentanone	mg/kg	<0.0106	<0.0109	<0.0087	<0.0097	<0.0095	<0.0100	<0.0206	<0.0104	<0.0094	<0.0142	<0.0084	<0.0096	<0.0069	<0.0088	<0.0096	<0.0093	<0.0098	<0.0087	<0.0113	<0.0117	<0.0132	<0.0149	<0.0103	<0.0093
Acetone	mg/kg	0.0648	0.0146	<0.0087	<0.0097	<0.0095	<0.0100	<0.0206	0.0921	<0.0094	0.0411	0.0316	0.0188	<0.0069	<0.0088	<0.0096	<0.0093	0.0329	0.0316	<0.0113	0.0179	0.0387	0.431	<0.0103	<0.0093
Benzene	mg/kg	<0.0053	<0.0055	<0.0044	<0.0049	<0.0048	<0.0050	<0.0103	<0.0052	<0.0047	<0.0071	<0.0042	<0.0048	<0.0035	<0.0044	<0.0048	<0.0047	<0.0049	<0.0043	<0.0057	<0.0059	<0.0066	<0.0075	<0.0051	<0.0046
Bromobenzene	mg/kg	<0.0053	<0.0055	<0.0044	<0.0049	<0.0048	<0.0050	<0.0103	<0.0052	<0.0047	<0.0071	<0.0042	<0.0048	<0.0035	<0.0044	<0.0048	<0.0047	<0.0049	<0.0043	<0.0057	<0.0059	<0.0066	<0.0075	<0.0051	<0.0046
Bromochloromethane	mg/kg	<0.0053	<0.0055	<0.0044	<0.0049	<0.0048	<0.0050	<0.0103	<0.0052	<0.0047	<0.0071	<0.0042	<0.0048	<0.0035	<0.0044	<0.0048	<0.0047	<0.0049	<0.0043	<0.0057	<0.0059	<0.0066	<0.0075	<0.0051	<0.0046
Bromodichloromethane	mg/kg	<0.0053	<0.0055	<0.0044	<0.0049	<0.0048	<0.0050	<0.0103	<0.0052	<0.0047	<0.0071	<0.0042	<0.0048	<0.0035	<0.0044	<0.0048	<0.0047	<0.0049	<0.0043	<0.0057	<0.0059	<0.0066	<0.0075	<0.0051	<0.0046
Bromoform	mg/kg	<0.0053	<0.0055	<0.0044	<0.0049	<0.0048	<0.0050	<0.0103	<0.0052	<0.0047	<0.0071	<0.0042	<0.0048	<0.0035	<0.0044	<0.0048	<0.0047	<0.0049	<0.0043	<0.0057	<0.0059	<0.0066	<0.0075	<0.0051	<0.0046
Bromomethane	mg/kg	<0.0106	<0.0109	<0.0087	<0.0097	<0.0095	<0.0100	<0.0206	<0.0104	<0.0094	<0.0142	<0.0084	<0.0096	<0.0069	<0.0088	<0.0096	<0.0093	<0.0098	<0.0087	<0.0113	<0.0117	<0.0132	<0.0149	<0.0103	<0.0093
Carbon Disulfide	mg/kg	0.0143	<0.0055	<0.0044	<0.0049	<0.0048	<0.0050	<0.0103	<0.0052	<0.0047	0.112	0.0578	<0.0048	<0.0035	<0.0044	<0.0048	<0.0047	<0.0049	<0.0043	<0.0057	0.112	0.218	<0.0075	<0.0051	<0.0046
Carbon Tetrachloride	mg/kg	<0.0053	<0.0055	<0.0044	<0.0049	<0.0048	<0.0050	<0.0103	<0.0052	<0.0047	<0.0071	<0.0042	<0.0048	<0.0035	<0.0044	<0.0048	<0.0047	<0.0049	<0.0043	<0.0057	<0.0059	<0.0066	<0.0075	<0.0051	<0.0046
Chlorobenzene	mg/kg	<0.0053	<0.0055	<0.0044	<0.0049	<0.0048	<0.0050	<0.0103	<0.0052	<0.0047	<0.0071	<0.0042	<0.0048	<0.0035	<0.0044	<0.0048	<0.0047	<0.0049	<0.0043	<0.0057	<0.0059	<0.0066	<0.0075	<0.0051	<0.0046
Chloroethane	mg/kg	<0.0106	<0.0109	<0.0087	<0.0097	<0.0095	<0.0100	<0.0206	<0.0104	<0.0094	<0.0142	<0.0084	<0.0096	<0.0069	<0.0088	<0.0096	<0.0093	<0.0098	<0.0087	<0.0113	<0.0117	<0.0132	<0.0149	<0.0103	<0.0093
Chloroform	mg/kg	<0.0053	<0.0055	<0.0044	<0.0049	<0.0048	<0.0050	<0.0103	<0.0052	<0.0047	<0.0071	<0.0042	<0.0048	<0.0035	<0.0044	<0.0048	<0.0047	<0.0049	<0.0043	<0.0057	<0.0059	<0.0066	<0.0075	<0.0051	<0.0046
Chloromethane	mg/kg	<0.0106	<0.0109	<0.0087	<0.0097	<0.0095	<0.0100	<0.0206	<0.0104	<0.0094	<0.0142	<0.0084	<0.0096	<0.0069	<0.0088	<0.0096	<0.0093	<0.0098	<0.0087	<0.0113	<0.0117	<0.0132	<0.0149	<0.0103	<0.0093
cis-1,2-Dichloroethene	mg/kg	<0.0053	<0.0055	<0.0044	<0.0049	<0.0048	<0.0050	<0.0103	<0.0052	<0.0047	<0.0071	<0.0042	<0.0048	<0.0035	<0.0044	<0.0048	<0.0047	<0.0049	<0.0043	<0.0057	<0.0059	<0.0066	<0.0075	<0.0051	<0.0046
cis-1,3-Dichloropropene	mg/kg	<0.0053	<0.0055	<0.0044	<0.0049	<0.0048	<0.0050	<0.0103	<0.0052	<0.0047	<0.0071	<0.0042	<0.0048	<0.0035	<0.0044	<0.0048	<0.0047	<0.0049	<0.0043	<0.0057	<0.0059	<0.0066	<0.0075	<0.0051	<0.0046
Dibromochloromethane	mg/kg	<0.0021	<0.0022	<0.0017	<0.0019	<0.0019	<0.0020	<0.0041	<0.0021	<0.0019	<0.0028	<0.0017	<0.0019	<0.0014	<0.0018	<0.0019	<0.0019	<0.0020	<0.0017	<0.0023	<0.0023	<0.0026	<0.0030	<0.0021	<0.0019
Dibromomethane	mg/kg	<0.0053	<0.0055	<0.0044	<0.0049	<0.0048	<0.0050	<0.0103	<0.0052	<0.0047	<0.0071	<0.0042	<0.0048	<0.0035	<0.0044	<0.0048	<0.0047	<0.0049	<0.0043	<0.0057	<0.0059	<0.0066	<0.0075	<0.0051	<0.0046
Dichlorodifluoromethane	mg/kg	<0.0106	<0.0109	<0.0087	<0.0097	<0.0095	<0.0100	<0.0206	<0.0104	<0.0094	<0.0142	<0.0084	<0.0096	<0.0069	<0.0088	<0.0096	<0.0093	<0.0098	<0.0087	<0.0113	<0.0117	<0.0132	<0.0149	<0.0103	<0.0093
Diethyl Ether	mg/kg	<0.0053	<0.0055	<0.0044	<0.0049	<0.0048	<0.0050	<0.0103	<0.0052	<0.0047	<0.0071	<0.0042	<0.0048	<0.0035	<0.0044	<0.0048	<0.0047	<0.0049	<0.0043	<0.0057	<0.0059	<0.0066	<0.0075	<0.0051	<0.0046
Di-isopropyl ether	mg/kg	<0.0053	<0.0055	<0.0044	<0.0049	<0.0048	<0.0050	<0.0103	<0.0052	<0.0047	<0.0071	<0.0042	<0.0048	<0.0035	<0.0044	<0.0048	<0.0047	<0.0049	<0.0043	<0.0057	<0.0059	<0.0066	<0.0075	<0.0051	<0.0046
Ethyl tertiary-butyl ether	mg/kg	<0.0053	<0.0055	<0.0044	<0.0049	<0.0048	<0.0050	<0.0103	<0.0052	<0.0047	<0.0071	<0.0042	<0.0048	<0.0035	<0.0044	<0.0048	<0.0047	<0.0049	<0.0043	<0.0057	<0.0059	<0.0066	<0.0075	<0.0051	<0.0046
Ethylbenzene	mg/kg	<0.0053	<0.0055	<0.0044	<0.0049	<0.0048	<0.0050	<0.0103	<0.0052	<0.0047	<0.0071	<0.0042	<0.0048	<0.0035	<0.0044	<0.0048	<0.0047	<0.0049	<0.0043	<0.0057	<0.0059	<0.0066	<0.0075	<0.0051	<0.0046
Hexachlorobutadiene	mg/kg	<0.0053	<0.0055	<0.0044	<0.0049	<0.0048	<0.0050	<0.0103	<0.0052	<0.0047	<0.0071	<0.0042	<0.0048	<0.0035	<0.0044	<0.0048	<0.0047	<0.0049	<0.0043	<0.0057	<0.0059	<0.0066	<0.0075	<0.0051	<0.0046
Isopropylbenzene	mg/kg	<0.0053	<0.0055	<0.0044	<0.0049	<0.0048	<0.0050	<0.0103	<0.0052	<0.0047	<0.0071	<0.0042	<0.0048	<0.0035	<0.0044	<0.0048	<0.0047	<0.0049	<0.0043	<0.0057	<0.0059	<0.0066	<0.0075	<0.0051	<0.0046
Methyl tert-Butyl Ether	mg/kg	<0.0053	<0.0055	<0.0044	<0.0049	<0.0048	<0.0050	<0.0103	<0.0052	<0.0047	<0.0071	<0.0042	<0.0048	<0.0035	<0.0044	<0.0048	<0.0047	<0.0049	<0.0043	<0.0057	<0.0059	<0.0066	<0.0075	<0.0051	<0.0046
Methylene Chloride	mg/kg	<0.0106	<0.0109	<0.0087	<0.0097	<0.0095	<0.0100	<0.0206	<0.0104	<0.0094	<0.0142	<0.0084	<0.0096	<0.0069	<0.0088	<0.0096	<0.0093	<0.0098	<0.0087	<0.0113	<0.0117	<0.0132	<0.0149	<0.0103	<0.0093
Naphthalene	mg/kg	<0.0053	<0.0055	<0.0044	<0.0049	<0.0048	<0.0050	<0.0103	<0.0052	<0.0047	<0.0071	<0.0042	<0.0048	<0.0035	<0.0044	<0.0048	<0.0047	<0.0049	0.0196	<0.0057	0.0387	<0.0066	0.0357	<0.0051	<0.0046
n-Butylbenzene	mg/kg	<0.0053	<0.0055	<0.0044	<0.0049	<0.0048	<0.0050	<0.0103	<0.0052	<0.0047	<0.0071	<0.0042	<0.0048	<0.0035	<0.0044	<0.0048	<0.0047	<0.0049	<0.0043	<0.0057	<0.0059	<0.0066	<0.0075	<0.0051	<0.0046
n-Propylbenzene	mg/kg	<0.0053	<0.0055	<0.0044	<0.0049	<0.0048	<0.0050	<0.0103	<0.0052	<0.0047	<0.0071	<0.0042	<0.0048	<0.0035	<0.0044	<0.0048	<0.0047	<0.0049	<0.0043	<0.0057	<0.0059	<0.0066	<0.0075	<0.0051	<0.0046
sec-Butylbenzene	mg/kg	<0.0053	<0.0055	<0.0044	<0.0049	<0.0048	<0.0050	<0.0103	<0.0052	<0.0047	<0.0071	<0.0042	<0.0048	<0.0035	<0.0044	<0.0048	<0.0047	<0.0049	<0.0043	<0.0057	<0.0059	<0.0066	<0.0075	<0.0051	<0.0046

J:\170,000-179,999\171521\171521-02.DEL\Supplemental Phase II\Appendices\Appendix H\172521.12 Table 1 2015-12-01.xlsx/172521

Table 1
Soil Precharacterization Data

Wynn Resort Casino
Everett, Massachusetts

Analyte	Precharacterization Cell	C14	C14	C14	C14	C14	C15	C15	C15	C15	C15	C15	C15	C15	C15	C15	C16	C16	C16	C16	C16	C16	C16	C16
	Sample ID	C14S07	C14S08	C14S09	C14S10	C14S11S12	C15S01S02A	C15S02BS04A	C15S04BS05	C15S06S07A	C15S07BS09A	C15S09BS10	C15S11	C15S12	C15S13	C15S14S15	C16S01S02A	C16S02BS04A	C16S04BS05	C16S06	C16S07	C16S08	C16S09	C16S10	C16S11S12
	Laboratory Work Order	1412473	1412473	1412502	1412502	1412502	1412439	1412439	1412439	1412473	1412473	1412473	1412473	1412473	1412473	1412473	1412409	1412439	1412439	1412439	1412439	1412439	1412439	1412439	1412439
	Soil Distinction	Natural	Natural	Natural	Natural	Natural	Fill	Fill	Fill	Fill	Fill	Fill	Natural	Natural	Natural	Natural	Fill	Fill	Fill	Natural	Natural	Natural	Natural	Natural	Natural
	Soil Type	Organics	Sand/Gravel	Sand/Gravel	Sand/Gravel	Sand/Gravel							Clay	Sand/Gravel	Sand/Gravel	Sand/Gravel				Sand/Gravel	Sand/Gravel	Sand/Gravel	Clay	Sand/Gravel	Sand/Gravel
	Depth Interval (ft.)	12 - 14	19 - 21	24 - 26	29 - 31	34 - 38	0 - 3.3	3.3 - 6.6	6.6 - 10	10 - 13.3	13.3 - 16.6	16.6 - 20	20 - 22	22 - 24	29 - 31	34 - 38	0 - 3.3	3.3 - 6.6	6.6 - 10	10 - 12	14 - 16	19 - 21	24 - 26	29 - 31	34 - 38
	Sampling Date	12/22/2014	12/22/2014	12/23/2014	12/23/2014	12/23/2014	12/19/2014	12/19/2014	12/19/2014	12/22/2014	12/22/2014	12/22/2014	12/22/2014	12/22/2014	12/22/2014	12/22/2014	12/18/2014	12/19/2014	12/19/2014	12/19/2014	12/19/2014	12/19/2014	12/19/2014	12/19/2014	12/19/2014	12/19/2014
Preliminary Disposal Facility Category		MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Uncontaminated	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type B-1	MCP Regulated Material Type B-2	Hazardous Material Type A	Hazardous Material Type A	Uncontaminated	MCP Regulated Material Type B-2	MCP Restricted	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Restricted	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Material Type B-2
Styrene	mg/kg	<0.0053	<0.0055	<0.0044	<0.0049	<0.0048	<0.0050	<0.0103	<0.0052	<0.0047	<0.0071	<0.0042	<0.0048	<0.0035	<0.0044	<0.0048	<0.0047	<0.0049	<0.0043	<0.0057	<0.0059	<0.0066	<0.0075	<0.0051	<0.0046
tert-Butylbenzene	mg/kg	<0.0053	<0.0055	<0.0044	<0.0049	<0.0048	<0.0050	<0.0103	<0.0052	<0.0047	<0.0071	<0.0042	<0.0048	<0.0035	<0.0044	<0.0048	<0.0047	<0.0049	<0.0043	<0.0057	<0.0059	<0.0066	<0.0075	<0.0051	<0.0046
Tertiary-amyl methyl ether	mg/kg	<0.0053	<0.0055	<0.0044	<0.0049	<0.0048	<0.0050	<0.0103	<0.0052	<0.0047	<0.0071	<0.0042	<0.0048	<0.0035	<0.0044	<0.0048	<0.0047	<0.0049	<0.0043	<0.0057	<0.0059	<0.0066	<0.0075	<0.0051	<0.0046
Tetrachloroethene	mg/kg	<0.0053	<0.0055	<0.0044	<0.0049	<0.0048	<0.0050	<0.0103	<0.0052	<0.0047	<0.0071	<0.0042	<0.0048	<0.0035	<0.0044	<0.0048	<0.0047	<0.0049	<0.0043	<0.0057	<0.0059	<0.0066	<0.0075	<0.0051	<0.0046
Tetrahydrofuran	mg/kg	<0.0053	<0.0055	<0.0044	<0.0049	<0.0048	<0.0050	<0.0103	<0.0052	<0.0047	<0.0071	<0.0042	<0.0048	<0.0035	<0.0044	<0.0048	<0.0047	<0.0049	<0.0043	<0.0057	<0.0059	<0.0066	<0.0075	<0.0051	<0.0046
Toluene	mg/kg	<0.0053	<0.0055	<0.0044	<0.0049	<0.0048	<0.0050	<0.0103	<0.0052	<0.0047	<0.0071	<0.0042	<0.0048	<0.0035	<0.0044	<0.0048	<0.0047	<0.0049	<0.0043	<0.0057	<0.0059	<0.0066	<0.0075	<0.0051	<0.0046
trans-1,2-Dichloroethene	mg/kg	<0.0053	<0.0055	<0.0044	<0.0049	<0.0048	<0.0050	<0.0103	<0.0052	<0.0047	<0.0071	<0.0042	<0.0048	<0.0035	<0.0044	<0.0048	<0.0047	<0.0049	<0.0043	<0.0057	<0.0059	<0.0066	<0.0075	<0.0051	<0.0046
trans-1,3-Dichloropropene	mg/kg	<0.0053	<0.0055	<0.0044	<0.0049	<0.0048	<0.0050	<0.0103	<0.0052	<0.0047	<0.0071	<0.0042	<0.0048	<0.0035	<0.0044	<0.0048	<0.0047	<0.0049	<0.0043	<0.0057	<0.0059	<0.0066	<0.0075	<0.0051	<0.0046
Trichloroethene	mg/kg	<0.0053	<0.0055	<0.0044	<0.0049	<0.0048	<0.0050	<0.0103	<0.0052	<0.0047	<0.0071	<0.0042	<0.0048	<0.0035	<0.0044	<0.0048	<0.0047	<0.0049	<0.0043	<0.0057	<0.0059	<0.0066	<0.0075	<0.0051	<0.0046
Trichlorofluoromethane	mg/kg	<0.0053	<0.0055	<0.0044	<0.0049	<0.0048	<0.0050	<0.0103	<0.0052	<0.0047	<0.0071	<0.0042	<0.0048	<0.0035	<0.0044	<0.0048	<0.0047	<0.0049	<0.0043	<0.0057	<0.0059	<0.0066	<0.0075	<0.0051	<0.0046
Vinyl Chloride	mg/kg	<0.0106	<0.0109	<0.0087	<0.0097	<0.0095	<0.0100	<0.0206	<0.0104	<0.0094	<0.0142	<0.0084	<0.0096	<0.0069	<0.0088	<0.0096	<0.0093	<0.0098	<0.0087	<0.0113	<0.0117	<0.0132	<0.0149	<0.0103	<0.0093
Xylene O	mg/kg	<0.0053	<0.0055	<0.0044	<0.0049	<0.0048	<0.0050	<0.0103	<0.0052	<0.0047	<0.0071	<0.0042	<0.0048	<0.0035	<0.0044	<0.0048	<0.0047	<0.0049	<0.0043	<0.0057	<0.0059	<0.0066	<0.0075	<0.0051	<0.0046
Xylene P,M	mg/kg	<0.0106	<0.0109	<0.0087	<0.0097	<0.0095	<0.0100	<0.0206	<0.0104	<0.0094	<0.0142	<0.0084	<0.0096	<0.0069	<0.0088	<0.0096	<0.0093	<0.0098	<0.0087	<0.0113	<0.0117	<0.0132	<0.0149	<0.0103	<0.0093
Xylenes (Total)	mg/kg	<0.0106	<0.0109	<0.0087	<0.0097	<0.0095	<0.0100	<0.0206	<0.0104	<0.0094	<0.0142	<0.0084	<0.0096	<0.0069	<0.0088	<0.0096	<0.0093	<0.0098	<0.0087	<0.0113	<0.0117	<0.0132	<0.0149	<0.0103	<0.0093
Total VOCs (Low Level)	mg/kg	0.0791	0.0146	ND	ND	ND	ND	ND	0.1091	ND	0.1531	0.0894	0.0188	ND	ND	ND	ND	0.0329	0.0512	ND	0.1686	0.2567	0.5401	ND	ND
Semi-Volatile Organic Compounds																									
1,2,4-Trichlorobenzene	mg/kg	<1.23	<1.03	<0.955	<0.941	<0.908	<0.806	<0.879	<0.990	<1.06	<1.04	<0.986	<0.986	<0.888	<1.00	<0.983	<0.873	<0.886	<0.905	<1.01	<1.12	<1.03	<1.30	<0.931	<0.929
1,2-Dichlorobenzene	mg/kg	<1.23	<1.03	<0.955	<0.941	<0.908	<0.806	<0.879	<0.990	<1.06	<1.04	<0.986	<0.986	<0.888	<1.00	<0.983	<0.873	<0.886	<0.905	<1.01	<1.12	<1.03	<1.30	<0.931	<0.929
1,3-Dichlorobenzene	mg/kg	<1.23	<1.03	<0.955	<0.941	<0.908	<0.806	<0.879	<0.990	<1.06	<1.04	<0.986	<0.986	<0.888	<1.00	<0.983	<0.873	<0.886	<0.905	<1.01	<1.12	<1.03	<1.30	<0.931	<0.929
1,4-Dichlorobenzene	mg/kg	<0.616	<0.518	<0.479	<0.472	<0.456	<0.404	<0.441	<0.497	<0.530	<0.523	<0.494	<0.494	<0.446	<0.503	<0.493	<0.438	<0.444	<0.454	<0.505	<0.560	<0.517	<0.652	<0.467	<0.466
2,4,5-Trichlorophenol	mg/kg	<1.23	<1.03	<0.955	<0.941	<0.908	<0.806	<0.879	<0.990	<1.06	<1.04	<0.986	<0.986	<0.888	<1.00	<0.983	<0.873	<0.886	<0.905	<1.01	<1.12	<1.03	<1.30	<0.931	<0.929
2,4,6-Trichlorophenol	mg/kg	<1.23	<1.03	<0.955	<0.941	<0.908	<0.806	<0.879	<0.990	<1.06	<1.04	<0.986	<0.986	<0.888	<1.00	<0.983	<0.873	<0.886	<0.905	<1.01	<1.12	<1.03	<1.30	<0.931	<0.929
2,4-Dichlorophenol	mg/kg	<1.23	<1.03	<0.955	<0.941	<0.908	<0.806	<0.879	<0.990	<1.06	<1.04	<0.986	<0.986	<0.888	<1.00	<0.983	<0.873	<0.886	<0.905	<1.01	<1.12	<1.03	<1.30	<0.931	<0.929
2,4-Dimethylphenol	mg/kg	<1.23	<1.03	<0.955	<0.941	<0.908	<0.806	<0.879	<0.990	<1.06	<1.04	<0.986	<0.986	<0.888	<1.00	<0.983	<0.873	<0.886	<0.905	<1.01	<1.12	<1.03	<1.30	<0.931	<0.929
2,4-Dinitrophenol	mg/kg	<6.16	<5.18	<4.79	<4.72	<4.56	<4.04	<4.41	<4.97	<5.30	<5.23	<4.94	<4.94	<4.46	<5.03	<4.93	<4.38	<4.44	<4.54	<5.05	<5.60	<5.17	<6.52	<4.67	<4.66
2,4-Dinitrotoluene	mg/kg	<1.23	<1.03	<0.955	<0.941	<0.908	<0.806	<0.879	<0.990	<1.06	<1.04	<0.986	<0.986	<0.888	<1.00	<0.983	<0.873	<0.886	<0.905	<1.01	<1.12	<1.03	<1.30	<0.931	<0.929
2,6-Dinitrotoluene	mg/kg	<1.23	<1.03	<0.955	<0.941	<0.908	<0.806	<0.879	<0.990	<1.06	<1.04	<0.986	<0.986	<0.888	<1.00	<0.983	<0.873	<0.886	<0.905	<1.01	<1.12	<1.03	<1.30	<0.931	<0.929
2-Chloronaphthalene	mg/kg	<1.23	<1.03	<0.955	<0.941	<0.908	<0.806	<0.879	<0.990	<1.06	<1.04	<0.986	<0.986	<0.888	<1.00	<0.983	<0.873	<0.886	<0.905	<1.01	<1.12	<1.03	<1.30	<0.931	<0.929
2-Chlorophenol	mg/kg	<1.23	<1.03	<0.955	<0.941	<0.908	<0.806	<0.879	<0.990	<1.06	<1.04	<0.986	<0.986	<0.888	<1.00	<0.983	<0.873	<0.886	<0.905	<1.01	<1.12	<1.03	<1.30	<0.931	<0.929
2-Methylnaphthalene	mg/kg	<1.23	<1.03	<0.955	<0.941	<0.908	<0.806	<0.879	<0.990	<1.06	<1.04	<0.986	<0.986	<0.888	<1.00	<0.983	<0.873	3.67	<0.905	<1.01	<1.12	<1.03	<1.30	<0.931	<0.929
2-Methylphenol	mg/kg	<1.23	<1.03	<0.955	<0.941	<0.908	<0.806	<0.879	<0.990	<1.06	<1.04	<0.986	<0.986	<0.888	<1.00	<0.983	<0.873	<0.886	<0.905	<1.01	<1.12	<1.03	<1.30	<0.931	<0.929
2-Nitrophenol	mg/kg	<1.23	<1.03	<0.955	<0.941	<0.908	<0.806	<0.879	<0.990	<1.06	<1.04	<0.986	<0.986	<0.888	<1.00	<0.983	<0.873	<0.886	<0.905	<1.01	<1.12	<1.03	<1.30	<0.931	<0.929
3,3'-Dichlorobenzidine	mg/kg	<2.46	<2.07	<1.91	<1.89	<1.82	<1.61	<1.76	<1.98	<2.12	<2.09	<1.97	<1.97	<1.78	<2.01	<1.97	<1.75	<1.77	<1.81	<2.02	<2.23	<2.06	<2.60	<1.86	<1.86
3+4-Methylphenol	mg/kg	<2.46	<2.07	<1.91	<1.89	<1.82	<1.61	<1.76	<1.98	<2.12	<2.09	<1.97	<1.97	<1.78	<2.01	<1.97	<1.75	<1.77	<1.81	<2.02	<2.23	<2.06	<2.60	<1.86	<1.86
4-Bromophenyl-phenylether	mg/kg	<1.23	<1.03	<0.955	<0.941	<0.908	<0.806	<0.879	<0.990	<1.06	<1.04	<0.986	<0.986	<0.888	<1.00	<0.983	<0.873	<0.886	<0.905	<1.01	<1.12	<1.03	<1.30	<0.931	<0.929
4-Chloroaniline	mg/kg	<2.46	<2.07	<1.91	<1.89	<1.82	<1.61	<1.76	<1.98	<2.12	<2.09	<1.97	<1.97	<1.78	<2.01	<1.97	<1.75	<1.77	<1.81	<2.02	<2.23	<2.06	<2.60	<1.86	<1.86
4-Nitrophenol	mg/kg	<6.16	<5.18	<4.79	<4.72	<4.56	<4.04	<4.41	<4.97	<5.30	<5.23	<4.94	<4.94	<4.46	<5.03	<4.93	<4.38	<4.44	<4.54	<5.05	<5.60	<5.17	<6.52	<4.67	<4.66
Acenaphthene	mg/kg	<1.23	<1.03	<0.955	<0.941	<0.908	<0.806	<0.879	<0.990	<1.06	<1.04	<0.986	<0.986	<0.888	<1.00	<0.983	<0.873	12.1	<0.905	<1.01	<1.12	<1.03	<1.30	<0.931	<0.929
Acenaphthylene	mg/kg	<1.23	<1.03	<0.955	<0.941	<0.908	<0.806	<0.879	<0.990	<1.06	<1.04	<0.986	<0.986	<0.888	<1.00	<0.983	<0.873	<0.886	<0.905	<1.01	<1.12	<1.03	<1.30	<0.931	<0.929
Acetophenone	mg/kg	<2.46	<2.07	<1.91	<1.89	<1.82	<1.61	<1.76	<1.98	<2.12	<2.09	<1.97	<1.97	<1.78	<2.01	<1.97	<1.75	<1.77	<1.81	<2.02	<2.23	<2.06	<2.60	<1.86	<1.86
Aniline	mg/kg	<6.16	<5.18	<4.79	<4.72	<4.56	<4.04	<4.41	<4.97	<5.30	<5.23	<4.94	<4.94	<4.46	<5.03	<4.93	<4.38	<4.44	<4.54	<5.05	<5.60	<5.17	<6.52	<4.67	<4.66
Anthracene	mg/kg	<1.23	<1.03	<0.955	<0.941	<0.908	<0.806	<0.879	<0.990	<1.06	<1.04	<0.986	<0.986	<0.888	<1.00	<0.983	<0.873	21.8	1.38	<1.01	<1.12	<1.03	2.44	<0.931	<0.929
Azobenzene	mg/kg	<1.23	<1.03	<0.955	<0.941	<0.908	<0.806	<0.879	<0.990	<1.06	<1.04	<0.986	<0.986	<0.888	<1.00	<0.983	<0.873	<0.886	<0.905	<1.01	<1.12	<1.03	<1.30	<0.931	<0.929
Benzo(a)anthracene	mg/kg	<1.23	<1.03	<0.955	<0.941	<0.908	<0.806	2.87	<0.990	1.52	<1.04	<0.986	<0.986	<0.888	<1.00	<0.983	<0.873	38	2.46	<1.01	<1.12	<1.03	3.3	<0.931	<0.929
Benzo(a)pyrene	mg/kg	<0.616	<0.518	<0.479	<0.472	<0.456	<0.404	2.11	<0.497	0.921	<0.523	<0.494	<0.494	<0.446	<0.503	<0.493	<0.438	32.7	2.13	<0.505	<0.560	<0.517	2.35	<0.467	<0.466
Benzo(b)fluoranthene	mg/kg	<1.23	<1.03	<0.955	<0.941	<0.908	<0.806	3.31	<0.990	1.36	<1.04	<0.986	<0.986	<0.888	<1.00	<0.983	<0.873	39.5	2.76	<1.01	<1.12	<1.03	1.87	<0.931	<0.929
Benzo(g,h,i)perylene	mg/kg	<1.23	<1.03	<0.955	<0.941	<0.908	<0.806	1.1	<0.990	<1.06	<1.04	<0.986	<0.986	<0.888	<1.00	<0.983	<0.873	9.66	0.962	<1.01	<1.12	<1.03	<1.30	<0.931	<0.929
Benzo(k)fluoranthene	mg/kg	<1.23	<1.03	<0.955	<0.941	<0.908	<0.806	1.21	<0.990	<1.06	<1.04	<0.986	<0.986	<0.888	<1.00	<0.983	<0.873	13.7	0.965	<1.01	<1.12	<1.03	<1.30	<0.931	<0.929
bis(2-Chloroethoxy)methane	mg/kg	<1.23	<1.03	<0.955	<0.941	<0.908	<0.806	<0.879	<0.990	<1.06	<1.04	<0.986	<0.986	<0.888	<1.00	<0.983	<0.873	<0.886	<0.905	<1.01	<1.12	<1.03	<1.30	<0.931	<0.929
bis(2-Chloroethyl)ether	mg/kg	<0.616	<0.518	<0.479	<0.472	<0.456	<0.404	<0.441	<0.497	<0.530	<0.523	<0.494	<0.494	<0.446	<0.503	<0.493	<0.438	<0.444	<0.454	<0.505	<0.560	<0.517	<0.652	<0.467	<0.466
bis(2-chloroisopropyl)Ether	mg/kg	<0.616	<0.518	<0.479	<0.472	<0.456	<0.404	<0.441	<0.497	<0.530	<0.523	<0.494	<0.494	<0.446	<0.503	<0.493	<0.438	<0.444	<0.454	<0.505	<0.560	<0.517	<0.652	<0.467	<0.466
bis(2-Ethylhexyl)phthalate	mg/kg	<1.23	<1.03	<0.955	<0.941	<0.908	<0.806	<0.879	<0.990	<1.06	<1.04	<0.986	<0.986	<0.888	<1.00	<0.983	<0.873	2.53	<0.905	<1.01	<1.12	<1.03	<1.30	<0.931	<0.929
Butylbenzylphthalate	mg/kg	<1.23	<1.03	<0.955	<0.941	<0.908	<0.806	<0.879	<0.990	<1.06	<1.04	<0.986	<0.986	<0.888	<1.00	<0.983	<0.873	<0.886	<0.905	<1.01	<1.12	<1.03	<1.30	<0.931	<0.929
Chrysene	mg/kg	<0.616	<0.518	<0.479	<0.472	<0.456	<0.404	2.74	<0.497	1.65	<0.523	<0.494	<0.494	<0.446	<0.503	<0.493	<0.438	35.4	2.27	<0.505	<0.560	<0.517	3.24	<0.467	<0.466
Dibenzo(a,h)Anthracene	mg/kg	<0.616	<0.518	<0.479	<0.472	<0.456	<0.404	0.538	<0.497	<0.530	<0.523	<0.494	<0.494	<0.446	<0.503	<0.493	<0.438	4.76	0.495	<0.505	<0.560	<0.517	<0.652	<0.467	<0.466
Dibenzofuran	mg/kg	<1.23	<1.03	<0.955	<0.941	<0.908	<0.806	<0.879	<0.990	<1.06	<1.04	<0.986	<0.986	<0.888	<1.00	<0.983	<0.873	7.71	<0.905	<1.01	<1.12	<1.03	<1.30	<0.931	<0.929
Diethylphthalate	mg/kg	<1.23	<1.03	<0.955	<0.941	<0.908	<0.806	<0.879	<0.990	<1.06	<1.04	<0.986	<0.986	<0.888	<1.00	<0.983	<0.873	<0.886	<0.905	<1.01	<1.12	<1.03	<1.30	<0.931	<0.929
Dimethylphthalate	mg/kg	<1.23	<1.03	<0.955	<0.941	<0.908	<0.806	<0.879	<0.990	<1.06	<1.04	<0.986	<0.986	<0.888	<1.00	<0.983	<0.873	<0.886	<0.905	<1.01	<1.12	<1.03	<1.30	<0.931	<0.929
Di-n-butylphthalate	mg/kg	<1.23	<1.03	<0.955	<0.941	<0.908	<0.806	<0.879	<0.990	<1.06	<1.04	<0.986	<0.986	<0.888	<1.00	<0.983	<0.873	<0.886	<0.905	<1.01	<1.12	<1.03	<1.30	<0.931	<0.929
Di-n-octylphthalate	mg/kg	<1.23	<1.03	<0.955	<0.941	<0.908	<0.806	<0.879	<0.990	<1.06	<1.04	<0.986	<0.986	<0.888	<1.00	<0.983	<0.873	<0.886	<0.905	<1.01	<1.12	<1.03	<1.30	<0.931	<0.929
Fluoranthene	mg/kg	<1.23	<1.03	<0.955	<0.941	<0.908	<0.806	4.74	<0.990	3.32	<1.04	<0.986	<0.986	<0.888	<1.00	<0.983	<0.873	100	6.38	<1.01	<1.12	<1.03	5.48	<0.931	<0.929
Fluorene	mg/kg	<1.23	<1.03	<0.955	<0.941	<0.908	<0.806	<0.879	<0.990	<1.06	<1.04	<0.986	<0.986	<0.888	<1.00	<0.983	<0.873	11.2	<0.905	<1.01	<1.12	<1.03	<1.30	<0.931	<0.929
Hexachlorobenzene	mg/kg	<0.616	<0.518	<0.479	<0.472	<0.456	<0.404	<0.441	<0.497	<0.530	<0.523	<0.494	<0.494	<0.446	<0.503	<0.493	<0.438	<0.444	<0.454	<0.505	<0.560	<0.517	<0.652	<0.467	<0.466
Hexachlorobutadiene	mg/kg	<1.23	<1.03	<0.955	<0.941	<0.908	<0.806	<0.879	<0.990	<1.06	<1.04	<0.986	<0.986	<0.888	<1.00	<0.983	<0.873	<0.886	<0.905	<1.01	<1.12	<1.03	<1.30	<0.931	<0.929
Hexachloroethane	mg/kg	<1.23	<1.03	<0.955	<0.941	<0.908	<0.806	<0.879	<0.990	<1.06	<1.04	<0.986	<0.986	<0.888	<1.00	<0.983	<0.873	<0.886	<0.905	<1.01	<1.12	<1.03	<1.30	<0.931	<0.929
Indeno(1,2,3-cd)Pyrene	mg/kg	<1.23	<1.03	<0.955	<0.941	<0.908	<0.806	1.1	<0.990	<1.06	<1.04	<0.986	<0.986	<0.888	<1.00	<0.983	<0.873	9.97	0.943	<1.01	<1.12	<1.03	<1.30	<0.931	<0.929
Isophorone	mg/kg	<1.23	<1.03	<0.955	<0.941	<0.908	<0.806	<0.879	<0.990	<1.06	<1.04	<0.986	<0.986	<0.888	<1.00	<0.983	<0.873	<0.886	<0.905	<1.01	<1.12	<1.03	<1.30	<0.931	<0.929
Naphthalene	mg/kg	<1.23	<1.03	<0.955	<0.941	<0.908	<0.806	<0.879	<0.990	<1.06	<1.04	<0.986	<0.986	<0.888	<1.00	<0.983	<0.873	12.3	0.923	<1.01	<1.12	<1.03	<1.30	<0.931	<0.929
Nitrobenzene	mg/kg	<1.23	<1.03	<0.955	<0.941	<0.908	<0.806	<0.879	<0.990	<1.06	<1.04	<0.986	<0.986	<0.888	<1.00	<0.983	<0.873	<0.886	<0.905	<1.01	<1.12	<1.03	<1.30	<0.931	<0.929
N-Nitrosodimethylamine	mg/kg	<1.23	<1.03	<0.955	<0.941	<0.908	<0.806	<0.879	<0.990	<1.06	<1.04	<0.986	<0.986	<0.888	<1.00	<0.983	<0.873	<0.886	<0.905	<1.01	<1.12	<1.03	<1.30	<0.931	<0.929
Pentachlorophenol	mg/kg	<6.16	<5.18	<4.79	<4.72	<4.56	<4.04	<4.41	<4.97	<5.30	<5.23	<4.94	<4.94	<4.46	<5.03	<4.93	<4.38	<4.44	<4.54	<5.05	<5.60	<5.17	<6.52	<4.67	<4.66
Phenanthrene	mg/kg	<1.23	<1.03	<0.955	<0.941	<0.908	<0.806	1.81	<0.990	1.99	<1.04	<0.986	<0.986	<0.888	<1.00	<0.983	<0.873	88.1	5.42	<1.01	<1.12	<1.03	7.24	<0.931	<0.929
Phenol	mg/kg	<1.23	<1.03	<0.955	<0.941	<0.908	<0.806	<0.879	<0.990	<1.06	<1.04	<0.986	<0.986	<0.888	<1.00	<0.983	<0.873	<0.886	<0.905	<1.01	<1.12	<1.03	<1.30	<0.931	<0.929
Pyrene	mg/kg	<1.23	<1.03	<0.955	<0.941	<0.908	<0.806	3.94	<0.990	2.91	<1.04	<0.986	<0.986	<0.888	<1.00	<0.983	<0.873	72.6	4.21	<1.01	<1.12	<1.03	7.43	<0.931	<0.929
Total SVOCs	mg/kg	ND	ND	ND	ND	ND	ND	25.468	ND	13.671	ND	ND	ND	ND	ND	ND	ND	515.7	31.298	ND	ND	ND	33.35	ND	ND
Classic Chemistry																									
Corrosivity (pH)	S.U.	4.5	6.47	7.38	6.54	6.47	9.9	8.46	11.5	10.7	6.44	4.76	4.98	5.28	6.77	6.38	8.39	8.29	11	7.3	4.13	3.46	5.96	5.78	5.57
Conductivity	umhos/cm	763	309	3320	2170	1600	271	799	2980	4630	1030	1470	1750	1870	527	1710	249	1160	1830	565	2220	2510	5400	10100	825
Flashpoint	°F	--	--	--	--	--	>200	>200	>200	>200	>200	>200	>200	--	--	--	>200	>200	>200	--	--	--	--	--	--
Reactive Cyanide	mg/kg	--	--	--	--	--	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--	--	--	<2.0	<2.0	<2.0	--	--	--	--	--	--
Reactive Sulfide	mg/kg	--	--	--	--	--	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--	--	--	<2.0	<2.0	<2.0	--	--	--	--	--	--

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	C17 C17S01S02A 1412408 Fill 0 - 3.3 12/18/2014	C17 C17S02BS04A 1412408 Fill 3.3 - 6.6 12/18/2014	C17 C17S04BS05 1412408 Fill 6.6 - 10 12/18/2014	C17 C17S06 1412408 Natural Sand/Gravel 10 - 12 12/18/2014	C17 C17S07 1412408 Natural Organics 14 - 16 12/18/2014	C17 C17S08 1412408 Natural Organics 19 - 21 12/18/2014	C17 C17S09 1412408 Natural Organics 24 - 26 12/18/2014	C17 C17S10 1412409 Natural Organics 29 - 31 12/18/2014	C17 C17S11S12 1412409 Natural Sand/Gravel 34 - 38 12/18/2014	C18 C18S01S02A 1412365 Fill 0 - 3.3 12/17/2014	C18 C18S02BS04A 1412365 Fill 3.3 - 6.6 12/17/2014	C18 C18S04BS05 1412365 Fill 6.6 - 10 12/17/2014	C18 C18S06 1412365 Natural Organics 10 - 12 12/17/2014	C18 C18S07 1412365 Natural Organics 14 - 16 12/17/2014	C18 C18S08 1412365 Natural Organics 19 - 21 12/17/2014	C18 C18S09 1412408 Natural Organics 24 - 26 12/18/2014	C18 C18S10 1412408 Natural Clay 29 - 31 12/18/2014	C18 C18S11S12 1412408 Natural Clay 34 - 36 12/18/2014	C19 C19S01S02A 1412332 Fill 0 - 3.3 12/16/2014	C19 C19S02BS04A 1412332 Fill 3.3 - 6.6 12/16/2014	C19 C19S04BS05 1412332 Fill 6.6 - 10 12/16/2014	C19 C19S06S07A 1412332 Fill 10 - 13.3 12/16/2014	C19 C19S07BS09A 1412365 Fill 13.3 - 16.6 12/17/2014	C19 C19S09B 1412365 Natural Organics 16.6 - 18 12/17/2014
Preliminary Disposal Facility Category		MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type B	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type B-1	Hazardous Material Type A	MCP Regulated Type A	Uncontaminated	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	Hazardous Material Type B	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A
RCRA 8 Metals	**Units**																								
Arsenic	mg/kg	6.87	3.93	25.7	7.28	17.1	20.2	12	10.3	14.5	6.94	17.7	9.01	6.55	8.33	57.9	252	46.3	21.3	6.71	20.2	39.1	26	5.57	5.32
Barium	mg/kg	18	48.2	163	44.2	30.4	15.4	27.6	20.3	17.2	20.4	88.4	67.4	10.4	15.3	22.2	260	83.7	96.4	19.3	162	73.9	42.6	8.45	10.9
Cadmium	mg/kg	<0.36	<0.49	<0.60	<0.54	<0.50	<0.51	<0.66	<0.59	<0.56	<0.37	<0.55	0.7	<0.45	<0.62	0.98	5.6	<0.62	<0.55	<0.47	0.73	0.5	<0.50	<0.39	<0.39
Chromium	mg/kg	21	10.9	8.43	1.65	5.83	14.4	25	13.8	7.83	19.2	37.3	32.7	42	13.4	19.3	72.3	39.9	54.3	18.9	9.99	7.75	1.13	0.86	<0.78
Lead	mg/kg	17.8	59.1	1480	48.8	40.3	33.4	16.5	18	41.4	12.2	267	136	13.5	26	83.2	986	34.4	17.2	9.45	1520	1030	202	21.9	20.3
Selenium	mg/kg	<7.25	<9.86	56.3	<10.9	<9.95	<10.3	<13.2	<11.9	<11.1	<7.37	<10.9	<12.3	<8.94	<12.3	<13.2	39.6	<12.3	<11.0	<9.31	12.7	10.8	<9.98	<7.71	<7.78
Silver	mg/kg	<0.36	<0.49	0.8	<0.54	<0.50	<0.51	<0.66	<0.59	<0.56	0.66	1.08	<0.62	<0.45	<0.62	0.71	1.48	<0.62	<0.55	<0.47	3.73	1.7	<0.50	<0.39	<0.39
Mercury	mg/kg	<0.034	<0.034	5.25	0.086	0.466	0.622	<0.041	0.36	0.137	<0.029	1.44	1.6	<0.037	0.45	1.73	6.16	0.124	<0.042	<0.034	5.97	2.57	0.167	0.075	0.236
Metals by Toxicity Characteristic Leaching Procedure (TCLP)																									
Arsenic	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.92	--	--	--	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead	mg/L	--	--	5.04	--	--	--	--	--	--	--	<0.050	0.261	--	--	--	2.83	--	--	--	11.4	0.184	0.053	--	--
Selenium	mg/L	--	--	<0.050	--	--	--	--	--	--	--	--	--	--	--	--	<0.050	--	--	--	--	--	--	--	--
Mercury	mg/L	--	--	<0.00050	--	--	--	--	--	--	--	--	--	--	--	--	<0.00050	--	--	--	<0.00050	--	--	--	--
Herbicides																									
2,4,5-T	mg/kg	<0.043	<0.047	<0.060	--	--	--	--	--	--	<0.042	<0.046	<0.051	--	--	--	--	--	--	<0.052	<0.055	<0.057	<0.056	<0.047	<0.048
2,4-D	mg/kg	<0.21	<0.24	<0.30	--	--	--	--	--	--	<0.21	<0.23	<0.25	--	--	--	--	--	--	<0.052	<0.055	<0.057	<0.056	<0.23	<0.24
2,4-DB	mg/kg	<0.016	<0.018	<0.022	--	--	--	--	--	--	<0.016	<0.017	<0.019	--	--	--	--	--	--	<0.052	<0.055	<0.057	<0.056	<0.018	<0.018
Dalapon	mg/kg	<1.3	<1.4	<1.8	--	--	--	--	--	--	<1.3	<1.4	<1.5	--	--	--	--	--	--	<0.63	<0.66	<0.69	<0.67	<1.4	<1.4
Dicamba	mg/kg	<0.064	<0.071	<0.090	--	--	--	--	--	--	<0.063	<0.069	<0.076	--	--	--	--	--	--	<0.052	<0.055	<0.057	<0.056	<0.070	<0.072
Dichlorprop	mg/kg	<0.14	<0.15	<0.19	--	--	--	--	--	--	<0.14	<0.15	<0.16	--	--	--	--	--	--	<0.052	<0.055	<0.057	<0.056	<0.15	<0.16
Dinoseb	mg/kg	<0.21	<0.24	<0.30	--	--	--	--	--	--	<0.21	<0.23	<0.25	--	--	--	--	--	--	<0.31	<0.33	<0.34	<0.34	<0.23	<0.24
MCPA	mg/kg	<53	<59	<75	--	--	--	--	--	--	<53	<58	<63	--	--	--	--	--	--	<13	<13	<14	<13	<59	<60
MCPP	mg/kg	<53	<59	<75	--	--	--	--	--	--	<53	<58	<63	--	--	--	--	--	--	<13	<13	<14	<13	<59	<60
Silvex (2,4,5-TP)	mg/kg	<0.043	<0.047	<0.060	--	--	--	--	--	--	<0.042	<0.046	<0.051	--	--	--	--	--	--	<0.052	<0.055	<0.057	<0.056	<0.047	<0.048
Pesticides																									
4,4'-DDD	mg/kg	<0.0018	<0.0020	<0.0025	--	--	--	--	--	--	<0.0018	<0.0019	<0.0021	--	--	--	--	--	--	<0.0018	<0.0019	<0.0021	<0.0020	<0.0019	<0.0021
4,4'-DDE	mg/kg	<0.0018	<0.0020	<0.0025	--	--	--	--	--	--	<0.0018	<0.0019	<0.0021	--	--	--	--	--	--	<0.0018	<0.0019	<0.0021	<0.0020	<0.0019	<0.0021
4,4'-DDT	mg/kg	<0.0018	<0.0020	<0.0025	--	--	--	--	--	--	<0.0018	<0.0019	<0.0021	--	--	--	--	--	--	<0.0018	<0.0019	<0.0021	<0.0020	<0.0019	<0.0021
Aldrin	mg/kg	<0.0018	<0.0020	<0.0025	--	--	--	--	--	--	<0.0018	<0.0019	<0.0021	--	--	--	--	--	--	<0.0018	<0.0019	<0.0021	<0.0020	<0.0019	<0.0021
alpha-BHC	mg/kg	<0.0018	<0.0020	<0.0025	--	--	--	--	--	--	<0.0018	<0.0019	<0.0021	--	--	--	--	--	--	<0.0018	<0.0019	<0.0021	<0.0020	<0.0019	<0.0021
beta-BHC	mg/kg	<0.0018	<0.0020	<0.0025	--	--	--	--	--	--	<0.0018	<0.0019	0.0089	--	--	--	--	--	--	<0.0018	<0.0019	<0.0021	<0.0020	<0.0019	<0.0021
Chlordane (technical)	mg/kg	<0.018	<0.020	<0.025	--	--	--	--	--	--	<0.018	<0.019	<0.021	--	--	--	--	--	--	<0.018	<0.019	<0.021	<0.020	<0.019	<0.021
delta-BHC	mg/kg	<0.0018	<0.0020	<0.0025	--	--	--	--	--	--	<0.0018	<0.0019	<0.0021	--	--	--	--	--	--	<0.0018	<0.0019	<0.0021	<0.0020	<0.0019	<0.0021
Dieldrin	mg/kg	<0.0018	<0.0020	<0.0025	--	--	--	--	--	--	<0.0018	<0.0019	<0.0021	--	--	--	--	--	--	<0.0018	<0.0019	<0.0021	<0.0020	<0.0019	<0.0021
Endosulfan I	mg/kg	<0.0018	<0.0020	<0.0025	--	--	--	--	--	--	<0.0018	<0.0019	<0.0021	--	--	--	--	--	--	<0.0018	<0.0019	<0.0021	<0.0020	<0.0019	<0.0021
Endosulfan II	mg/kg	<0.0018	<0.0020	<0.0025	--	--	--	--	--	--	<0.0018	<0.0019	<0.0021	--	--	--	--	--	--	<0.0018	<0.0019	<0.0021	<0.0020	<0.0019	<0.0021
Endosulfan sulfate	mg/kg	<0.0018	<0.0020	<0.0025	--	--	--	--	--	--	<0.0018	<0.0019	<0.0021	--	--	--	--	--	--	<0.0018	<0.0019	<0.0021	<0.0020	<0.0019	<0.0021
Endrin	mg/kg	<0.0018	<0.0020	<0.0025	--	--	--	--	--	--	<0.0018	<0.0019	<0.0021	--	--	--	--	--	--	<0.0018	<0.0019	<0.0021	<0.0020	<0.0019	<0.0021
Endrin ketone	mg/kg	<0.0018	<0.0020	<0.0025	--	--	--	--	--	--	<0.0018	<0.0019	<0.0021	--	--	--	--	--	--	<0.0018	<0.0019	<0.0021	<0.0020	<0.0019	<0.0021
gamma-BHC (Lindane)	mg/kg	<0.0018	<0.0020	<0.0025	--	--	--	--	--	--	<0.0018	<0.0019	<0.0021	--	--	--	--	--	--	<0.0018	<0.0019	<0.0021	<0.0020	<0.0019	<0.0021
Heptachlor	mg/kg	<0.0018	<0.0020	<0.0025	--	--	--	--	--	--	<0.0018	<0.0019	<0.0021	--	--	--	--	--	--	<0.0018	<0.0019	<0.0021	<0.0020	<0.0019	<0.0021
Heptachlor epoxide	mg/kg	<0.0018	<0.0020	<0.0025	--	--	--	--	--	--	<0.0018	<0.0019	<0.0021	--	--	--	--	--	--	<0.0018	<0.0019	<0.0021	<0.0020	<0.0019	<0.0021
Hexachlorobenzene	mg/kg	<0.0018	<0.0020	<0.0025	--	--	--	--	--	--	<0.0018	<0.0019	<0.0021	--	--	--	--	--	--	<0.0018	<0.0019	<0.0021	<0.0020	<0.0019	<0.0021
Methoxychlor	mg/kg	<0.0018	<0.0020	<0.0025	--	--	--	--	--	--	<0.0018	<0.0019	<0.0021	--	--	--	--	--	--	<0.0018	<0.0019	<0.0021	<0.0020	<0.0019	<0.0021
Polychlorinated Biphenyls																									
Aroclor 1016	mg/kg	<0.127	<0.143	<0.169	<0.142	<0.175	<0.148	<0.163	<0.140	<0.129	<0.147	<0.152	<0.182	<0.163	<0.177	<0.165	<0.192	<0.158	<0.166	<0.121	<0.141	<0.158	<0.145	<0.136	<0.138
Aroclor 1221	mg/kg	<0.127	<0.143	<0.169	<0.142	<0.175	<0.148	<0.163	<0.140	<0.129	<0.147	<0.152	<0.182	<0.163	<0.177	<0.165	<0.192	<0.158	<0.166	<0.121	<0.141	<0.158	<0.145	<0.136	<0.138
Aroclor 1232	mg/kg	<0.127	<0.143	<0.169	<0.142	<0.175	<0.148	<0.163	<0.140	<0.129	<0.147	<0.152	<0.182	<0.163	<0.177	<0.165	<0.192	<0.158	<0.166	<0.121	<0.141	<0.158	<0.145	<0.136	<0.138
Aroclor 1242	mg/kg	<0.127	<0.143	<0.169	<0.142	<0.175	<0.148	<0.163	<0.140	<0.129	<0.147	<0.152	<0.182	<0.163	<0.177	<0.165	<0.192	<0.158	<0.166	<0.121	<0.141	<0.158	<0.145	<0.136	<0.138
Aroclor 1248	mg/kg	<0.127	<0.143	<0.169	<0.142	<0.175	<0.148	<0.163	<0.140	<0.129	<0.147	<0.152	<0.182	<0.163	<0.177	<0.165	<0.192	<0.158	<0.166	<0.121	<0.141	<0.158	<0.145	<0.136	<0.138
Aroclor 1254	mg/kg	<0.127	0.425	<0.169	<0.142	<0.175	<0.148	<0.163	<0.140	<0.129	<0.147	0.326	<0.182	<0.163	<0.177	<0.165	<0.192	<0.158	<0.166	<0.121	4.94	<0.158	<0.145	<0.136	<0.138
Aroclor 1260	mg/kg	<0.127	<0.143	<0.169	<0.142	<0.175	<0.148	<0.163	<0.140	<0.129	<0.147	<0.152	<0.182	<0.163	<0.177	<0.165	<0.192	<0.158	<0.166	<0.121	<0.141	<0.158	<0.145	<0.136	<0.138
Aroclor 1262	mg/kg	<0.127	0.259	<0.169	<0.142	<0.175	<0.148	<0.163	<0.140	<0.129	<0.147	<0.152	<0.182	<0.163	<0.177	<0.165	<0.192	<0.158	<0.166	<0.121	<0.141	<0.158	<0.145	<0.136	<0.138
Aroclor 1268	mg/kg	<0.127	<0.143	<0.169	<0.142	<0.175	<0.148	<0.163	<0.140	<0.129	<0.147	<0.152	<0.182	<0.163	<0.177	<0.165	<0.192	<0.158	<0.166	<0.121	5.15	<0.158	<0.145	<0.136	<0.138
Total PCBs	mg/kg	ND	0.684	ND	ND	ND	ND	ND	ND	ND	ND	0.326	ND	ND	ND	ND	ND	ND	ND	ND	10.09	ND	ND	ND	ND
Total Petroleum Hydrocarbons	mg/kg	<43.8	271	663	<44.3	59.7	<48.6	<59.4	<50.2	<44.2	<41.4	414	544	<52.3	114	158	929	<59.0	<46.1	<41.1	1230	754	368	<45.9	<47.6
Volatile Organic Compounds (VOCs)																									
1,1,1,2-Tetrachloroethane	mg/kg	--	--	<0.162	<0.107	<0.144	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0674	<0.109	<0.133	--	--	--
1,1,1-Trichloroethane	mg/kg	--	--	<0.0810	<0.0534	<0.0718	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0337	<0.0543	<0.0664	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg	--	--	<0.0810	<0.0534	<0.0718	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0337	<0.0543	<0.0664	--	--	--
1,1,2-Trichloroethane	mg/kg	--	--	<0.0810	<0.0534	<0.0718	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0337	<0.0543	<0.0664	--	--	--
1,1-Dichloroethane	mg/kg	--	--	<0.0810	<0.0534	<0.0718	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0337	<0.0543	<0.0664	--	--	--
1,1-Dichloroethene	mg/kg	--	--	<0.0810	<0.0534	<0.0718	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0337	<0.0543	<0.0664	--	--	--
1,1-Dichloropropene	mg/kg	--	--	<0.0810	<0.0534	<0.0718	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0337	<0.0543	<0.0664	--	--	--
1,2,3-Trichlorobenzene	mg/kg	--	--	<0.0810	<0.0534	<0.0718	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0337	<0.0543	<0.0664	--	--	--
1,2,3-Trichloropropane	mg/kg	--	--	<0.0810	<0.0534	<0.0718	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0337	<0.0543	<0.0664	--	--	--
1,2,4-Trichlorobenzene	mg/kg	--	--	<0.0810	<0.0534	<0.0718	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0337	<0.0543	<0.0664	--	--	--
1,2,4-Trimethylbenzene	mg/kg	--	--	<0.0810	<0.0534	<0.0718	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0337	0.198	<0.0664	--	--	--
1,2-Dibromo-3-Chloropropane	mg/kg	--	--	<0.324	<0.214	<0.287	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.135	<0.217	<0.266	--	--	--
1,2-Dibromoethane	mg/kg	--	--	<0.0810	<0.0534	<0.0718	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0337	<0.0543	<0.0664	--	--	--
1,2-Dichlorobenzene	mg/kg	--	--	<0.0810	<0.0534	<0.0718	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0337	<0.0543	<0.0664	--	--	--
1,2-Dichloroethane	mg/kg	--	--	<0.0810	<0.0534	<0.0718	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0337	<0.0543	<0.0664	--	--	--
1,2-Dichloropropane	mg/kg	--	--	<0.0810	<0.0534	<0.0718	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0337	<0.0543	<0.0664	--	--	--
1,3,5-Trimethylbenzene	mg/kg	--	--	<0.0810	<0.0534	<0.0718	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0337	0.122	<0.0664	--	--	--
1,3-Dichlorobenzene	mg/kg	--	--	<0.0810	<0.0534	<0.0718	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0337	<0.0543	<0.0664	--	--	--
1,3-Dichloropropane	mg/kg	--	--	<0.0810	<0.0534	<0.0718	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0337	<0.0543	<0.0664	--	--	--
1,4-Dichlorobenzene	mg/kg	--	--	<0.0810	<0.0534	<0.0718	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0337	<0.0543	<0.0664	--	--	--
1,4-Dioxane - Screen	mg/kg	--	--	<8.10	<5.34	<7.18	--	--	--	--	--	--	--	--	--	--	--	--	--	<3.37	<5.43	<6.64	--	--	--
2,2-Dichloropropane	mg/kg	--	--	<0.162	<0.107	<0.144	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0674	<0.109	<0.133	--	--	--
2-Butanone	mg/kg	--	--	<0.324	<0.214	<0.287	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.135	<0.217	<0.266	--	--	--
2-Chlorotoluene	mg/kg	--	--	<0.0810	<0.0534	<0.0718	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0337	<0.0543	<0.0664	--	--	--
2-Hexanone	mg/kg	--	--	<0.324	<0.214	<0.287	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.135	<0.217	<0.266	--	--	--
4-Chlorotoluene	mg/kg	--	--	<0.0810	<0.0534	<0.0718	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0337	<0.0543	<0.0664	--	--	--
4-Isopropyltoluene	mg/kg	--	--	<0.0810	<0.0534	<0.0718	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0337	<0.0543	0.112	--	--	--
4-Methyl-2-Pentanone	mg/kg	--	--	<0.324	<0.214	<0.287	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.135	<0.217	<0.266	--	--	--
Acetone	mg/kg	--	--	5.96	0.287	1.51	--	--	--	--	--	--	--	--	--	--	--	--	--	0.334	0.615	0.614	--	--	--
Benzene	mg/kg	--	--	<0.0810	<0.0534	<0.0718	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0337	<0.0543	<0.0664	--	--	--
Bromobenzene	mg/kg	--	--	<0.0810	<0.0534	<0.0718	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0337	<0.0543	<0.0664	--	--	--
Bromochloromethane	mg/kg	--	--	<0.0810	<0.0534	<0.0718	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0337	<0.0543	<0.0664	--	--	--
Bromodichloromethane	mg/kg	--	--	<0.0810	<0.0534	<0.0718	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0337	<0.0543	<0.0664	--	--	--
Bromoform	mg/kg	--	--	<0.0810	<0.0534	<0.0718	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0337	<0.0543	<0.0664	--	--	--
Bromomethane	mg/kg	--	--	<0.162	<0.107	<0.144	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0674	<0.109	<0.133	--	--	--
Carbon Disulfide	mg/kg	--	--	<0.0810	<0.0534	1.12	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0337	<0.0543	<0.0664	--	--	--
Carbon Tetrachloride	mg/kg	--	--	<0.0810	<0.0534	<0.0718	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0337	<0.0543	<0.0664	--	--	--

Analyte	Precharacterization Cell	C17	C17	C17	C17	C17	C17	C17	C17	C17	C18	C18	C18	C18	C18	C18	C18	C18	C18	C19	C19	C19	C19	C19	C19
	Sample ID	C17S01S02A	C17S02BS04A	C17S04BS05	C17S06	C17S07	C17S08	C17S09	C17S10	C17S11S12	C18S01S02A	C18S02BS04A	C18S04BS05	C18S06	C18S07	C18S08	C18S09	C18S10	C18S11S12	C19S01S02A	C19S02BS04A	C19S04BS05	C19S06S07A	C19S07BS09A	C19S09B
	Laboratory Work Order	1412408	1412408	1412408	1412408	1412408	1412408	1412408	1412409	1412409	1412365	1412365	1412365	1412365	1412365	1412365	1412408	1412408	1412408	1412332	1412332	1412332	1412332	1412365	1412365
	Soil Distinction	Fill	Fill	Fill	Natural	Natural	Natural	Natural	Natural	Natural	Fill	Fill	Fill	Natural	Natural	Natural	Natural	Natural	Natural	Fill	Fill	Fill	Fill	Fill	Natural
	Soil Type				Sand/Gravel	Organics	Organics	Organics	Organics	Sand/Gravel				Organics	Organics	Organics	Organics	Clay	Clay						Organics
	Depth Interval (ft.)	0 - 3.3	3.3 - 6.6	6.6 - 10	10 - 12	14 - 16	19 - 21	24 - 26	29 - 31	34 - 38	0 - 3.3	3.3 - 6.6	6.6 - 10	10 - 12	14 - 16	19 - 21	24 - 26	29 - 31	34 - 36	0 - 3.3	3.3 - 6.6	6.6 - 10	10 - 13.3	13.3 - 16.6	16.6 - 18
	Sampling Date	12/18/2014	12/18/2014	12/18/2014	12/18/2014	12/18/2014	12/18/2014	12/18/2014	12/18/2014	12/18/2014	12/17/2014	12/17/2014	12/17/2014	12/17/2014	12/17/2014	12/17/2014	12/18/2014	12/18/2014	12/18/2014	12/18/2014	12/16/2014	12/16/2014	12/16/2014	12/16/2014	12/17/2014	12/17/2014
Preliminary Disposal Facility Category		MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type B	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type B-1	Hazardous Material Type A	MCP Regulated Type A	Uncontaminated	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	Hazardous Material Type B	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A
Chlorobenzene	mg/kg	--	--	<0.0810	<0.0534	<0.0718	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0337	<0.0543	<0.0664	--	--	--
Chloroethane	mg/kg	--	--	<0.162	<0.107	<0.144	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0674	<0.109	<0.133	--	--	--
Chloroform	mg/kg	--	--	<0.0810	<0.0534	<0.0718	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0337	<0.0543	<0.0664	--	--	--
Chloromethane	mg/kg	--	--	<0.162	<0.107	<0.144	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0674	<0.109	<0.133	--	--	--
cis-1,2-Dichloroethene	mg/kg	--	--	<0.0810	<0.0534	<0.0718	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0337	<0.0543	<0.0664	--	--	--
cis-1,3-Dichloropropene	mg/kg	--	--	<0.0810	<0.0534	<0.0718	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0337	<0.0543	<0.0664	--	--	--
Dibromochloromethane	mg/kg	--	--	<0.0810	<0.0534	<0.0718	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0337	<0.0543	<0.0664	--	--	--
Dibromomethane	mg/kg	--	--	<0.0810	<0.0534	<0.0718	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0337	<0.0543	<0.0664	--	--	--
Dichlorodifluoromethane	mg/kg	--	--	<0.0810	<0.0534	<0.0718	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0337	<0.0543	<0.0664	--	--	--
Diethyl Ether	mg/kg	--	--	<0.0810	<0.0534	<0.0718	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0337	<0.0543	<0.0664	--	--	--
Di-isopropyl ether	mg/kg	--	--	<0.0810	<0.0534	<0.0718	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0337	<0.0543	<0.0664	--	--	--
Ethyl tertiary-butyl ether	mg/kg	--	--	<0.0810	<0.0534	<0.0718	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0337	<0.0543	<0.0664	--	--	--
Ethylbenzene	mg/kg	--	--	<0.0810	<0.0534	<0.0718	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0337	0.0674	<0.0664	--	--	--
Hexachlorobutadiene	mg/kg	--	--	<0.0810	<0.0534	<0.0718	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0337	<0.0543	<0.0664	--	--	--
Isopropylbenzene	mg/kg	--	--	<0.0810	<0.0534	<0.0718	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0337	<0.0543	<0.0664	--	--	--
Methyl tert-Butyl Ether	mg/kg	--	--	<0.0810	<0.0534	<0.0718	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0337	<0.0543	<0.0664	--	--	--
Methylene Chloride	mg/kg	--	--	<0.324	<0.214	<0.287	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.135	<0.217	<0.266	--	--	--
Naphthalene	mg/kg	--	--	19.3	<0.0534	<0.0718	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0337	0.412	<0.0664	--	--	--
n-Butylbenzene	mg/kg	--	--	<0.0810	<0.0534	<0.0718	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0337	0.0772	<0.0664	--	--	--
n-Propylbenzene	mg/kg	--	--	<0.0810	<0.0534	<0.0718	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0337	0.0782	<0.0664	--	--	--
sec-Butylbenzene	mg/kg	--	--	<0.0810	<0.0534	<0.0718	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0337	<0.0543	<0.0664	--	--	--
Styrene	mg/kg	--	--	<0.0810	<0.0534	<0.0718	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0337	<0.0543	<0.0664	--	--	--
tert-Butylbenzene	mg/kg	--	--	<0.0810	<0.0534	<0.0718	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0337	<0.0543	<0.0664	--	--	--
Tertiary-amyl methyl ether	mg/kg	--	--	<0.0810	<0.0534	<0.0718	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0337	<0.0543	<0.0664	--	--	--
Tetrachloroethene	mg/kg	--	--	<0.0810	<0.0534	<0.0718	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0337	<0.0543	<0.0664	--	--	--
Tetrahydrofuran	mg/kg	--	--	<0.324	<0.214	<0.287	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.135	<0.217	<0.266	--	--	--
Toluene	mg/kg	--	--	<0.0810	<0.0534	<0.0718	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0337	0.0848	<0.0664	--	--	--
trans-1,2-Dichloroethene	mg/kg	--	--	<0.0810	<0.0534	<0.0718	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0337	<0.0543	<0.0664	--	--	--
trans-1,3-Dichloropropene	mg/kg	--	--	<0.0810	<0.0534	<0.0718	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0337	<0.0543	<0.0664	--	--	--
Trichloroethene	mg/kg	--	--	<0.0810	<0.0534	<0.0718	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0337	<0.0543	<0.0664	--	--	--
Trichlorofluoromethane	mg/kg	--	--	<0.0810	<0.0534	<0.0718	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0337	<0.0543	<0.0664	--	--	--
Vinyl Chloride	mg/kg	--	--	<0.0810	<0.0534	<0.0718	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0337	<0.0543	<0.0664	--	--	--
Xylene O	mg/kg	--	--	<0.0810	<0.0534	<0.0718	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0337	0.0706	<0.0664	--	--	--
Xylene P,M	mg/kg	--	--	<0.162	<0.107	<0.144	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0674	0.214	<0.133	--	--	--
Xylenes (Total)	mg/kg	--	--	<0.162	<0.107	<0.144	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0674	0.285	<0.133	--	--	--
Total VOCs	mg/kg	--	--	25.26	0.287	2.63	--	--	--	--	--	--	--	--	--	--	--	--	--	0.334	2.2242	0.726	--	--	--
Volatile Organic Compounds - Low Level Analysis																									
1,1,1,2-Tetrachloroethane	mg/kg	<0.0046	<0.0045	<0.0075	<0.0040	<0.0045	<0.0047	<0.0056	<0.0031	<0.0036	<0.0053	<0.0049	<0.0071	<0.0037	<0.0034	<0.0034	<0.0056	<0.0038	<0.0054	<0.0056	--	--	<0.0039	<0.0031	<0.0028
1,1,1-Trichloroethane	mg/kg	<0.0046	<0.0045	<0.0075	<0.0040	<0.0045	<0.0047	<0.0056	<0.0031	<0.0036	<0.0053	<0.0049	<0.0071	<0.0037	<0.0034	<0.0034	<0.0056	<0.0038	<0.0054	<0.0056	--	--	<0.0039	<0.0031	<0.0028
1,1,2,2-Tetrachloroethane	mg/kg	<0.0018	<0.0018	<0.0030	<0.0016	<0.0018	<0.0019	<0.0022	<0.0012	<0.0014	<0.0021	<0.0020	<0.0028	<0.0015	<0.0014	<0.0014	<0.0023	<0.0015	<0.0022	<0.0022	--	--	<0.0015	<0.0012	<0.0011
1,1,2-Trichloroethane	mg/kg	<0.0046	<0.0045	<0.0075	<0.0040	<0.0045	<0.0047	<0.0056	<0.0031	<0.0036	<0.0053	<0.0049	<0.0071	<0.0037	<0.0034	<0.0034	<0.0056	<0.0038	<0.0054	<0.0056	--	--	<0.0039	<0.0031	<0.0028
1,1-Dichloroethane	mg/kg	<0.0046	<0.0045	<0.0075	<0.0040	<0.0045	<0.0047	<0.0056	<0.0031	<0.0036	<0.0053	<0.0049	<0.0071	<0.0037	<0.0034	<0.0034	<0.0056	<0.0038	<0.0054	<0.0056	--	--	<0.0039	<0.0031	<0.0028
1,1-Dichloroethene	mg/kg	<0.0046	<0.0045	<0.0075	<0.0040	<0.0045	<0.0047	<0.0056	<0.0031	<0.0036	<0.0053	<0.0049	<0.0071	<0.0037	<0.0034	<0.0034	<0.0056	<0.0038	<0.0054	<0.0056	--	--	<0.0039	<0.0031	<0.0028
1,1-Dichloropropene	mg/kg	<0.0046	<0.0045	<0.0075	<0.0040	<0.0045	<0.0047	<0.0056	<0.0031	<0.0036	<0.0053	<0.0049	<0.0071	<0.0037	<0.0034	<0.0034	<0.0056	<0.0038	<0.0054	<0.0056	--	--	<0.0039	<0.0031	<0.0028
1,2,3-Trichlorobenzene	mg/kg	<0.0046	<0.0045	<0.0075	<0.0040	<0.0045	<0.0047	<0.0056	<0.0031	<0.0036	<0.0053	<0.0049	<0.0071	<0.0037	<0.0034	<0.0034	<0.0056	<0.0038	<0.0054	<0.0056	--	--	<0.0039	<0.0031	<0.0028
1,2,3-Trichloropropane	mg/kg	<0.0046	<0.0045	<0.0075	<0.0040	<0.0045	<0.0047	<0.0056	<0.0031	<0.0036	<0.0053	<0.0049	<0.0071	<0.0037	<0.0034	<0.0034	<0.0056	<0.0038	<0.0054	<0.0056	--	--	<0.0039	<0.0031	<0.0028
1,2,4-Trichlorobenzene	mg/kg	<0.0046	<0.0045	<0.0075	<0.0040	<0.0045	<0.0047	<0.0056	<0.0031	<0.0036	<0.0053	<0.0049	<0.0071	<0.0037	<0.0034	<0.0034	<0.0056	<0.0038	<0.0054	<0.0056	--	--	<0.0039	<0.0031	<0.0028
1,2,4-Trimethylbenzene	mg/kg	<0.0046	<0.0045	<0.0075	<0.0040	<0.0045	<0.0047	<0.0056	<0.0031	<0.0036	<0.0053	<0.0049	<0.0071	<0.0037	<0.0034	<0.0034	<0.0056	<0.0038	<0.0054	<0.0056	--	--	<0.0039	<0.0031	<0.0028
1,2-Dibromo-3-Chloropropane	mg/kg	<0.0046	<0.0045	<0.0075	<0.0040	<0.0045	<0.0047	<0.0056	<0.0031	<0.0036	<0.0053	<0.0049	<0.0071	<0.0037	<0.0034	<0.0034	<0.0056	<0.0038	<0.0054	<0.0056	--	--	<0.0039	<0.0031	<0.0028
1,2-Dibromoethane	mg/kg	<0.0046	<0.0045	<0.0075	<0.0040	<0.0045	<0.0047	<0.0056	<0.0031	<0.0036	<0.0053	<0.0049	<0.0071	<0.0037	<0.0034	<0.0034	<0.0056	<0.0038	<0.0054	<0.0056	--	--	<0.0039	<0.0031	<0.0028
1,2-Dichlorobenzene	mg/kg	<0.0046	<0.0045	<0.0075	<0.0040	<0.0045	<0.0047	<0.0056	<0.0031	<0.0036	<0.0053	<0.0049	<0.0071	<0.0037	<0.0034	<0.0034	<0.0056	<0.0038	<0.0054	<0.0056	--	--	<0.0039	<0.0031	<0.0028
1,2-Dichloroethane	mg/kg	<0.0046	<0.0045	<0.0075	<0.0040	<0.0045	<0.0047	<0.0056	<0.0031	<0.0036	<0.0053	<0.0049	<0.0071	<0.0037	<0.0034	<0.0034	<0.0056	<0.0038	<0.0054	<0.0056	--	--	<0.0039	<0.0031	<0.0028
1,2-Dichloropropane	mg/kg	<0.0046	<0.0045	<0.0075	<0.0040	<0.0045	<0.0047	<0.0056	<0.0031	<0.0036	<0.0053	<0.0049	<0.0071	<0.0037	<0.0034	<0.0034	<0.0056	<0.0038	<0.0054	<0.0056	--	--	<0.0039	<0.0031	<0.0028
1,3,5-Trimethylbenzene	mg/kg	<0.0046	<0.0045	<0.0075	<0.0040	<0.0045	<0.0047	<0.0056	<0.0031	<0.0036	<0.0053	<0.0049	<0.0071	<0.0037	<0.0034	<0.0034	<0.0056	<0.0038	<0.0054	<0.0056	--	--	<0.0039	<0.0031	<0.0028
1,3-Dichlorobenzene	mg/kg	<0.0046	<0.0045	<0.0075	<0.0040	<0.0045	<0.0047	<0.0056	<0.0031	<0.0036	<0.0053	<0.0049	<0.0071	<0.0037	<0.0034	<0.0034	<0.0056	<0.0038	<0.0054	<0.0056	--	--	<0.0039	<0.0031	<0.0028
1,3-Dichloropropane	mg/kg	<0.0046	<0.0045	<0.0075	<0.0040	<0.0045	<0.0047	<0.0056	<0.0031	<0.0036	<0.0053	<0.0049	<0.0071	<0.0037	<0.0034	<0.0034	<0.0056	<0.0038	<0.0054	<0.0056	--	--	<0.0039	<0.0031	<0.0028
1,4-Dichlorobenzene	mg/kg	<0.0046	<0.0045	<0.0075	<0.0040	<0.0045	<0.0047	<0.0056	<0.0031	<0.0036	<0.0053	<0.0049	<0.0071	<0.0037	<0.0034	<0.0034	<0.0056	<0.0038	<0.0054	<0.0056	--	--	<0.0039	<0.0031	<0.0028
1,4-Dioxane	mg/kg	<0.0925	<0.0901	<0.150	<0.0793	<0.0906	<0.0945	<0.111	<0.0615	<0.0723	<0.105	<0.0983	<0.142	<0.0734	<0.0679	<0.0677	<0.113	<0.0754	<0.108	<0.112	--	--	<0.0775	<0.0623	<0.0562
2,2-Dichloropropane	mg/kg	<0.0046	<0.0045	<0.0075	<0.0040	<0.0045	<0.0047	<0.0056	<0.0031	<0.0036	<0.0053	<0.0049	<0.0071	<0.0037	<0.0034	<0.0034	<0.0056	<0.0038	<0.0054	<0.0056	--	--	<0.0039	<0.0031	<0.0028
2-Butanone	mg/kg	<0.0092	<0.0090	<0.0150	<0.0079	0.0354	0.0608	0.0212	<0.0061	<0.0072	<0.0105	<0.0098	<0.0142	<0.0073	<0.0068	0.0086	0.0146	<0.0075	<0.0108	<0.0112	--	--	<0.0077	<0.0062	<0.0056
2-Chlorotoluene	mg/kg	<0.0046	<0.0045	<0.0075	<0.0040	<0.0045	<0.0047	<0.0056	<0.0031	<0.0036	<0.0053	<0.0049	<0.0071	<0.0037	<0.0034	<0.0034	<0.0056	<0.0038	<0.0054	<0.0056	--	--	<0.0039	<0.0031	<0.0028
2-Hexanone	mg/kg	<0.0092	<0.0090	<0.0150	<0.0079	<0.0091	<0.0095	<0.0111	<0.0061	<0.0072	<0.0105	<0.0098	<0.0142	<0.0073	<0.0068	<0.0068	<0.0113	<0.0075	<0.0108	<0.0112	--	--	<0.0077	<0.0062	<0.0056
4-Chlorotoluene	mg/kg	<0.0046	<0.0045	<0.0075	<0.0040	<0.0045	<0.0047	<0.0056	<0.0031	<0.0036	<0.0053	<0.0049	<0.0071	<0.0037	<0.0034	<0.0034	<0.0056	<0.0038	<0.0054	<0.0056	--	--	<0.0039	<0.0031	<0.0028
4-Isopropyltoluene	mg/kg	<0.0046	<0.0045	<0.0075	<0.0040	<0.0045	<0.0047	<0.0056	<0.0031	<0.0036	<0.0053	<0.0049	<0.0071	<0.0037	<0.0034	<0.0034	<0.0056	<0.0038	<0.0054	<0.0056	--	--	<0.0039	<0.0031	<0.0028
4-Methyl-2-Pentanone	mg/kg	<0.0092	<0.0090	<0.0150	<0.0079	<0.0091	<0.0095	<0.0111	<0.0061	<0.0072	<0.0105	<0.0098	<0.0142	<0.0073	<0.0068	<0.0068	<0.0113	<0.0075	<0.0108	<0.0112	--	--	<0.0077	<0.0062	<0.0056
Acetone	mg/kg	0.0592	0.0372	<0.0150	0.0441	0.193	0.36	0.102	<0.0061	<0.0072	<0.0105	0.017	0.0209	0.0226	0.0286	0.0568	0.0761	<0.0075	<0.0108	<0.0112	--	--	0.0148	<0.0062	0.0087
Benzene	mg/kg	<0.0046	<0.0045	<0.0075	<0.0040	<0.0045	<0.0047	<0.0056	<0.0031	<0.0036	<0.0053	<0.0049	<0.0071	<0.0037	<0.0034	<0.0034	<0.0056	<0.0038	<0.0054	<0.0056	--	--	<0.0039	<0.0031	<0.0028
Bromobenzene	mg/kg	<0.0046	<0.0045	<0.0075	<0.0040	<0.0045	<0.0047	<0.0056	<0.0031	<0.0036	<0.0053	<0.0049	<0.0071	<0.0037	<0.0034	<0.0034	<0.0056	<0.0038	<0.0054	<0.0056	--	--	<0.0039	<0.0031	<0.0028
Bromochloromethane	mg/kg	<0.0046	<0.0045	<0.0075	<0.0040	<0.0045	<0.0047	<0.0056	<0.0031	<0.0036	<0.0053	<0.0049	<0.0071	<0.0037	<0.0034	<0.0034	<0.0056	<0.0038	<0.0054	<0.0056	--	--	<0.0039	<0.0031	<0.0028
Bromodichloromethane	mg/kg	<0.0046	<0.0045	<0.0075	<0.0040	<0.0045	<0.0047	<0.0056	<0.0031	<0.0036	<0.0053	<0.0049	<0.0071	<0.0037	<0.0034	<0.0034	<0.0056	<0.0038	<0.0054	<0.0056	--	--	<0.0039	<0.0031	<0.0028
Bromoform	mg/kg	<0.0046	<0.0045	<0.0075	<0.0040	<0.0045	<0.0047	<0.0056	<0.0031	<0.0036	<0.0053	<0.0049	<0.0071	<0.0037	<0.0034	<0.0034	<0.0056	<0.0038	<0.0054	<0.0056	--	--	<0.0039	<0.0031	<0.0028
Bromomethane	mg/kg	<0.0092	<0.0090	<0.0150	<0.0079	<0.0091	<0.0095	<0.0111	<0.0061	<0.0072	<0.0105	<0.0098	<0.0142	<0.0073	<0.0068	<0.0068	<0.0113	<0.0075	<0.0108	<0.0112	--	--	<0.0077	<0.0062	<0.0056
Carbon Disulfide	mg/kg	<0.0046	<0.0045	0.0121	<0.0040	0.464	0.0157	<0.0056	<0.0031	<0.0036	<0.0053	<0.0049	<0.0071	0.0078	0.012	<0.0034	0.0058	<0.0038	<0.0054	<0.0056	--	--	<0.0039	<0.0031	<0.0028
Carbon Tetrachloride	mg/kg	<0.0046	<0.0045	<0.0075	<0.0040	<0.0045	<0.0047	<0.0056	<0.0031	<0.0036	<0.0053	<0.0049	<0.0071	<0.0037	<0.0034	<0.0034	<0.0056	<0.0038	<0.0054	<0.0056	--	--	<0.0039	<0.0031	<0.0028
Chlorobenzene	mg/kg	<0.0046	<0.0045	<0.0075	<0.0040	<0.0045	<0.0047	<0.0056	<0.0031	<0.0036	<0.0053	<0.0049	<0.0071	<0.0037	<0.0034	<0.0034	<0.0056	<0.0038	<0.0054	<0.0056	--	--	<0.0039	<0.0031	<0.0028
Chloroethane	mg/kg	<0.0046	<0.0045	<0.0075	<0.0040	<0.0045	<0.0047	<0.0056	<0.0031	<0.0036	<0.0053	<0.0049	<0.0071	<0.0037	<0.0034	<0.0034	<0.0056	<0.0038	<0.0054	<0.0056	--	--	<0.0039	<0.0031	<0.0028
Chloroform	mg/kg	<0.0046	<0.0045	<0.0075	<0.0040	<0.0045	<0.0047	<0.0056	<0.0031	<0.0036	<0.0053	<0.0049	<0.0071	<0.0037	<0.0034	<0.0034	<0.0056	<0.0038	<0.0054	<0.0056	--	--	<0.0039	<0.0031	<0.0028
Chloromethane	mg/kg	<0.0092	<0.0090	<0.0150	<0.0079	<0.0091	<0.0095	<0.0111	<0.0061	<0.0072	<0.0105	<0.0098	<0.0142	<0.0073	<0.0068	<0.0068	<0.0113	<0.0075	<0.0108	<0.0112	--	--	<0.0077	<0.0062	<0.0056
cis-1,2-Dichloroethene	mg/kg	<0.0046	<0.0045	<0.0075	<0.0040	<0.0045	<0.0047	<0.0056	<0.0031	<0.0036	<0.0053	<0.0049	<0.0071	<0.0037	<0.0034	<0.0034	<0.0056	<0.0038	<0.0054	<0.0056	--	--	<0.0039	<0.0031	<0.0028
cis-1,3-Dichloropropene	mg/kg	<0.0046	<0.0045	<0.0075	<0.0040	<0.0045	<0.0047	<0.0056	<0.0031	<0.0036	<0.0053	<0.0049	<0.0071	<0.0037	<0.0034	<0.0034	<0.0056	<0.0038	<0.0054	<0.0056	--	--	<0.0039	<0.0031	<0.0028
Dibromochloromethane	mg/kg	<0.0018	<0.0018	<0.0030	<0.0016	<0.0018	<0.0019	<0.0022	<0.0012	<0.0014	<0.0021	<0.0020	<0.0028	<0.0015	<0.0014	<0.0014	<0.0023	<0.0015	<0.0022	<0.0022	--	--	<0.0015	<0.0012	<0.0011
Dibromomethane	mg/kg	<0.0046	<0.0045	<0.0075	<0.0040	<0.0045	<0.0047	<0.0056	<0.0031	<0.0036	<0.0053	<0.0049	<0.0071	<0.0037	<0.0034	<0.0034	<0.0056	<0.0038	<0.0054	<0.0056	--	--	<0.0039	<0.0031	<0.0028
Dichlorodifluoromethane	mg/kg	<0.0092	<0.0090	<0.0150	<0.0079	<0.0091	<0.0095	<0.0111	<0.0061	<0.0072	<0.0105	<0.0098	<0.0142	<0.0073	<0.0068	<0.0068	<0.0113	<0.0075	<0.0108	<0.0112	--	--	<0.0077	<0.0062	<0.0056
Diethyl Ether	mg/kg	<0.0046	<0.0045	<0.0075	<0.0040	<0.0045	<0.0047	<0.0056	<0.0031	<0.0036	<0.0053	<0.0049	<0.0071	<0.0037	<0.0034	<0.0034	<0.0056	<0.0038	<0.0054	<0.0056	--	--	<0.0039	<0.0031	<0.0028
Di-isopropyl ether	mg/kg	<0.0046	<0.0045	<0.0075	<0.0040	<0.0045	<0.0047	<0.0056	<0.0031	<0.0036	<0.0053	<0.0049	<0.0071	<0.0037	<0.0034	<0.0034	<0.0056	<0.0038	<0.0054	<0.0056	--	--	<0.0039	<0.0031	<0.0028
Ethyl tertiary-butyl ether	mg/kg	<0.0046	<0.0045	<0.0075	<0.0040	<0.0045	<0.0047	<0.0056	<0.0031	<0.0036	<0.0053	<0.0049	<0.0071	<0.0037	<0.0034	<0.0034	<0.0056	<0.0038	<0.0054	<0.0056	--	--	<0.0039	<0.0031	<0.0028
Ethylbenzene	mg/kg	<0.0046	<0.0045	<0.0075	<0.0040	<0.0045	<0.0047	<0.0056	<0.0031	<0.0036	<0.0053	<0.0049	<0.0071	<0.0037	<0.0034	<0.0034	<0.0056	<0.0038	<0.0054	<0.0056	--	--	<0.0039	<0.0031	<0.0028
Hexachlorobutadiene	mg/kg	<0.0046	<0.0045	<0.0075	<0.0040	<0.0045	<0.0047	<0.0056	<0.0031	<0.0036	<0.0053	<0.0049	<0.0071	<0.0037	<0.0034	<0.0034	<0.0056	<0.0038	<0.0054	<0.0056	--	--	<0.0039	<0.0031	<0.0028
Isopropylbenzene	mg/kg	<0.0046	<0.0045	<0.0075	<0.0040	<0.0045	<0.0047	<0.0056	<0.0031	<0.0036	<0.0053	<0.0049	<0.0071	<0.0037	<0.0034	<0.0034	<0.0056	<0.0038	<0.0054	<0.0056	--	--	<0.0039	<0.0031	<0.0028
Methyl tert-Butyl Ether	mg/kg	<0.0046	<0.0045	<0.0075	<0.0040	<0.0045	<0.0047	<0.0056	<0.0031	<0.0036	<0.0053	<0.0049	<0.0071	<0.0037	<0.0034	<0.0034	<0.0056	<0.0038	<0.0054	<0.0056	--	--	<0.0039	<0.0031	<0.0028
Methylene Chloride	mg/kg	<0.0092	<0.0090	<0.0150	<0.0079	<0.0091	<0.0095	<0.0111	<0.0061	<0.0072	<0.0105	<0.0098	<0.0142	<0.0073	<0.0068	<0.0068	<0.0113	<0.0075	<0.0108	<0.0112	--	--	<0.0077	<0.0062	<0.0056
Naphthalene	mg/kg	<0.0046	<0.0045	1.65	0.0122	<0.0045	<0.0047	<0.0056	<0.0031	<0.0036	<0.0053	0.0066	<0.0071	<0.0037	<0.0034	<0.0034	0.0062	<0.0038	<0.0054	<0.0056	--	--	<0.0039	<0.0031	<0.0028
n-Butylbenzene	mg/kg	<0.0046	<0.0045	<0.0075	<0.0040	<0.0045	<0.0047	<0.0056	<0.0031	<0.0036	<0.0053	<0.0049	<0.0071	<0.0037	<0.0034	<0.0034	<0.0056	<0.0038	<0.0054	<0.0056	--	--	<0.0039	<0.0031	<0.0028
n-Propylbenzene	mg/kg	<0.0046	<0.0045	<0.0075	<0.0040	<0.0045	<0.0047	<0.0056	<0.0031	<0.0036	<0.0053	<0.0049	<0.0071	<0.0037	<0.0034	<0.0034	<0.0056	<0.0038	<0.0054	<0.0056	--	--	<0.0039	<0.0031	<0.0028
sec-Butylbenzene	mg/kg	<0.0046	<0.0045	<0.0075	<0.0040	<0.0045	<0.0047	<0.0056	<0.0031	<0.0036

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	C17 C17S01S02A 1412408 Fill 0 - 3.3 12/18/2014	C17 C17S02BS04A 1412408 Fill 3.3 - 6.6 12/18/2014	C17 C17S04BS05 1412408 Fill 6.6 - 10 12/18/2014	C17 C17S06 1412408 Natural Sand/Gravel 10 - 12 12/18/2014	C17 C17S07 1412408 Natural Organics 14 - 16 12/18/2014	C17 C17S08 1412408 Natural Organics 19 - 21 12/18/2014	C17 C17S09 1412408 Natural Organics 24 - 26 12/18/2014	C17 C17S10 1412409 Natural Organics 29 - 31 12/18/2014	C17 C17S11S12 1412409 Natural Sand/Gravel 34 - 38 12/18/2014	C18 C18S01S02A 1412365 Fill 0 - 3.3 12/17/2014	C18 C18S02BS04A 1412365 Fill 3.3 - 6.6 12/17/2014	C18 C18S04BS05 1412365 Fill 6.6 - 10 12/17/2014	C18 C18S06 1412365 Natural Organics 10 - 12 12/17/2014	C18 C18S07 1412365 Natural Organics 14 - 16 12/17/2014	C18 C18S08 1412365 Natural Organics 19 - 21 12/17/2014	C18 C18S09 1412408 Natural Organics 24 - 26 12/18/2014	C18 C18S10 1412408 Natural Clay 29 - 31 12/18/2014	C18 C18S11S12 1412408 Natural Clay 34 - 36 12/18/2014	C19 C19S01S02A 1412332 Fill 0 - 3.3 12/16/2014	C19 C19S02BS04A 1412332 Fill 3.3 - 6.6 12/16/2014	C19 C19S04BS05 1412332 Fill 6.6 - 10 12/16/2014	C19 C19S06S07A 1412332 Fill 10 - 13.3 12/16/2014	C19 C19S07BS09A 1412365 Fill 13.3 - 16.6 12/17/2014	C19 C19S09B 1412365 Natural Organics 16.6 - 18 12/17/2014
Preliminary Disposal Facility Category		MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type B	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type B-1	Hazardous Material Type A	MCP Regulated Type A	Uncontaminated	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	Hazardous Material Type B	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A
Styrene	mg/kg	<0.0046	<0.0045	0.0097	<0.0040	<0.0045	<0.0047	<0.0056	<0.0031	<0.0036	<0.0053	<0.0049	<0.0071	<0.0037	<0.0034	<0.0034	<0.0056	<0.0038	<0.0054	<0.0056	--	--	<0.0039	<0.0031	<0.0028
tert-Butylbenzene	mg/kg	<0.0046	<0.0045	<0.0075	<0.0040	<0.0045	<0.0047	<0.0056	<0.0031	<0.0036	<0.0053	<0.0049	<0.0071	<0.0037	<0.0034	<0.0034	<0.0056	<0.0038	<0.0054	<0.0056	--	--	<0.0039	<0.0031	<0.0028
Tertiary-amyl methyl ether	mg/kg	<0.0046	<0.0045	<0.0075	<0.0040	<0.0045	<0.0047	<0.0056	<0.0031	<0.0036	<0.0053	<0.0049	<0.0071	<0.0037	<0.0034	<0.0034	<0.0056	<0.0038	<0.0054	<0.0056	--	--	<0.0039	<0.0031	<0.0028
Tetrachloroethene	mg/kg	<0.0046	<0.0045	<0.0075	<0.0040	<0.0045	<0.0047	<0.0056	<0.0031	<0.0036	<0.0053	<0.0049	<0.0071	<0.0037	<0.0034	<0.0034	<0.0056	<0.0038	<0.0054	<0.0056	--	--	<0.0039	<0.0031	<0.0028
Tetrahydrofuran	mg/kg	<0.0046	<0.0045	<0.0075	<0.0040	<0.0045	<0.0047	<0.0056	<0.0031	<0.0036	<0.0053	<0.0049	<0.0071	<0.0037	<0.0034	<0.0034	<0.0056	<0.0038	<0.0054	<0.0056	--	--	<0.0039	<0.0031	<0.0028
Toluene	mg/kg	<0.0046	<0.0045	<0.0075	<0.0040	<0.0045	<0.0047	<0.0056	<0.0031	<0.0036	<0.0053	<0.0049	<0.0071	<0.0037	<0.0034	<0.0034	<0.0056	<0.0038	<0.0054	<0.0056	--	--	<0.0039	<0.0031	<0.0028
trans-1,2-Dichloroethene	mg/kg	<0.0046	<0.0045	<0.0075	<0.0040	<0.0045	<0.0047	<0.0056	<0.0031	<0.0036	<0.0053	<0.0049	<0.0071	<0.0037	<0.0034	<0.0034	<0.0056	<0.0038	<0.0054	<0.0056	--	--	<0.0039	<0.0031	<0.0028
trans-1,3-Dichloropropene	mg/kg	<0.0046	<0.0045	<0.0075	<0.0040	<0.0045	<0.0047	<0.0056	<0.0031	<0.0036	<0.0053	<0.0049	<0.0071	<0.0037	<0.0034	<0.0034	<0.0056	<0.0038	<0.0054	<0.0056	--	--	<0.0039	<0.0031	<0.0028
Trichloroethene	mg/kg	<0.0046	<0.0045	<0.0075	<0.0040	<0.0045	<0.0047	<0.0056	<0.0031	<0.0036	<0.0053	<0.0049	<0.0071	<0.0037	<0.0034	<0.0034	<0.0056	<0.0038	<0.0054	<0.0056	--	--	<0.0039	<0.0031	<0.0028
Trichlorofluoromethane	mg/kg	<0.0046	<0.0045	<0.0075	<0.0040	<0.0045	<0.0047	<0.0056	<0.0031	<0.0036	<0.0053	<0.0049	<0.0071	<0.0037	<0.0034	<0.0034	<0.0056	<0.0038	<0.0054	<0.0056	--	--	<0.0039	<0.0031	<0.0028
Vinyl Chloride	mg/kg	<0.0092	<0.0090	<0.0150	<0.0079	<0.0091	<0.0095	<0.0111	<0.0061	<0.0072	<0.0105	<0.0098	<0.0142	<0.0073	<0.0068	<0.0068	<0.0113	<0.0075	<0.0108	<0.0112	--	--	<0.0077	<0.0062	<0.0056
Xylene O	mg/kg	<0.0046	<0.0045	<0.0075	<0.0040	<0.0045	<0.0047	<0.0056	<0.0031	<0.0036	<0.0053	<0.0049	<0.0071	<0.0037	<0.0034	<0.0034	<0.0056	<0.0038	<0.0054	<0.0056	--	--	<0.0039	<0.0031	<0.0028
Xylene P,M	mg/kg	<0.0092	<0.0090	<0.0150	<0.0079	<0.0091	<0.0095	<0.0111	<0.0061	<0.0072	<0.0105	<0.0098	<0.0142	<0.0073	<0.0068	<0.0068	<0.0113	<0.0075	<0.0108	<0.0112	--	--	<0.0077	<0.0062	<0.0056
Xylenes (Total)	mg/kg	<0.0092	<0.0090	<0.0150	<0.0079	<0.0091	<0.0095	<0.0111	<0.0061	<0.0072	<0.0105	<0.0098	<0.0142	<0.0073	<0.0068	<0.0068	<0.0113	<0.0075	<0.0108	<0.0112	--	--	<0.0077	<0.0062	<0.0056
Total VOCs (Low Level)	mg/kg	0.0592	0.0372	1.6718	0.0563	0.6924	0.4365	0.1232	ND	ND	ND	0.0236	0.0209	0.0304	0.0406	0.0654	0.1027	ND	ND	ND	--	--	0.0148	ND	0.0087
Semi-Volatile Organic Compounds																									
1,2,4-Trichlorobenzene	mg/kg	<0.908	<0.887	<2.57	<0.943	<1.09	<1.14	<1.08	<0.990	<0.930	<0.956	<0.982	<1.29	<1.02	<1.11	<1.28	<1.24	<1.23	<1.13	<0.854	<1.01	<1.08	<0.950	<0.870	<0.883
1,2-Dichlorobenzene	mg/kg	<0.908	<0.887	<2.57	<0.943	<1.09	<1.14	<1.08	<0.990	<0.930	<0.956	<0.982	<1.29	<1.02	<1.11	<1.28	<1.24	<1.23	<1.13	<0.854	<1.01	<1.08	<0.950	<0.870	<0.883
1,3-Dichlorobenzene	mg/kg	<0.908	<0.887	<2.57	<0.943	<1.09	<1.14	<1.08	<0.990	<0.930	<0.956	<0.982	<1.29	<1.02	<1.11	<1.28	<1.24	<1.23	<1.13	<0.854	<1.01	<1.08	<0.950	<0.870	<0.883
1,4-Dichlorobenzene	mg/kg	<0.456	<0.445	<1.29	<0.473	<0.548	<0.574	<0.540	<0.496	<0.467	<0.480	<0.492	<0.649	<0.512	<0.555	<0.640	<0.620	<0.616	<0.567	<0.428	<0.505	<0.543	<0.477	<0.436	<0.443
2,4,5-Trichlorophenol	mg/kg	<0.908	<0.887	<2.57	<0.943	<1.09	<1.14	<1.08	<0.990	<0.930	<0.956	<0.982	<1.29	<1.02	<1.11	<1.28	<1.24	<1.23	<1.13	<0.854	<1.01	<1.08	<0.950	<0.870	<0.883
2,4,6-Trichlorophenol	mg/kg	<0.908	<0.887	<2.57	<0.943	<1.09	<1.14	<1.08	<0.990	<0.930	<0.956	<0.982	<1.29	<1.02	<1.11	<1.28	<1.24	<1.23	<1.13	<0.854	<1.01	<1.08	<0.950	<0.870	<0.883
2,4-Dichlorophenol	mg/kg	<0.908	<0.887	<2.57	<0.943	<1.09	<1.14	<1.08	<0.990	<0.930	<0.956	<0.982	<1.29	<1.02	<1.11	<1.28	<1.24	<1.23	<1.13	<0.854	<1.01	<1.08	<0.950	<0.870	<0.883
2,4-Dimethylphenol	mg/kg	<0.908	<0.887	<2.57	<0.943	<1.09	<1.14	<1.08	<0.990	<0.930	<0.956	<0.982	<1.29	<1.02	<1.11	<1.28	<1.24	<1.23	<1.13	<0.854	<1.01	<1.08	<0.950	<0.870	<0.883
2,4-Dinitrophenol	mg/kg	<4.56	<4.45	<12.9	<4.73	<5.48	<5.74	<5.40	<4.96	<4.67	<4.80	<4.92	<6.49	<5.12	<5.55	<6.40	<6.20	<6.16	<5.67	<4.28	<5.05	<5.43	<4.77	<4.36	<4.43
2,4-Dinitrotoluene	mg/kg	<0.908	<0.887	<2.57	<0.943	<1.09	<1.14	<1.08	<0.990	<0.930	<0.956	<0.982	<1.29	<1.02	<1.11	<1.28	<1.24	<1.23	<1.13	<0.854	<1.01	<1.08	<0.950	<0.870	<0.883
2,6-Dinitrotoluene	mg/kg	<0.908	<0.887	<2.57	<0.943	<1.09	<1.14	<1.08	<0.990	<0.930	<0.956	<0.982	<1.29	<1.02	<1.11	<1.28	<1.24	<1.23	<1.13	<0.854	<1.01	<1.08	<0.950	<0.870	<0.883
2-Chloronaphthalene	mg/kg	<0.908	<0.887	<2.57	<0.943	<1.09	<1.14	<1.08	<0.990	<0.930	<0.956	<0.982	<1.29	<1.02	<1.11	<1.28	<1.24	<1.23	<1.13	<0.854	<1.01	<1.08	<0.950	<0.870	<0.883
2-Chlorophenol	mg/kg	<0.908	<0.887	<2.57	<0.943	<1.09	<1.14	<1.08	<0.990	<0.930	<0.956	<0.982	<1.29	<1.02	<1.11	<1.28	<1.24	<1.23	<1.13	<0.854	<1.01	<1.08	<0.950	<0.870	<0.883
2-Methylnaphthalene	mg/kg	<0.908	<0.887	3.07	<0.943	<1.09	<1.14	<1.08	<0.990	<0.930	<0.956	<0.982	<1.29	<1.02	<1.11	<1.28	<1.24	<1.23	<1.13	<0.854	<1.01	<1.08	<0.950	<0.870	<0.883
2-Methylphenol	mg/kg	<0.908	<0.887	<2.57	<0.943	<1.09	<1.14	<1.08	<0.990	<0.930	<0.956	<0.982	<1.29	<1.02	<1.11	<1.28	<1.24	<1.23	<1.13	<0.854	<1.01	<1.08	<0.950	<0.870	<0.883
2-Nitrophenol	mg/kg	<0.908	<0.887	<2.57	<0.943	<1.09	<1.14	<1.08	<0.990	<0.930	<0.956	<0.982	<1.29	<1.02	<1.11	<1.28	<1.24	<1.23	<1.13	<0.854	<1.01	<1.08	<0.950	<0.870	<0.883
3,3'-Dichlorobenzidine	mg/kg	<1.82	<1.78	<5.14	<1.89	<2.19	<2.29	<2.16	<1.98	<1.86	<1.92	<1.97	<2.59	<2.05	<2.22	<2.55	<2.47	<2.46	<2.27	<1.71	<2.02	<2.17	<1.90	<1.74	<1.77
3+4-Methylphenol	mg/kg	<1.82	<1.78	<5.14	<1.89	<2.19	<2.29	<2.16	<1.98	<1.86	<1.92	<1.97	<2.59	<2.05	<2.22	<2.55	<2.47	<2.46	<2.27	<1.71	<2.02	<2.17	<1.90	<1.74	<1.77
4-Bromophenyl-phenylether	mg/kg	<0.908	<0.887	<2.57	<0.943	<1.09	<1.14	<1.08	<0.990	<0.930	<0.956	<0.982	<1.29	<1.02	<1.11	<1.28	<1.24	<1.23	<1.13	<0.854	<1.01	<1.08	<0.950	<0.870	<0.883
4-Chloroaniline	mg/kg	<1.82	<1.78	<5.14	<1.89	<2.19	<2.29	<2.16	<1.98	<1.86	<1.92	<1.97	<2.59	<2.05	<2.22	<2.55	<2.47	<2.46	<2.27	<1.71	<2.02	<2.17	<1.90	<1.74	<1.77
4-Nitrophenol	mg/kg	<4.56	<4.45	<12.9	<4.73	<5.48	<5.74	<5.40	<4.96	<4.67	<4.80	<4.92	<6.49	<5.12	<5.55	<6.40	<6.20	<6.16	<5.67	<4.28	<5.05	<5.43	<4.77	<4.36	<4.43
Acenaphthene	mg/kg	<0.908	<0.887	<2.57	<0.943	<1.09	<1.14	<1.08	<0.990	<0.930	<0.956	<0.982	<1.29	<1.02	<1.11	<1.28	<1.24	<1.23	<1.13	<0.854	<1.01	<1.08	<0.950	<0.870	<0.883
Acenaphthylene	mg/kg	<0.908	<0.887	<2.57	<0.943	<1.09	<1.14	<1.08	<0.990	<0.930	<0.956	<0.982	<1.29	<1.02	<1.11	<1.28	<1.24	<1.23	<1.13	<0.854	<1.01	<1.08	<0.950	<0.870	<0.883
Acetophenone	mg/kg	<1.82	<1.78	<5.14	<1.89	<2.19	<2.29	<2.16	<1.98	<1.86	<1.92	<1.97	<2.59	<2.05	<2.22	<2.55	<2.47	<2.46	<2.27	<1.71	<2.02	<2.17	<1.90	<1.74	<1.77
Aniline	mg/kg	<4.56	<4.45	<12.9	<4.73	<5.48	<5.74	<5.40	<4.96	<4.67	<4.80	<4.92	<6.49	<5.12	<5.55	<6.40	<6.20	<6.16	<5.67	<4.28	<5.05	<5.43	<4.77	<4.36	<4.43
Anthracene	mg/kg	<0.908	<0.887	<2.57	<0.943	<1.09	<1.14	<1.08	<0.990	<0.930	<0.956	<0.982	<1.29	<1.02	<1.11	<1.28	2.52	<1.23	<1.13	<0.854	<1.01	<1.08	<0.950	<0.870	<0.883
Azobenzene	mg/kg	<0.908	<0.887	<2.57	<0.943	<1.09	<1.14	<1.08	<0.990	<0.930	<0.956	<0.982	<1.29	<1.02	<1.11	<1.28	<1.24	<1.23	<1.13	<0.854	<1.01	<1.08	<0.950	<0.870	<0.883
Benzo(a)anthracene	mg/kg	<0.908	<0.887	3.28	<0.943	<1.09	<1.14	<1.08	<0.990	<0.930	<0.956	1.96	<1.29	<1.02	<1.11	<1.28	3.87	<1.23	<1.13	<0.854	2.97	<1.08	<0.950	<0.870	<0.883
Benzo(a)pyrene	mg/kg	<0.456	<0.445	<1.29	<0.473	<0.548	<0.574	<0.540	<0.496	<0.467	<0.480	1.78	<0.649	<0.512	<0.555	<0.640	3.09	<0.616	<0.567	<0.428	2.83	<0.543	<0.477	<0.436	<0.443
Benzo(b)fluoranthene	mg/kg	<0.908	<0.887	2.91	<0.943	<1.09	<1.14	<1.08	<0.990	<0.930	<0.956	2.13	<1.29	<1.02	<1.11	<1.28	2.92	<1.23	<1.13	<0.854	5.43	<1.08	<0.950	<0.870	<0.883
Benzo(g,h,i)perylene	mg/kg	<0.908	<0.887	<2.57	<0.943	<1.09	<1.14	<1.08	<0.990	<0.930	<0.956	1.19	<1.29	<1.02	<1.11	<1.28	<1.24	<1.23	<1.13	<0.854	1.16	<1.08	<0.950	<0.870	<0.883
Benzo(k)fluoranthene	mg/kg	<0.908	<0.887	<2.57	<0.943	<1.09	<1.14	<1.08	<0.990	<0.930	<0.956	<0.982	<1.29	<1.02	<1.11	<1.28	<1.24	<1.23	<1.13	<0.854	2.58	<1.08	<0.950	<0.870	<0.883
bis(2-Chloroethoxy)methane	mg/kg	<0.908	<0.887	<2.57	<0.943	<1.09	<1.14	<1.08	<0.990	<0.930	<0.956	<0.982	<1.29	<1.02	<1.11	<1.28	<1.24	<1.23	<1.13	<0.854	<1.01	<1.08	<0.950	<0.870	<0.883
bis(2-Chloroethyl)ether	mg/kg	<0.456	<0.445	<1.29	<0.473	<0.548	<0.574	<0.540	<0.496	<0.467	<0.480	<0.492	<0.649	<0.512	<0.555	<0.640	<0.620	<0.616	<0.567	<0.428	<0.505	<0.543	<0.477	<0.436	<0.443
bis(2-chloroisopropyl)Ether	mg/kg	<0.456	<0.445	<1.29	<0.473	<0.548	<0.574	<0.540	<0.496	<0.467	<0.480	<0.492	<0.649	<0.512	<0.555	<0.640	<0.620	<0.616	<0.567	<0.428	<0.505	<0.543	<0.477	<0.436	<0.443
bis(2-Ethylhexyl)phthalate	mg/kg	<0.908	1.04	<2.57	<0.943	<1.09	<1.14	<1.08	<0.990	<0.930	<0.956	<0.982	<1.29	<1.02	<1.11	<1.28	<1.24	<1.23	<1.13	<0.854	1.03	<1.08	<0.950	<0.870	<0.883
Butylbenzylphthalate	mg/kg	<0.908	<0.887	<2.57	<0.943	<1.09	<1.14	<1.08	<0.990	<0.930	<0.956	<0.982	<1.29	<1.02	<1.11	<1.28	<1.24	<1.23	<1.13	<0.854	<1.01	<1.08	<0.950	<0.870	<0.883
Chrysene	mg/kg	<0.456	<0.445	4.29	<0.473	<0.548	<0.574	<0.540	<0.496	<0.467	<0.480	1.8	<0.649	<0.512	<0.555	<0.640	3.99	<0.616	<0.567	<0.428	3.63	<0.543	<0.477	<0.436	<0.443
Dibenzo(a,h)Anthracene	mg/kg	<0.456	<0.445	<1.29	<0.473	<0.548	<0.574	<0.540	<0.496	<0.467	<0.480	0.538	<0.649	<0.512	<0.555	<0.640	<0.620	<0.616	<0.567	<0.428	0.517	<0.543	<0.477	<0.436	<0.443
Dibenzofuran	mg/kg	<0.908	<0.887	<2.57	<0.943	<1.09	<1.14	<1.08	<0.990	<0.930	<0.956	<0.982	<1.29	<1.02	<1.11	<1.28	<1.24	<1.23	<1.13	<0.854	<1.01	<1.08	<0.950	<0.870	<0.883
Diethylphthalate	mg/kg	<0.908	<0.887	<2.57	<0.943	<1.09	<1.14	<1.08	<0.990	<0.930	<0.956	<0.982	<1.29	<1.02	<1.11	<1.28	<1.24	<1.23	<1.13	<0.854	<1.01	<1.08	<0.950	<0.870	<0.883
Dimethylphthalate	mg/kg	<0.908	<0.887	<2.57	<0.943	<1.09	<1.14	<1.08	<0.990	<0.930	<0.956	<0.982	<1.29	<1.02	<1.11	<1.28	<1.24	<1.23	<1.13	<0.854	<1.01	<1.08	<0.950	<0.870	<0.883
Di-n-butylphthalate	mg/kg	<0.908	<0.887	<2.57	<0.943	<1.09	<1.14	<1.08	<0.990	<0.930	<0.956	<0.982	<1.29	<1.02	<1.11	<1.28	<1.24	<1.23	<1.13	<0.854	<1.01	<1.08	<0.950	<0.870	<0.883
Di-n-octylphthalate	mg/kg	<0.908	<0.887	<2.57	<0.943	<1.09	<1.14	<1.08	<0.990	<0.930	<0.956	<0.982	<1.29	<1.02	<1.11	<1.28	<1.24	<1.23	<1.13	<0.854	<1.01	<1.08	<0.950	<0.870	<0.883
Fluoranthene	mg/kg	<0.908	<0.887	7.13	<0.943	<1.09	<1.14	<1.08	<0.990	<0.930	<0.956	3.62	<1.29	<1.02	<1.11	<1.28	5.26	<1.23	<1.13	<0.854	4.78	<1.08	<0.950	<0.870	<0.883
Fluorene	mg/kg	<0.908	<0.887	<2.57	<0.943	<1.09	<1.14	<1.08	<0.990	<0.930	<0.956	<0.982	<1.29	<1.02	<1.11	<1.28	<1.24	<1.23	<1.13	<0.854	<1.01	<1.08	<0.950	<0.870	<0.883
Hexachlorobenzene	mg/kg	<0.456	<0.445	<1.29	<0.473	<0.548	<0.574	<0.540	<0.496	<0.467	<0.480	<0.492	<0.649	<0.512	<0.555	<0.640	<0.620	<0.616	<0.567	<0.428	<0.505	<0.543	<0.477	<0.436	<0.443
Hexachlorobutadiene	mg/kg	<0.908	<0.887	<2.57	<0.943	<1.09	<1.14	<1.08	<0.990	<0.930	<0.956	<0.982	<1.29	<1.02	<1.11	<1.28	<1.24	<1.23	<1.13	<0.854	<1.01	<1.08	<0.950	<0.870	<0.883
Hexachloroethane	mg/kg	<0.908	<0.887	<2.57	<0.943	<1.09	<1.14	<1.08	<0.990	<0.930	<0.956	<0.982	<1.29	<1.02	<1.11	<1.28	<1.24	<1.23	<1.13	<0.854	<1.01	<1.08	<0.950	<0.870	<0.883
Indeno(1,2,3-cd)Pyrene	mg/kg	<0.908	<0.887	<2.57	<0.943	<1.09	<1.14	<1.08	<0.990	<0.930	<0.956	1.06	<1.29	<1.02	<1.11	<1.28	<1.24	<1.23	<1.13	<0.854	1.4	<1.08	<0.950	<0.870	<0.883
Isophorone	mg/kg	<0.908	<0.887	<2.57	<0.943	<1.09	<1.14	<1.08	<0.990	<0.930	<0.956	<0.982	<1.29	<1.02	<1.11	<1.28	<1.24	<1.23	<1.13	<0.854	<1.01	<1.08	<0.950	<0.870	<0.883
Naphthalene	mg/kg	<0.908	<0.887	5.82	<0.943	<1.09	<1.14	<1.08	<0.990	<0.930	<0.956	<0.982	<1.29	<1.02	<1.11	<1.28	<1.24	<1.23	<1.13	<0.854	<1.01	<1.08	<0.950	<0.870	<0.883
Nitrobenzene	mg/kg	<0.908	<0.887	<2.57	<0.943	<1.09	<1.14	<1.08	<0.990	<0.930	<0.956	<0.982	<1.29	<1.02	<1.11	<1.28	<1.24	<1.23	<1.13	<0.854	<1.01	<1.08	<0.950	<0.870	<0.883
N-Nitrosodimethylamine	mg/kg	<0.908	<0.887	<2.57	<0.943	<1.09	<1.14	<1.08	<0.990	<0.930	<0.956	<0.982	<1.29	<1.02	<1.11	<1.28	<1.24	<1.23	<1.13	<0.854	<1.01	<1.08	<0.950	<0.870	<0.883
Pentachlorophenol	mg/kg	<4.56	<4.45	<12.9	<4.73	<5.48	<5.74	<5.40	<4.96	<4.67	<4.80	<4.92	<6.49	<5.12	<5.55	<6.40	<6.20	<6.16	<5.67	<4.28	<5.05	<5.43	<4.77	<4.36	<4.43
Phenanthrene	mg/kg	<0.908	<0.887	8.67	<0.943	<1.09	<1.14	<1.08	<0.990	<0.930	<0.956	1.64	<1.29	<1.02	<1.11	<1.28	7.32	<1.23	<1.13	<0.854	3.21	<1.08	<0.950	<0.870	<0.883
Phenol	mg/kg	<0.908	<0.887	<2.57	<0.943	<1.09	<1.14	<1.08	<0.990	<0.930	<0.956	<0.982	<1.29	<1.02	<1.11	<1.28	<1.24	<1.23	<1.13	<0.854	<1.01	<1.08	<0.950	<0.870	<0.883
Pyrene	mg/kg	<0.908	<0.887	8.37	<0.943	<1.09	<1.14	<1.08	<0.990	<0.930	<0.956	3.17	<1.29	<1.02	<1.11	<1.28	7.25	<1.23	<1.13	<0.854	3.97	<1.08	<0.950	<0.870	<0.883
Total SVOCs	mg/kg	ND	1.04	43.54	ND	ND	ND	ND	ND	ND	ND	18.888	ND	ND	ND	ND	36.22	ND	ND	ND	33.507	ND	ND	ND	ND
Classic Chemistry																									
Corrosivity (pH)	S.U.	8.92	9.8	9.64	7.08	3.78	3.93	5.14	5.66	5.59	8.62	7.05	4.62	4.64	4.15	5.49	5.66	3.72	4.69	8.32	5.58	4.73	5.86	6.21	6.3
Conductivity	umhos/cm	122	1350	1720	2470	1350	7310	12600	2430	4330	440	2610	3330	1650	1570	11400	2390	3530	9630	1170	1580	1570	691	1770	660
Flashpoint	°F	>200	>200	>200	--	--	--	--	--	--	>200	>200	>200	--	--	--	--	--	--	>200	>200	>200	>200	>200	>200
Reactive Cyanide	mg/kg	<2.0	<2.0	<2.0	--	--	--	--	--	--	<2.0	<2.0	<2.0	--	--	--	--	--	--	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Reactive Sulfide	mg/kg	<2.0	<2.0	<2.0	--	--	--	--	--	--	<2.0	<2.0	<2.0	--	--	--	--	--	--	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	C19 C19S10 1412365 Natural Organics 18 - 20 12/17/2014	C19 C19S11 1412365 Natural Organics 24 - 26 12/17/2014	C19 C19S12 1412365 Natural Organics 29 - 31 12/17/2014	C19 C19S13S14 1412365 Natural Clay 34 - 38 12/17/2014	C20 C20S01S02A 1412302 Fill 0 - 3.3 12/15/2014	C20 C20S02BS04A 1412332 Fill 3.3 - 6.6 12/16/2014	C20 C20S04BS05 1412332 Fill 6.6 - 10 12/16/2014	C20 C20S06 1412332 Fill 10 - 12 12/16/2014	C20 C20S07S08 1412332 Natural Organics 12 - 16 12/16/2014	C20 C20S09 1412332 Natural Organics 19 - 21 12/16/2014	C20 C20S10 1412332 Natural Organics 24 - 26 12/16/2014	C20 C20S11 1412332 Natural Organics 29 - 31 12/16/2014	C20 C20S12S13 1412332 Natural Sand/Gravel 34 - 38 12/16/2014	C21 C21S01S02A 1412284 Fill 0 - 3.3 12/12/2014	C21 C21S02BS04A 1412284 Fill 3.3 - 6.6 12/12/2014	C21 C21S04B 1412284 See C21S04BS05 6.6 - 8 12/12/2014	C21 C21S04BS05 1412302 Fill 6.6 - 9 12/15/2014	C21 C21S06S07 1412302 Fill 9 - 13 12/15/2014	C21 C21S09 1412302 Natural Organics 16 - 18 12/15/2014	C21 C21S10 1412302 Natural Organics 18 - 20 12/15/2014	C21 C21S11 1412302 Natural Organics 24 - 26 12/15/2014	C21 C21S12 1412302 Natural Organics 29 - 31 12/15/2014	C21 C21S13 1412302 Natural Organics 34 - 36 12/15/2014	C21 C21S14 1412302 Natural Organics 39 - 41 12/15/2014
Preliminary Disposal Facility Category		MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type B-1	Hazardous Material Type A	MCP Regulated Type A	TSCA Material	Hazardous Material Type B	Hazardous Material Type B	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	See C21S04BS05	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	Uncontaminated	MCP Regulated Type A	Uncontaminated	MCP Regulated Type B-1
RCRA 8 Metals	**Units**																								
Arsenic	mg/kg	8.8	6.94	5.69	13.8	5.5	10.2	5.69	7.28	60.4	9.25	7.2	5.64	8.98	5.22	8.2	--	324	1690	5.99	6.34	4.97	4.12	4.35	7.69
Barium	mg/kg	20.7	18.9	15.8	85.4	18.8	33.3	282	305	45.7	23	21.2	17.4	40.7	22.4	34.9	--	120	76.5	18.2	19.6	14.9	13.9	15.8	24.2
Cadmium	mg/kg	1.56	<0.47	<0.49	<0.44	<0.44	0.42	<0.44	<0.44	0.85	<0.66	<0.65	<0.52	0.91	<0.48	<0.54	--	6.29	30.6	<0.57	<0.64	<0.48	<0.57	<0.52	<0.50
Chromium	mg/kg	90.6	16.7	14.4	43	17.2	30.2	14.6	1.63	18.6	23.2	19.3	15	29	15.6	20.7	--	15.7	11.3	17.7	18.3	13.6	13.1	14.1	17.3
Lead	mg/kg	6.6	<4.69	<4.91	14.2	11.6	135	1170	3370	68.7	9.82	<6.55	<5.22	8.53	15.5	36.7	--	3750	34500	18.7	22.8	49.2	9.36	7.12	5.48
Selenium	mg/kg	<9.42	<9.38	<9.82	<8.70	<8.80	<8.41	<8.71	<8.75	<12.3	<13.2	<13.1	<10.4	<8.17	<9.57	<10.9	--	15.3	<11.1	<11.5	<12.7	<9.57	<11.3	<10.5	<10.1
Silver	mg/kg	<0.47	<0.47	<0.49	0.86	<0.44	1.56	2.01	4	<0.61	<0.66	<0.65	<0.52	<0.41	0.52	0.68	--	7.94	19	<0.57	<0.64	<0.48	<0.57	<0.52	<0.50
Mercury	mg/kg	<0.040	<0.040	<0.037	<0.041	<0.025	0.776	8.97	7.08	0.261	<0.051	<0.044	<0.038	<0.035	<0.035	0.121	--	1.65	0.696	<0.042	<0.035	<0.035	<0.033	<0.041	<0.031
Metals by Toxicity Characteristic Leaching Procedure (TCLP)																									
Arsenic	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.050	<0.050	--	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0100	--	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead	mg/L	--	--	--	--	--	<0.050	15.8	35.1	--	--	--	--	--	--	--	--	<0.050	<0.050	--	--	--	--	--	--
Selenium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--	--	<0.00050	<0.00050	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Herbicides																									
2,4,5-T	mg/kg	<0.058	--	--	--	<0.051	<0.055	<0.065	<0.071	--	--	--	--	--	<0.053	<0.059	--	<0.062	<0.060	--	--	--	--	--	--
2,4-D	mg/kg	<0.29	--	--	--	<0.051	<0.055	<0.065	<0.071	--	--	--	--	--	<0.053	<0.059	--	<0.062	<0.060	--	--	--	--	--	--
2,4-DB	mg/kg	<0.022	--	--	--	<0.051	<0.055	<0.065	<0.071	--	--	--	--	--	<0.053	<0.059	--	<0.062	<0.060	--	--	--	--	--	--
Dalapon	mg/kg	<1.7	--	--	--	<0.62	<0.66	<0.78	<0.86	--	--	--	--	--	<0.64	<0.71	--	<0.75	<0.72	--	--	--	--	--	--
Dicamba	mg/kg	<0.087	--	--	--	<0.051	<0.055	<0.065	<0.071	--	--	--	--	--	<0.053	<0.059	--	<0.062	<0.060	--	--	--	--	--	--
Dichlorprop	mg/kg	<0.19	--	--	--	<0.051	<0.055	<0.065	<0.071	--	--	--	--	--	<0.053	<0.059	--	<0.062	<0.060	--	--	--	--	--	--
Dinoseb	mg/kg	<0.29	--	--	--	<0.31	<0.33	<0.39	<0.43	--	--	--	--	--	<0.32	<0.35	--	<0.38	<0.36	--	--	--	--	--	--
MCPA	mg/kg	<72	--	--	--	<12	<13	<16	<17	--	--	--	--	--	<13	<14	--	<15	<14	--	--	--	--	--	--
MCPP	mg/kg	<72	--	--	--	<12	<13	<16	<17	--	--	--	--	--	<13	<14	--	<15	<14	--	--	--	--	--	--
Silvex (2,4,5-TP)	mg/kg	<0.058	--	--	--	<0.051	<0.055	<0.065	<0.071	--	--	--	--	--	<0.053	<0.059	--	<0.062	<0.060	--	--	--	--	--	--
Pesticides																									
4,4'-DDD	mg/kg	<0.0025	--	--	--	<0.0017	<0.0019	<0.0023	<0.0025	--	--	--	--	--	<0.0018	<0.0040	--	<0.0022	<0.0021	--	--	--	--	--	--
4,4'-DDE	mg/kg	<0.0025	--	--	--	<0.0017	<0.0019	<0.0023	<0.0025	--	--	--	--	--	<0.0018	<0.0040	--	<0.0022	<0.0021	--	--	--	--	--	--
4,4'-DDT	mg/kg	<0.0025	--	--	--	<0.0017	<0.0019	<0.0023	<0.0025	--	--	--	--	--	<0.0018	<0.0040	--	<0.0022	<0.0021	--	--	--	--	--	--
Aldrin	mg/kg	<0.0025	--	--	--	<0.0017	<0.0019	<0.0023	<0.0025	--	--	--	--	--	<0.0018	<0.0040	--	<0.0022	<0.0021	--	--	--	--	--	--
alpha-BHC	mg/kg	<0.0025	--	--	--	<0.0017	<0.0019	<0.0023	<0.0025	--	--	--	--	--	<0.0018	<0.0040	--	<0.0022	<0.0021	--	--	--	--	--	--
beta-BHC	mg/kg	<0.0025	--	--	--	<0.0017	<0.0019	<0.0023	<0.0025	--	--	--	--	--	<0.0018	<0.0040	--	<0.0022	<0.0021	--	--	--	--	--	--
Chlordane (technical)	mg/kg	<0.025	--	--	--	<0.017	<0.019	<0.023	<0.025	--	--	--	--	--	<0.018	<0.040	--	<0.022	<0.021	--	--	--	--	--	--
delta-BHC	mg/kg	<0.0025	--	--	--	<0.0017	<0.0019	<0.0023	<0.0025	--	--	--	--	--	<0.0018	<0.0040	--	<0.0022	<0.0021	--	--	--	--	--	--
Dieldrin	mg/kg	<0.0025	--	--	--	<0.0017	<0.0019	<0.0023	<0.0025	--	--	--	--	--	<0.0018	<0.0040	--	<0.0022	<0.0021	--	--	--	--	--	--
Endosulfan I	mg/kg	<0.0025	--	--	--	<0.0017	<0.0019	<0.0023	<0.0025	--	--	--	--	--	<0.0018	<0.0040	--	<0.0022	<0.0021	--	--	--	--	--	--
Endosulfan II	mg/kg	<0.0025	--	--	--	<0.0017	<0.0019	<0.0023	<0.0025	--	--	--	--	--	<0.0018	<0.0040	--	<0.0022	<0.0021	--	--	--	--	--	--
Endosulfan sulfate	mg/kg	<0.0025	--	--	--	<0.0017	<0.0019	<0.0023	<0.0025	--	--	--	--	--	<0.0018	<0.0040	--	<0.0022	<0.0021	--	--	--	--	--	--
Endrin	mg/kg	<0.0025	--	--	--	<0.0017	<0.0019	<0.0023	<0.0025	--	--	--	--	--	<0.0018	<0.0040	--	<0.0022	<0.0021	--	--	--	--	--	--
Endrin ketone	mg/kg	<0.0025	--	--	--	<0.0017	<0.0019	<0.0023	<0.0025	--	--	--	--	--	<0.0018	<0.0040	--	<0.0022	<0.0021	--	--	--	--	--	--
gamma-BHC (Lindane)	mg/kg	<0.0025	--	--	--	<0.0017	<0.0019	<0.0023	<0.0025	--	--	--	--	--	<0.0018	<0.0040	--	<0.0022	<0.0021	--	--	--	--	--	--
Heptachlor	mg/kg	<0.0025	--	--	--	<0.0017	<0.0019	<0.0023	<0.0025	--	--	--	--	--	<0.0018	<0.0040	--	<0.0022	<0.0021	--	--	--	--	--	--
Heptachlor epoxide	mg/kg	<0.0025	--	--	--	<0.0017	<0.0019	<0.0023	<0.0025	--	--	--	--	--	<0.0018	<0.0040	--	<0.0022	<0.0021	--	--	--	--	--	--
Hexachlorobenzene	mg/kg	<0.0025	--	--	--	<0.0017	<0.0019	<0.0023	<0.0025	--	--	--	--	--	<0.0018	<0.0040	--	<0.0022	<0.0021	--	--	--	--	--	--
Methoxychlor	mg/kg	<0.0025	--	--	--	<0.0017	<0.0019	<0.0023	<0.0025	--	--	--	--	--	<0.0018	<0.0040	--	<0.0022	<0.0021	--	--	--	--	--	--
Polychlorinated Biphenyls																									
Aroclor 1016	mg/kg	<0.197	<0.181	<0.144	<0.171	<0.133	<13.1	<2.90	<0.158	<0.162	<0.192	<0.171	<0.153	<0.142	<0.135	<0.125	--	<0.142	<0.141	<0.178	<0.160	<0.166	<0.153	<0.157	<0.147
Aroclor 1221	mg/kg	<0.197	<0.181	<0.144	<0.171	<0.133	<13.1	<2.90	<0.158	<0.162	<0.192	<0.171	<0.153	<0.142	<0.135	<0.125	--	<0.142	<0.141	<0.178	<0.160	<0.166	<0.153	<0.157	<0.147
Aroclor 1232	mg/kg	<0.197	<0.181	<0.144	<0.171	<0.133	<13.1	<2.90	<0.158	<0.162	<0.192	<0.171	<0.153	<0.142	<0.135	<0.125	--	<0.142	<0.141	<0.178	<0.160	<0.166	<0.153	<0.157	<0.147
Aroclor 1242	mg/kg	<0.197	<0.181	<0.144	<0.171	<0.133	<13.1	<2.90	<0.158	<0.162	<0.192	<0.171	<0.153	<0.142	<0.135	<0.125	--	<0.142	<0.141	<0.178	<0.160	<0.166	<0.153	<0.157	<0.147
Aroclor 1248	mg/kg	<0.197	<0.181	<0.144	<0.171	<0.133	<13.1	<2.90	<0.158	<0.162	<0.192	<0.171	<0.153	<0.142	<0.135	<0.125	--	<0.142	<0.141	<0.178	<0.160	<0.166	<0.153	<0.157	<0.147
Aroclor 1254	mg/kg	<0.197	<0.181	<0.144	<0.171	<0.133	156	27.4	12.6	0.188	<0.192	<0.171	<0.153	<0.142	<0.135	1.34	--	0.362	1.1	<0.178	<0.160	<0.166	<0.153	<0.157	<0.147
Aroclor 1260	mg/kg	<0.197	<0.181	<0.144	<0.171	<0.133	<13.1	<2.90	<0.158	<0.162	<0.192	<0.171	<0.153	<0.142	<0.135	0.374	--	<0.142	<0.141	<0.178	<0.160	<0.166	<0.153	<0.157	<0.147
Aroclor 1262	mg/kg	<0.197	<0.181	<0.144	<0.171	<0.133	<13.1	<2.90	<0.158	<0.162	<0.192	<0.171	<0.153	<0.142	<0.135	<0.125	--	<0.142	<0.141	<0.178	<0.160	<0.166	<0.153	<0.157	<0.147
Aroclor 1268	mg/kg	<0.197	<0.181	<0.144	<0.171	<0.133	<13.1	<2.90	<0.158	<0.162	<0.192	<0.171	<0.153	<0.142	<0.135	<0.125	--	0.183	<0.141	<0.178	<0.160	<0.166	<0.153	<0.157	<0.147
Total PCBs	mg/kg	ND	ND	ND	ND	ND	156	27.4	12.6	0.188	ND	ND	ND	ND	ND	1.714	--	0.545	1.1	ND	ND	ND	ND	ND	ND
Total Petroleum Hydrocarbons	mg/kg	88.1	<51.4	<48.2	<50.7	<38.7	277	<42.9	110	<47.7	70.1	<51.6	<51.7	<47.6	46.4	147	--	181	86.1	119	54.5	<52.7	<46.6	<48.2	<47.3
Volatile Organic Compounds (VOCs)																									
1,1,1,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	<0.0887	--	--	--	--	--	--	--	--	--	--	<0.0980
1,1,1-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	<0.0444	--	--	--	--	--	--	--	--	--	--	<0.0490
1,1,2,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	<0.0444	--	--	--	--	--	--	--	--	--	--	<0.0490
1,1,2-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	<0.0444	--	--	--	--	--	--	--	--	--	--	<0.0490
1,1-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	<0.0444	--	--	--	--	--	--	--	--	--	--	<0.0490
1,1-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	<0.0444	--	--	--	--	--	--	--	--	--	--	<0.0490
1,1-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	<0.0444	--	--	--	--	--	--	--	--	--	--	<0.0490
1,2,3-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	<0.0444	--	--	--	--	--	--	--	--	--	--	<0.0490
1,2,3-Trichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	<0.0444	--	--	--	--	--	--	--	--	--	--	<0.0490
1,2,4-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	<0.0444	--	--	--	--	--	--	--	--	--	--	<0.0490
1,2,4-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	0.213	--	--	--	--	--	--	--	--	--	--	<0.0490
1,2-Dibromo-3-Chloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	<0.177	--	--	--	--	--	--	--	--	--	--	<0.196
1,2-Dibromoethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	<0.0444	--	--	--	--	--	--	--	--	--	--	<0.0490
1,2-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	<0.0444	--	--	--	--	--	--	--	--	--	--	<0.0490
1,2-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	<0.0444	--	--	--	--	--	--	--	--	--	--	<0.0490
1,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	<0.0444	--	--	--	--	--	--	--	--	--	--	<0.0490
1,3,5-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	0.106	--	--	--	--	--	--	--	--	--	--	<0.0490
1,3-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	<0.0444	--	--	--	--	--	--	--	--	--	--	<0.0490
1,3-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	<0.0444	--	--	--	--	--	--	--	--	--	--	<0.0490
1,4-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	<0.0444	--	--	--	--	--	--	--	--	--	--	<0.0490
1,4-Dioxane - Screen	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	<4.44	--	--	--	--	--	--	--	--	--	--	<4.90
2,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	<0.0887	--	--	--	--	--	--	--	--	--	--	<0.0980
2-Butanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	<0.177	--	--	--	--	--	--	--	--	--	--	<0.196
2-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	<0.0444	--	--	--	--	--	--	--	--	--	--	<0.0490
2-Hexanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	<0.177	--	--	--	--	--	--	--	--	--	--	<0.196
4-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	<0.0444	--	--	--	--	--	--	--	--	--	--	<0.0490
4-Isopropyltoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	<0.0444	--	--	--	--	--	--	--	--	--	--	<0.0490
4-Methyl-2-Pentanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	<0.177	--	--	--	--	--	--	--	--	--	--	<0.196
Acetone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	<0.177	--	--	--	--	--	--	--	--	--	--	<0.196
Benzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	<0.0444	--	--	--	--	--	--	--	--	--	--	<0.0490
Bromobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	<0.0444	--	--	--	--	--	--	--	--	--	--	<0.0490
Bromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	<0.0444	--	--	--	--	--	--	--	--	--	--	<0.0490
Bromodichloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	<0.0444	--	--	--	--	--	--	--	--	--	--	<0.0490
Bromoform	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	<0.0444	--	--	--	--	--	--	--	--	--	--	<0.0490
Bromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	<0.0887	--	--	--	--	--	--	--	--	--	--	<0.0980
Carbon Disulfide	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	<0.0444	--	--	--	--	--	--	--	--	--	--	<0.0490
Carbon Tetrachloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	<0.0444	--	--	--	--	--	--	--	--	--	--	<0.0490

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	C19 C19S10 1412365 Natural Organics 18 - 20 12/17/2014	C19 C19S11 1412365 Natural Organics 24 - 26 12/17/2014	C19 C19S12 1412365 Natural Organics 29 - 31 12/17/2014	C19 C19S13S14 1412365 Natural Clay 34 - 38 12/17/2014	C20 C20S01S02A 1412302 Fill 0 - 3.3 12/15/2014	C20 C20S02BS04A 1412332 Fill 3.3 - 6.6 12/16/2014	C20 C20S04BS05 1412332 Fill 6.6 - 10 12/16/2014	C20 C20S06 1412332 Fill 10 - 12 12/16/2014	C20 C20S07S08 1412332 Natural Organics 12 - 16 12/16/2014	C20 C20S09 1412332 Natural Organics 19 - 21 12/16/2014	C20 C20S10 1412332 Natural Organics 24 - 26 12/16/2014	C20 C20S11 1412332 Natural Organics 29 - 31 12/16/2014	C20 C20S12S13 1412332 Natural Sand/Gravel 34 - 38 12/16/2014	C21 C21S01S02A 1412284 Fill 0 - 3.3 12/12/2014	C21 C21S02BS04A 1412284 Fill 3.3 - 6.6 12/12/2014	C21 C21S04B 1412284 See C21S04BS05 6.6 - 8 12/12/2014	C21 C21S04BS05 1412302 Fill 6.6 - 9 12/15/2014	C21 C21S06S07 1412302 Fill 9 - 13 12/15/2014	C21 C21S09 1412302 Natural Organics 16 - 18 12/15/2014	C21 C21S10 1412302 Natural Organics 18 - 20 12/15/2014	C21 C21S11 1412302 Natural Organics 24 - 26 12/15/2014	C21 C21S12 1412302 Natural Organics 29 - 31 12/15/2014	C21 C21S13 1412302 Natural Organics 34 - 36 12/15/2014	C21 C21S14 1412302 Natural Organics 39 - 41 12/15/2014
Preliminary Disposal Facility Category		MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type B-1	Hazardous Material Type A	MCP Regulated Type A	TSCA Material	Hazardous Material Type B	Hazardous Material Type B	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	See C21S04BS05	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	Uncontaminated	MCP Regulated Type A	Uncontaminated	MCP Regulated Type B-1
Chlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	<0.0444	--	--	--	--	--	--	--	--	--	--	<0.0490
Chloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	<0.0887	--	--	--	--	--	--	--	--	--	--	<0.0980
Chloroform	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	<0.0444	--	--	--	--	--	--	--	--	--	--	<0.0490
Chloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	<0.0887	--	--	--	--	--	--	--	--	--	--	<0.0980
cis-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	<0.0444	--	--	--	--	--	--	--	--	--	--	<0.0490
cis-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	<0.0444	--	--	--	--	--	--	--	--	--	--	<0.0490
Dibromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	<0.0444	--	--	--	--	--	--	--	--	--	--	<0.0490
Dibromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	<0.0444	--	--	--	--	--	--	--	--	--	--	<0.0490
Dichlorodifluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	<0.0444	--	--	--	--	--	--	--	--	--	--	<0.0490
Diethyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	<0.0444	--	--	--	--	--	--	--	--	--	--	<0.0490
Di-isopropyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	<0.0444	--	--	--	--	--	--	--	--	--	--	<0.0490
Ethyl tertiary-butyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	<0.0444	--	--	--	--	--	--	--	--	--	--	<0.0490
Ethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	0.0674	--	--	--	--	--	--	--	--	--	--	<0.0490
Hexachlorobutadiene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	<0.0444	--	--	--	--	--	--	--	--	--	--	<0.0490
Isopropylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	<0.0444	--	--	--	--	--	--	--	--	--	--	<0.0490
Methyl tert-Butyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	<0.0444	--	--	--	--	--	--	--	--	--	--	<0.0490
Methylene Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	<0.177	--	--	--	--	--	--	--	--	--	--	<0.196
Naphthalene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	36.3	--	--	--	--	--	--	--	--	--	--	1.54
n-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	<0.0444	--	--	--	--	--	--	--	--	--	--	<0.0490
n-Propylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	<0.0444	--	--	--	--	--	--	--	--	--	--	<0.0490
sec-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	<0.0444	--	--	--	--	--	--	--	--	--	--	<0.0490
Styrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	<0.0444	--	--	--	--	--	--	--	--	--	--	<0.0490
tert-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	<0.0444	--	--	--	--	--	--	--	--	--	--	<0.0490
Tertiary-amyl methyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	<0.0444	--	--	--	--	--	--	--	--	--	--	<0.0490
Tetrachloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	<0.0444	--	--	--	--	--	--	--	--	--	--	<0.0490
Tetrahydrofuran	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	<0.177	--	--	--	--	--	--	--	--	--	--	<0.196
Toluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	<0.0444	--	--	--	--	--	--	--	--	--	--	<0.0490
trans-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	<0.0444	--	--	--	--	--	--	--	--	--	--	<0.0490
trans-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	<0.0444	--	--	--	--	--	--	--	--	--	--	<0.0490
Trichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	<0.0444	--	--	--	--	--	--	--	--	--	--	<0.0490
Trichlorofluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	<0.0444	--	--	--	--	--	--	--	--	--	--	<0.0490
Vinyl Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	<0.0444	--	--	--	--	--	--	--	--	--	--	<0.0490
Xylene O	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	0.0745	--	--	--	--	--	--	--	--	--	--	<0.0490
Xylene P,M	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	0.157	--	--	--	--	--	--	--	--	--	--	<0.0980
Xylenes (Total)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	0.232	--	--	--	--	--	--	--	--	--	--	<0.0980
Total VOCs	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	37.1499	--	--	--	--	--	--	--	--	--	--	1.54
Volatile Organic Compounds - Low Level Analysis																									
1,1,1,2-Tetrachloroethane	mg/kg	<0.0058	<0.0046	<0.0038	<0.0042	<0.0041	<0.0041	<0.0041	<0.0061	<0.0045	<0.0082	<0.0043	<0.0043	--	<0.0048	<0.0075	<0.0044	--	<0.0048	<0.0053	<0.0041	<0.0037	<0.0041	<0.0029	<0.0036
1,1,1-Trichloroethane	mg/kg	<0.0058	<0.0046	<0.0038	<0.0042	<0.0041	<0.0041	<0.0041	<0.0061	<0.0045	<0.0082	<0.0043	<0.0043	--	<0.0048	<0.0075	<0.0044	--	<0.0048	<0.0053	<0.0041	<0.0037	<0.0041	<0.0029	<0.0036
1,1,2,2-Tetrachloroethane	mg/kg	<0.0023	<0.0019	<0.0015	<0.0017	<0.0016	<0.0016	<0.0017	<0.0024	<0.0018	<0.0033	<0.0017	<0.0017	--	<0.0019	<0.0030	<0.0017	--	<0.0019	<0.0021	<0.0017	<0.0015	<0.0016	<0.0012	<0.0014
1,1,2-Trichloroethane	mg/kg	<0.0058	<0.0046	<0.0038	<0.0042	<0.0041	<0.0041	<0.0041	<0.0061	<0.0045	<0.0082	<0.0043	<0.0043	--	<0.0048	<0.0075	<0.0044	--	<0.0048	<0.0053	<0.0041	<0.0037	<0.0041	<0.0029	<0.0036
1,1-Dichloroethane	mg/kg	<0.0058	<0.0046	<0.0038	<0.0042	<0.0041	<0.0041	<0.0041	<0.0061	<0.0045	<0.0082	<0.0043	<0.0043	--	<0.0048	<0.0075	<0.0044	--	<0.0048	<0.0053	<0.0041	<0.0037	<0.0041	<0.0029	<0.0036
1,1-Dichloroethene	mg/kg	<0.0058	<0.0046	<0.0038	<0.0042	<0.0041	<0.0041	<0.0041	<0.0061	<0.0045	<0.0082	<0.0043	<0.0043	--	<0.0048	<0.0075	<0.0044	--	<0.0048	<0.0053	<0.0041	<0.0037	<0.0041	<0.0029	<0.0036
1,1-Dichloropropene	mg/kg	<0.0058	<0.0046	<0.0038	<0.0042	<0.0041	<0.0041	<0.0041	<0.0061	<0.0045	<0.0082	<0.0043	<0.0043	--	<0.0048	<0.0075	<0.0044	--	<0.0048	<0.0053	<0.0041	<0.0037	<0.0041	<0.0029	<0.0036
1,2,3-Trichlorobenzene	mg/kg	<0.0058	<0.0046	<0.0038	<0.0042	<0.0041	<0.0041	<0.0041	<0.0061	<0.0045	<0.0082	<0.0043	<0.0043	--	<0.0048	<0.0075	<0.0044	--	<0.0048	<0.0053	<0.0041	<0.0037	<0.0041	<0.0029	<0.0036
1,2,3-Trichloropropane	mg/kg	<0.0058	<0.0046	<0.0038	<0.0042	<0.0041	<0.0041	<0.0041	<0.0061	<0.0045	<0.0082	<0.0043	<0.0043	--	<0.0048	<0.0075	<0.0044	--	<0.0048	<0.0053	<0.0041	<0.0037	<0.0041	<0.0029	<0.0036
1,2,4-Trichlorobenzene	mg/kg	<0.0058	<0.0046	<0.0038	<0.0042	<0.0041	<0.0041	<0.0041	<0.0061	<0.0045	<0.0082	<0.0043	<0.0043	--	<0.0048	<0.0075	<0.0044	--	<0.0048	<0.0053	<0.0041	<0.0037	<0.0041	<0.0029	<0.0036
1,2,4-Trimethylbenzene	mg/kg	<0.0058	<0.0046	<0.0038	<0.0042	<0.0041	<0.0041	<0.0041	<0.0061	<0.0045	<0.0082	<0.0043	<0.0043	--	<0.0048	<0.0075	<0.0044	--	<0.0048	<0.0053	<0.0041	<0.0037	<0.0041	<0.0029	<0.0036
1,2-Dibromo-3-Chloropropane	mg/kg	<0.0058	<0.0046	<0.0038	<0.0042	<0.0041	<0.0041	<0.0041	<0.0061	<0.0045	<0.0082	<0.0043	<0.0043	--	<0.0048	<0.0075	<0.0044	--	<0.0048	<0.0053	<0.0041	<0.0037	<0.0041	<0.0029	<0.0036
1,2-Dibromoethane	mg/kg	<0.0058	<0.0046	<0.0038	<0.0042	<0.0041	<0.0041	<0.0041	<0.0061	<0.0045	<0.0082	<0.0043	<0.0043	--	<0.0048	<0.0075	<0.0044	--	<0.0048	<0.0053	<0.0041	<0.0037	<0.0041	<0.0029	<0.0036
1,2-Dichlorobenzene	mg/kg	<0.0058	<0.0046	<0.0038	<0.0042	<0.0041	<0.0041	<0.0041	<0.0061	<0.0045	<0.0082	<0.0043	<0.0043	--	<0.0048	<0.0075	<0.0044	--	<0.0048	<0.0053	<0.0041	<0.0037	<0.0041	<0.0029	<0.0036
1,2-Dichloroethane	mg/kg	<0.0058	<0.0046	<0.0038	<0.0042	<0.0041	<0.0041	<0.0041	<0.0061	<0.0045	<0.0082	<0.0043	<0.0043	--	<0.0048	<0.0075	<0.0044	--	<0.0048	<0.0053	<0.0041	<0.0037	<0.0041	<0.0029	<0.0036
1,2-Dichloropropane	mg/kg	<0.0058	<0.0046	<0.0038	<0.0042	<0.0041	<0.0041	<0.0041	<0.0061	<0.0045	<0.0082	<0.0043	<0.0043	--	<0.0048	<0.0075	<0.0044	--	<0.0048	<0.0053	<0.0041	<0.0037	<0.0041	<0.0029	<0.0036
1,3,5-Trimethylbenzene	mg/kg	<0.0058	<0.0046	<0.0038	<0.0042	<0.0041	<0.0041	<0.0041	<0.0061	<0.0045	<0.0082	<0.0043	<0.0043	--	<0.0048	<0.0075	<0.0044	--	<0.0048	<0.0053	<0.0041	<0.0037	<0.0041	<0.0029	<0.0036
1,3-Dichlorobenzene	mg/kg	<0.0058	<0.0046	<0.0038	<0.0042	<0.0041	<0.0041	<0.0041	<0.0061	<0.0045	<0.0082	<0.0043	<0.0043	--	<0.0048	<0.0075	<0.0044	--	<0.0048	<0.0053	<0.0041	<0.0037	<0.0041	<0.0029	<0.0036
1,3-Dichloropropane	mg/kg	<0.0058	<0.0046	<0.0038	<0.0042	<0.0041	<0.0041	<0.0041	<0.0061	<0.0045	<0.0082	<0.0043	<0.0043	--	<0.0048	<0.0075	<0.0044	--	<0.0048	<0.0053	<0.0041	<0.0037	<0.0041	<0.0029	<0.0036
1,4-Dichlorobenzene	mg/kg	<0.0058	<0.0046	<0.0038	<0.0042	<0.0041	<0.0041	<0.0041	<0.0061	<0.0045	<0.0082	<0.0043	<0.0043	--	<0.0048	<0.0075	<0.0044	--	<0.0048	<0.0053	<0.0041	<0.0037	<0.0041	<0.0029	<0.0036
1,4-Dioxane	mg/kg	<0.117	<0.0928	<0.0754	<0.0845	<0.0819	<0.0817	<0.0830	<0.122	<0.0907	<0.164	<0.0868	<0.0851	--	<0.0957	<0.150	<0.0872	--	<0.0952	<0.106	<0.0830	<0.0739	<0.0811	<0.0586	<0.0718
2,2-Dichloropropane	mg/kg	<0.0058	<0.0046	<0.0038	<0.0042	<0.0041	<0.0041	<0.0041	<0.0061	<0.0045	<0.0082	<0.0043	<0.0043	--	<0.0048	<0.0075	<0.0044	--	<0.0048	<0.0053	<0.0041	<0.0037	<0.0041	<0.0029	<0.0036
2-Butanone	mg/kg	0.0402	<0.0093	<0.0075	<0.0085	<0.0082	<0.0082	<0.0083	<0.0122	<0.0091	0.0172	<0.0087	<0.0085	--	<0.0096	<0.0150	<0.0087	--	<0.0095	<0.0106	<0.0083	<0.0074	<0.0081	<0.0059	<0.0072
2-Chlorotoluene	mg/kg	<0.0058	<0.0046	<0.0038	<0.0042	<0.0041	<0.0041	<0.0041	<0.0061	<0.0045	<0.0082	<0.0043	<0.0043	--	<0.0048	<0.0075	<0.0044	--	<0.0048	<0.0053	<0.0041	<0.0037	<0.0041	<0.0029	<0.0036
2-Hexanone	mg/kg	<0.0117	<0.0093	<0.0075	<0.0085	<0.0082	<0.0082	<0.0083	<0.0122	<0.0091	<0.0164	<0.0087	<0.0085	--	<0.0096	<0.0150	<0.0087	--	<0.0095	<0.0106	<0.0083	<0.0074	<0.0081	<0.0059	<0.0072
4-Chlorotoluene	mg/kg	<0.0058	<0.0046	<0.0038	<0.0042	<0.0041	<0.0041	<0.0041	<0.0061	<0.0045	<0.0082	<0.0043	<0.0043	--	<0.0048	<0.0075	<0.0044	--	<0.0048	<0.0053	<0.0041	<0.0037	<0.0041	<0.0029	<0.0036
4-Isopropyltoluene	mg/kg	<0.0058	<0.0046	<0.0038	<0.0042	<0.0041	<0.0041	<0.0041	<0.0061	<0.0045	<0.0082	<0.0043	<0.0043	--	<0.0048	<0.0075	<0.0044	--	<0.0048	<0.0053	<0.0041	<0.0037	<0.0041	<0.0029	<0.0036
4-Methyl-2-Pentanone	mg/kg	<0.0117	<0.0093	<0.0075	<0.0085	<0.0082	<0.0082	<0.0083	<0.0122	<0.0091	<0.0164	<0.0087	<0.0085	--	<0.0096	<0.0150	<0.0087	--	<0.0095	<0.0106	<0.0083	<0.0074	<0.0081	<0.0059	<0.0072
Acetone	mg/kg	0.338	0.0287	0.0689	<0.0085	<0.0082	0.0083	0.0197	<0.0122	0.014	0.097	0.033	0.028	--	<0.0096	<0.0150	<0.0087	--	<0.0095	0.0129	0.0151	<0.0074	0.0196	<0.0059	0.0108
Benzene	mg/kg	<0.0058	<0.0046	<0.0038	<0.0042	<0.0041	<0.0041	<0.0041	<0.0061	<0.0045	<0.0082	<0.0043	<0.0043	--	<0.0048	<0.0075	<0.0044	--	<0.0048	<0.0053	<0.0041	<0.0037	<0.0041	<0.0029	<0.0036
Bromobenzene	mg/kg	<0.0058	<0.0046	<0.0038	<0.0042	<0.0041	<0.0041	<0.0041	<0.0061	<0.0045	<0.0082	<0.0043	<0.0043	--	<0.0048	<0.0075	<0.0044	--	<0.0048	<0.0053	<0.0041	<0.0037	<0.0041	<0.0029	<0.0036
Bromochloromethane	mg/kg	<0.0058	<0.0046	<0.0038	<0.0042	<0.0041	<0.0041	<0.0041	<0.0061	<0.0045	<0.0082	<0.0043	<0.0043	--	<0.0048	<0.0075	<0.0044	--	<0.0048	<0.0053	<0.0041	<0.0037	<0.0041	<0.0029	<0.0036
Bromodichloromethane	mg/kg	<0.0058	<0.0046	<0.0038	<0.0042	<0.0041	<0.0041	<0.0041	<0.0061	<0.0045	<0.0082	<0.0043	<0.0043	--	<0.0048	<0.0075	<0.0044	--	<0.0048	<0.0053	<0.0041	<0.0037	<0.0041	<0.0029	<0.0036
Bromoform	mg/kg	<0.0058	<0.0046	<0.0038	<0.0042	<0.0041	<0.0041	<0.0041	<0.0061	<0.0045	<0.0082	<0.0043	<0.0043	--	<0.0048	<0.0075	<0.0044	--	<0.0048	<0.0053	<0.0041	<0.0037	<0.0041	<0.0029	<0.0036
Bromomethane	mg/kg	<0.0117	<0.0093	<0.0075	<0.0085	<0.0082	<0.0082	<0.0083	<0.0122	<0.0091	<0.0164	<0.0087	<0.0085	--	<0.0096	<0.0150	<0.0087	--	<0.0095	<0.0106	<0.0083	<0.0074	<0.0081	<0.0059	<0.0072
Carbon Disulfide	mg/kg	0.0266	<0.0046	<0.0038	<0.0042	<0.0041	<0.0041	<0.0041	<0.0061	0.0848	<0.0082	<0.0043	<0.0043	--	<0.0048	<0.0075	<0.0044	--	<0.0048	<0.0053	<0.0041	<0.0037	<0.0041	<0.0029	<0.0036
Carbon Tetrachloride	mg/kg	<0.0058	<0.0046	<0.0038	<0.0042	<0.0041	<0.0041	<0.0041	<0.0061	<0.0045	<0.0082	<0.0043	<0.0043	--	<0.0048	<0.0075	<0.0044	--	<0.0048	<0.0053	<0.0041	<0.0037	<0.0041	<0.0029	<0.0036
Chlorobenzene	mg/kg	<0.0058	<0.0046	<0.0038	<0.0042	<0.0041	<0.0041	<0.0041	<0.0061	<0.0045	<0.0082	<0.0043	<0.0043	--	<0.0048	<0.0075	<0.0044	--	<0.0048	<0.0053	<0.0041	<0.0037	<0.0041	<0.0029	<0.0036
Chloroethane	mg/kg	<0.0117	<0.0093	<0.0075	<0.0085	<0.0082	<0.0082	<0.0083	<0.0122	<0.0091	<0.0164	<0.0087	<0.0085	--	<0.0096	<0.0150	<0.0087	--	<0.0095	<0.0106	<0.0083	<0.0074	<0.0081	<0.0059	<0.0072
Chloroform	mg/kg	<0.0058	<0.0046	<0.0038	<0.0042	<0.0041	<0.0041	<0.0041	<0.0061	<0.0045	<0.0082	<0.0043	<0.0043	--	<0.0048	<0.0075	<0.0044	--	<0.0048	<0.0053	<0.0041	<0.0037	<0.0041	<0.0029	<0.0036
Chloromethane	mg/kg	<0.0117	<0.0093	<0.0075	<0.0085	<0.0082	<0.0082	<0.0083	<0.0122	<0.0091	<0.0164	<0.0087	<0.0085	--	<0.0096	<0.0150	<0.0087	--	<0.0095	<0.0106	<0.0083	<0.0074	<0.0081	<0.0059	<0.0072
cis-1,2-Dichloroethene	mg/kg	<0.0058	<0.0046	<0.0038	<0.0042	<0.0041	<0.0041	<0.0041	<0.0061	<0.0045	<0.0082	<0.0043	<0.0043	--	<0.0048	<0.0075	<0.0044	--	<0.0048	<0.0053	<0.0041	<0.0037	<0.0041	<0.0029	<0.0036
cis-1,3-Dichloropropene	mg/kg	<0.0058	<0.0046	<0.0038	<0.0042	<0.0041	<0.0041	<0.0041	<0.0061	<0.0045	<0.0082	<0.0043	<0.0043	--	<0.0048	<0.0075	<0.0044	--	<0.0048	<0.0053	<0.0041	<0.0037	<0.0041	<0.0029	<0.0036
Dibromochloromethane	mg/kg	<0.0023	<0.0019	<0.0015	<0.0017	<0.0016	<0.0016	<0.0017	<0.0024	<0.0018	<0.0033	<0.0017	<0.0017	--	<0.0019	<0.0030	<0.0017	--	<0.0019	<0.0021	<0.0017	<0.0015	<0.0016	<0.0012	<0.0014
Dibromomethane	mg/kg	<0.0058	<0.0046	<0.0038	<0.0042	<0.0041	<0.0041	<0.0041	<0.0061	<0.0045	<0.0082	<0.0043	<0.0043	--	<0.0048	<0.0075	<0.0044	--	<0.0048	<0.0053	<0.0041	<0.0037	<0.0041	<0.0029	<0.0036
Dichlorodifluoromethane	mg/kg	<0.0117	<0.0093	<0.0075	<0.0085	<0.0082	<0.0082	<0.0083	<0.0122	<0.0091	<0.0164	<0.0087	<0.0085	--	<0.0096	<0.0150	<0.0087	--	<0.0095	<0.0106	<0.0083	<0.0074	<0.0081	<0.0059	<0.0072
Diethyl Ether	mg/kg	<0.0058	<0.0046	<0.0038	<0.0042	<0.0041	<0.0041	<0.0041	<0.0061	<0.0045	<0.0082	<0.0043	<0.0043	--	<0.0048	<0.0075	<0.0044	--	<0.0048	<0.0053	<0.0041	<0.0037	<0.0041	<0.0029	<0.0036
Di-isopropyl ether	mg/kg	<0.0058	<0.0046	<0.0038	<0.0042	<0.0041	<0.0041	<0.0041	<0.0061	<0.0045	<0.0082	<0.0043	<0.0043	--	<0.0048	<0.0075	<0.0044	--	<0.0048	<0.0053	<0.0041	<0.0037	<0.0041	<0.0029	<0.0036
Ethyl tertiary-butyl ether	mg/kg	<0.0058	<0.0046	<0.0038	<0.0042	<0.0041	<0.0041	<0.0041	<0.0061	<0.0045	<0.0082	<0.0043	<0.0043	--	<0.0048	<0.0075	<0.0044	--	<0.0048	<0.0053	<0.0041	<0.0037	<0.0041	<0.0029	<0.0036
Ethylbenzene	mg/kg	<0.0058	<0.0046	<0.0038	<0.0042	<0.0041	<0.0041	<0.0041	<0.0061	<0.0045	<0.0082	<0.0043	<0.0043	--	<0.0048	<0.0075	<0.0044	--	<0.0048	<0.0053	<0.0041	<0.0037	<0.0041	<0.0029	<0.0036
Hexachlorobutadiene	mg/kg	<0.0058	<0.0046	<0.0038	<0.0042	<0.0041	<0.0041	<0.0041	<0.0061	<0.0045	<0.0082	<0.0043	<0.0043	--	<0.0048	<0.0075	<0.0044	--	<0.0048	<0.0053	<0.0041	<0.0037	<0.0041	<0.0029	<0.0036
Isopropylbenzene	mg/kg	<0.0058	<0.0046	<0.0038	<0.0042	<0.0041	<0.0041	<0.0041	<0.0061	<0.0045	<0.0082	<0.0043	<0.0043	--	<0.0048	<0.0075	<0.0044	--	<0.0048	<0.0053	<0.0041	<0.0037	<0.0041	<0.0029	<0.0036
Methyl tert-Butyl Ether	mg/kg	<0.0058	<0.0046	<0.0038	<0.0042	<0.0041	<0.0041	<0.0041	<0.0061	<0.0045	<0.0082	<0.0043	<0.0043	--	<0.0048	<0.0075	<0.0044	--	<0.0048	<0.0053	<0.0041	<0.0037	<0.0041	<0.0029	<0.0036
Methylene Chloride	mg/kg	<0.0117	<0.0093	<0.0075	<0.0085	<0.0082	<0.0082	<0.0083	<0.0122	<0.0091	<0.0164	<0.0087	<0.0085	--	<0.0096	<0.0150	<0.0087	--	<0.0095	<0.0106	<0.0083	<0.0074	<0.0081	<0.0059	<0.0072
Naphthalene	mg/kg	<0.0058	<0.0046	<0.0038	<0.0042	<0.0041	<0.0041	<0.0041	<0.0061	<0.0045	<0.0082	<0.0043	<0.0043	--	<0.0048	<0.0075	<0.0044	--	<0.0048	<0.0053	<0.0041	<0.0037	<0.0041	<0.0029	0.121
n-Butylbenzene	mg/kg	<0.0058	<0.0046	<0.0038	<0.0042	<0.0041	<0.0041	<0.0041	<0.0061	<0.0045	<0.0082	<0.0043	<0.0043	--	<0.0048	<0.0075	<0.0044	--	<0.0048	<0.0053	<0.0041	<0.0037	<0.0041	<0.0029	<0.0036
n-Propylbenzene	mg/kg	<0.0058	<0.0046	<0.0038	<0.0042	<0.0041	<0.0041	<0.0041	<0.0061	<0.0045	<0.0082	<0.0043	<0.0043	--	<0.0048	<0.0075	<0.0044	--	<0.0048	<0.0053	<0.0041	<0.0037	<0.0041	<0.0029	<0.0036
sec-Butylbenzene	mg/kg	<0.0058	<0.0046	<0.0038	<0.0042	<0.0041	<0.0041	<0.0041	<0.0061	<0.0045	<0.0082	<0.0043	<0.0043	--	<0.0048	<0.0075	<0.0044	--	<0.0048	<0.0053	<0.0041	<0.0037	<0.0041	<0.0029	<0.0036

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	C19 C19S10 1412365 Natural Organics 18 - 20 12/17/2014	C19 C19S11 1412365 Natural Organics 24 - 26 12/17/2014	C19 C19S12 1412365 Natural Organics 29 - 31 12/17/2014	C19 C19S13S14 1412365 Natural Clay 34 - 38 12/17/2014	C20 C20S01S02A 1412302 Fill 0 - 3.3 12/15/2014	C20 C20S02BS04A 1412332 Fill 3.3 - 6.6 12/16/2014	C20 C20S04BS05 1412332 Fill 6.6 - 10 12/16/2014	C20 C20S06 1412332 Fill 10 - 12 12/16/2014	C20 C20S07S08 1412332 Natural Organics 12 - 16 12/16/2014	C20 C20S09 1412332 Natural Organics 19 - 21 12/16/2014	C20 C20S10 1412332 Natural Organics 24 - 26 12/16/2014	C20 C20S11 1412332 Natural Organics 29 - 31 12/16/2014	C20 C20S12S13 1412332 Natural Sand/Gravel 34 - 38 12/16/2014	C21 C21S01S02A 1412284 Fill 0 - 3.3 12/12/2014	C21 C21S02BS04A 1412284 Fill 3.3 - 6.6 12/12/2014	C21 C21S04B 1412284 See C21S04BS05 6.6 - 8 12/12/2014	C21 C21S04BS05 1412302 Fill 6.6 - 9 12/15/2014	C21 C21S06S07 1412302 Fill 9 - 13 12/15/2014	C21 C21S09 1412302 Natural Organics 16 - 18 12/15/2014	C21 C21S10 1412302 Natural Organics 18 - 20 12/15/2014	C21 C21S11 1412302 Natural Organics 24 - 26 12/15/2014	C21 C21S12 1412302 Natural Organics 29 - 31 12/15/2014	C21 C21S13 1412302 Natural Organics 34 - 36 12/15/2014	C21 C21S14 1412302 Natural Organics 39 - 41 12/15/2014
Preliminary Disposal Facility Category		MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type B-1	Hazardous Material Type A	MCP Regulated Type A	TSCA Material	Hazardous Material Type B	Hazardous Material Type B	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	See C21S04BS05	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	Uncontaminated	MCP Regulated Type A	Uncontaminated	MCP Regulated Type B-1
Styrene	mg/kg	<0.0058	<0.0046	<0.0038	<0.0042	<0.0041	<0.0041	<0.0041	<0.0061	<0.0045	<0.0082	<0.0043	<0.0043	--	<0.0048	<0.0075	<0.0044	--	<0.0048	<0.0053	<0.0041	<0.0037	<0.0041	<0.0029	<0.0036
tert-Butylbenzene	mg/kg	<0.0058	<0.0046	<0.0038	<0.0042	<0.0041	<0.0041	<0.0041	<0.0061	<0.0045	<0.0082	<0.0043	<0.0043	--	<0.0048	<0.0075	<0.0044	--	<0.0048	<0.0053	<0.0041	<0.0037	<0.0041	<0.0029	<0.0036
Tertiary-amyl methyl ether	mg/kg	<0.0058	<0.0046	<0.0038	<0.0042	<0.0041	<0.0041	<0.0041	<0.0061	<0.0045	<0.0082	<0.0043	<0.0043	--	<0.0048	<0.0075	<0.0044	--	<0.0048	<0.0053	<0.0041	<0.0037	<0.0041	<0.0029	<0.0036
Tetrachloroethene	mg/kg	<0.0058	<0.0046	<0.0038	<0.0042	<0.0041	<0.0041	<0.0041	<0.0061	<0.0045	<0.0082	<0.0043	<0.0043	--	<0.0048	<0.0075	<0.0044	--	<0.0048	<0.0053	<0.0041	<0.0037	<0.0041	<0.0029	<0.0036
Tetrahydrofuran	mg/kg	<0.0058	<0.0046	<0.0038	<0.0042	<0.0041	<0.0041	<0.0041	<0.0061	<0.0045	<0.0082	<0.0043	<0.0043	--	<0.0048	<0.0075	<0.0044	--	<0.0048	<0.0053	<0.0041	<0.0037	<0.0041	<0.0029	<0.0036
Toluene	mg/kg	<0.0058	<0.0046	<0.0038	<0.0042	<0.0041	<0.0041	<0.0041	<0.0061	<0.0045	<0.0082	<0.0043	<0.0043	--	<0.0048	<0.0075	<0.0044	--	<0.0048	<0.0053	<0.0041	<0.0037	<0.0041	<0.0029	<0.0036
trans-1,2-Dichloroethene	mg/kg	<0.0058	<0.0046	<0.0038	<0.0042	<0.0041	<0.0041	<0.0041	<0.0061	<0.0045	<0.0082	<0.0043	<0.0043	--	<0.0048	<0.0075	<0.0044	--	<0.0048	<0.0053	<0.0041	<0.0037	<0.0041	<0.0029	<0.0036
trans-1,3-Dichloropropene	mg/kg	<0.0058	<0.0046	<0.0038	<0.0042	<0.0041	<0.0041	<0.0041	<0.0061	<0.0045	<0.0082	<0.0043	<0.0043	--	<0.0048	<0.0075	<0.0044	--	<0.0048	<0.0053	<0.0041	<0.0037	<0.0041	<0.0029	<0.0036
Trichloroethene	mg/kg	<0.0058	<0.0046	<0.0038	<0.0042	<0.0041	<0.0041	<0.0041	<0.0061	<0.0045	<0.0082	<0.0043	<0.0043	--	<0.0048	<0.0075	<0.0044	--	<0.0048	<0.0053	<0.0041	<0.0037	<0.0041	<0.0029	<0.0036
Trichlorofluoromethane	mg/kg	<0.0058	<0.0046	<0.0038	<0.0042	<0.0041	<0.0041	<0.0041	<0.0061	<0.0045	<0.0082	<0.0043	<0.0043	--	<0.0048	<0.0075	<0.0044	--	<0.0048	<0.0053	<0.0041	<0.0037	<0.0041	<0.0029	<0.0036
Vinyl Chloride	mg/kg	<0.0117	<0.0093	<0.0075	<0.0085	<0.0082	<0.0082	<0.0083	<0.0122	<0.0091	<0.0164	<0.0087	<0.0085	--	<0.0096	<0.0150	<0.0087	--	<0.0095	<0.0106	<0.0083	<0.0074	<0.0081	<0.0059	<0.0072
Xylene O	mg/kg	<0.0058	<0.0046	<0.0038	<0.0042	<0.0041	<0.0041	<0.0041	<0.0061	<0.0045	<0.0082	<0.0043	<0.0043	--	<0.0048	<0.0075	<0.0044	--	<0.0048	<0.0053	<0.0041	<0.0037	<0.0041	<0.0029	<0.0036
Xylene P,M	mg/kg	<0.0117	<0.0093	<0.0075	<0.0085	<0.0082	<0.0082	<0.0083	<0.0122	<0.0091	<0.0164	<0.0087	<0.0085	--	<0.0096	<0.0150	<0.0087	--	<0.0095	<0.0106	<0.0083	<0.0074	<0.0081	<0.0059	<0.0072
Xylenes (Total)	mg/kg	<0.0117	<0.0093	<0.0075	<0.0085	<0.0082	<0.0082	<0.0083	<0.0122	<0.0091	<0.0164	<0.0087	<0.0085	--	<0.0096	<0.0150	<0.0087	--	<0.0095	<0.0106	<0.0083	<0.0074	<0.0081	<0.0059	<0.0072
Total VOCs (Low Level)	mg/kg	0.4048	0.0287	0.0689	ND	ND	0.0083	0.0197	ND	0.0988	0.1142	0.033	0.028	--	ND	ND	ND	--	ND	0.0129	0.0151	ND	0.0196	ND	0.1318
Semi-Volatile Organic Compounds																									
1,2,4-Trichlorobenzene	mg/kg	<1.25	<1.01	<1.09	<1.05	<0.844	<0.911	<0.938	<1.07	<1.09	<1.19	<1.08	<1.01	<0.981	<0.909	<0.926	--	<0.976	<0.966	<1.19	<1.12	<1.05	<1.09	<1.05	<0.913
1,2-Dichlorobenzene	mg/kg	<1.25	<1.01	<1.09	<1.05	<0.844	<0.911	<0.938	<1.07	<1.09	<1.19	<1.08	<1.01	<0.981	<0.909	<0.926	--	<0.976	<0.966	<1.19	<1.12	<1.05	<1.09	<1.05	<0.913
1,3-Dichlorobenzene	mg/kg	<1.25	<1.01	<1.09	<1.05	<0.844	<0.911	<0.938	<1.07	<1.09	<1.19	<1.08	<1.01	<0.981	<0.909	<0.926	--	<0.976	<0.966	<1.19	<1.12	<1.05	<1.09	<1.05	<0.913
1,4-Dichlorobenzene	mg/kg	<0.625	<0.507	<0.547	<0.524	<0.423	<0.457	<0.470	<0.536	<0.545	<0.597	<0.540	<0.508	<0.492	<0.456	<0.465	--	<0.490	<0.485	<0.599	<0.561	<0.526	<0.546	<0.525	<0.458
2,4,5-Trichlorophenol	mg/kg	<1.25	<1.01	<1.09	<1.05	<0.844	<0.911	<0.938	<1.07	<1.09	<1.19	<1.08	<1.01	<0.981	<0.909	<0.926	--	<0.976	<0.966	<1.19	<1.12	<1.05	<1.09	<1.05	<0.913
2,4,6-Trichlorophenol	mg/kg	<1.25	<1.01	<1.09	<1.05	<0.844	<0.911	<0.938	<1.07	<1.09	<1.19	<1.08	<1.01	<0.981	<0.909	<0.926	--	<0.976	<0.966	<1.19	<1.12	<1.05	<1.09	<1.05	<0.913
2,4-Dichlorophenol	mg/kg	<1.25	<1.01	<1.09	<1.05	<0.844	<0.911	<0.938	<1.07	<1.09	<1.19	<1.08	<1.01	<0.981	<0.909	<0.926	--	<0.976	<0.966	<1.19	<1.12	<1.05	<1.09	<1.05	<0.913
2,4-Dimethylphenol	mg/kg	<1.25	<1.01	<1.09	<1.05	<0.844	<0.911	<0.938	<1.07	<1.09	<1.19	<1.08	<1.01	<0.981	<0.909	<0.926	--	<0.976	<0.966	<1.19	<1.12	<1.05	<1.09	<1.05	<0.913
2,4-Dinitrophenol	mg/kg	<6.25	<5.07	<5.47	<5.24	<4.23	<4.57	<4.70	<5.36	<5.45	<5.97	<5.40	<5.08	<4.92	<4.56	<4.65	--	<4.90	<4.85	<5.99	<5.61	<5.26	<5.46	<5.25	<4.58
2,4-Dinitrotoluene	mg/kg	<1.25	<1.01	<1.09	<1.05	<0.844	<0.911	<0.938	<1.07	<1.09	<1.19	<1.08	<1.01	<0.981	<0.909	<0.926	--	<0.976	<0.966	<1.19	<1.12	<1.05	<1.09	<1.05	<0.913
2,6-Dinitrotoluene	mg/kg	<1.25	<1.01	<1.09	<1.05	<0.844	<0.911	<0.938	<1.07	<1.09	<1.19	<1.08	<1.01	<0.981	<0.909	<0.926	--	<0.976	<0.966	<1.19	<1.12	<1.05	<1.09	<1.05	<0.913
2-Chloronaphthalene	mg/kg	<1.25	<1.01	<1.09	<1.05	<0.844	<0.911	<0.938	<1.07	<1.09	<1.19	<1.08	<1.01	<0.981	<0.909	<0.926	--	<0.976	<0.966	<1.19	<1.12	<1.05	<1.09	<1.05	<0.913
2-Chlorophenol	mg/kg	<1.25	<1.01	<1.09	<1.05	<0.844	<0.911	<0.938	<1.07	<1.09	<1.19	<1.08	<1.01	<0.981	<0.909	<0.926	--	<0.976	<0.966	<1.19	<1.12	<1.05	<1.09	<1.05	<0.913
2-Methylnaphthalene	mg/kg	<1.25	<1.01	<1.09	<1.05	<0.844	<0.911	<0.938	<1.07	<1.09	<1.19	<1.08	<1.01	1.2	<0.909	<0.926	--	<0.976	<0.966	<1.19	<1.12	<1.05	<1.09	<1.05	<0.913
2-Methylphenol	mg/kg	<1.25	<1.01	<1.09	<1.05	<0.844	<0.911	<0.938	<1.07	<1.09	<1.19	<1.08	<1.01	<0.981	<0.909	<0.926	--	<0.976	<0.966	<1.19	<1.12	<1.05	<1.09	<1.05	<0.913
2-Nitrophenol	mg/kg	<1.25	<1.01	<1.09	<1.05	<0.844	<0.911	<0.938	<1.07	<1.09	<1.19	<1.08	<1.01	<0.981	<0.909	<0.926	--	<0.976	<0.966	<1.19	<1.12	<1.05	<1.09	<1.05	<0.913
3,3´-Dichlorobenzidine	mg/kg	<2.50	<2.03	<2.18	<2.09	<1.69	<1.83	<1.88	<2.14	<2.18	<2.38	<2.16	<2.03	<1.97	<1.82	<1.86	--	<1.96	<1.94	<2.39	<2.24	<2.10	<2.18	<2.10	<1.83
3+4-Methylphenol	mg/kg	<2.50	<2.03	<2.18	<2.09	<1.69	<1.83	<1.88	<2.14	<2.18	<2.38	<2.16	<2.03	<1.97	<1.82	<1.86	--	<1.96	<1.94	<2.39	<2.24	<2.10	<2.18	<2.10	<1.83
4-Bromophenyl-phenylether	mg/kg	<1.25	<1.01	<1.09	<1.05	<0.844	<0.911	<0.938	<1.07	<1.09	<1.19	<1.08	<1.01	<0.981	<0.909	<0.926	--	<0.976	<0.966	<1.19	<1.12	<1.05	<1.09	<1.05	<0.913
4-Chloroaniline	mg/kg	<2.50	<2.03	<2.18	<2.09	<1.69	<1.83	<1.88	<2.14	<2.18	<2.38	<2.16	<2.03	<1.97	<1.82	<1.86	--	<1.96	<1.94	<2.39	<2.24	<2.10	<2.18	<2.10	<1.83
4-Nitrophenol	mg/kg	<6.25	<5.07	<5.47	<5.24	<4.23	<4.57	<4.70	<5.36	<5.45	<5.97	<5.40	<5.08	<4.92	<4.56	<4.65	--	<4.90	<4.85	<5.99	<5.61	<5.26	<5.46	<5.25	<4.58
Acenaphthene	mg/kg	<1.25	<1.01	<1.09	<1.05	<0.844	<0.911	<0.938	<1.07	<1.09	<1.19	<1.08	<1.01	1.56	<0.909	<0.926	--	<0.976	<0.966	<1.19	<1.12	<1.05	<1.09	<1.05	<0.913
Acenaphthylene	mg/kg	<1.25	<1.01	<1.09	<1.05	<0.844	<0.911	<0.938	<1.07	<1.09	<1.19	<1.08	<1.01	<0.981	<0.909	<0.926	--	<0.976	<0.966	<1.19	<1.12	<1.05	<1.09	<1.05	<0.913
Acetophenone	mg/kg	<2.50	<2.03	<2.18	<2.09	<1.69	<1.83	<1.88	<2.14	<2.18	<2.38	<2.16	<2.03	<1.97	<1.82	<1.86	--	<1.96	<1.94	<2.39	<2.24	<2.10	<2.18	<2.10	<1.83
Aniline	mg/kg	<6.25	<5.07	<5.47	<5.24	<4.23	<4.57	<4.70	<5.36	<5.45	<5.97	<5.40	<5.08	<4.92	<4.56	<4.65	--	<4.90	<4.85	<5.99	<5.61	<5.26	<5.46	<5.25	<4.58
Anthracene	mg/kg	<1.25	<1.01	<1.09	<1.05	<0.844	<0.911	<0.938	<1.07	<1.09	<1.19	<1.08	<1.01	<0.981	<0.909	<0.926	--	<0.976	<0.966	<1.19	<1.12	<1.05	<1.09	<1.05	<0.913
Azobenzene	mg/kg	<1.25	<1.01	<1.09	<1.05	<0.844	<0.911	<0.938	<1.07	<1.09	<1.19	<1.08	<1.01	<0.981	<0.909	<0.926	--	<0.976	<0.966	<1.19	<1.12	<1.05	<1.09	<1.05	<0.913
Benzo(a)anthracene	mg/kg	<1.25	<1.01	<1.09	<1.05	<0.844	<0.911	<0.938	<1.07	<1.09	<1.19	<1.08	<1.01	<0.981	<0.909	<0.926	--	<0.976	<0.966	<1.19	<1.12	<1.05	<1.09	<1.05	<0.913
Benzo(a)pyrene	mg/kg	<0.625	<0.507	<0.547	<0.524	<0.423	<0.457	<0.470	0.625	<0.545	<0.597	<0.540	<0.508	<0.492	<0.456	<0.465	--	<0.490	<0.485	<0.599	<0.561	<0.526	<0.546	<0.525	<0.458
Benzo(b)fluoranthene	mg/kg	<1.25	<1.01	<1.09	<1.05	<0.844	<0.911	<0.938	1.46	<1.09	<1.19	<1.08	<1.01	<0.981	<0.909	<0.926	--	<0.976	<0.966	<1.19	<1.12	<1.05	<1.09	<1.05	<0.913
Benzo(g,h,i)perylene	mg/kg	<1.25	<1.01	<1.09	<1.05	<0.844	<0.911	<0.938	1.1	<1.09	<1.19	<1.08	<1.01	<0.981	<0.909	<0.926	--	<0.976	<0.966	<1.19	<1.12	<1.05	<1.09	<1.05	<0.913
Benzo(k)fluoranthene	mg/kg	<1.25	<1.01	<1.09	<1.05	<0.844	<0.911	<0.938	<1.07	<1.09	<1.19	<1.08	<1.01	<0.981	<0.909	<0.926	--	<0.976	<0.966	<1.19	<1.12	<1.05	<1.09	<1.05	<0.913
bis(2-Chloroethoxy)methane	mg/kg	<1.25	<1.01	<1.09	<1.05	<0.844	<0.911	<0.938	<1.07	<1.09	<1.19	<1.08	<1.01	<0.981	<0.909	<0.926	--	<0.976	<0.966	<1.19	<1.12	<1.05	<1.09	<1.05	<0.913
bis(2-Chloroethyl)ether	mg/kg	<0.625	<0.507	<0.547	<0.524	<0.423	<0.457	<0.470	<0.536	<0.545	<0.597	<0.540	<0.508	<0.492	<0.456	<0.465	--	<0.490	<0.485	<0.599	<0.561	<0.526	<0.546	<0.525	<0.458
bis(2-chloroisopropyl)Ether	mg/kg	<0.625	<0.507	<0.547	<0.524	<0.423	<0.457	<0.470	<0.536	<0.545	<0.597	<0.540	<0.508	<0.492	<0.456	<0.465	--	<0.490	<0.485	<0.599	<0.561	<0.526	<0.546	<0.525	<0.458
bis(2-Ethylhexyl)phthalate	mg/kg	<1.25	<1.01	<1.09	<1.05	<0.844	11.2	<0.938	<1.07	<1.09	<1.19	<1.08	<1.01	<0.981	<0.909	0.997	--	<0.976	<0.966	<1.19	<1.12	<1.05	<1.09	<1.05	<0.913
Butylbenzylphthalate	mg/kg	<1.25	<1.01	<1.09	<1.05	<0.844	<0.911	<0.938	<1.07	<1.09	<1.19	<1.08	<1.01	<0.981	<0.909	<0.926	--	<0.976	<0.966	<1.19	<1.12	<1.05	<1.09	<1.05	<0.913
Chrysene	mg/kg	<0.625	<0.507	<0.547	<0.524	<0.423	<0.457	<0.470	0.783	<0.545	<0.597	<0.540	<0.508	<0.492	<0.456	<0.465	--	<0.490	<0.485	<0.599	<0.561	<0.526	<0.546	<0.525	<0.458
Dibenzo(a,h)Anthracene	mg/kg	<0.625	<0.507	<0.547	<0.524	<0.423	<0.457	<0.470	<0.536	<0.545	<0.597	<0.540	<0.508	<0.492	<0.456	<0.465	--	<0.490	<0.485	<0.599	<0.561	<0.526	<0.546	<0.525	<0.458
Dibenzofuran	mg/kg	<1.25	<1.01	<1.09	<1.05	<0.844	<0.911	<0.938	<1.07	<1.09	<1.19	<1.08	<1.01	1.32	<0.909	<0.926	--	<0.976	<0.966	<1.19	<1.12	<1.05	<1.09	<1.05	<0.913
Diethylphthalate	mg/kg	<1.25	<1.01	<1.09	<1.05	<0.844	<0.911	<0.938	<1.07	<1.09	<1.19	<1.08	<1.01	<0.981	<0.909	<0.926	--	<0.976	<0.966	<1.19	<1.12	<1.05	<1.09	<1.05	<0.913
Dimethylphthalate	mg/kg	<1.25	<1.01	<1.09	<1.05	<0.844	<0.911	<0.938	<1.07	<1.09	<1.19	<1.08	<1.01	<0.981	<0.909	<0.926	--	<0.976	<0.966	<1.19	<1.12	<1.05	<1.09	<1.05	<0.913
Di-n-butylphthalate	mg/kg	<1.25	<1.01	<1.09	<1.05	<0.844	<0.911	<0.938	<1.07	<1.09	<1.19	<1.08	<1.01	<0.981	<0.909	<0.926	--	<0.976	<0.966	<1.19	<1.12	<1.05	<1.09	<1.05	<0.913
Di-n-octylphthalate	mg/kg	<1.25	<1.01	<1.09	<1.05	<0.844	<0.911	<0.938	<1.07	<1.09	<1.19	<1.08	<1.01	<0.981	<0.909	<0.926	--	<0.976	<0.966	<1.19	<1.12	<1.05	<1.09	<1.05	<0.913
Fluoranthene	mg/kg	<1.25	<1.01	<1.09	<1.05	<0.844	<0.911	<0.938	<1.07	<1.09	<1.19	<1.08	<1.01	1.35	<0.909	<0.926	--	<0.976	<0.966	<1.19	<1.12	<1.05	<1.09	<1.05	<0.913
Fluorene	mg/kg	<1.25	<1.01	<1.09	<1.05	<0.844	<0.911	<0.938	<1.07	<1.09	<1.19	<1.08	<1.01	1.21	<0.909	<0.926	--	<0.976	<0.966	<1.19	<1.12	<1.05	<1.09	<1.05	<0.913
Hexachlorobenzene	mg/kg	<0.625	<0.507	<0.547	<0.524	<0.423	<0.457	<0.470	<0.536	<0.545	<0.597	<0.540	<0.508	<0.492	<0.456	<0.465	--	<0.490	<0.485	<0.599	<0.561	<0.526	<0.546	<0.525	<0.458
Hexachlorobutadiene	mg/kg	<1.25	<1.01	<1.09	<1.05	<0.844	<0.911	<0.938	<1.07	<1.09	<1.19	<1.08	<1.01	<0.981	<0.909	<0.926	--	<0.976	<0.966	<1.19	<1.12	<1.05	<1.09	<1.05	<0.913
Hexachloroethane	mg/kg	<1.25	<1.01	<1.09	<1.05	<0.844	<0.911	<0.938	<1.07	<1.09	<1.19	<1.08	<1.01	<0.981	<0.909	<0.926	--	<0.976	<0.966	<1.19	<1.12	<1.05	<1.09	<1.05	<0.913
Indeno(1,2,3-cd)Pyrene	mg/kg	<1.25	<1.01	<1.09	<1.05	<0.844	<0.911	<0.938	<1.07	<1.09	<1.19	<1.08	<1.01	<0.981	<0.909	<0.926	--	<0.976	<0.966	<1.19	<1.12	<1.05	<1.09	<1.05	<0.913
Isophorone	mg/kg	<1.25	<1.01	<1.09	<1.05	<0.844	<0.911	<0.938	<1.07	<1.09	<1.19	<1.08	<1.01	<0.981	<0.909	<0.926	--	<0.976	<0.966	<1.19	<1.12	<1.05	<1.09	<1.05	<0.913
Naphthalene	mg/kg	<1.25	<1.01	<1.09	<1.05	<0.844	<0.911	<0.938	3.23	<1.09	<1.19	<1.08	<1.01	3.62	<0.909	<0.926	--	<0.976	<0.966	<1.19	<1.12	<1.05	<1.09	<1.05	1.13
Nitrobenzene	mg/kg	<1.25	<1.01	<1.09	<1.05	<0.844	<0.911	<0.938	<1.07	<1.09	<1.19	<1.08	<1.01	<0.981	<0.909	<0.926	--	<0.976	<0.966	<1.19	<1.12	<1.05	<1.09	<1.05	<0.913
N-Nitrosodimethylamine	mg/kg	<1.25	<1.01	<1.09	<1.05	<0.844	<0.911	<0.938	<1.07	<1.09	<1.19	<1.08	<1.01	<0.981	<0.909	<0.926	--	<0.976	<0.966	<1.19	<1.12	<1.05	<1.09	<1.05	<0.913
Pentachlorophenol	mg/kg	<6.25	<5.07	<5.47	<5.24	<4.23	<4.57	<4.70	<5.36	<5.45	<5.97	<5.40	<5.08	<4.92	<4.56	<4.65	--	<4.90	<4.85	<5.99	<5.61	<5.26	<5.46	<5.25	<4.58
Phenanthrene	mg/kg	<1.25	<1.01	<1.09	<1.05	<0.844	<0.911	<0.938	1.12	<1.09	<1.19	<1.08	<1.01	3.58	<0.909	<0.926	--	<0.976	<0.966	<1.19	<1.12	<1.05	<1.09	<1.05	<0.913
Phenol	mg/kg	<1.25	<1.01	<1.09	<1.05	<0.844	<0.911	<0.938	<1.07	<1.09	<1.19	<1.08	<1.01	<0.981	<0.909	<0.926	--	<0.976	<0.966	<1.19	<1.12	<1.05	<1.09	<1.05	<0.913
Pyrene	mg/kg	<1.25	<1.01	<1.09	<1.05	<0.844	<0.911	<0.938	<1.07	<1.09	<1.19	<1.08	<1.01	<0.981	<0.909	<0.926	--	<0.976	<0.966	<1.19	<1.12	<1.05	<1.09	<1.05	<0.913
Total SVOCs	mg/kg	ND	ND	ND	ND	ND	11.2	ND	8.318	ND	ND	ND	ND	13.84	ND	0.997	--	ND	ND	ND	ND	ND	ND	ND	1.13
Classic Chemistry																									
Corrosivity (pH)	S.U.	3.8	7.22	4.06	6.9	8.76	7.56	6.14	6.18	4.43	4.64	6.62	7.14	7.58	8.45	7.96	--	6.77	10.2	7.15	6.7	7.68	7.55	7.21	7.45
Conductivity	umhos/cm	3610	3160	4330	8850	250	3500	1910	2020	2450	8600	2280	2810	4180	734	1190	--	1300	2250	1690	1780	1920	1650	1550	4120
Flashpoint	°F	--	--	--	--	>200	>200	>200	>200	--	--	--	--	--	>200	>200	--	>200	>200	--	--	--	--	--	--
Reactive Cyanide	mg/kg	--	--	--	--	<2.0	<2.0	<2.0	<2.0	--	--	--	--	--	<2.0	<2.0	--	<2.0	<2.0	--	--	--	--	--	--
Reactive Sulfide	mg/kg	--	--	--	--	<2.0	<2.0	<2.0	<2.0	--	--	--	--	--	<2.0	<2.0	--	<2.0	<2.0	--	--	--	--	--	--

Table 1
Soil Precharacterization Data

Wynn Resort Casino
Everett, Massachusetts

Analyte	Precharacterization Cell	C22	C22	C22	C22	C22	C22	C22	C22	C22	C22	C23	C23	C23	C23	C23	C23	C23	C23	C24	C24	C24	C24	C24	C24
	Sample ID	C22S01S02A	C22S02B	C22S02BS04A	C22S04BS05	C22S06	C22S07	C22S08	C22S09	C22S10	C22S11	C23S01S02A	C23S02BS04A	C23S04BS05	C23S06	C23S07	C23S08	C23S09	C23S10	C23S11S12	C24S01S02A	C24S02BS04A	C24S04BS05A	C24S05BS06	C24S07S08
	Laboratory Work Order	1412222	1412222	1412247	1412247	1412247	1412247	1412284	1412247	1412284	1412284	1412222	1412222	1412222	1412222	1412222	1412222	1412222	1412222	1412222	1412409	1412409	1412409	1412409	1412409
	Soil Distinction	Fill	See C22S02BS04A	Fill	Fill	Natural Organics	Natural Organics	Natural Organics	Natural Organics	Natural Organics	Natural Organics	Fill	Fill	Fill	Natural Organics	Natural Organics	Natural Organics	Natural Organics	Natural Organics	Natural Organics	Fill	Fill	Fill	Fill	Fill
	Soil Type																								
	Depth Interval (ft.)	0.2 - 3.3	3.3 - 4	3.3 - 6.6	6.6 - 10	13 - 15	19 - 21	24 - 26	29 - 31	34 - 36	39 - 41	0 - 3.3	3.3 - 6.6	6.6 - 10	10 - 12	14 - 16	19 - 21	24 - 26	29 - 32	34 - 38	0 - 3.3	3.3 - 6.6	6.6 - 9	9 - 12	14 - 19
	Sampling Date	12/10/2014	12/10/2014	12/11/2014	12/11/2014	12/11/2014	12/11/2014	12/12/2014	12/11/2014	12/12/2014	12/12/2014	12/10/2014	12/10/2014	12/10/2014	12/10/2014	12/10/2014	12/10/2014	12/10/2014	12/10/2014	12/10/2014	12/18/2014	12/18/2014	12/18/2014	12/18/2014	12/18/2014
Preliminary Disposal Facility Category		MCP Regulated Type A	See C22S02BS04A	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	Uncontaminated	MCP Regulated Type A	Uncontaminated	MCP Regulated Type B-1	MCP Regulated Type A	Hazardous Material Type B	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Uncontaminated	Uncontaminated	Hazardous Material Type B	Hazardous Material Type B	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A
RCRA 8 Metals	**Units**																								
Arsenic	mg/kg	9.14	--	19.1	57.1	85.6	14.3	4.9	4.66	3.43	4.68	6.42	376	142	82.4	7.89	7.45	4.72	4.08	4.25	88.8	95	87.4	161	9.45
Barium	mg/kg	25.8	--	78.5	49.6	45.6	28.4	12.9	11.8	11.9	14.2	16	158	184	36.1	20.4	21.5	15.1	12.1	12.7	116	223	40.5	30.3	28.2
Cadmium	mg/kg	<0.57	--	0.78	1.16	1.35	<0.55	<0.54	<0.52	<0.61	<0.43	<0.54	6.05	2.07	3.49	<0.66	<0.71	<0.43	<0.63	<0.58	1.21	1.79	1.35	2.19	<0.70
Chromium	mg/kg	19.6	--	52.2	11.4	7.69	28	13	11.7	12.1	12.3	12.8	22.9	11	35.8	20.4	20.7	14.6	12.5	11.9	25.1	62.5	9.54	22.7	26.7
Lead	mg/kg	22.7	--	262	1700	854	12.4	<5.42	<5.16	<6.11	<4.31	60	14300	1140	189	9.78	<7.14	4.9	<6.27	<5.82	3380	2230	278	73.2	8.23
Selenium	mg/kg	<2.84	--	22.1	<10.4	<11.0	<10.9	<10.8	<10.3	<12.2	<8.62	2.85	441	31.8	5.02	<3.28	<3.57	<2.16	<3.14	<2.91	13.5	60	<8.46	33.9	<14.0
Silver	mg/kg	<0.57	--	1.58	1.4	1.59	<0.55	<0.54	<0.52	<0.61	<0.43	<0.54	17.4	2.21	1.26	<0.66	<0.71	<0.43	<0.63	<0.58	4.73	2.41	0.55	<0.64	<0.70
Mercury	mg/kg	<0.032	--	1.62	33.4	4.17	<0.036	<0.038	<0.037	<0.040	<0.028	1.73	43	2.7	1	<0.046	<0.042	<0.033	<0.044	<0.038	44.9	25.2	6.48	0.439	<0.047
Metals by Toxicity Characteristic Leaching Procedure (TCLP)																									
Arsenic	mg/L	--	--	--	--	--	--	--	--	--	--	--	<0.050	<0.050	--	--	--	--	--	--	--	--	--	0.165	--
Cadmium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		--	--	--
Chromium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead	mg/L	--	--	<0.050	0.896	1.6	--	--	--	--	--	--	13.3	0.129	0.322	--	--	--	--	--	30	5.04	0.524	--	--
Selenium	mg/L	--	--	<0.050	--	--	--	--	--	--	--	--	<0.050	<0.050	--	--	--	--	--	--	--	<0.050	--	<0.050	--
Mercury	mg/L	--	--	--	0.00411	<0.00050	--	--	--	--	--	--	<0.00050	--	--	--	--	--	--	--	<0.00050	<0.00050	<0.00050	--	--
Herbicides																									
2,4,5-T	mg/kg	<0.056	--	<0.061	<0.11	--	--	<0.062	--	--	--	<0.10	<0.055	<0.073	<0.075	--	--	--	--	--	<0.045	<0.048	<0.048	--	--
2,4-D	mg/kg	<0.056	--	<0.061	<0.11	--	--	<0.062	--	--	--	<0.10	<0.055	<0.073	<0.075	--	--	--	--	--	<0.23	<0.24	<0.24	--	--
2,4-DB	mg/kg	<0.056	--	<0.061	<0.11	--	--	<0.062	--	--	--	<0.10	<0.055	<0.073	<0.075	--	--	--	--	--	<0.017	<0.018	<0.018	--	--
Dalapon	mg/kg	<0.68	--	<0.73	<1.3	--	--	<0.75	--	--	--	<1.2	<0.66	<0.88	<0.90	--	--	--	--	--	<1.4	<1.4	<1.4	--	--
Dicamba	mg/kg	<0.056	--	<0.061	<0.11	--	--	<0.062	--	--	--	<0.10	<0.055	<0.073	<0.075	--	--	--	--	--	<0.068	<0.072	<0.072	--	--
Dichlorprop	mg/kg	<0.056	--	<0.061	<0.11	--	--	<0.062	--	--	--	<0.10	<0.055	<0.073	<0.075	--	--	--	--	--	<0.15	<0.16	<0.16	--	--
Dinoseb	mg/kg	<0.34	--	<0.36	<0.66	--	--	<0.37	--	--	--	<0.61	<0.33	<0.44	<0.45	--	--	--	--	--	<0.23	<0.24	<0.24	--	--
MCPA	mg/kg	<14	--	<15	<26	--	--	<15	--	--	--	<24	<13	<18	<18	--	--	--	--	--	<56	<60	<60	--	--
MCPP	mg/kg	<14	--	<15	<26	--	--	<15	--	--	--	<24	<13	<18	<18	--	--	--	--	--	<56	<60	<60	--	--
Silvex (2,4,5-TP)	mg/kg	<0.056	--	<0.061	<0.11	--	--	<0.062	--	--	--	<0.10	<0.055	<0.073	<0.075	--	--	--	--	--	<0.045	<0.048	<0.048	--	--
Pesticides																									
4,4'-DDD	mg/kg	<0.0021	--	<0.0021	<0.0020	--	--	<0.0022	--	--	--	<0.0035	<0.0021	<0.0026	<0.0028	--	--	--	--	--	<0.0019	<0.0021	<0.0021	--	--
4,4'-DDE	mg/kg	<0.0021	--	<0.0021	<0.0020	--	--	<0.0022	--	--	--	<0.0035	<0.0021	<0.0026	<0.0028	--	--	--	--	--	<0.0019	<0.0021	<0.0021	--	--
4,4'-DDT	mg/kg	<0.0021	--	<0.0021	<0.0020	--	--	<0.0022	--	--	--	<0.0035	<0.0021	<0.0026	<0.0028	--	--	--	--	--	<0.0019	<0.0021	<0.0021	--	--
Aldrin	mg/kg	<0.0021	--	<0.0021	<0.0020	--	--	<0.0022	--	--	--	<0.0035	<0.0021	<0.0026	<0.0028	--	--	--	--	--	<0.0019	<0.0021	<0.0021	--	--
alpha-BHC	mg/kg	<0.0021	--	<0.0021	<0.0020	--	--	<0.0022	--	--	--	<0.0035	<0.0021	<0.0026	<0.0028	--	--	--	--	--	<0.0019	<0.0021	<0.0021	--	--
beta-BHC	mg/kg	<0.0021	--	<0.0021	<0.0020	--	--	<0.0022	--	--	--	<0.0035	<0.0021	<0.0026	<0.0028	--	--	--	--	--	<0.0019	<0.0021	<0.0021	--	--
Chlordane (technical)	mg/kg	<0.021	--	<0.021	<0.020	--	--	<0.022	--	--	--	<0.035	<0.021	<0.026	<0.028	--	--	--	--	--	<0.019	<0.021	<0.021	--	--
delta-BHC	mg/kg	<0.0021	--	<0.0021	<0.0020	--	--	<0.0022	--	--	--	<0.0035	<0.0021	<0.0026	<0.0028	--	--	--	--	--	<0.0019	<0.0021	<0.0021	--	--
Dieldrin	mg/kg	<0.0021	--	<0.0021	<0.0020	--	--	<0.0022	--	--	--	<0.0035	<0.0021	<0.0026	<0.0028	--	--	--	--	--	<0.0019	<0.0021	<0.0021	--	--
Endosulfan I	mg/kg	<0.0021	--	<0.0021	<0.0020	--	--	<0.0022	--	--	--	<0.0035	<0.0021	<0.0026	<0.0028	--	--	--	--	--	<0.0019	<0.0021	<0.0021	--	--
Endosulfan II	mg/kg	<0.0021	--	<0.0021	<0.0020	--	--	<0.0022	--	--	--	<0.0035	<0.0021	<0.0026	<0.0028	--	--	--	--	--	<0.0019	<0.0021	<0.0021	--	--
Endosulfan sulfate	mg/kg	<0.0021	--	<0.0021	<0.0020	--	--	<0.0022	--	--	--	<0.0035	<0.0021	<0.0026	<0.0028	--	--	--	--	--	<0.0019	<0.0021	<0.0021	--	--
Endrin	mg/kg	<0.0021	--	<0.0021	<0.0020	--	--	<0.0022	--	--	--	<0.0035	<0.0021	<0.0026	<0.0028	--	--	--	--	--	<0.0019	<0.0021	<0.0021	--	--
Endrin ketone	mg/kg	<0.0021	--	<0.0021	<0.0020	--	--	<0.0022	--	--	--	<0.0035	<0.0021	<0.0026	<0.0028	--	--	--	--	--	<0.0019	<0.0021	<0.0021	--	--
gamma-BHC (Lindane)	mg/kg	<0.0021	--	<0.0021	<0.0020	--	--	<0.0022	--	--	--	<0.0035	<0.0021	<0.0026	<0.0028	--	--	--	--	--	<0.0019	<0.0021	<0.0021	--	--
Heptachlor	mg/kg	<0.0021	--	<0.0021	<0.0020	--	--	<0.0022	--	--	--	<0.0035	<0.0021	<0.0026	<0.0028	--	--	--	--	--	<0.0019	<0.0021	<0.0021	--	--
Heptachlor epoxide	mg/kg	<0.0021	--	<0.0021	<0.0020	--	--	<0.0022	--	--	--	<0.0035	<0.0021	<0.0026	<0.0028	--	--	--	--	--	<0.0019	<0.0021	<0.0021	--	--
Hexachlorobenzene	mg/kg	<0.0021	--	<0.0021	<0.0020	--	--	<0.0022	--	--	--	<0.0035	0.0025	0.011	<0.0028	--	--	--	--	--	<0.0019	<0.0021	<0.0021	--	--
Methoxychlor	mg/kg	<0.0021	--	<0.0021	<0.0020	--	--	<0.0022	--	--	--	<0.0035	<0.0021	<0.0026	<0.0028	--	--	--	--	--	<0.0019	<0.0021	<0.0021	--	--
Polychlorinated Biphenyls																									
Aroclor 1016	mg/kg	<0.135	--	<0.161	<0.135	<0.159	<0.172	<0.152	<0.154	<0.159	<0.158	<0.135	<0.156	<0.182	<0.221	<0.194	<0.182	<0.161	<0.164	<0.155	<0.140	<0.146	<0.137	<0.156	<0.169
Aroclor 1221	mg/kg	<0.135	--	<0.161	<0.135	<0.159	<0.172	<0.152	<0.154	<0.159	<0.158	<0.135	<0.156	<0.182	<0.221	<0.194	<0.182	<0.161	<0.164	<0.155	<0.140	<0.146	<0.137	<0.156	<0.169
Aroclor 1232	mg/kg	<0.135	--	<0.161	<0.135	<0.159	<0.172	<0.152	<0.154	<0.159	<0.158	<0.135	<0.156	<0.182	<0.221	<0.194	<0.182	<0.161	<0.164	<0.155	<0.140	<0.146	<0.137	<0.156	<0.169
Aroclor 1242	mg/kg	<0.135	--	<0.161	<0.135	<0.159	<0.172	<0.152	<0.154	<0.159	<0.158	<0.135	<0.156	<0.182	<0.221	<0.194	<0.182	<0.161	<0.164	<0.155	<0.140	<0.146	<0.137	<0.156	<0.169
Aroclor 1248	mg/kg	<0.135	--	<0.161	<0.135	<0.159	<0.172	<0.152	<0.154	<0.159	<0.158	<0.135	<0.156	<0.182	<0.221	<0.194	<0.182	<0.161	<0.164	<0.155	<0.140	<0.146	<0.137	<0.156	<0.169
Aroclor 1254	mg/kg	<0.135	--	2.84	13.7	0.317	<0.172	<0.152	<0.154	<0.159	<0.158	<0.135	<0.156	<0.182	<0.221	<0.194	<0.182	<0.161	<0.164	<0.155	0.312	5.9	0.842	<0.156	<0.169
Aroclor 1260	mg/kg	<0.135	--	2.36	2.4	<0.159	<0.172	<0.152	<0.154	<0.159	<0.158	<0.135	<0.156	<0.182	<0.221	<0.194	<0.182	<0.161	<0.164	<0.155	<0.140	<0.146	0.518	<0.156	<0.169
Aroclor 1262	mg/kg	<0.135	--	<0.161	<0.135	<0.159	<0.172	<0.152	<0.154	<0.159	<0.158	<0.135	0.441	<0.182	<0.221	<0.194	<0.182	<0.161	<0.164	<0.155	<0.140	<0.146	<0.137	<0.156	<0.169
Aroclor 1268	mg/kg	<0.135	--	<0.161	<0.135	<0.159	<0.172	<0.152	<0.154	<0.159	<0.158	<0.135	<0.156	<0.182	<0.221	<0.194	<0.182	<0.161	<0.164	<0.155	<0.140	<0.146	<0.137	<0.156	<0.169
Total PCBs	mg/kg	ND	--	5.2	16.1	0.317	ND	ND	ND	ND	ND	ND	0.441	ND	ND	ND	ND	ND	ND	ND	0.312	5.9	1.36	ND	ND
Total Petroleum Hydrocarbons	mg/kg	136	--	211	684	165	259	<47.3	57.1	<45.3	<46.8	<38.9	150	153	377	72.1	<57.4	<50.6	<51.1	<50.4	341	682	120	<58.9	<52.5
Volatile Organic Compounds (VOCs)																									
1,1,1,2-Tetrachloroethane	mg/kg	--	--	--	--	--	<0.150	--	--	--	--	--	--	<0.169	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	mg/kg	--	--	--	--	--	<0.0748	--	--	--	--	--	--	<0.0844	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg	--	--	--	--	--	<0.0748	--	--	--	--	--	--	<0.0844	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	mg/kg	--	--	--	--	--	<0.0748	--	--	--	--	--	--	<0.0844	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	mg/kg	--	--	--	--	--	<0.0748	--	--	--	--	--	--	<0.0844	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	mg/kg	--	--	--	--	--	<0.0748	--	--	--	--	--	--	<0.0844	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloropropene	mg/kg	--	--	--	--	--	<0.0748	--	--	--	--	--	--	<0.0844	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	mg/kg	--	--	--	--	--	<0.0748	--	--	--	--	--	--	<0.0844	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	mg/kg	--	--	--	--	--	<0.0748	--	--	--	--	--	--	<0.0844	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	mg/kg	--	--	--	--	--	<0.0748	--	--	--	--	--	--	<0.0844	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	mg/kg	--	--	--	--	--	<0.0748	--	--	--	--	--	--	<0.0844	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-Chloropropane	mg/kg	--	--	--	--	--	<0.299	--	--	--	--	--	--	<0.338	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	mg/kg	--	--	--	--	--	<0.0748	--	--	--	--	--	--	<0.0844	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	mg/kg	--	--	--	--	--	<0.0748	--	--	--	--	--	--	<0.0844	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	mg/kg	--	--	--	--	--	<0.0748	--	--	--	--	--	--	<0.0844	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	mg/kg	--	--	--	--	--	<0.0748	--	--	--	--	--	--	<0.0844	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	mg/kg	--	--	--	--	--	<0.0748	--	--	--	--	--	--	<0.0844	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	mg/kg	--	--	--	--	--	<0.0748	--	--	--	--	--	--	<0.0844	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichloropropane	mg/kg	--	--	--	--	--	<0.0748	--	--	--	--	--	--	<0.0844	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg	--	--	--	--	--	<0.0748	--	--	--	--	--	--	<0.0844	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane - Screen	mg/kg	--	--	--	--	--	<7.48	--	--	--	--	--	--	<8.44	--	--	--	--	--	--	--	--	--	--	--
2,2-Dichloropropane	mg/kg	--	--	--	--	--	<0.150	--	--	--	--	--	--	<0.169	--	--	--	--	--	--	--	--	--	--	--
2-Butanone	mg/kg	--	--	--	--	--	<0.299	--	--	--	--	--	--	<0.338	--	--	--	--	--	--	--	--	--	--	--
2-Chlorotoluene	mg/kg	--	--	--	--	--	<0.0748	--	--	--	--	--	--	<0.0844	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	mg/kg	--	--	--	--	--	<0.299	--	--	--	--	--	--	<0.338	--	--	--	--	--	--	--	--	--	--	--
4-Chlorotoluene	mg/kg	--	--	--	--	--	<0.0748	--	--	--	--	--	--	<0.0844	--	--	--	--	--	--	--	--	--	--	--
4-Isopropyltoluene	mg/kg	--	--	--	--	--	3.49	--	--	--	--	--	--	<0.0844	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-Pentanone	mg/kg	--	--	--	--	--	<0.299	--	--	--	--	--	--	<0.338	--	--	--	--	--	--	--	--	--	--	--
Acetone	mg/kg	--	--	--	--	--	<0.299	--	--	--	--	--	--	<0.338	--	--	--	--	--	--	--	--	--	--	--
Benzene	mg/kg	--	--	--	--	--	<0.0748	--	--	--	--	--	--	<0.0844	--	--	--	--	--	--	--	--	--	--	--
Bromobenzene	mg/kg	--	--	--	--	--	<0.0748	--	--	--	--	--	--	<0.0844	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	mg/kg	--	--	--	--	--	<0.0748	--	--	--	--	--	--	<0.0844	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	mg/kg	--	--	--	--	--	<0.0748	--	--	--	--	--	--	<0.0844	--	--	--	--	--	--	--	--	--	--	--
Bromoform	mg/kg	--	--	--	--	--	<0.0748	--	--	--	--	--	--	<0.0844	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	mg/kg	--	--	--	--	--	<0.150	--	--	--	--	--	--	<0.169	--	--	--	--	--	--	--	--	--	--	--
Carbon Disulfide	mg/kg	--	--	--	--	--	<0.0748	--	--	--	--	--	--	<0.0844	--	--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	mg/kg	--	--	--	--	--	<0.0748	--	--	--	--	--	--	<0.0844	--	--	--	--	--	--	--	--	--	--	--

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	C22 C22S01S02A 1412222 Fill 0.2 - 3.3 12/10/2014	C22 C22S02B 1412222 See C22S02BS04A 3.3 - 4 12/10/2014	C22 C22S02BS04A 1412247 Fill 3.3 - 6.6 12/11/2014	C22 C22S04BS05 1412247 Fill 6.6 - 10 12/11/2014	C22 C22S06 1412247 Natural Organics 13 - 15 12/11/2014	C22 C22S07 1412247 Natural Organics 19 - 21 12/11/2014	C22 C22S08 1412284 Natural Organics 24 - 26 12/12/2014	C22 C22S09 1412247 Natural Organics 29 - 31 12/11/2014	C22 C22S10 1412284 Natural Organics 34 - 36 12/12/2014	C22 C22S11 1412284 Natural Organics 39 - 41 12/12/2014	C23 C23S01S02A 1412222 Fill 0 - 3.3 12/10/2014	C23 C23S02BS04A 1412222 Fill 3.3 - 6.6 12/10/2014	C23 C23S04BS05 1412222 Fill 6.6 - 10 12/10/2014	C23 C23S06 1412222 Natural Organics 10 - 12 12/10/2014	C23 C23S07 1412222 Natural Organics 14 - 16 12/10/2014	C23 C23S08 1412222 Natural Organics 19 - 21 12/10/2014	C23 C23S09 1412222 Natural Organics 24 - 26 12/10/2014	C23 C23S10 1412222 Natural Organics 29 - 32 12/10/2014	C23 C23S11S12 1412222 Natural Organics 34 - 38 12/10/2014	C24 C24S01S02A 1412409 Fill 0 - 3.3 12/18/2014	C24 C24S02BS04A 1412409 Fill 3.3 - 6.6 12/18/2014	C24 C24S04BS05A 1412409 Fill 6.6 - 9 12/18/2014	C24 C24S05BS06 1412409 Fill 9 - 12 12/18/2014	C24 C24S07S08 1412409 Fill 14 - 19 12/18/2014
Preliminary Disposal Facility Category		MCP Regulated Type A	See C22S02BS04A	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	Uncontaminated	MCP Regulated Type A	Uncontaminated	MCP Regulated Type B-1	MCP Regulated Type A	Hazardous Material Type B	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Uncontaminated	Uncontaminated	Hazardous Material Type B	Hazardous Material Type B	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A
Chlorobenzene	mg/kg	--	--	--	--	--	<0.0748	--	--	--	--	--	--	<0.0844	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	mg/kg	--	--	--	--	--	<0.150	--	--	--	--	--	--	<0.169	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	mg/kg	--	--	--	--	--	<0.0748	--	--	--	--	--	--	<0.0844	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	mg/kg	--	--	--	--	--	<0.150	--	--	--	--	--	--	<0.169	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	mg/kg	--	--	--	--	--	<0.0748	--	--	--	--	--	--	<0.0844	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	mg/kg	--	--	--	--	--	<0.0748	--	--	--	--	--	--	<0.0844	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	mg/kg	--	--	--	--	--	<0.0748	--	--	--	--	--	--	<0.0844	--	--	--	--	--	--	--	--	--	--	--	--
Dibromomethane	mg/kg	--	--	--	--	--	<0.0748	--	--	--	--	--	--	<0.0844	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	mg/kg	--	--	--	--	--	<0.0748	--	--	--	--	--	--	<0.0844	--	--	--	--	--	--	--	--	--	--	--	--
Diethyl Ether	mg/kg	--	--	--	--	--	<0.0748	--	--	--	--	--	--	<0.0844	--	--	--	--	--	--	--	--	--	--	--	--
Di-isopropyl ether	mg/kg	--	--	--	--	--	<0.0748	--	--	--	--	--	--	<0.0844	--	--	--	--	--	--	--	--	--	--	--	--
Ethyl tertiary-butyl ether	mg/kg	--	--	--	--	--	<0.0748	--	--	--	--	--	--	<0.0844	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	mg/kg	--	--	--	--	--	<0.0748	--	--	--	--	--	--	<0.0844	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	mg/kg	--	--	--	--	--	<0.0748	--	--	--	--	--	--	<0.0844	--	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene	mg/kg	--	--	--	--	--	<0.0748	--	--	--	--	--	--	<0.0844	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	mg/kg	--	--	--	--	--	<0.0748	--	--	--	--	--	--	<0.0844	--	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride	mg/kg	--	--	--	--	--	<0.299	--	--	--	--	--	--	<0.338	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	mg/kg	--	--	--	--	--	<0.0748	--	--	--	--	--	--	<0.0844	--	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	mg/kg	--	--	--	--	--	<0.0748	--	--	--	--	--	--	<0.0844	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	mg/kg	--	--	--	--	--	<0.0748	--	--	--	--	--	--	<0.0844	--	--	--	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	mg/kg	--	--	--	--	--	<0.0748	--	--	--	--	--	--	<0.0844	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	mg/kg	--	--	--	--	--	<0.0748	--	--	--	--	--	--	<0.0844	--	--	--	--	--	--	--	--	--	--	--	--
tert-Butylbenzene	mg/kg	--	--	--	--	--	<0.0748	--	--	--	--	--	--	<0.0844	--	--	--	--	--	--	--	--	--	--	--	--
Tertiary-amyl methyl ether	mg/kg	--	--	--	--	--	<0.0748	--	--	--	--	--	--	<0.0844	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	mg/kg	--	--	--	--	--	<0.0748	--	--	--	--	--	--	<0.0844	--	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	mg/kg	--	--	--	--	--	<0.299	--	--	--	--	--	--	<0.338	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	mg/kg	--	--	--	--	--	<0.0748	--	--	--	--	--	--	<0.0844	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	mg/kg	--	--	--	--	--	<0.0748	--	--	--	--	--	--	<0.0844	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	mg/kg	--	--	--	--	--	<0.0748	--	--	--	--	--	--	<0.0844	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene	mg/kg	--	--	--	--	--	<0.0748	--	--	--	--	--	--	<0.0844	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane	mg/kg	--	--	--	--	--	<0.0748	--	--	--	--	--	--	<0.0844	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	mg/kg	--	--	--	--	--	<0.0748	--	--	--	--	--	--	<0.0844	--	--	--	--	--	--	--	--	--	--	--	--
Xylene O	mg/kg	--	--	--	--	--	<0.0748	--	--	--	--	--	--	<0.0844	--	--	--	--	--	--	--	--	--	--	--	--
Xylene P,M	mg/kg	--	--	--	--	--	<0.150	--	--	--	--	--	--	<0.169	--	--	--	--	--	--	--	--	--	--	--	--
Xylenes (Total)	mg/kg	--	--	--	--	--	<0.150	--	--	--	--	--	--	<0.169	--	--	--	--	--	--	--	--	--	--	--	--
Total VOCs	mg/kg	--	--	--	--	--	3.49	--	--	--	--	--	--	ND	--	--	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds - Low Level Analysis																										
1,1,1,2-Tetrachloroethane	mg/kg	<0.0039	<0.0040	--	<0.0038	<0.0060	<0.0081	<0.0041	<0.0048	<0.0036	<0.0060	<0.0055	<0.0066	<0.0073	<0.0089	<0.0050	<0.0052	<0.0044	<0.0051	<0.0039	<0.0035	<0.0046	<0.0039	<0.0047	<0.0059
1,1,1-Trichloroethane	mg/kg	<0.0039	<0.0040	--	<0.0038	<0.0060	<0.0081	<0.0041	<0.0048	<0.0036	<0.0060	<0.0055	<0.0066	<0.0073	<0.0089	<0.0050	<0.0052	<0.0044	<0.0051	<0.0039	<0.0035	<0.0046	<0.0039	<0.0047	<0.0059
1,1,2,2-Tetrachloroethane	mg/kg	<0.0016	<0.0016	--	<0.0015	<0.0024	<0.0032	<0.0016	<0.0019	<0.0014	<0.0024	<0.0022	<0.0026	<0.0029	<0.0036	<0.0020	<0.0021	<0.0018	<0.0020	<0.0016	<0.0014	<0.0019	<0.0016	<0.0019	<0.0024
1,1,2-Trichloroethane	mg/kg	<0.0039	<0.0040	--	<0.0038	<0.0060	<0.0081	<0.0041	<0.0048	<0.0036	<0.0060	<0.0055	<0.0066	<0.0073	<0.0089	<0.0050	<0.0052	<0.0044	<0.0051	<0.0039	<0.0035	<0.0046	<0.0039	<0.0047	<0.0059
1,1-Dichloroethane	mg/kg	<0.0039	<0.0040	--	<0.0038	<0.0060	<0.0081	<0.0041	<0.0048	<0.0036	<0.0060	<0.0055	<0.0066	<0.0073	<0.0089	<0.0050	<0.0052	<0.0044	<0.0051	<0.0039	<0.0035	<0.0046	<0.0039	<0.0047	<0.0059
1,1-Dichloroethene	mg/kg	<0.0039	<0.0040	--	<0.0038	<0.0060	<0.0081	<0.0041	<0.0048	<0.0036	<0.0060	<0.0055	<0.0066	<0.0073	<0.0089	<0.0050	<0.0052	<0.0044	<0.0051	<0.0039	<0.0035	<0.0046	<0.0039	<0.0047	<0.0059
1,1-Dichloropropene	mg/kg	<0.0039	<0.0040	--	<0.0038	<0.0060	<0.0081	<0.0041	<0.0048	<0.0036	<0.0060	<0.0055	<0.0066	<0.0073	<0.0089	<0.0050	<0.0052	<0.0044	<0.0051	<0.0039	<0.0035	<0.0046	<0.0039	<0.0047	<0.0059
1,2,3-Trichlorobenzene	mg/kg	<0.0039	<0.0040	--	<0.0038	<0.0060	<0.0081	<0.0041	<0.0048	<0.0036	<0.0060	<0.0055	<0.0066	<0.0073	<0.0089	<0.0050	<0.0052	<0.0044	<0.0051	<0.0039	<0.0035	<0.0046	<0.0039	<0.0047	<0.0059
1,2,3-Trichloropropane	mg/kg	<0.0039	<0.0040	--	<0.0038	<0.0060	<0.0081	<0.0041	<0.0048	<0.0036	<0.0060	<0.0055	<0.0066	<0.0073	<0.0089	<0.0050	<0.0052	<0.0044	<0.0051	<0.0039	<0.0035	<0.0046	<0.0039	<0.0047	<0.0059
1,2,4-Trichlorobenzene	mg/kg	<0.0039	<0.0040	--	<0.0038	<0.0060	<0.0081	<0.0041	<0.0048	<0.0036	<0.0060	<0.0055	<0.0066	<0.0073	<0.0089	<0.0050	<0.0052	<0.0044	<0.0051	<0.0039	<0.0035	<0.0046	<0.0039	<0.0047	<0.0059
1,2,4-Trimethylbenzene	mg/kg	<0.0039	<0.0040	--	<0.0038	<0.0060	<0.0081	<0.0041	<0.0048	<0.0036	<0.0060	<0.0055	<0.0066	<0.0073	<0.0089	<0.0050	<0.0052	<0.0044	<0.0051	<0.0039	<0.0035	<0.0046	<0.0039	<0.0047	<0.0059
1,2-Dibromo-3-Chloropropane	mg/kg	<0.0039	<0.0040	--	<0.0038	<0.0060	<0.0081	<0.0041	<0.0048	<0.0036	<0.0060	<0.0055	<0.0066	<0.0073	<0.0089	<0.0050	<0.0052	<0.0044	<0.0051	<0.0039	<0.0035	<0.0046	<0.0039	<0.0047	<0.0059
1,2-Dibromoethane	mg/kg	<0.0039	<0.0040	--	<0.0038	<0.0060	<0.0081	<0.0041	<0.0048	<0.0036	<0.0060	<0.0055	<0.0066	<0.0073	<0.0089	<0.0050	<0.0052	<0.0044	<0.0051	<0.0039	<0.0035	<0.0046	<0.0039	<0.0047	<0.0059
1,2-Dichlorobenzene	mg/kg	<0.0039	<0.0040	--	<0.0038	<0.0060	<0.0081	<0.0041	<0.0048	<0.0036	<0.0060	<0.0055	<0.0066	<0.0073	<0.0089	<0.0050	<0.0052	<0.0044	<0.0051	<0.0039	<0.0035	<0.0046	<0.0039	<0.0047	<0.0059
1,2-Dichloroethane	mg/kg	<0.0039	<0.0040	--	<0.0038	<0.0060	<0.0081	<0.0041	<0.0048	<0.0036	<0.0060	<0.0055	<0.0066	<0.0073	<0.0089	<0.0050	<0.0052	<0.0044	<0.0051	<0.0039	<0.0035	<0.0046	<0.0039	<0.0047	<0.0059
1,2-Dichloropropane	mg/kg	<0.0039	<0.0040	--	<0.0038	<0.0060	<0.0081	<0.0041	<0.0048	<0.0036	<0.0060	<0.0055	<0.0066	<0.0073	<0.0089	<0.0050	<0.0052	<0.0044	<0.0051	<0.0039	<0.0035	<0.0046	<0.0039	<0.0047	<0.0059
1,3,5-Trimethylbenzene	mg/kg	<0.0039	<0.0040	--	<0.0038	<0.0060	<0.0081	<0.0041	<0.0048	<0.0036	<0.0060	<0.0055	<0.0066	<0.0073	<0.0089	<0.0050	<0.0052	<0.0044	<0.0051	<0.0039	<0.0035	<0.0046	<0.0039	<0.0047	<0.0059
1,3-Dichlorobenzene	mg/kg	<0.0039	<0.0040	--	<0.0038	<0.0060	<0.0081	<0.0041	<0.0048	<0.0036	<0.0060	<0.0055	<0.0066	<0.0073	<0.0089	<0.0050	<0.0052	<0.0044	<0.0051	<0.0039	<0.0035	<0.0046	<0.0039	<0.0047	<0.0059
1,3-Dichloropropane	mg/kg	<0.0039	<0.0040	--	<0.0038	<0.0060	<0.0081	<0.0041	<0.0048	<0.0036	<0.0060	<0.0055	<0.0066	<0.0073	<0.0089	<0.0050	<0.0052	<0.0044	<0.0051	<0.0039	<0.0035	<0.0046	<0.0039	<0.0047	<0.0059
1,4-Dichlorobenzene	mg/kg	<0.0039	<0.0040	--	<0.0038	<0.0060	<0.0081	<0.0041	<0.0048	<0.0036	<0.0060	<0.0055	<0.0066	<0.0073	<0.0089	<0.0050	<0.0052	<0.0044	<0.0051	<0.0039	<0.0035	<0.0046	<0.0039	<0.0047	<0.0059
1,4-Dioxane	mg/kg	<0.0783	<0.0794	--	<0.0766	<0.119	<0.162	<0.0817	<0.0955	<0.0725	<0.119	<0.111	<0.131	<0.146	<0.178	<0.0999	<0.103	<0.0877	<0.101	<0.0789	<0.0692	<0.0928	<0.0786	<0.0940	<0.118
2,2-Dichloropropane	mg/kg	<0.0039	<0.0040	--	<0.0038	<0.0060	<0.0081	<0.0041	<0.0048	<0.0036	<0.0060	<0.0055	<0.0066	<0.0073	<0.0089	<0.0050	<0.0052	<0.0044	<0.0051	<0.0039	<0.0035	<0.0046	<0.0039	<0.0047	<0.0059
2-Butanone	mg/kg	<0.0078	<0.0079	--	<0.0077	<0.0119	<0.0162	<0.0082	<0.0096	<0.0072	<0.0119	<0.0111	<0.0131	<0.0146	<0.0178	<0.0100	<0.0103	<0.0088	<0.0101	<0.0079	<0.0069	<0.0093	<0.0079	<0.0094	<0.0118
2-Chlorotoluene	mg/kg	<0.0039	<0.0040	--	<0.0038	<0.0060	<0.0081	<0.0041	<0.0048	<0.0036	<0.0060	<0.0055	<0.0066	<0.0073	<0.0089	<0.0050	<0.0052	<0.0044	<0.0051	<0.0039	<0.0035	<0.0046	<0.0039	<0.0047	<0.0059
2-Hexanone	mg/kg	<0.0078	<0.0079	--	<0.0077	<0.0119	<0.0162	<0.0082	<0.0096	<0.0072	<0.0119	<0.0111	<0.0131	<0.0146	<0.0178	<0.0100	<0.0103	<0.0088	<0.0101	<0.0079	<0.0069	<0.0093	<0.0079	<0.0094	<0.0118
4-Chlorotoluene	mg/kg	<0.0039	<0.0040	--	<0.0038	<0.0060	<0.0081	<0.0041	<0.0048	<0.0036	<0.0060	<0.0055	<0.0066	<0.0073	<0.0089	<0.0050	<0.0052	<0.0044	<0.0051	<0.0039	<0.0035	<0.0046	<0.0039	<0.0047	<0.0059
4-Isopropyltoluene	mg/kg	<0.0039	<0.0040	--	<0.0038	<0.0060	0.577	<0.0041	0.0212	<0.0036	<0.0060	<0.0055	<0.0066	<0.0073	<0.0089	<0.0050	<0.0052	<0.0044	<0.0051	<0.0039	<0.0035	<0.0046	<0.0039	<0.0047	<0.0059
4-Methyl-2-Pentanone	mg/kg	<0.0078	<0.0079	--	<0.0077	<0.0119	<0.0162	<0.0082	<0.0096	<0.0072	<0.0119	<0.0111	<0.0131	<0.0146	<0.0178	<0.0100	<0.0103	<0.0088	<0.0101	<0.0079	<0.0069	<0.0093	<0.0079	<0.0094	<0.0118
Acetone	mg/kg	<0.0078	<0.0079	--	<0.0077	<0.0119	0.0488	<0.0082	<0.0096	<0.0072	<0.0119	<0.0111	0.0352	<0.0146	0.104	0.0173	0.0445	0.0112	<0.0101	<0.0079	<0.0069	0.0535	0.0635	0.0487	0.0463
Benzene	mg/kg	<0.0039	<0.0040	--	<0.0038	<0.0060	<0.0081	<0.0041	<0.0048	<0.0036	<0.0060	<0.0055	<0.0066	<0.0073	<0.0089	<0.0050	<0.0052	<0.0044	<0.0051	<0.0039	<0.0035	<0.0046	<0.0039	<0.0047	<0.0059
Bromobenzene	mg/kg	<0.0039	<0.0040	--	<0.0038	<0.0060	<0.0081	<0.0041	<0.0048	<0.0036	<0.0060	<0.0055	<0.0066	<0.0073	<0.0089	<0.0050	<0.0052	<0.0044	<0.0051	<0.0039	<0.0035	<0.0046	<0.0039	<0.0047	<0.0059
Bromochloromethane	mg/kg	<0.0039	<0.0040	--	<0.0038	<0.0060	<0.0081	<0.0041	<0.0048	<0.0036	<0.0060	<0.0055	<0.0066	<0.0073	<0.0089	<0.0050	<0.0052	<0.0044	<0.0051	<0.0039	<0.0035	<0.0046	<0.0039	<0.0047	<0.0059
Bromodichloromethane	mg/kg	<0.0039	<0.0040	--	<0.0038	<0.0060	<0.0081	<0.0041	<0.0048	<0.0036	<0.0060	<0.0055	<0.0066	<0.0073	<0.0089	<0.0050	<0.0052	<0.0044	<0.0051	<0.0039	<0.0035	<0.0046	<0.0039	<0.0047	<0.0059
Bromoform	mg/kg	<0.0039	<0.0040	--	<0.0038	<0.0060	<0.0081	<0.0041	<0.0048	<0.0036	<0.0060	<0.0055	<0.0066	<0.0073	<0.0089	<0.0050	<0.0052	<0.0044	<0.0051	<0.0039	<0.0035	<0.0046	<0.0039	<0.0047	<0.0059
Bromomethane	mg/kg	<0.0078	<0.0079	--	<0.0077	<0.0119	<0.0162	<0.0082	<0.0096	<0.0072	<0.0119	<0.0111	<0.0131	<0.0146	<0.0178	<0.0100	<0.0103	<0.0088	<0.0101	<0.0079	<0.0069	<0.0093	<0.0079	<0.0094	<0.0118
Carbon Disulfide	mg/kg	<0.0039	<0.0040	--	<0.0038	0.0081	0.0429	<0.0041	<0.0048	<0.0036	0.0069	<0.0055	<0.0066	<0.0073	<0.0089	0.0079	<0.0052	<0.0044	<0.0051	<0.0039	<0.0035	<0.0046	<0.0039	0.0081	<0.0059
Carbon Tetrachloride	mg/kg	<0.0039	<0.0040	--	<0.0038	<0.0060	<0.0081	<0.0041	<0.0048	<0.0036	<0.0060	<0.0055	<0.0066	<0.0073	<0.0089	<0.0050	<0.0052	<0.0044	<0.0051	<0.0039	<0.0035	<0.0046	<0.0039	<0.0047	<0.0059
Chlorobenzene	mg/kg	<0.0039	<0.0040	--	<0.0038	<0.0060	<0.0081	<0.0041	<0.0048	<0.0036	<0.0060	<0.0055	<0.0066	<0.0073	<0.0089	<0.0050	<0.0052	<0.0044	<0.0051	<0.0039	<0.0035	<0.0046	<0.0039	<0.0047	<0.0059
Chloroethane	mg/kg	<0.0078	<0.0079	--	<0.0077	<0.0119	<0.0162	<0.0082	<0.0096	<0.0072	<0.0119	<0.0111	<0.0131	<0.0146	<0.0178	<0.0100	<0.0103	<0.0088	<0.0101	<0.0079	<0.0069	<0.0093	<0.0079	<0.0094	<0.0118
Chloroform	mg/kg	<0.0039	<0.0040	--	<0.0038	<0.0060	<0.0081	<0.0041	<0.0048	<0.0036	<0.0060	<0.0055	<0.0066	<0.0073	<0.0089	<0.0050	<0.0052	<0.0044	<0.0051	<0.0039	<0.0035	<0.0046	<0.0039	<0.0047	<0.0059
Chloromethane	mg/kg	<0.0078	<0.0079	--	<0.0077	<0.0119	<0.0162	<0.0082	<0.0096	<0.0072	<0.0119	<0.0111	<0.0131	<0.0146	<0.0178	<0.0100	<0.0103	<0.0088	<0.0101	<0.0079	<0.0069	<0.0093	<0.0079	<0.0094	<0.0118
cis-1,2-Dichloroethene	mg/kg	<0.0039	<0.0040	--	<0.0038	<0.0060	<0.0081	<0.0041	<0.0048	<0.0036	<0.0060	<0.0055	<0.0066	<0.0073	<0.0089	<0.0050	<0.0052	<0.0044	<0.0051	<0.0039	<0.0035	<0.0046	<0.0039	<0.0047	<0.0059
cis-1,3-Dichloropropene	mg/kg	<0.0039	<0.0040	--	<0.0038	<0.0060	<0.0081	<0.0041	<0.0048	<0.0036	<0.0060	<0.0055	<0.0066	<0.0073	<0.0089	<0.0050	<0.0052	<0.0044	<0.0051	<0.0039	<0.0035	<0.0046	<0.0039	<0.0047	<0.0059
Dibromochloromethane	mg/kg	<0.0016	<0.0016	--	<0.0015	<0.0024	<0.0032	<0.0016	<0.0019	<0.0014	<0.0024	<0.0022	<0.0026	<0.0029	<0.0036	<0.0020	<0.0021	<0.0018	<0.0020	<0.0016	<0.0014	<0.0019	<0.0016	<0.0019	<0.0024
Dibromomethane	mg/kg	<0.0039	<0.0040	--	<0.0038	<0.0060	<0.0081	<0.0041	<0.0048	<0.0036	<0.0060	<0.0055	<0.0066	<0.0073	<0.0089	<0.0050	<0.0052	<0.0044	<0.0051	<0.0039	<0.0035	<0.0046	<0.0039	<0.0047	<0.0059
Dichlorodifluoromethane	mg/kg	<0.0078	<0.0079	--	<0.0077	<0.0119	<0.0162	<0.0082	<0.0096	<0.0072	<0.0119	<0.0111	<0.0131	<0.0146	<0.0178	<0.0100	<0.0103	<0.0088	<0.0101	<0.0079	<0.0069	<0.0093	<0.0079	<0.0094	<0.0118
Diethyl Ether	mg/kg	<0.0039	<0.0040	--	<0.0038	<0.0060	<0.0081	<0.0041	<0.0048	<0.0036	<0.0060	<0.0055	<0.0066	<0.0073	<0.0089	<0.0050	<0.0052	<0.0044	<0.0051	<0.0039	<0.0035	<0.0046	<0.0039	<0.0047	<0.0059
Di-isopropyl ether	mg/kg	<0.0039	<0.0040	--	<0.0038	<0.0060	<0.0081	<0.0041	<0.0048	<0.0036	<0.0060	<0.0055	<0.0066	<0.0073	<0.0089	<0.0050	<0.0052	<0.0044	<0.0051	<0.0039	<0.0035	<0.0046	<0.0039	<0.0047	<0.0059
Ethyl tertiary-butyl ether	mg/kg	<0.0039	<0.0040	--	<0.0038	<0.0060	<0.0081	<0.0041	<0.0048	<0.0036	<0.0060	<0.0055	<0.0066	<0.0073	<0.0089	<0.0050	<0.0052	<0.0044	<0.0051	<0.0039	<0.0035	<0.0046	<0.0039	<0.0047	<0.0059
Ethylbenzene	mg/kg	<0.0039	<0.0040	--	<0.0038	<0.0060	<0.0081	<0.0041	<0.0048	<0.0036	<0.0060	<0.0055	<0.0066	<0.0073	<0.0089	<0.0050	<0.0052	<0.0044	<0.0051	<0.0039	<0.0035	<0.0046	<0.0039	<0.0047	<0.0059
Hexachlorobutadiene	mg/kg	<0.0039	<0.0040	--	<0.0038	<0.0060	<0.0081	<0.0041	<0.0048	<0.0036	<0.0060	<0.0055	<0.0066	<0.0073	<0.0089	<0.0050	<0.0052	<0.0044	<0.0051	<0.0039	<0.0035	<0.0046	<0.0039	<0.0047	<0.0059
Isopropylbenzene	mg/kg	<0.0039	<0.0040	--	<0.0038	<0.0060	<0.0081	<0.0041	<0.0048	<0.0036	<0.0060	<0.0055	<0.0066	<0.0073	<0.0089	<0.0050	<0.0052	<0.0044	<0.0051	<0.0039	<0.0035	<0.0046	<0.0039	<0.0047	<0.0059
Methyl tert-Butyl Ether	mg/kg	<0.0039	<0.0040	--	<0.0038	<0.0060	<0.0081	<0.0041	<0.0048	<0.0036	<0.0060	<0.0055	<0.0066	<0.0073	<0.0089	<0.0050	<0.0052	<0.0044	<0.0051	<0.0039	<0.0035	<0.0046	<0.0039	<0.0047	<0.0059
Methylene Chloride	mg/kg	<0.0078	<0.0079	--	<0.0077	<0.0119	<0.0162	<0.0082	<0.0096	<0.0072	<0.0119	<0.0111	<0.0131	<0.0146	<0.0178	<0.0100	<0.0103	<0.0088	<0.0101	<0.0079	<0.0069	<0.0093	<0.0079	<0.0094	<0.0118
Naphthalene	mg/kg	<0.0039	<0.0040	--	<0.0038	<0.0060	<0.0081	<0.0041	<0.0048	<0.0036	<0.0060	<0.0055	<0.0066	<0.0073	<0.0089	<0.0050	<0.0052	<0.0044	<0.0051	<0.0039	<0.0035	<0.0046	<0.0039	<0.0047	<0.0059
n-Butylbenzene	mg/kg	<0.0039	<0.0040	--	<0.0038	<0.0060	<0.0081	<0.0041	<0.0048	<0.0036	<0.0060	<0.0055	<0.0066	<0.0073	<0.0089	<0.0050	<0.0052	<0.0044	<0.0051	<0.0039	<0.0035	<0.0046	<0.0039	<0.0047	<0.0059
n-Propylbenzene	mg/kg	<0.0039	<0.0040	--	<0.0038	<0.0060	<0.0081	<0.0041	<0.0048	<0.0036	<0.0060	<0.0055	<0.0066	<0.0073	<0.0089	<0.0050	<0.0052	<0.0044	<0.0051	<0.0039	<0.0035	<0.0046	<0.0039	<0.0047	<0.0059
sec-Butylbenzene	mg/kg	<0.0039	<0.0040	--	<0.0038	<0.0060	0.0147	<0.0041	<0.0048	<0.0036	<0.0060	<0.0055	<0.0066	<0.0073	<0.0089	<0.0050	<0.0052	<0.0044	<0.0051	<0.0039	<0.0035	<0.0046	<0.0039	<0.0047	<0.0059

J:\170,000-179,999\171521\171521-02.DEL\Supplemental Phase II\Appendices\Appendix H\172521

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	C22 C22S01S02A 1412222 Fill 0.2 - 3.3 12/10/2014	C22 C22S02B 1412222 See C22S02BS04A 3.3 - 4 12/10/2014	C22 C22S02BS04A 1412247 Fill 3.3 - 6.6 12/11/2014	C22 C22S04BS05 1412247 Fill 6.6 - 10 12/11/2014	C22 C22S06 1412247 Natural Organics 13 - 15 12/11/2014	C22 C22S07 1412247 Natural Organics 19 - 21 12/11/2014	C22 C22S08 1412284 Natural Organics 24 - 26 12/12/2014	C22 C22S09 1412247 Natural Organics 29 - 31 12/11/2014	C22 C22S10 1412284 Natural Organics 34 - 36 12/12/2014	C22 C22S11 1412284 Natural Organics 39 - 41 12/12/2014	C23 C23S01S02A 1412222 Fill 0 - 3.3 12/10/2014	C23 C23S02BS04A 1412222 Fill 3.3 - 6.6 12/10/2014	C23 C23S04BS05 1412222 Fill 6.6 - 10 12/10/2014	C23 C23S06 1412222 Natural Organics 10 - 12 12/10/2014	C23 C23S07 1412222 Natural Organics 14 - 16 12/10/2014	C23 C23S08 1412222 Natural Organics 19 - 21 12/10/2014	C23 C23S09 1412222 Natural Organics 24 - 26 12/10/2014	C23 C23S10 1412222 Natural Organics 29 - 32 12/10/2014	C23 C23S11S12 1412222 Natural Organics 34 - 38 12/10/2014	C24 C24S01S02A 1412409 Fill 0 - 3.3 12/18/2014	C24 C24S02BS04A 1412409 Fill 3.3 - 6.6 12/18/2014	C24 C24S04BS05A 1412409 Fill 6.6 - 9 12/18/2014	C24 C24S05BS06 1412409 Fill 9 - 12 12/18/2014	C24 C24S07S08 1412409 Fill 14 - 19 12/18/2014
Preliminary Disposal Facility Category		MCP Regulated Type A	See C22S02BS04A	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	Uncontaminated	MCP Regulated Type A	Uncontaminated	MCP Regulated Type B-1	MCP Regulated Type A	Hazardous Material Type B	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Uncontaminated	Uncontaminated	Hazardous Material Type B	Hazardous Material Type B	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A
Styrene	mg/kg	<0.0039	<0.0040	--	<0.0038	<0.0060	<0.0081	<0.0041	<0.0048	<0.0036	<0.0060	<0.0055	<0.0066	<0.0073	<0.0089	<0.0050	<0.0052	<0.0044	<0.0051	<0.0039	<0.0035	<0.0046	<0.0039	<0.0047	<0.0059
tert-Butylbenzene	mg/kg	<0.0039	<0.0040	--	<0.0038	<0.0060	<0.0081	<0.0041	<0.0048	<0.0036	<0.0060	<0.0055	<0.0066	<0.0073	<0.0089	<0.0050	<0.0052	<0.0044	<0.0051	<0.0039	<0.0035	<0.0046	<0.0039	<0.0047	<0.0059
Tertiary-amyl methyl ether	mg/kg	<0.0039	<0.0040	--	<0.0038	<0.0060	<0.0081	<0.0041	<0.0048	<0.0036	<0.0060	<0.0055	<0.0066	<0.0073	<0.0089	<0.0050	<0.0052	<0.0044	<0.0051	<0.0039	<0.0035	<0.0046	<0.0039	<0.0047	<0.0059
Tetrachloroethene	mg/kg	<0.0039	<0.0040	--	<0.0038	<0.0060	<0.0081	<0.0041	<0.0048	<0.0036	<0.0060	<0.0055	<0.0066	<0.0073	<0.0089	<0.0050	<0.0052	<0.0044	<0.0051	<0.0039	<0.0035	<0.0046	<0.0039	<0.0047	<0.0059
Tetrahydrofuran	mg/kg	<0.0039	<0.0040	--	<0.0038	<0.0060	<0.0081	<0.0041	<0.0048	<0.0036	<0.0060	<0.0055	<0.0066	<0.0073	<0.0089	<0.0050	<0.0052	<0.0044	<0.0051	<0.0039	<0.0035	<0.0046	<0.0039	<0.0047	<0.0059
Toluene	mg/kg	<0.0039	<0.0040	--	<0.0038	<0.0060	<0.0081	<0.0041	<0.0048	<0.0036	<0.0060	<0.0055	<0.0066	<0.0073	<0.0089	<0.0050	<0.0052	<0.0044	<0.0051	<0.0039	<0.0035	<0.0046	<0.0039	<0.0047	<0.0059
trans-1,2-Dichloroethene	mg/kg	<0.0039	<0.0040	--	<0.0038	<0.0060	<0.0081	<0.0041	<0.0048	<0.0036	<0.0060	<0.0055	<0.0066	<0.0073	<0.0089	<0.0050	<0.0052	<0.0044	<0.0051	<0.0039	<0.0035	<0.0046	<0.0039	<0.0047	<0.0059
trans-1,3-Dichloropropene	mg/kg	<0.0039	<0.0040	--	<0.0038	<0.0060	<0.0081	<0.0041	<0.0048	<0.0036	<0.0060	<0.0055	<0.0066	<0.0073	<0.0089	<0.0050	<0.0052	<0.0044	<0.0051	<0.0039	<0.0035	<0.0046	<0.0039	<0.0047	<0.0059
Trichloroethene	mg/kg	<0.0039	<0.0040	--	<0.0038	<0.0060	<0.0081	<0.0041	<0.0048	<0.0036	<0.0060	<0.0055	<0.0066	<0.0073	<0.0089	<0.0050	<0.0052	<0.0044	<0.0051	<0.0039	<0.0035	<0.0046	<0.0039	<0.0047	<0.0059
Trichlorofluoromethane	mg/kg	<0.0039	<0.0040	--	<0.0038	<0.0060	<0.0081	<0.0041	<0.0048	<0.0036	<0.0060	<0.0055	<0.0066	<0.0073	<0.0089	<0.0050	<0.0052	<0.0044	<0.0051	<0.0039	<0.0035	<0.0046	<0.0039	<0.0047	<0.0059
Vinyl Chloride	mg/kg	<0.0078	<0.0079	--	<0.0077	<0.0119	<0.0162	<0.0082	<0.0096	<0.0072	<0.0119	<0.0111	<0.0131	<0.0146	<0.0178	<0.0100	<0.0103	<0.0088	<0.0101	<0.0079	<0.0069	<0.0093	<0.0079	<0.0094	<0.0118
Xylene O	mg/kg	<0.0039	<0.0040	--	<0.0038	<0.0060	<0.0081	<0.0041	<0.0048	<0.0036	<0.0060	<0.0055	<0.0066	<0.0073	<0.0089	<0.0050	<0.0052	<0.0044	<0.0051	<0.0039	<0.0035	<0.0046	<0.0039	<0.0047	<0.0059
Xylene P,M	mg/kg	<0.0078	<0.0079	--	<0.0077	<0.0119	<0.0162	<0.0082	<0.0096	<0.0072	<0.0119	<0.0111	<0.0131	<0.0146	<0.0178	<0.0100	<0.0103	<0.0088	<0.0101	<0.0079	<0.0069	<0.0093	<0.0079	<0.0094	<0.0118
Xylenes (Total)	mg/kg	<0.0078	<0.0079	--	<0.0077	<0.0119	<0.0162	<0.0082	<0.0096	<0.0072	<0.0119	<0.0111	<0.0131	<0.0146	<0.0178	<0.0100	<0.0103	<0.0088	<0.0101	<0.0079	<0.0069	<0.0093	<0.0079	<0.0094	<0.0118
Total VOCs (Low Level)	mg/kg	ND	ND	--	ND	0.0081	0.6834	ND	0.0212	ND	0.0069	ND	0.0352	ND	0.104	0.0252	0.0445	0.0112	ND	ND	ND	0.0535	0.0635	0.0568	0.0463
Semi-Volatile Organic Compounds																									
1,2,4-Trichlorobenzene	mg/kg	<0.905	--	<1.09	<0.921	<0.997	<1.10	<1.08	<1.01	<1.02	<0.955	<0.908	<0.953	<1.27	<1.37	<1.28	<1.09	<1.10	<1.09	<1.02	<0.805	<0.940	<0.913	<1.09	<1.12
1,2-Dichlorobenzene	mg/kg	<0.905	--	<1.09	<0.921	<0.997	<1.10	<1.08	<1.01	<1.02	<0.955	<0.908	<0.953	<1.27	<1.37	<1.28	<1.09	<1.10	<1.09	<1.02	<0.805	<0.940	<0.913	<1.09	<1.12
1,3-Dichlorobenzene	mg/kg	<0.905	--	<1.09	<0.921	<0.997	<1.10	<1.08	<1.01	<1.02	<0.955	<0.908	<0.953	<1.27	<1.37	<1.28	<1.09	<1.10	<1.09	<1.02	<0.805	<0.940	<0.913	<1.09	<1.12
1,4-Dichlorobenzene	mg/kg	<0.454	--	<0.547	<0.462	<0.500	<0.553	<0.543	<0.509	<0.513	<0.479	<0.455	<0.478	<0.634	<0.686	<0.643	<0.547	<0.549	<0.547	<0.513	<0.403	<0.472	<0.458	<0.544	<0.563
2,4,5-Trichlorophenol	mg/kg	<0.905	--	<1.09	<0.921	<0.997	<1.10	<1.08	<1.01	<1.02	<0.955	<0.908	<0.953	<1.27	<1.37	<1.28	<1.09	<1.10	<1.09	<1.02	<0.805	<0.940	<0.913	<1.09	<1.12
2,4,6-Trichlorophenol	mg/kg	<0.905	--	<1.09	<0.921	<0.997	<1.10	<1.08	<1.01	<1.02	<0.955	<0.908	<0.953	<1.27	<1.37	<1.28	<1.09	<1.10	<1.09	<1.02	<0.805	<0.940	<0.913	<1.09	<1.12
2,4-Dichlorophenol	mg/kg	<0.905	--	<1.09	<0.921	<0.997	<1.10	<1.08	<1.01	<1.02	<0.955	<0.908	<0.953	<1.27	<1.37	<1.28	<1.09	<1.10	<1.09	<1.02	<0.805	<0.940	<0.913	<1.09	<1.12
2,4-Dimethylphenol	mg/kg	<0.905	--	<1.09	<0.921	<0.997	<1.10	<1.08	<1.01	<1.02	<0.955	<0.908	<0.953	<1.27	<1.37	<1.28	<1.09	<1.10	<1.09	<1.02	<0.805	<0.940	<0.913	<1.09	<1.12
2,4-Dinitrophenol	mg/kg	<4.54	--	<5.47	<4.62	<5.00	<5.53	<5.43	<5.09	<5.13	<4.79	<4.55	<4.78	<6.34	<6.86	<6.43	<5.47	<5.49	<5.47	<5.13	<4.03	<4.72	<4.58	<5.44	<5.63
2,4-Dinitrotoluene	mg/kg	<0.905	--	<1.09	<0.921	<0.997	<1.10	<1.08	<1.01	<1.02	<0.955	<0.908	<0.953	<1.27	<1.37	<1.28	<1.09	<1.10	<1.09	<1.02	<0.805	<0.940	<0.913	<1.09	<1.12
2,6-Dinitrotoluene	mg/kg	<0.905	--	<1.09	<0.921	<0.997	<1.10	<1.08	<1.01	<1.02	<0.955	<0.908	<0.953	<1.27	<1.37	<1.28	<1.09	<1.10	<1.09	<1.02	<0.805	<0.940	<0.913	<1.09	<1.12
2-Chloronaphthalene	mg/kg	<0.905	--	<1.09	<0.921	<0.997	<1.10	<1.08	<1.01	<1.02	<0.955	<0.908	<0.953	<1.27	<1.37	<1.28	<1.09	<1.10	<1.09	<1.02	<0.805	<0.940	<0.913	<1.09	<1.12
2-Chlorophenol	mg/kg	<0.905	--	<1.09	<0.921	<0.997	<1.10	<1.08	<1.01	<1.02	<0.955	<0.908	<0.953	<1.27	<1.37	<1.28	<1.09	<1.10	<1.09	<1.02	<0.805	<0.940	<0.913	<1.09	<1.12
2-Methylnaphthalene	mg/kg	<0.905	--	<1.09	<0.921	<0.997	<1.10	<1.08	<1.01	<1.02	<0.955	<0.908	<0.953	<1.27	<1.37	<1.28	<1.09	<1.10	<1.09	<1.02	<0.805	<0.940	<0.913	<1.09	<1.12
2-Methylphenol	mg/kg	<0.905	--	<1.09	<0.921	<0.997	<1.10	<1.08	<1.01	<1.02	<0.955	<0.908	<0.953	<1.27	<1.37	<1.28	<1.09	<1.10	<1.09	<1.02	<0.805	<0.940	<0.913	<1.09	<1.12
2-Nitrophenol	mg/kg	<0.905	--	<1.09	<0.921	<0.997	<1.10	<1.08	<1.01	<1.02	<0.955	<0.908	<0.953	<1.27	<1.37	<1.28	<1.09	<1.10	<1.09	<1.02	<0.805	<0.940	<0.913	<1.09	<1.12
3,3'-Dichlorobenzidine	mg/kg	<1.81	--	<2.18	<1.84	<2.00	<2.21	<2.17	<2.03	<2.05	<1.91	<1.82	<1.91	<2.53	<2.74	<2.57	<2.18	<2.19	<2.19	<2.05	<1.61	<1.88	<1.83	<2.17	<2.25
3+4-Methylphenol	mg/kg	<1.81	--	<2.18	<1.84	<2.00	<2.21	<2.17	<2.03	<2.05	<1.91	<1.82	<1.91	<2.53	<2.74	<2.57	<2.18	<2.19	<2.19	<2.05	<1.61	<1.88	<1.83	<2.17	<2.25
4-Bromophenyl-phenylether	mg/kg	<0.905	--	<1.09	<0.921	<0.997	<1.10	<1.08	<1.01	<1.02	<0.955	<0.908	<0.953	<1.27	<1.37	<1.28	<1.09	<1.10	<1.09	<1.02	<0.805	<0.940	<0.913	<1.09	<1.12
4-Chloroaniline	mg/kg	<1.81	--	<2.18	<1.84	<2.00	<2.21	<2.17	<2.03	<2.05	<1.91	<1.82	<1.91	<2.53	<2.74	<2.57	<2.18	<2.19	<2.19	<2.05	<1.61	<1.88	<1.83	<2.17	<2.25
4-Nitrophenol	mg/kg	<4.54	--	<5.47	<4.62	<5.00	<5.53	<5.43	<5.09	<5.13	<4.79	<4.55	<4.78	<6.34	<6.86	<6.43	<5.47	<5.49	<5.47	<5.13	<4.03	<4.72	<4.58	<5.44	<5.63
Acenaphthene	mg/kg	<0.905	--	<1.09	<0.921	<0.997	<1.10	<1.08	<1.01	<1.02	<0.955	<0.908	<0.953	<1.27	<1.37	<1.28	<1.09	<1.10	<1.09	<1.02	<0.805	2.59	<0.913	<1.09	<1.12
Acenaphthylene	mg/kg	<0.905	--	<1.09	<0.921	<0.997	<1.10	<1.08	<1.01	<1.02	<0.955	<0.908	<0.953	<1.27	<1.37	<1.28	<1.09	<1.10	<1.09	<1.02	<0.805	<0.940	<0.913	<1.09	<1.12
Acetophenone	mg/kg	<1.81	--	<2.18	<1.84	<2.00	<2.21	<2.17	<2.03	<2.05	<1.91	<1.82	<1.91	<2.53	<2.74	<2.57	<2.18	<2.19	<2.19	<2.05	<1.61	<1.88	<1.83	<2.17	<2.25
Aniline	mg/kg	<4.54	--	<5.47	<4.62	<5.00	<5.53	<5.43	<5.09	<5.13	<4.79	<4.55	<4.78	<6.34	<6.86	<6.43	<5.47	<5.49	<5.47	<5.13	<4.03	<4.72	<4.58	<5.44	<5.63
Anthracene	mg/kg	<0.905	--	<1.09	<0.921	<0.997	<1.10	<1.08	<1.01	<1.02	<0.955	<0.908	<0.953	1.37	<1.37	<1.28	<1.09	<1.10	<1.09	<1.02	<0.805	4.33	<0.913	<1.09	<1.12
Azobenzene	mg/kg	<0.905	--	<1.09	<0.921	<0.997	<1.10	<1.08	<1.01	<1.02	<0.955	<0.908	<0.953	<1.27	<1.37	<1.28	<1.09	<1.10	<1.09	<1.02	<0.805	<0.940	<0.913	<1.09	<1.12
Benzo(a)anthracene	mg/kg	<0.905	--	<1.09	1.46	<0.997	<1.10	<1.08	<1.01	<1.02	<0.955	<0.908	<0.953	1.75	<1.37	<1.28	<1.09	<1.10	<1.09	<1.02	1.09	10.4	1.02	<1.09	<1.12
Benzo(a)pyrene	mg/kg	<0.454	--	<0.547	1.25	<0.500	<0.553	<0.543	<0.509	<0.513	<0.479	<0.455	<0.478	1.59	<0.686	<0.643	<0.547	<0.549	<0.547	<0.513	0.849	8.96	0.836	<0.544	<0.563
Benzo(b)fluoranthene	mg/kg	<0.905	--	<1.09	1.52	<0.997	<1.10	<1.08	<1.01	<1.02	<0.955	<0.908	<0.953	1.72	<1.37	<1.28	<1.09	<1.10	<1.09	<1.02	1.1	11.7	1	<1.09	<1.12
Benzo(g,h,i)perylene	mg/kg	<0.905	--	<1.09	1.01	<0.997	<1.10	<1.08	<1.01	<1.02	<0.955	<0.908	<0.953	<1.27	<1.37	<1.28	<1.09	<1.10	<1.09	<1.02	<0.805	3.04	<0.913	<1.09	<1.12
Benzo(k)fluoranthene	mg/kg	<0.905	--	<1.09	<0.921	<0.997	<1.10	<1.08	<1.01	<1.02	<0.955	<0.908	<0.953	<1.27	<1.37	<1.28	<1.09	<1.10	<1.09	<1.02	<0.805	4.17	<0.913	<1.09	<1.12
bis(2-Chloroethoxy)methane	mg/kg	<0.905	--	<1.09	<0.921	<0.997	<1.10	<1.08	<1.01	<1.02	<0.955	<0.908	<0.953	<1.27	<1.37	<1.28	<1.09	<1.10	<1.09	<1.02	<0.805	<0.940	<0.913	<1.09	<1.12
bis(2-Chloroethyl)ether	mg/kg	<0.454	--	<0.547	<0.462	<0.500	<0.553	<0.543	<0.509	<0.513	<0.479	<0.455	<0.478	<0.634	<0.686	<0.643	<0.547	<0.549	<0.547	<0.513	<0.403	<0.472	<0.458	<0.544	<0.563
bis(2-chloroisopropyl)Ether	mg/kg	<0.454	--	<0.547	<0.462	<0.500	<0.553	<0.543	<0.509	<0.513	<0.479	<0.455	<0.478	<0.634	<0.686	<0.643	<0.547	<0.549	<0.547	<0.513	<0.403	<0.472	<0.458	<0.544	<0.563
bis(2-Ethylhexyl)phthalate	mg/kg	<0.905	--	3.46	2.12	1.06	<1.10	<1.08	<1.01	<1.02	<0.955	<0.908	<0.953	<1.27	<1.37	<1.28	<1.09	<1.10	<1.09	<1.02	<0.805	1.39	1.22	<1.09	<1.12
Butylbenzylphthalate	mg/kg	<0.905	--	<1.09	<0.921	<0.997	<1.10	<1.08	<1.01	<1.02	<0.955	<0.908	<0.953	<1.27	<1.37	<1.28	<1.09	<1.10	<1.09	<1.02	<0.805	<0.940	1.92	<1.09	<1.12
Chrysene	mg/kg	<0.454	--	<0.547	1.76	<0.500	<0.553	<0.543	<0.509	<0.513	<0.479	<0.455	0.496	1.85	<0.686	<0.643	<0.547	<0.549	<0.547	<0.513	1.05	9.91	0.986	<0.544	<0.563
Dibenzo(a,h)Anthracene	mg/kg	<0.454	--	<0.547	<0.462	<0.500	<0.553	<0.543	<0.509	<0.513	<0.479	<0.455	<0.478	<0.634	<0.686	<0.643	<0.547	<0.549	<0.547	<0.513	<0.403	1.69	<0.458	<0.544	<0.563
Dibenzofuran	mg/kg	<0.905	--	<1.09	<0.921	<0.997	<1.10	<1.08	<1.01	<1.02	<0.955	<0.908	<0.953	<1.27	<1.37	<1.28	<1.09	<1.10	<1.09	<1.02	<0.805	1.59	<0.913	<1.09	<1.12
Diethylphthalate	mg/kg	<0.905	--	<1.09	<0.921	<0.997	<1.10	<1.08	<1.01	<1.02	<0.955	<0.908	<0.953	<1.27	<1.37	<1.28	<1.09	<1.10	<1.09	<1.02	<0.805	<0.940	<0.913	<1.09	<1.12
Dimethylphthalate	mg/kg	<0.905	--	<1.09	<0.921	<0.997	<1.10	<1.08	<1.01	<1.02	<0.955	<0.908	<0.953	<1.27	<1.37	<1.28	<1.09	<1.10	<1.09	<1.02	<0.805	<0.940	<0.913	<1.09	<1.12
Di-n-butylphthalate	mg/kg	<0.905	--	<1.09	<0.921	<0.997	<1.10	<1.08	<1.01	<1.02	<0.955	<0.908	<0.953	<1.27	<1.37	<1.28	<1.09	<1.10	<1.09	<1.02	<0.805	<0.940	<0.913	<1.09	<1.12
Di-n-octylphthalate	mg/kg	<0.905	--	<1.09	<0.921	<0.997	<1.10	<1.08	<1.01	<1.02	<0.955	<0.908	<0.953	<1.27	<1.37	<1.28	<1.09	<1.10	<1.09	<1.02	<0.805	<0.940	<0.913	<1.09	<1.12
Fluoranthene	mg/kg	<0.905	--	<1.09	3.19	<0.997	<1.10	<1.08	<1.01	<1.02	<0.955	<0.908	1.1	4.31	<1.37	<1.28	<1.09	<1.10	<1.09	<1.02	2.45	25.5	2.25	<1.09	<1.12
Fluorene	mg/kg	<0.905	--	<1.09	<0.921	<0.997	<1.10	<1.08	<1.01	<1.02	<0.955	<0.908	<0.953	<1.27	<1.37	<1.28	<1.09	<1.10	<1.09	<1.02	<0.805	2.44	<0.913	<1.09	<1.12
Hexachlorobenzene	mg/kg	<0.454	--	<0.547	<0.462	<0.500	<0.553	<0.543	<0.509	<0.513	<0.479	<0.455	<0.478	<0.634	<0.686	<0.643	<0.547	<0.549	<0.547	<0.513	<0.403	<0.472	<0.458	<0.544	<0.563
Hexachlorobutadiene	mg/kg	<0.905	--	<1.09	<0.921	<0.997	<1.10	<1.08	<1.01	<1.02	<0.955	<0.908	<0.953	<1.27	<1.37	<1.28	<1.09	<1.10	<1.09	<1.02	<0.805	<0.940	<0.913	<1.09	<1.12
Hexachloroethane	mg/kg	<0.905	--	<1.09	<0.921	<0.997	<1.10	<1.08	<1.01	<1.02	<0.955	<0.908	<0.953	<1.27	<1.37	<1.28	<1.09	<1.10	<1.09	<1.02	<0.805	<0.940	<0.913	<1.09	<1.12
Indeno(1,2,3-cd)Pyrene	mg/kg	<0.905	--	<1.09	<0.921	<0.997	<1.10	<1.08	<1.01	<1.02	<0.955	<0.908	<0.953	<1.27	<1.37	<1.28	<1.09	<1.10	<1.09	<1.02	<0.805	3.16	<0.913	<1.09	<1.12
Isophorone	mg/kg	<0.905	--	<1.09	<0.921	<0.997	<1.10	<1.08	<1.01	<1.02	<0.955	<0.908	<0.953	<1.27	<1.37	<1.28	<1.09	<1.10	<1.09	<1.02	<0.805	<0.940	<0.913	<1.09	<1.12
Naphthalene	mg/kg	<0.905	--	<1.09	<0.921	<0.997	<1.10	<1.08	<1.01	<1.02	<0.955	<0.908	<0.953	<1.27	<1.37	<1.28	<1.09	<1.10	<1.09	<1.02	<0.805	<0.940	<0.913	<1.09	<1.12
Nitrobenzene	mg/kg	<0.905	--	<1.09	<0.921	<0.997	<1.10	<1.08	<1.01	<1.02	<0.955	<0.908	<0.953	<1.27	<1.37	<1.28	<1.09	<1.10	<1.09	<1.02	<0.805	<0.940	<0.913	<1.09	<1.12
N-Nitrosodimethylamine	mg/kg	<0.905	--	<1.09	<0.921	<0.997	<1.10	<1.08	<1.01	<1.02	<0.955	<0.908	<0.953	<1.27	<1.37	<1.28	<1.09	<1.10	<1.09	<1.02	<0.805	<0.940	<0.913	<1.09	<1.12
Pentachlorophenol	mg/kg	<4.54	--	<5.47	<4.62	<5.00	<5.53	<5.43	<5.09	<5.13	<4.79	<4.55	<4.78	<6.34	<6.86	<6.43	<5.47	<5.49	<5.47	<5.13	<4.03	<4.72	<4.58	<5.44	<5.63
Phenanthrene	mg/kg	<0.905	--	<1.09	2.84	<0.997	<1.10	<1.08	<1.01	<1.02	<0.955	<0.908	<0.953	5.13	<1.37	<1.28	<1.09	<1.10	<1.09	<1.02	1.5	16.3	1.69	<1.09	<1.12
Phenol	mg/kg	<0.905	--	<1.09	<0.921	<0.997	<1.10	<1.08	<1.01	<1.02	<0.955	<0.908	<0.953	<1.27	<1.37	<1.28	<1.09	<1.10	<1.09	<1.02	<0.805	<0.940	<0.913	<1.09	<1.12
Pyrene	mg/kg	<0.905	--	<1.09	2.91	<0.997	<1.10	<1.08	<1.01	<1.02	<0.955	<0.908	<0.953	3.3	<1.37	<1.28	<1.09	<1.10	<1.09	<1.02	2.06	17.3	1.74	<1.09	<1.12
Total SVOCs	mg/kg	ND	--	3.46	18.06	1.06	ND	ND	ND	ND	ND	ND	1.596	21.02	ND	ND	ND	ND	ND	ND	10.099	124.47	12.662	ND	ND
Classic Chemistry																									
Corrosivity (pH)	S.U.	8.58	--	8.29	11	7.74	7.48	7.48	7.58	7.91	7.89	8.9	5.08	6.18	4.67	5.79	6.9	7.17	7.38	7.24	8.83	8.99	9.23	5.68	6.04
Conductivity	umhos/cm	476	--	1560	1350	974	1560	2700	1740	4150	4070	182	2570	823	1220	1890	1560	2450	2790	2770	451	1060	2520	1320	1840
Flashpoint	°F	>200	--	>200	>200	--	--	--	--	--	--	>200	>200	>200	--	--	--	--	--	--	>200	>200	>200	--	--
Reactive Cyanide	mg/kg	<2.0	--	<2.0	<2.0	--	--	--	--	--	--	<2.0	<2.0	<2.0	--	--	--	--	--	--	<2.0	<2.0	<2.0	--	--
Reactive Sulfide	mg/kg	<2.0	--	<2.0	<2.0	--	--	--	--	--	--	<2.0	<2.0	<2.0	--	--	--	--	--	--	<2.0	<2.0	<2.0	--	--

Table 1
Soil Precharacterization Data

Wynn Resort Casino
Everett, Massachusetts

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	C24 C24S09 1412409 Natural Organics 19 - 21 12/18/2014	C24 C24S10 1412409 Natural Organics 24 - 26 12/18/2014	C24 C24S11 1412409 Natural Organics 29 - 31 12/18/2014	C24 C24S12 1412409 Natural Organics 34 - 36 12/18/2014	C24 C24S13 1412409 Natural Organics 39 - 41 12/18/2014	D01 D01S01 1503115 Fill 4 - 6 3/6/2015	D01 GZ006S01S02 1410725 Fill 0 - 6 10/29/2014	D01 GZ006S04S07 1410725 Fill 6 - 16 10/29/2014	D01 GZ006S08S10 1410725 Natural Clay 19 - 31 10/29/2014	D01 GZ006S11S13 1410753 Natural Clay 34 - 46 10/29/2014	D02 D02S01S02A 1502334 Fill 0 - 3.3 2/23/2015	D02 D02S02B504A 1502334 Fill 3.3 - 6.6 2/23/2015	D02 D02S04B505 1502334 Natural Organics 6.6 - 10 2/23/2015	D02 D02S06 1502334 Natural Clay 14 - 16 2/23/2015	D02 D02S07 1502334 Natural Clay 19 - 21 2/23/2015	D02 D02S08 1502334 Natural Clay 24 - 26 2/23/2015	D02 D02S09 1502334 Natural Clay 29 - 31 2/23/2015	D02 D02S10S11 1502334 Natural Clay 34 - 38 2/23/2015	D03 D03S01S02A 1502371 Fill 0 - 3.3 2/25/2015	D03 D03S02B503 1502393 Fill 3.3 - 6 2/26/2015	D03 D03S05 1502393 Natural Organics 8 - 10 2/26/2015	D03 D03S06 1502393 Natural Clay 14 - 16 2/26/2015	D03 D03S07 1502393 Natural Clay 19 - 21 2/26/2015	D03 D03S08 1502393 Natural Clay 24 - 26 2/26/2015
Preliminary Disposal Facility Category		MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	Uncontaminated	Hazardous Material Type A	TSCA Material	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A
RCRA 8 Metals	**Units**																								
Arsenic	mg/kg	8.71	8.19	5.96	4.17	7.23	10.6	142	34.1	11.4	7.72	<5.73	95.1	29.7	12.7	<8.20	15.1	8.84	12.4	15	32.7	12.4	18	11.2	13.8
Barium	mg/kg	24.4	25.8	16.7	13.3	19.7	52.1	146	79.9	80.1	43.3	33.3	165	10.2	130	142	143	109	126	45.6	148	74.2	127	163	97.1
Cadmium	mg/kg	<0.64	<0.71	<0.62	<0.63	<0.65	<1.36	1.87	3.62	<0.48	<0.50	<1.15	<1.48	<1.32	<1.45	<1.64	<1.85	<1.60	<1.66	<1.42	7.66	<1.54	<1.37	<1.75	<1.54
Chromium	mg/kg	23.3	24.2	14.9	12	15.7	24.1	24.9	39.6	37.9	23.6	17.5	78.1	7.04	60.3	64.2	66.7	55.6	60.6	40.8	25.4	46.9	76.5	69	59
Lead	mg/kg	7.87	7.32	<6.23	<6.30	<6.54	151	2720	66.9	11.6	8.34	<11.5	1860	84.4	15.7	18.5	20.9	16.6	18.6	170	651	41.9	24	23.5	19.7
Selenium	mg/kg	<12.9	<14.2	<12.5	<12.6	<13.1	<6.78	9.07	<3.15	<2.42	<15.5	<5.73	14	<6.60	<7.24	<8.20	<9.24	<8.01	<8.28	<7.09	<6.70	<7.70	<6.86	<8.75	<7.72
Silver	mg/kg	<0.64	<0.71	<0.62	<0.63	<0.65	<1.36	2.25	<0.63	<0.48	<0.50	<1.15	1.9	<1.32	<1.45	<1.64	<1.85	<1.60	<1.66	<1.42	<1.34	<1.54	<1.37	<1.75	<1.54
Mercury	mg/kg	<0.046	<0.047	<0.039	<0.038	<0.046	0.552	5.93	0.207	<0.039	<0.041	0.299	30.9	0.494	<0.039	<0.035	<0.041	<0.037	<0.030	1.15	4.39	14	<0.039	<0.039	<0.039
Metals by Toxicity Characteristic Leaching Procedure (TCLP)																									
Arsenic	mg/L	--	--	--	--	--	--	0.056	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead	mg/L	--	--	--	--	--	<0.500	3.47	--	--	--	--	20.4	--	--	--	--	--	--	0.204	0.596	--	--	--	--
Selenium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--	--	<0.00050	--	--	--	--	0.00083	--	--	--	--	--	--	--	<0.00050	<0.00050	--	--	--
Herbicides																									
2,4,5-T	mg/kg	--	--	--	--	--	<0.092	<0.078	<0.068	<0.063	<0.060	<0.056	<0.056	<0.067	--	--	--	--	--	<0.052	<0.054	--	--	--	--
2,4-D	mg/kg	--	--	--	--	--	<0.46	<0.078	<0.068	<0.063	<0.060	<0.056	<0.056	<0.067	--	--	--	--	--	<0.052	<0.054	--	--	--	--
2,4-DB	mg/kg	--	--	--	--	--	<0.035	<0.078	<0.068	<0.063	<0.060	<0.056	<0.056	<0.067	--	--	--	--	--	<0.052	<0.054	--	--	--	--
Dalapon	mg/kg	--	--	--	--	--	<2.8	<0.94	<0.82	<0.75	<0.72	<0.68	<0.67	<0.81	--	--	--	--	--	<0.63	<0.65	--	--	--	--
Dicamba	mg/kg	--	--	--	--	--	<0.14	<0.078	<0.068	<0.063	<0.060	<0.056	<0.056	<0.067	--	--	--	--	--	<0.052	<0.054	--	--	--	--
Dichlorprop	mg/kg	--	--	--	--	--	<0.30	<0.078	<0.068	<0.063	<0.060	<0.056	<0.056	<0.067	--	--	--	--	--	<0.052	<0.054	--	--	--	--
Dinoseb	mg/kg	--	--	--	--	--	<0.46	<0.47	<0.41	<0.38	<0.36	<0.34	<0.34	<0.40	--	--	--	--	--	<0.31	<0.33	--	--	--	--
MCPA	mg/kg	--	--	--	--	--	<120	<19	<16	<15	<14	<14	<13	<16	--	--	--	--	--	<13	<13	--	--	--	--
MCPP	mg/kg	--	--	--	--	--	<120	<19	<16	<15	<14	<14	<13	<16	--	--	--	--	--	<13	<13	--	--	--	--
Silvex (2,4,5-TP)	mg/kg	--	--	--	--	--	<0.092	<0.078	<0.068	<0.063	<0.060	<0.056	<0.056	<0.067	--	--	--	--	--	<0.052	<0.054	--	--	--	--
Pesticides																									
4,4'-DDD	mg/kg	--	--	--	--	--	<0.019	<0.0054	<0.0024	<0.0021	<0.0021	<0.0020	<0.0020	<0.0047	--	--	--	--	--	<0.0093	<0.0094	--	--	--	--
4,4'-DDE	mg/kg	--	--	--	--	--	<0.019	<0.0054	<0.0024	<0.0021	<0.0021	<0.0020	<0.0020	<0.0047	--	--	--	--	--	<0.0093	<0.0094	--	--	--	--
4,4'-DDT	mg/kg	--	--	--	--	--	<0.019	<0.0054	<0.0024	<0.0021	<0.0021	<0.0020	<0.0020	<0.0047	--	--	--	--	--	<0.0093	<0.0094	--	--	--	--
Aldrin	mg/kg	--	--	--	--	--	<0.019	<0.0054	<0.0024	<0.0021	<0.0021	<0.0020	<0.0020	<0.0047	--	--	--	--	--	<0.0093	<0.0094	--	--	--	--
alpha-BHC	mg/kg	--	--	--	--	--	<0.019	<0.0054	<0.0024	<0.0021	<0.0021	<0.0020	<0.0020	<0.0047	--	--	--	--	--	<0.0093	<0.0094	--	--	--	--
beta-BHC	mg/kg	--	--	--	--	--	<0.019	<0.0054	<0.0024	<0.0021	<0.0021	<0.0020	<0.0020	<0.0047	--	--	--	--	--	<0.0093	<0.0094	--	--	--	--
Chlordane (technical)	mg/kg	--	--	--	--	--	<0.19	<0.054	<0.024	<0.021	<0.021	<0.020	<0.020	<0.047	--	--	--	--	--	<0.093	<0.094	--	--	--	--
delta-BHC	mg/kg	--	--	--	--	--	<0.019	<0.0054	<0.0024	<0.0021	<0.0021	<0.0020	<0.0020	<0.0047	--	--	--	--	--	<0.0093	<0.0094	--	--	--	--
Dieldrin	mg/kg	--	--	--	--	--	<0.019	<0.0054	<0.0024	<0.0021	<0.0021	<0.0020	<0.0020	<0.0047	--	--	--	--	--	<0.0093	<0.0094	--	--	--	--
Endosulfan I	mg/kg	--	--	--	--	--	<0.019	<0.0054	<0.0024	<0.0021	<0.0021	<0.0020	<0.0020	<0.0047	--	--	--	--	--	<0.0093	<0.0094	--	--	--	--
Endosulfan II	mg/kg	--	--	--	--	--	<0.019	<0.0054	<0.0024	<0.0021	<0.0021	<0.0020	<0.0020	<0.0047	--	--	--	--	--	<0.0093	<0.0094	--	--	--	--
Endosulfan sulfate	mg/kg	--	--	--	--	--	<0.019	<0.0054	<0.0024	<0.0021	<0.0021	<0.0020	<0.0020	<0.0047	--	--	--	--	--	<0.0093	<0.0094	--	--	--	--
Endrin	mg/kg	--	--	--	--	--	<0.019	<0.0054	<0.0024	<0.0021	<0.0021	<0.0020	<0.0020	<0.0047	--	--	--	--	--	<0.0093	<0.0094	--	--	--	--
Endrin ketone	mg/kg	--	--	--	--	--	<0.019	<0.0054	<0.0024	<0.0021	<0.0021	<0.0020	<0.0020	<0.0047	--	--	--	--	--	<0.0093	<0.0094	--	--	--	--
gamma-BHC (Lindane)	mg/kg	--	--	--	--	--	<0.019	<0.0054	<0.0024	<0.0021	<0.0021	<0.0020	<0.0020	<0.0047	--	--	--	--	--	<0.0093	<0.0094	--	--	--	--
Heptachlor	mg/kg	--	--	--	--	--	<0.019	<0.0054	<0.0024	<0.0021	<0.0021	<0.0020	<0.0020	<0.0047	--	--	--	--	--	<0.0093	<0.0094	--	--	--	--
Heptachlor epoxide	mg/kg	--	--	--	--	--	<0.019	<0.0054	<0.0024	<0.0021	<0.0021	<0.0020	<0.0020	<0.0047	--	--	--	--	--	<0.0093	<0.0094	--	--	--	--
Hexachlorobenzene	mg/kg	--	--	--	--	--	<0.019	<0.0054	<0.0024	<0.0021	<0.0021	<0.0020	<0.0020	<0.0047	--	--	--	--	--	<0.0093	<0.0094	--	--	--	--
Methoxychlor	mg/kg	--	--	--	--	--	<0.019	<0.0054	<0.0024	<0.0021	<0.0021	<0.0020	<0.0020	<0.0047	--	--	--	--	--	<0.0093	<0.0094	--	--	--	--
Polychlorinated Biphenyls																									
Aroclor 1016	mg/kg	<0.180	<0.163	<0.162	<0.148	<0.167	<0.139	<0.223	<0.252	<0.257	<0.216	<0.132	<7.32	<0.146	<0.148	<0.150	<0.163	<0.153	<0.149	<0.134	<0.130	<0.146	<0.161	<0.160	<0.164
Aroclor 1221	mg/kg	<0.180	<0.163	<0.162	<0.148	<0.167	<0.139	<0.223	<0.252	<0.257	<0.216	<0.132	<7.32	<0.146	<0.148	<0.150	<0.163	<0.153	<0.149	<0.134	<0.130	<0.146	<0.161	<0.160	<0.164
Aroclor 1232	mg/kg	<0.180	<0.163	<0.162	<0.148	<0.167	<0.139	<0.223	<0.252	<0.257	<0.216	<0.132	<7.32	<0.146	<0.148	<0.150	<0.163	<0.153	<0.149	<0.134	<0.130	<0.146	<0.161	<0.160	<0.164
Aroclor 1242	mg/kg	<0.180	<0.163	<0.162	<0.148	<0.167	<0.139	<0.223	<0.252	<0.257	<0.216	<0.132	59.2	1.76	<0.148	<0.150	<0.163	<0.153	<0.149	<0.134	<0.130	<0.146	<0.161	<0.160	<0.164
Aroclor 1248	mg/kg	<0.180	<0.163	<0.162	<0.148	<0.167	<0.139	3.12	<0.252	<0.257	<0.216	<0.132	<7.32	<0.146	<0.148	<0.150	<0.163	<0.153	<0.149	<0.134	<0.130	<0.146	<0.161	<0.160	<0.164
Aroclor 1254	mg/kg	<0.180	<0.163	<0.162	<0.148	<0.167	<0.139	3.12	<0.252	<0.257	<0.216	<0.132	<7.32	<0.146	<0.148	<0.150	<0.163	<0.153	<0.149	0.152	0.975	<0.146	<0.161	<0.160	<0.164
Aroclor 1260	mg/kg	<0.180	<0.163	<0.162	<0.148	<0.167	<0.139	1.01	<0.252	<0.257	<0.216	<0.132	<7.32	<0.146	<0.148	<0.150	<0.163	<0.153	<0.149	<0.134	0.249	<0.146	<0.161	<0.160	<0.164
Aroclor 1262	mg/kg	<0.180	<0.163	<0.162	<0.148	<0.167	<0.139	<0.223	<0.252	<0.257	<0.216	<0.132	<7.32	<0.146	<0.148	<0.150	<0.163	<0.153	<0.149	<0.134	<0.130	<0.146	<0.161	<0.160	<0.164
Aroclor 1268	mg/kg	<0.180	<0.163	<0.162	<0.148	<0.167	<0.139	<0.223	<0.252	<0.257	<0.216	<0.132	<7.32	<0.146	<0.148	<0.150	<0.163	<0.153	<0.149	<0.134	<0.130	<0.146	<0.161	<0.160	<0.164
Total PCBs	mg/kg	ND	ND	ND	ND	ND	ND	7.25	ND	ND	ND	ND	59.2	1.76	ND	ND	ND	ND	ND	0.152	1.224	ND	ND	ND	ND
Total Petroleum Hydrocarbons	mg/kg	<53.7	<59.1	<47.9	<46.7	<57.3	381	314	<51.4	<53.4	<49.4	761	210	71.4	<49.3	<51.8	<56.9	<47.9	<52.9	310	885	<46.5	<50.6	<52.1	<51.7
Volatile Organic Compounds (VOCs)																									
1,1,1,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	<0.109	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	mg/kg	--	--	--	--	--	--	<0.0547	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	<0.0547	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	mg/kg	--	--	--	--	--	--	<0.0547	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	mg/kg	--	--	--	--	--	--	<0.0547	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	mg/kg	--	--	--	--	--	--	<0.0547	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloropropene	mg/kg	--	--	--	--	--	--	<0.0547	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	mg/kg	--	--	--	--	--	--	<0.0547	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	mg/kg	--	--	--	--	--	--	<0.0547	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	mg/kg	--	--	--	--	--	--	<0.0547	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	mg/kg	--	--	--	--	--	--	<0.0547	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-Chloropropane	mg/kg	--	--	--	--	--	--	<0.219	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	mg/kg	--	--	--	--	--	--	<0.0547	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	mg/kg	--	--	--	--	--	--	<0.0547	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	mg/kg	--	--	--	--	--	--	9.97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	mg/kg	--	--	--	--	--	--	0.179	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	mg/kg	--	--	--	--	--	--	<0.0547	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	mg/kg	--	--	--	--	--	--	<0.0547	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichloropropane	mg/kg	--	--	--	--	--	--	<0.0547	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg	--	--	--	--	--	--	<0.0547	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane - Screen	mg/kg	--	--	--	--	--	--	<5.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,2-Dichloropropane	mg/kg	--	--	--	--	--	--	<0.109	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Butanone	mg/kg	--	--	--	--	--	--	<0.219	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chlorotoluene	mg/kg	--	--	--	--	--	--	<0.0547	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	mg/kg	--	--	--	--	--	--	<0.219	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Chlorotoluene	mg/kg	--	--	--	--	--	--	<0.0547	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Isopropyltoluene	mg/kg	--	--	--	--	--	--	<0.0547	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-Pentanone	mg/kg	--	--	--	--	--	--	<0.219	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	mg/kg	--	--	--	--	--	--	<0.219	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzene	mg/kg	--	--	--	--	--	--	0.0678	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromobenzene	mg/kg	--	--	--	--	--	--	<0.0547	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	mg/kg	--	--	--	--	--	--	<0.0547	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	mg/kg	--	--	--	--	--	--	<0.0547	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	mg/kg	--	--	--	--	--	--	<0.0547	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	mg/kg	--	--	--	--	--	--	<0.109	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Disulfide	mg/kg	--	--	--	--	--	--	<0.0547	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	mg/kg	--	--	--	--	--	--	<0.0547	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Analyte	Precharacterization Cell	C24	C24	C24	C24	C24	D01	D01	D01	D01	D01	D02	D02	D02	D02	D02	D02	D02	D03	D03	D03	D03	D03	D03
	Sample ID	C24S09	C24S10	C24S11	C24S12	C24S13	D01S01	GZ006S01S02	GZ006S04S07	GZ006S08S10	GZ006S11S13	D02S01S02A	D02S04B504A	D02S04BS05	D02S06	D02S07	D02S08	D02S09	D02S10S11	D03S01S02A	D03S02B503	D03S05	D03S06	D03S07	D03S08
	Laboratory Work Order	1412409	1412409	1412409	1412409	1412409	1503115	1410725	1410725	1410725	1410753	1502334	1502334	1502334	1502334	1502334	1502334	1502334	1502334	1502371	1502393	1502393	1502393	1502393	1502393
	Soil Distinction	Natural	Natural	Natural	Natural	Natural	Fill	Fill	Fill	Natural	Natural	Fill	Fill	Natural	Natural	Natural	Natural	Natural	Natural	Fill	Fill	Natural	Natural	Natural	Natural
	Soil Type	Organics	Organics	Organics	Organics	Organics				Clay	Clay			Organics	Clay	Clay	Clay	Clay	Clay			Organics	Clay	Clay	Clay
	Depth Interval (ft.)	19 - 21	24 - 26	29 - 31	34 - 36	39 - 41	4 - 6	0 - 6	6 - 16	19 - 31	34 - 46	0 - 3.3	3.3 - 6.6	6.6 - 10	14 - 16	19 - 21	24 - 26	29 - 31	34 - 38	0 - 3.3	3.3 - 6	8 - 10	14 - 16	19 - 21	24 - 26
	Sampling Date	12/18/2014	12/18/2014	12/18/2014	12/18/2014	12/18/2014	3/6/2015	10/29/2014	10/29/2014	10/29/2014	10/29/2014	2/23/2015	2/23/2015	2/23/2015	2/23/2015	2/23/2015	2/23/2015	2/23/2015	2/23/2015	2/25/2015	2/26/2015	2/26/2015	2/26/2015	2/26/2015	2/26/2015
Preliminary Disposal Facility Category		MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	Uncontaminated	Hazardous Material Type A	TSCA Material	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A
Chlorobenzene	mg/kg	--	--	--	--	--	--	<0.0547	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	mg/kg	--	--	--	--	--	--	<0.109	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	mg/kg	--	--	--	--	--	--	0.141	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	mg/kg	--	--	--	--	--	--	<0.109	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	<0.0547	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	<0.0547	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	mg/kg	--	--	--	--	--	--	<0.0547	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromomethane	mg/kg	--	--	--	--	--	--	<0.0547	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	mg/kg	--	--	--	--	--	--	<0.0547	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Diethyl Ether	mg/kg	--	--	--	--	--	--	<0.0547	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Di-isopropyl ether	mg/kg	--	--	--	--	--	--	<0.0547	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethyl tertiary-butyl ether	mg/kg	--	--	--	--	--	--	<0.0547	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	mg/kg	--	--	--	--	--	--	<0.0547	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	mg/kg	--	--	--	--	--	--	<0.0547	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene	mg/kg	--	--	--	--	--	--	<0.0547	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	mg/kg	--	--	--	--	--	--	<0.0547	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride	mg/kg	--	--	--	--	--	--	<0.219	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	mg/kg	--	--	--	--	--	--	0.162	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	mg/kg	--	--	--	--	--	--	<0.0547	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	mg/kg	--	--	--	--	--	--	<0.0547	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	mg/kg	--	--	--	--	--	--	<0.0547	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	mg/kg	--	--	--	--	--	--	<0.0547	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
tert-Butylbenzene	mg/kg	--	--	--	--	--	--	<0.0547	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tertiary-amyl methyl ether	mg/kg	--	--	--	--	--	--	<0.0547	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	mg/kg	--	--	--	--	--	--	<0.0547	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	mg/kg	--	--	--	--	--	--	<0.219	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	mg/kg	--	--	--	--	--	--	<0.0547	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	<0.0547	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	<0.0547	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene	mg/kg	--	--	--	--	--	--	2.73	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane	mg/kg	--	--	--	--	--	--	<0.0547	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	mg/kg	--	--	--	--	--	--	<0.0547	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene O	mg/kg	--	--	--	--	--	--	<0.0547	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene P,M	mg/kg	--	--	--	--	--	--	<0.109	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylenes (Total)	mg/kg	--	--	--	--	--	--	<0.109	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total VOCs	mg/kg	--	--	--	--	--	--	13.2498	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds - Low Level Analysis																									
1,1,1,2-Tetrachloroethane	mg/kg	<0.0050	<0.0051	<0.0042	<0.0040	<0.0051	<0.0037	--	<0.0070	<0.0040	<0.0033	<0.0052	<0.0063	<0.0044	<0.0045	<0.0046	<0.0041	<0.0039	<0.0047	<0.0046	<0.0040	<0.0038	<0.0042	<0.0051	<0.0043
1,1,1-Trichloroethane	mg/kg	<0.0050	<0.0051	<0.0042	<0.0040	<0.0051	<0.0037	--	<0.0070	<0.0040	<0.0033	<0.0052	<0.0063	<0.0044	<0.0045	<0.0046	<0.0041	<0.0039	<0.0047	<0.0046	<0.0040	<0.0038	<0.0042	<0.0051	<0.0043
1,1,2,2-Tetrachloroethane	mg/kg	<0.0020	<0.0020	<0.0017	<0.0016	<0.0020	<0.0015	--	<0.0028	<0.0016	<0.0013	<0.0021	<0.0025	<0.0018	<0.0018	<0.0018	<0.0017	<0.0016	<0.0019	<0.0018	<0.0016	<0.0015	<0.0017	<0.0020	<0.0017
1,1,2-Trichloroethane	mg/kg	<0.0050	<0.0051	<0.0042	<0.0040	<0.0051	<0.0037	--	<0.0070	<0.0040	<0.0033	<0.0052	<0.0063	<0.0044	<0.0045	<0.0046	<0.0041	<0.0039	<0.0047	<0.0046	<0.0040	<0.0038	<0.0042	<0.0051	<0.0043
1,1-Dichloroethane	mg/kg	<0.0050	<0.0051	<0.0042	<0.0040	<0.0051	<0.0037	--	<0.0070	<0.0040	<0.0033	<0.0052	<0.0063	<0.0044	<0.0045	<0.0046	<0.0041	<0.0039	<0.0047	<0.0046	<0.0040	<0.0038	<0.0042	<0.0051	<0.0043
1,1-Dichloroethene	mg/kg	<0.0050	<0.0051	<0.0042	<0.0040	<0.0051	<0.0037	--	<0.0070	<0.0040	<0.0033	<0.0052	<0.0063	<0.0044	<0.0045	<0.0046	<0.0041	<0.0039	<0.0047	<0.0046	<0.0040	<0.0038	<0.0042	<0.0051	<0.0043
1,1-Dichloropropene	mg/kg	<0.0050	<0.0051	<0.0042	<0.0040	<0.0051	<0.0037	--	<0.0070	<0.0040	<0.0033	<0.0052	<0.0063	<0.0044	<0.0045	<0.0046	<0.0041	<0.0039	<0.0047	<0.0046	<0.0040	<0.0038	<0.0042	<0.0051	<0.0043
1,2,3-Trichlorobenzene	mg/kg	<0.0050	<0.0051	<0.0042	<0.0040	<0.0051	<0.0037	--	<0.0070	<0.0040	<0.0033	<0.0052	<0.0063	<0.0044	<0.0045	<0.0046	<0.0041	<0.0039	<0.0047	<0.0046	<0.0040	<0.0038	<0.0042	<0.0051	<0.0043
1,2,3-Trichloropropane	mg/kg	<0.0050	<0.0051	<0.0042	<0.0040	<0.0051	<0.0037	--	<0.0070	<0.0040	<0.0033	<0.0052	<0.0063	<0.0044	<0.0045	<0.0046	<0.0041	<0.0039	<0.0047	<0.0046	<0.0040	<0.0038	<0.0042	<0.0051	<0.0043
1,2,4-Trichlorobenzene	mg/kg	<0.0050	<0.0051	<0.0042	<0.0040	<0.0051	<0.0037	--	<0.0070	<0.0040	<0.0033	<0.0052	<0.0063	<0.0044	<0.0045	<0.0046	<0.0041	<0.0039	<0.0047	<0.0046	<0.0040	<0.0038	<0.0042	<0.0051	<0.0043
1,2,4-Trimethylbenzene	mg/kg	<0.0050	<0.0051	<0.0042	<0.0040	<0.0051	<0.0037	--	<0.0070	<0.0040	<0.0033	<0.0052	<0.0063	<0.0044	<0.0045	<0.0046	<0.0041	<0.0039	<0.0047	<0.0046	<0.0040	<0.0038	<0.0042	<0.0051	<0.0043
1,2-Dibromo-3-Chloropropane	mg/kg	<0.0050	<0.0051	<0.0042	<0.0040	<0.0051	<0.0037	--	<0.0070	<0.0040	<0.0033	<0.0052	<0.0063	<0.0044	<0.0045	<0.0046	<0.0041	<0.0039	<0.0047	<0.0046	<0.0040	<0.0038	<0.0042	<0.0051	<0.0043
1,2-Dibromoethane	mg/kg	<0.0050	<0.0051	<0.0042	<0.0040	<0.0051	<0.0037	--	<0.0070	<0.0040	<0.0033	<0.0052	<0.0063	<0.0044	<0.0045	<0.0046	<0.0041	<0.0039	<0.0047	<0.0046	<0.0040	<0.0038	<0.0042	<0.0051	<0.0043
1,2-Dichlorobenzene	mg/kg	<0.0050	<0.0051	<0.0042	<0.0040	<0.0051	<0.0037	--	<0.0070	<0.0040	<0.0033	<0.0052	<0.0063	<0.0044	<0.0045	<0.0046	<0.0041	<0.0039	<0.0047	<0.0046	<0.0040	<0.0038	<0.0042	<0.0051	<0.0043
1,2-Dichloroethane	mg/kg	<0.0050	<0.0051	<0.0042	<0.0040	<0.0051	<0.0037	--	0.0296	<0.0040	<0.0033	<0.0052	<0.0063	<0.0044	<0.0045	<0.0046	<0.0041	<0.0039	<0.0047	<0.0046	<0.0040	<0.0038	<0.0042	<0.0051	<0.0043
1,2-Dichloropropane	mg/kg	<0.0050	<0.0051	<0.0042	<0.0040	<0.0051	<0.0037	--	<0.0070	<0.0040	<0.0033	<0.0052	<0.0063	<0.0044	<0.0045	<0.0046	<0.0041	<0.0039	<0.0047	<0.0046	<0.0040	<0.0038	<0.0042	<0.0051	<0.0043
1,3,5-Trimethylbenzene	mg/kg	<0.0050	<0.0051	<0.0042	<0.0040	<0.0051	<0.0037	--	<0.0070	<0.0040	<0.0033	<0.0052	<0.0063	<0.0044	<0.0045	<0.0046	<0.0041	<0.0039	<0.0047	<0.0046	<0.0040	<0.0038	<0.0042	<0.0051	<0.0043
1,3-Dichlorobenzene	mg/kg	<0.0050	<0.0051	<0.0042	<0.0040	<0.0051	<0.0037	--	<0.0070	<0.0040	<0.0033	<0.0052	<0.0063	<0.0044	<0.0045	<0.0046	<0.0041	<0.0039	<0.0047	<0.0046	<0.0040	<0.0038	<0.0042	<0.0051	<0.0043
1,3-Dichloropropane	mg/kg	<0.0050	<0.0051	<0.0042	<0.0040	<0.0051	<0.0037	--	<0.0070	<0.0040	<0.0033	<0.0052	<0.0063	<0.0044	<0.0045	<0.0046	<0.0041	<0.0039	<0.0047	<0.0046	<0.0040	<0.0038	<0.0042	<0.0051	<0.0043
1,4-Dichlorobenzene	mg/kg	<0.0050	<0.0051	<0.0042	<0.0040	<0.0051	<0.0037	--	<0.0070	<0.0040	<0.0033	<0.0052	<0.0063	<0.0044	<0.0045	<0.0046	<0.0041	<0.0039	<0.0047	<0.0046	<0.0040	<0.0038	<0.0042	<0.0051	<0.0043
1,4-Dioxane	mg/kg	<0.101	<0.102	<0.0843	<0.0806	<0.102	<0.0749	--	<0.139	<0.0804	<0.0668	<0.104	<0.126	<0.0877	<0.0905	<0.0910	<0.0828	<0.0782	<0.0936	<0.0922	<0.0803	<0.0756	<0.0849	<0.102	<0.0867
2,2-Dichloropropane	mg/kg	<0.0050	<0.0051	<0.0042	<0.0040	<0.0051	<0.0037	--	<0.0070	<0.0040	<0.0033	<0.0052	<0.0063	<0.0044	<0.0045	<0.0046	<0.0041	<0.0039	<0.0047	<0.0046	<0.0040	<0.0038	<0.0042	<0.0051	<0.0043
2-Butanone	mg/kg	<0.0101	0.013	<0.0084	<0.0081	<0.0102	<0.0075	--	<0.0139	<0.0080	<0.0067	<0.0104	<0.0126	<0.0088	<0.0090	<0.0091	<0.0083	<0.0078	<0.0094	<0.0092	<0.0080	<0.0076	<0.0085	<0.0102	<0.0087
2-Chlorotoluene	mg/kg	<0.0050	<0.0051	<0.0042	<0.0040	<0.0051	<0.0037	--	<0.0070	<0.0040	<0.0033	<0.0052	<0.0063	<0.0044	<0.0045	<0.0046	<0.0041	<0.0039	<0.0047	<0.0046	<0.0040	<0.0038	<0.0042	<0.0051	<0.0043
2-Hexanone	mg/kg	<0.0101	<0.0102	<0.0084	<0.0081	<0.0102	<0.0075	--	<0.0139	<0.0080	<0.0067	<0.0104	<0.0126	<0.0088	<0.0090	<0.0091	<0.0083	<0.0078	<0.0094	<0.0092	<0.0080	<0.0076	<0.0085	<0.0102	<0.0087
4-Chlorotoluene	mg/kg	<0.0050	<0.0051	<0.0042	<0.0040	<0.0051	<0.0037	--	<0.0070	<0.0040	<0.0033	<0.0052	<0.0063	<0.0044	<0.0045	<0.0046	<0.0041	<0.0039	<0.0047	<0.0046	<0.0040	<0.0038	<0.0042	<0.0051	<0.0043
4-Isopropyltoluene	mg/kg	<0.0050	<0.0051	<0.0042	<0.0040	<0.0051	<0.0037	--	<0.0070	<0.0040	<0.0033	<0.0052	<0.0063	<0.0044	<0.0045	<0.0046	<0.0041	<0.0039	<0.0047	<0.0046	<0.0040	<0.0038	<0.0042	<0.0051	<0.0043
4-Methyl-2-Pentanone	mg/kg	<0.0101	<0.0102	<0.0084	<0.0081	<0.0102	<0.0075	--	<0.0139	<0.0080	<0.0067	<0.0104	<0.0126	<0.0088	<0.0090	<0.0091	<0.0083	<0.0078	<0.0094	<0.0092	<0.0080	<0.0076	<0.0085	<0.0102	<0.0087
Acetone	mg/kg	0.0576	0.104	0.0391	0.0133	0.0291	0.0426	--	0.0693	<0.0080	<0.0067	0.0358	<0.0126	0.0382	<0.0090	<0.0091	<0.0083	<0.0078	<0.0094	<0.0092	<0.0080	<0.0076	<0.0085	<0.0102	<0.0087
Benzene	mg/kg	<0.0050	<0.0051	<0.0042	<0.0040	<0.0051	<0.0037	--	<0.0070	<0.0040	<0.0033	<0.0052	<0.0063	<0.0044	<0.0045	<0.0046	<0.0041	<0.0039	<0.0047	<0.0046	<0.0040	<0.0038	<0.0042	<0.0051	<0.0043
Bromobenzene	mg/kg	<0.0050	<0.0051	<0.0042	<0.0040	<0.0051	<0.0037	--	<0.0070	<0.0040	<0.0033	<0.0052	<0.0063	<0.0044	<0.0045	<0.0046	<0.0041	<0.0039	<0.0047	<0.0046	<0.0040	<0.0038	<0.0042	<0.0051	<0.0043
Bromochloromethane	mg/kg	<0.0050	<0.0051	<0.0042	<0.0040	<0.0051	<0.0037	--	<0.0070	<0.0040	<0.0033	<0.0052	<0.0063	<0.0044	<0.0045	<0.0046	<0.0041	<0.0039	<0.0047	<0.0046	<0.0040	<0.0038	<0.0042	<0.0051	<0.0043
Bromodichloromethane	mg/kg	<0.0050	<0.0051	<0.0042	<0.0040	<0.0051	<0.0037	--	<0.0070	<0.0040	<0.0033	<0.0052	<0.0063	<0.0044	<0.0045	<0.0046	<0.0041	<0.0039	<0.0047	<0.0046	<0.0040	<0.0038	<0.0042	<0.0051	<0.0043
Bromoform	mg/kg	<0.0050	<0.0051	<0.0042	<0.0040	<0.0051	<0.0037	--	<0.0070	<0.0040	<0.0033	<0.0052	<0.0063	<0.0044	<0.0045	<0.0046	<0.0041	<0.0039	<0.0047	<0.0046	<0.0040	<0.0038	<0.0042	<0.0051	<0.0043
Bromomethane	mg/kg	<0.0101	<0.0102	<0.0084	<0.0081	<0.0102	<0.0075	--	<0.0139	<0.0080	<0.0067	<0.0104	<0.0126	<0.0088	<0.0090	<0.0091	<0.0083	<0.0078	<0.0094	<0.0092	<0.0080	<0.0076	<0.0085	<0.0102	<0.0087
Carbon Disulfide	mg/kg	<0.0050	<0.0051	<0.0042	<0.0040	<0.0051	<0.0037	--	<0.0070	<0.0040	<0.0033	<0.0052	<0.0063	<0.0044	<0.0045	<0.0046	<0.0041	<0.0039	<0.0047	<0.0046	<0.0040	<0.0038	<0.0042	<0.0051	<0.0043
Carbon Tetrachloride	mg/kg	<0.0050	<0.0051	<0.0042	<0.0040	<0.0051	<0.0037	--	<0.0070	<0.0040	<0.0033	<0.0052	<0.0063	<0.0044	<0.0045	<0.0046	<0.0041	<0.0039	<0.0047	<0.0046	<0.0040	<0.0038	<0.0042	<0.0051	<0.0043
Chlorobenzene	mg/kg	<0.0050	<0.0051	<0.0042	<0.0040	<0.0051	<0.0037	--	<0.0070	<0.0040	<0.0033	<0.0052	<0.0063	<0.0044	<0.0045	<0.0046	<0.0041	<0.0039	<0.0047	<0.0046	<0.0040	<0.0038	<0.0042	<0.0051	<0.0043
Chloroethane	mg/kg	<0.0101	<0.0102	<0.0084	<0.0081	<0.0102	<0.0075	--	<0.0139	<0.0080	<0.0067	<0.0104	<0.0126	<0.0088	<0.0090	<0.0091	<0.0083	<0.0078	<0.0094	<0.0092	<0.0080	<0.0076	<0.0085	<0.0102	<0.0087
Chloroform	mg/kg	<0.0050	<0.0051	<0.0042	<0.0040	<0.0051	<0.0037	--	<0.0070	<0.0040	<0.0033	<0.0052	<0.0063	<0.0044	<0.0045	<0.0046	<0.0041	<0.0039	<0.0047	<0.0046	<0.0040	<0.0038	<0.0042	<0.0051	<0.0043
Chloromethane	mg/kg	<0.0101	<0.0102	<0.0084	<0.0081	<0.0102	<0.0075	--	<0.0139	<0.0080	<0.0067	<0.0104	<0.0126	<0.0088	<0.0090	<0.0091	<0.0083	<0.0078	<0.0094	<0.0092	<0.0080	<0.0076	<0.0085	<0.0102	<0.0087
cis-1,2-Dichloroethene	mg/kg	<0.0050	<0.0051	<0.0042	<0.0040	<0.0051	<0.0037	--	<0.0070	<0.0040	<0.0033	<0.0052	<0.0063	0.0351	<0.0045	<0.0046	<0.0041	<0.0039	<0.0047	<0.0046	<0.0040	<0.0038	<0.0042	<0.0051	<0.0043
cis-1,3-Dichloropropene	mg/kg	<0.0050	<0.0051	<0.0042	<0.0040	<0.0051	<0.0037	--	<0.0070	<0.0040	<0.0033	<0.0052	<0.0063	<0.0044	<0.0045	<0.0046	<0.0041	<0.0039	<0.0047	<0.0046	<0.0040	<0.0038	<0.0042	<0.0051	<0.0043
Dibromochloromethane	mg/kg	<0.0020	<0.0020	<0.0017	<0.0016	<0.0020	<0.0015	--	<0.0028	<0.0016	<0.0013	<0.0021	<0.0025	<0.0018	<0.0018	<0.0018	<0.0017	<0.0016	<0.0019	<0.0018	<0.0016	<0.0015	<0.0017	<0.0020	<0.0017
Dibromomethane	mg/kg	<0.0050	<0.0051	<0.0042	<0.0040	<0.0051	<0.0037	--	<0.0070	<0.0040	<0.0033	<0.0052	<0.0063	<0.0044	<0.0045	<0.0046	<0.0041	<0.0039	<0.0047	<0.0046	<0.0040	<0.0038	<0.0042	<0.0051	<0.0043
Dichlorodifluoromethane	mg/kg	<0.0101	<0.0102	<0.0084	<0.0081	<0.0102	<0.0075	--	<0.0139	<0.0080	<0.0067	<0.0104	<0.0126	<0.0088	<0.0090	<0.0091	<0.0083	<0.0078	<0.0094	<0.0092	<0.0080	<0.0076	<0.0085	<0.0102	<0.0087
Diethyl Ether	mg/kg	<0.0050	<0.0051	<0.0042	<0.0040	<0.0051	<0.0037	--	<0.0070	<0.0040	<0.0033	<0.0052	<0.0063	0.0162	<0.0045	<0.0046	<0.0041	<0.0039	<0.0047	<0.0046	<0.0040	<0.0038	<0.0042	<0.0051	<0.0043
Di-isopropyl ether	mg/kg	<0.0050	<0.0051	<0.0042	<0.0040	<0.0051	<0.0037	--	<0.0070	<0.0040	<0.0033	<0.0052	<0.0063	<0.0044	<0.0045	<0.0046	<0.0041	<0.0039	<0.0047	<0.0046	<0.0040	<0.0038	<0.0042	<0.0051	<0.0043
Ethyl tertiary-butyl ether	mg/kg	<0.0050	<0.0051	<0.0042	<0.0040	<0.0051	<0.0037	--	<0.0070	<0.0040	<0.0033	<0.0052	<0.0063	<0.0044	<0.0045	<0.0046	<0.0041	<0.0039	<0.0047	<0.0046	<0.0040	<0.0038	<0.0042	<0.0051	<0.0043
Ethylbenzene	mg/kg	<0.0050	<0.0051	<0.0042	<0.0040	<0.0051	<0.0037	--	<0.0070	<0.0040	<0.0033	<0.0052	<0.0063	<0.0044	<0.0045	<0.0046	<0.0041	<0.0039	<0.0047	<0.0046	<0.0040	<0.0038	<0.0042	<0.0051	<0.0043
Hexachlorobutadiene	mg/kg	<0.0050	<0.0051	<0.0042	<0.0040	<0.0051	<0.0037	--	<0.0070	<0.0040	<0.0033	<0.0052	<0.0063	<0.0044	<0.0045	<0.0046	<0.0041	<0.0039	<0.0047	<0.0046	<0.0040	<0.0038	<0.0042	<0.0051	<0.0043
Isopropylbenzene	mg/kg	<0.0050	<0.0051	<0.0042	<0.0040	<0.0051	<0.0037	--	<0.0070	<0.0040	<0.0033	<0.0052	<0.0063	<0.0044	<0.0045	<0.0046	<0.0041	<0.0039	<0.0047	<0.0046	<0.0040	<0.0038	<0.0042	<0.0051	<0.0043
Methyl tert-Butyl Ether	mg/kg	<0.0050	<0.0051	<0.0042	<0.0040	<0.0051	<0.0037	--	<0.0070	<0.0040	<0.0033	<0.0052	<0.0063	<0.0044	<0.0045	<0.0046	<0.0041	<0.0039	<0.0047	<0.0046	<0.0040	<0.0038	<0.0042	<0.0051	<0.0043
Methylene Chloride	mg/kg	<0.0101	<0.0102	<0.0084	<0.0081	<0.0102	<0.0075	--	<0.0139	<0.0080	<0.0067	<0.0104	<0.0126	<0.0088	<0.0090	<0.0091	<0.0083	<0.0078	<0.0094	<0.0092	<0.0080	<0.0076	<0.0085	<0.0102	<0.0087
Naphthalene	mg/kg	<0.0050	<0.0051	<0.0042	<0.0040	<0.0051	0.0243	--	<0.0070	<0.0040	<0.0033	0.0235	0.0065	<0.0044	<0.0045	<0.0046	<0.0041	<0.0039	<0.0047	<0.0046	0.0089	<0.0038	<0.0042	<0.0051	<0.0043
n-Butylbenzene	mg/kg	<0.0050	<0.0051	<0.0042	<0.0040	<0.0051	<0.0037	--	<0.0070	<0.0040	<0.0033	<0.0052	<0.0063	<0.0044	<0.0045	<0.0046	<0.0041	<0.0039	<0.0047	<0.0046	<0.0040	<0.0038	<0.0042	<0.0051	<0.0043
n-Propylbenzene	mg/kg	<0.0050	<0.0051	<0.0042	<0.0040	<0.0051	<0.0037	--	<0.0070	<0.0040	<0.0033	<0.0052	<0.0063	<0.0044	<0.0045	<0.0046	<0.0041	<0.0039	<0.0047	<0.0046	<0.0040	<0.0038	<0.0042	<0.0051	<0.0043
sec-Butylbenzene	mg/kg	<0.0050	<0.0051	<0.0042	<0.0040	<0.0051	<0.0037	--	<0.0070	<0.0040	<0.0033	<0.0052	<0.0063	<0.0044	<0.0045	<0.0046	<0.0041	<0.0039	<0.0047	<0.0046	<0.0040	<0.0038	<0.0042	<0.0051	<0.0043

Analyte	Precharacterization Cell	C24	C24	C24	C24	C24	C24	D01	D01	D01	D01	D01	D02	D02	D02	D02	D02	D02	D02	D02	D03	D03	D03	D03	D03
	Sample ID	C24S09	C24S10	C24S11	C24S12	C24S13	D01S01	GZ006S01S02	GZ006S04S07	GZ006S08S10	GZ006S11S13	D02S01S02A	D02S02B504A	D02S04B505	D02S06	D02S07	D02S08	D02S09	D02S10S11	D03S01S02A	D03S02B503	D03S05	D03S06	D03S07	D03S08
	Laboratory Work Order	1412409	1412409	1412409	1412409	1412409	1503115	1410725	1410725	1410725	1410753	1502334	1502334	1502334	1502334	1502334	1502334	1502334	1502334	1502371	1502393	1502393	1502393	1502393	1502393
	Soil Distinction	Natural	Natural	Natural	Natural	Natural	Fill	Fill	Fill	Natural	Natural	Fill	Fill	Natural	Natural	Natural	Natural	Natural	Natural	Fill	Fill	Natural	Natural	Natural	Natural
	Soil Type	Organics	Organics	Organics	Organics	Organics				Clay	Clay			Organics	Clay	Clay	Clay	Clay	Clay			Organics	Clay	Clay	Clay
	Depth Interval (ft.)	19 - 21	24 - 26	29 - 31	34 - 36	39 - 41	4 - 6	0 - 6	6 - 16	19 - 31	34 - 46	0 - 3.3	3.3 - 6.6	6.6 - 10	14 - 16	19 - 21	24 - 26	29 - 31	34 - 38	0 - 3.3	3.3 - 6	8 - 10	14 - 16	19 - 21	24 - 26
	Sampling Date	12/18/2014	12/18/2014	12/18/2014	12/18/2014	12/18/2014	3/6/2015	10/29/2014	10/29/2014	10/29/2014	10/29/2014	2/23/2015	2/23/2015	2/23/2015	2/23/2015	2/23/2015	2/23/2015	2/23/2015	2/23/2015	2/25/2015	2/26/2015	2/26/2015	2/26/2015	2/26/2015	2/26/2015
Preliminary Disposal Facility Category		MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	Uncontaminated	Hazardous Material Type A	TSCA Material	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A
Styrene	mg/kg	<0.0050	<0.0051	<0.0042	<0.0040	<0.0051	<0.0037	--	<0.0070	<0.0040	<0.0033	<0.0052	<0.0063	<0.0044	<0.0045	<0.0046	<0.0041	<0.0039	<0.0047	<0.0046	<0.0040	<0.0038	<0.0042	<0.0051	<0.0043
tert-Butylbenzene	mg/kg	<0.0050	<0.0051	<0.0042	<0.0040	<0.0051	<0.0037	--	<0.0070	<0.0040	<0.0033	<0.0052	<0.0063	<0.0044	<0.0045	<0.0046	<0.0041	<0.0039	<0.0047	<0.0046	<0.0040	<0.0038	<0.0042	<0.0051	<0.0043
Tertiary-amyl methyl ether	mg/kg	<0.0050	<0.0051	<0.0042	<0.0040	<0.0051	<0.0037	--	<0.0070	<0.0040	<0.0033	<0.0052	<0.0063	<0.0044	<0.0045	<0.0046	<0.0041	<0.0039	<0.0047	<0.0046	<0.0040	<0.0038	<0.0042	<0.0051	<0.0043
Tetrachloroethene	mg/kg	<0.0050	<0.0051	<0.0042	<0.0040	<0.0051	<0.0037	--	<0.0070	<0.0040	<0.0033	<0.0052	<0.0063	<0.0044	<0.0045	<0.0046	<0.0041	<0.0039	<0.0047	<0.0046	0.0101	<0.0038	<0.0042	<0.0051	<0.0043
Tetrahydrofuran	mg/kg	<0.0050	<0.0051	<0.0042	<0.0040	<0.0051	<0.0037	--	<0.0070	<0.0040	<0.0033	<0.0052	<0.0063	<0.0044	<0.0045	<0.0046	<0.0041	<0.0039	<0.0047	<0.0046	<0.0040	<0.0038	<0.0042	<0.0051	<0.0043
Toluene	mg/kg	<0.0050	<0.0051	<0.0042	<0.0040	<0.0051	<0.0037	--	<0.0070	<0.0040	<0.0033	<0.0052	<0.0063	<0.0044	<0.0045	<0.0046	<0.0041	<0.0039	<0.0047	<0.0046	<0.0040	<0.0038	<0.0042	<0.0051	<0.0043
trans-1,2-Dichloroethene	mg/kg	<0.0050	<0.0051	<0.0042	<0.0040	<0.0051	<0.0037	--	<0.0070	<0.0040	<0.0033	<0.0052	<0.0063	<0.0044	<0.0045	<0.0046	<0.0041	<0.0039	<0.0047	<0.0046	<0.0040	<0.0038	<0.0042	<0.0051	<0.0043
trans-1,3-Dichloropropene	mg/kg	<0.0050	<0.0051	<0.0042	<0.0040	<0.0051	<0.0037	--	<0.0070	<0.0040	<0.0033	<0.0052	<0.0063	<0.0044	<0.0045	<0.0046	<0.0041	<0.0039	<0.0047	<0.0046	<0.0040	<0.0038	<0.0042	<0.0051	<0.0043
Trichloroethene	mg/kg	<0.0050	<0.0051	<0.0042	<0.0040	<0.0051	<0.0037	--	0.0159	<0.0040	<0.0033	<0.0052	<0.0063	0.0053	<0.0045	<0.0046	<0.0041	<0.0039	<0.0047	<0.0046	<0.0040	<0.0038	<0.0042	<0.0051	<0.0043
Trichlorofluoromethane	mg/kg	<0.0050	<0.0051	<0.0042	<0.0040	<0.0051	<0.0037	--	<0.0070	<0.0040	<0.0033	<0.0052	<0.0063	<0.0044	<0.0045	<0.0046	<0.0041	<0.0039	<0.0047	<0.0046	<0.0040	<0.0038	<0.0042	<0.0051	<0.0043
Vinyl Chloride	mg/kg	<0.0101	<0.0102	<0.0084	<0.0081	<0.0102	<0.0075	--	<0.0139	<0.0080	<0.0067	<0.0104	<0.0126	0.0123	<0.0090	<0.0091	<0.0083	<0.0078	<0.0094	<0.0092	<0.0080	<0.0076	<0.0085	<0.0102	<0.0087
Xylene O	mg/kg	<0.0050	<0.0051	<0.0042	<0.0040	<0.0051	<0.0037	--	<0.0070	<0.0040	<0.0033	<0.0052	<0.0063	<0.0044	<0.0045	<0.0046	<0.0041	<0.0039	<0.0047	<0.0046	<0.0040	<0.0038	<0.0042	<0.0051	<0.0043
Xylene P,M	mg/kg	<0.0101	<0.0102	<0.0084	<0.0081	<0.0102	<0.0075	--	<0.0139	<0.0080	<0.0067	<0.0104	<0.0126	<0.0088	<0.0090	<0.0091	<0.0083	<0.0078	<0.0094	<0.0092	<0.0080	<0.0076	<0.0085	<0.0102	<0.0087
Xylenes (Total)	mg/kg	<0.0101	<0.0102	<0.0084	<0.0081	<0.0102	<0.0075	--	<0.0139	<0.0080	<0.0067	<0.0104	<0.0126	<0.0088	<0.0090	<0.0091	<0.0083	<0.0078	<0.0094	<0.0092	<0.0080	<0.0076	<0.0085	<0.0102	<0.0087
Total VOCs (Low Level)	mg/kg	0.0576	0.117	0.0391	0.0133	0.0291	0.0669	--	0.1148	ND	ND	0.0593	0.0065	0.1071	ND	ND	ND	ND	ND	ND	0.019	ND	ND	ND	ND
Semi-Volatile Organic Compounds																									
1,2,4-Trichlorobenzene	mg/kg	<1.19	<1.23	<1.10	<0.951	<1.11	<0.906	<0.937	<1.05	<1.08	<1.01	<0.910	<0.991	<1.01	<1.04	<1.10	<1.09	<1.01	<1.08	<0.906	<0.870	<0.975	<1.05	<1.05	<1.06
1,2-Dichlorobenzene	mg/kg	<1.19	<1.23	<1.10	<0.951	<1.11	<0.906	<0.937	<1.05	<1.08	<1.01	<0.910	<0.991	<1.01	<1.04	<1.10	<1.09	<1.01	<1.08	<0.906	<0.870	<0.975	<1.05	<1.05	<1.06
1,3-Dichlorobenzene	mg/kg	<1.19	<1.23	<1.10	<0.951	<1.11	<0.906	<0.937	<1.05	<1.08	<1.01	<0.910	<0.991	<1.01	<1.04	<1.10	<1.09	<1.01	<1.08	<0.906	<0.870	<0.975	<1.05	<1.05	<1.06
1,4-Dichlorobenzene	mg/kg	<0.596	<0.615	<0.553	<0.477	<0.557	<0.454	<0.470	<0.527	<0.541	<0.508	<0.456	<0.497	<0.505	<0.520	<0.552	<0.548	<0.508	<0.540	<0.454	<0.436	<0.489	<0.525	<0.529	<0.531
2,4,5-Trichlorophenol	mg/kg	<1.19	<1.23	<1.10	<0.951	<1.11	<0.906	<0.937	<1.05	<1.08	<1.01	<0.910	<0.991	<1.01	<1.04	<1.10	<1.09	<1.01	<1.08	<0.906	<0.870	<0.975	<1.05	<1.05	<1.06
2,4,6-Trichlorophenol	mg/kg	<1.19	<1.23	<1.10	<0.951	<1.11	<0.906	<0.937	<1.05	<1.08	<1.01	<0.910	<0.991	<1.01	<1.04	<1.10	<1.09	<1.01	<1.08	<0.906	<0.870	<0.975	<1.05	<1.05	<1.06
2,4-Dichlorophenol	mg/kg	<1.19	<1.23	<1.10	<0.951	<1.11	<0.906	<0.937	<1.05	<1.08	<1.01	<0.910	<0.991	<1.01	<1.04	<1.10	<1.09	<1.01	<1.08	<0.906	<0.870	<0.975	<1.05	<1.05	<1.06
2,4-Dimethylphenol	mg/kg	<1.19	<1.23	<1.10	<0.951	<1.11	<0.906	<0.937	<1.05	<1.08	<1.01	<0.910	<0.991	<1.01	<1.04	<1.10	<1.09	<1.01	<1.08	<0.906	<0.870	<0.975	<1.05	<1.05	<1.06
2,4-Dinitrophenol	mg/kg	<5.96	<6.15	<5.53	<4.77	<5.57	<4.54	<4.70	<5.27	<5.41	<5.08	<4.56	<4.97	<5.05	<5.20	<5.52	<5.48	<5.08	<5.40	<4.54	<4.36	<4.89	<5.25	<5.29	<5.31
2,4-Dinitrotoluene	mg/kg	<1.19	<1.23	<1.10	<0.951	<1.11	<0.906	<0.937	<1.05	<1.08	<1.01	<0.910	<0.991	<1.01	<1.04	<1.10	<1.09	<1.01	<1.08	<0.906	<0.870	<0.975	<1.05	<1.05	<1.06
2,6-Dinitrotoluene	mg/kg	<1.19	<1.23	<1.10	<0.951	<1.11	<0.906	<0.937	<1.05	<1.08	<1.01	<0.910	<0.991	<1.01	<1.04	<1.10	<1.09	<1.01	<1.08	<0.906	<0.870	<0.975	<1.05	<1.05	<1.06
2-Chloronaphthalene	mg/kg	<1.19	<1.23	<1.10	<0.951	<1.11	<0.906	<0.937	<1.05	<1.08	<1.01	<0.910	<0.991	<1.01	<1.04	<1.10	<1.09	<1.01	<1.08	<0.906	<0.870	<0.975	<1.05	<1.05	<1.06
2-Chlorophenol	mg/kg	<1.19	<1.23	<1.10	<0.951	<1.11	<0.906	<0.937	<1.05	<1.08	<1.01	<0.910	<0.991	<1.01	<1.04	<1.10	<1.09	<1.01	<1.08	<0.906	<0.870	<0.975	<1.05	<1.05	<1.06
2-Methylnaphthalene	mg/kg	<1.19	<1.23	<1.10	<0.951	<1.11	<0.906	<0.937	<1.05	<1.08	<1.01	<0.910	<0.991	<1.01	<1.04	<1.10	<1.09	<1.01	<1.08	<0.906	<0.870	<0.975	<1.05	<1.05	<1.06
2-Methylphenol	mg/kg	<1.19	<1.23	<1.10	<0.951	<1.11	<0.906	<0.937	<1.05	<1.08	<1.01	<0.910	<0.991	<1.01	<1.04	<1.10	<1.09	<1.01	<1.08	<0.906	<0.870	<0.975	<1.05	<1.05	<1.06
2-Nitrophenol	mg/kg	<1.19	<1.23	<1.10	<0.951	<1.11	<0.906	<0.937	<1.05	<1.08	<1.01	<0.910	<0.991	<1.01	<1.04	<1.10	<1.09	<1.01	<1.08	<0.906	<0.870	<0.975	<1.05	<1.05	<1.06
3,3´-Dichlorobenzidine	mg/kg	<2.38	<2.46	<2.21	<1.90	<2.22	<1.81	<1.88	<2.11	<2.16	<2.03	<1.82	<1.99	<2.02	<2.08	<2.20	<2.19	<2.03	<2.16	<1.82	<1.74	<1.95	<2.10	<2.11	<2.12
3+4-Methylphenol	mg/kg	<2.38	<2.46	<2.21	<1.90	<2.22	<1.81	<1.88	<2.11	<2.16	<2.03	<1.82	<1.99	<2.02	<2.08	<2.20	<2.19	<2.03	<2.16	<1.82	<1.74	<1.95	<2.10	<2.11	<2.12
4-Bromophenyl-phenylether	mg/kg	<1.19	<1.23	<1.10	<0.951	<1.11	<0.906	<0.937	<1.05	<1.08	<1.01	<0.910	<0.991	<1.01	<1.04	<1.10	<1.09	<1.01	<1.08	<0.906	<0.870	<0.975	<1.05	<1.05	<1.06
4-Chloroaniline	mg/kg	<2.38	<2.46	<2.21	<1.90	<2.22	<1.81	<1.88	<2.11	<2.16	<2.03	<1.82	<1.99	<2.02	<2.08	<2.20	<2.19	<2.03	<2.16	<1.82	<1.74	<1.95	<2.10	<2.11	<2.12
4-Nitrophenol	mg/kg	<5.96	<6.15	<5.53	<4.77	<5.57	<4.54	<4.70	<5.27	<5.41	<5.08	<4.56	<4.97	<5.05	<5.20	<5.52	<5.48	<5.08	<5.40	<4.54	<4.36	<4.89	<5.25	<5.29	<5.31
Acenaphthene	mg/kg	<1.19	<1.23	<1.10	<0.951	<1.11	<0.906	<0.937	<1.05	<1.08	<1.01	1.02	<0.991	<1.01	<1.04	<1.10	<1.09	<1.01	<1.08	<0.906	3.02	<0.975	<1.05	<1.05	<1.06
Acenaphthylene	mg/kg	<1.19	<1.23	<1.10	<0.951	<1.11	1.16	<0.937	<1.05	<1.08	<1.01	1.34	<0.991	<1.01	<1.04	<1.10	<1.09	<1.01	<1.08	<0.906	<0.870	<0.975	<1.05	<1.05	<1.06
Acetophenone	mg/kg	<2.38	<2.46	<2.21	<1.90	<2.22	<1.81	<1.88	<2.11	<2.16	<2.03	<1.82	<1.99	<2.02	<2.08	<2.20	<2.19	<2.03	<2.16	<1.82	<1.74	<1.95	<2.10	<2.11	<2.12
Aniline	mg/kg	<5.96	<6.15	<5.53	<4.77	<5.57	<4.54	<4.70	<5.27	<5.41	<5.08	<4.56	<4.97	<5.05	<5.20	<5.52	<5.48	<5.08	<5.40	<4.54	<4.36	<4.89	<5.25	<5.29	<5.31
Anthracene	mg/kg	<1.19	<1.23	<1.10	<0.951	<1.11	1.8	2.95	1.77	<1.08	<1.01	4.19	1.78	<1.01	<1.04	<1.10	<1.09	<1.01	<1.08	1.69	6.44	<0.975	<1.05	<1.05	<1.06
Azobenzene	mg/kg	<1.19	<1.23	<1.10	<0.951	<1.11	<0.906	<0.937	<1.05	<1.08	<1.01	<0.910	<0.991	<1.01	<1.04	<1.10	<1.09	<1.01	<1.08	<0.906	<0.870	<0.975	<1.05	<1.05	<1.06
Benzo(a)anthracene	mg/kg	<1.19	<1.23	<1.10	<0.951	<1.11	3.36	7.22	1.83	<1.08	<1.01	18.9	4.93	<1.01	<1.04	<1.10	<1.09	<1.01	<1.08	3.85	13.2	<0.975	<1.05	<1.05	<1.06
Benzo(a)pyrene	mg/kg	<0.596	<0.615	<0.553	<0.477	<0.557	3.06	6.07	1.66	<0.541	<0.508	15.3	5.16	<0.505	<0.520	<0.552	<0.548	<0.508	<0.540	3.15	10.1	<0.489	<0.525	<0.529	<0.531
Benzo(b)fluoranthene	mg/kg	<1.19	<1.23	<1.10	<0.951	<1.11	3.44	8.7	1.85	<1.08	<1.01	21.6	7	<1.01	<1.04	<1.10	<1.09	<1.01	<1.08	3.04	11.6	<0.975	<1.05	<1.05	<1.06
Benzo(g,h,i)perylene	mg/kg	<1.19	<1.23	<1.10	<0.951	<1.11	1.11	2.17	<1.05	<1.08	<1.01	2.3	1.42	<1.01	<1.04	<1.10	<1.09	<1.01	<1.08	0.933	4.33	<0.975	<1.05	<1.05	<1.06
Benzo(k)fluoranthene	mg/kg	<1.19	<1.23	<1.10	<0.951	<1.11	2.68	3.67	<1.05	<1.08	<1.01	7.61	2	<1.01	<1.04	<1.10	<1.09	<1.01	<1.08	3.28	4.8	<0.975	<1.05	<1.05	<1.06
bis(2-Chloroethoxy)methane	mg/kg	<1.19	<1.23	<1.10	<0.951	<1.11	<0.906	<0.937	<1.05	<1.08	<1.01	<0.910	<0.991	<1.01	<1.04	<1.10	<1.09	<1.01	<1.08	<0.906	<0.870	<0.975	<1.05	<1.05	<1.06
bis(2-Chloroethyl)ether	mg/kg	<0.596	<0.615	<0.553	<0.477	<0.557	<0.454	<0.470	<0.527	<0.541	<0.508	<0.456	<0.497	<0.505	<0.520	<0.552	<0.548	<0.508	<0.540	<0.454	<0.436	<0.489	<0.525	<0.529	<0.531
bis(2-chloroisopropyl)Ether	mg/kg	<0.596	<0.615	<0.553	<0.477	<0.557	<0.454	<0.470	<0.527	<0.541	<0.508	<0.456	<0.497	<0.505	<0.520	<0.552	<0.548	<0.508	<0.540	<0.454	<0.436	<0.489	<0.525	<0.529	<0.531
bis(2-Ethylhexyl)phthalate	mg/kg	<1.19	<1.23	<1.10	<0.951	<1.11	<0.906	<0.937	<1.05	<1.08	<1.01	<0.910	<0.991	<1.01	<1.04	<1.10	<1.09	<1.01	<1.08	<0.906	1.8	<0.975	<1.05	<1.05	<1.06
Butylbenzylphthalate	mg/kg	<1.19	<1.23	<1.10	<0.951	<1.11	<0.906	<0.937	<1.05	<1.08	<1.01	<0.910	<0.991	<1.01	<1.04	<1.10	<1.09	<1.01	<1.08	<0.906	<0.870	<0.975	<1.05	<1.05	<1.06
Chrysene	mg/kg	<0.596	<0.615	<0.553	<0.477	<0.557	2.91	7.1	1.89	<0.541	<0.508	15.4	4.77	<0.505	<0.520	<0.552	<0.548	<0.508	<0.540	3.33	12	<0.489	<0.525	<0.529	<0.531
Dibenzo(a,h)Anthracene	mg/kg	<0.596	<0.615	<0.553	<0.477	<0.557	0.486	1.16	<0.527	<0.541	<0.508	<0.456	<0.497	<0.505	<0.520	<0.552	<0.548	<0.508	<0.540	0.531	<0.436	<0.489	<0.525	<0.529	<0.531
Dibenzofuran	mg/kg	<1.19	<1.23	<1.10	<0.951	<1.11	<0.906	<0.937	<1.05	<1.08	<1.01	1.07	<0.991	<1.01	<1.04	<1.10	<1.09	<1.01	<1.08	<0.906	1.7	<0.975	<1.05	<1.05	<1.06
Diethylphthalate	mg/kg	<1.19	<1.23	<1.10	<0.951	<1.11	<0.906	<0.937	<1.05	<1.08	<1.01	<0.910	<0.991	<1.01	<1.04	<1.10	<1.09	<1.01	<1.08	<0.906	<0.870	<0.975	<1.05	<1.05	<1.06
Dimethylphthalate	mg/kg	<1.19	<1.23	<1.10	<0.951	<1.11	<0.906	<0.937	<1.05	<1.08	<1.01	<0.910	<0.991	<1.01	<1.04	<1.10	<1.09	<1.01	<1.08	<0.906	<0.870	<0.975	<1.05	<1.05	<1.06
Di-n-butylphthalate	mg/kg	<1.19	<1.23	<1.10	<0.951	<1.11	<0.906	<0.937	<1.05	<1.08	<1.01	<0.910	<0.991	<1.01	<1.04	<1.10	<1.09	<1.01	<1.08	<0.906	<0.870	<0.975	<1.05	<1.05	<1.06
Di-n-octylphthalate	mg/kg	<1.19	<1.23	<1.10	<0.951	<1.11	<0.906	<0.937	<1.05	<1.08	<1.01	<0.910	<0.991	<1.01	<1.04	<1.10	<1.09	<1.01	<1.08	<0.906	<0.870	<0.975	<1.05	<1.05	<1.06
Fluoranthene	mg/kg	<1.19	<1.23	<1.10	<0.951	<1.11	8.41	13.9	4.53	<1.08	<1.01	27.8	9.1	<1.01	<1.04	<1.10	<1.09	<1.01	<1.08	8.65	29.9	<0.975	<1.05	<1.05	<1.06
Fluorene	mg/kg	<1.19	<1.23	<1.10	<0.951	<1.11	1.12	1.25	<1.05	<1.08	<1.01	1.4	<0.991	<1.01	<1.04	<1.10	<1.09	<1.01	<1.08	0.94	2.88	<0.975	<1.05	<1.05	<1.06
Hexachlorobenzene	mg/kg	<0.596	<0.615	<0.553	<0.477	<0.557	<0.454	<0.470	<0.527	<0.541	<0.508	<0.456	<0.497	<0.505	<0.520	<0.552	<0.548	<0.508	<0.540	<0.454	<0.436	<0.489	<0.525	<0.529	<0.531
Hexachlorobutadiene	mg/kg	<1.19	<1.23	<1.10	<0.951	<1.11	<0.906	<0.937	<1.05	<1.08	<1.01	<0.910	<0.991	<1.01	<1.04	<1.10	<1.09	<1.01	<1.08	<0.906	<0.870	<0.975	<1.05	<1.05	<1.06
Hexachloroethane	mg/kg	<1.19	<1.23	<1.10	<0.951	<1.11	<0.906	<0.937	<1.05	<1.08	<1.01	<0.910	<0.991	<1.01	<1.04	<1.10	<1.09	<1.01	<1.08	<0.906	<0.870	<0.975	<1.05	<1.05	<1.06
Indeno(1,2,3-cd)Pyrene	mg/kg	<1.19	<1.23	<1.10	<0.951	<1.11	1.02	2.22	<1.05	<1.08	<1.01	2.72	1.49	<1.01	<1.04	<1.10	<1.09	<1.01	<1.08	0.972	4.44	<0.975	<1.05	<1.05	<1.06
Isophorone	mg/kg	<1.19	<1.23	<1.10	<0.951	<1.11	<0.906	<0.937	<1.05	<1.08	<1.01	<0.910	<0.991	<1.01	<1.04	<1.10	<1.09	<1.01	<1.08	<0.906	<0.870	<0.975	<1.05	<1.05	<1.06
Naphthalene	mg/kg	<1.19	<1.23	<1.10	<0.951	<1.11	1.61	<0.937	<1.05	<1.08	<1.01	1.64	<0.991	<1.01	<1.04	<1.10	<1.09	<1.01	<1.08	<0.906	1.1	<0.975	<1.05	<1.05	<1.06
Nitrobenzene	mg/kg	<1.19	<1.23	<1.10	<0.951	<1.11	<0.906	<0.937	<1.05	<1.08	<1.01	<0.910	<0.991	<1.01	<1.04	<1.10	<1.09	<1.01	<1.08	<0.906	<0.870	<0.975	<1.05	<1.05	<1.06
N-Nitrosodimethylamine	mg/kg	<1.19	<1.23	<1.10	<0.951	<1.11	<0.906	<0.937	<1.05	<1.08	<1.01	<0.910	<0.991	<1.01	<1.04	<1.10	<1.09	<1.01	<1.08	<0.906	<0.870	<0.975	<1.05	<1.05	<1.06
Pentachlorophenol	mg/kg	<5.96	<6.15	<5.53	<4.77	<5.57	<4.54	<4.70	<5.27	<5.41	<5.08	<4.56	<4.97	<5.05	<5.20	<5.52	<5.48	<5.08	<5.40	<4.54	<4.36	<4.89	<5.25	<5.29	<5.31
Phenanthrene	mg/kg	<1.19	<1.23	<1.10	<0.951	<1.11	6.22	8.62	5.17	<1.08	<1.01	12.6	6.94	<1.01	<1.04	<1.10	<1.09	<1.01	<1.08	6.01	21.2	<0.975	<1.05	<1.05	<1.06
Phenol	mg/kg	<1.19	<1.23	<1.10	<0.951	<1.11	<0.906	<0.937	<1.05	<1.08	<1.01	<0.910	<0.991	<1.01	<1.04	<1.10	<1.09	<1.01	<1.08	<0.906	<0.870	<0.975	<1.05	<1.05	<1.06
Pyrene	mg/kg	<1.19	<1.23	<1.10	<0.951	<1.11	4.62	9.01	3.32	<1.08	<1.01	20	7.68	<1.01	<1.04	<1.10	<1.09	<1.01	<1.08	4.78	20.4	<0.975	<1.05	<1.05	<1.06
Total SVOCs	mg/kg	ND	ND	ND	ND	ND	43.006	74.04	22.02	ND	ND	154.89	52.27	ND	ND	ND	ND	ND	ND	41.156	148.91	ND	ND	ND	ND
Classic Chemistry																									
Corrosivity (pH)	S.U.	6.02	6.1	6.83	6.85	7.17	10.2	7.99	6.79	7.54	8.14	8.87	7.28	6.66	6.65	6.67	6.83	6.93	7.03	9.64	7.94	7.19	6.37	6.72	6.78
Conductivity	umhos/cm	1710	1530	1560	2470	4330	603	689	4420	7660	2670	193	586	899	4260	6040	6400	3610	5000	281	1380	1430	4020	3370	2380
Flashpoint	°F	--	--	--	--	--	>200	>200	>200	>200	>200	>200	>200	--	--	--	--	--	--	>200	>200	--	--	--	--
Reactive Cyanide	mg/kg	--	--	--	--	--	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--	--	--	--	--	--	<2.0	<2.0	--	--	--	--
Reactive Sulfide	mg/kg	--	--	--	--	--	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--	--	--	--	--	--	<2.0	<2.0	--	--	--	--

Table 1
Soil Precharacterization Data

Wynn Resort Casino
Everett, Massachusetts

Analyte	Precharacterization Cell	D03	D03	D04	D04	D04	D04	D04	D04	D04	D04	D06	D06	D06	D06	D06	D06	D06	D06	D07	D07	D07	D07	D07
	Sample ID	D03S09	D03S10S11	D04S01S02A	D04S02BS04A	D04S05	D04S06	D04S07	D04S08	D04S09	D04S10S11	D06S01S02A	D06S02BS03A	D06S03BS04	D06S05S06	D06S07	D06S08	D06S09	D06S10	D06S11S12	D07S01S02A	D07S02BS04A	D07S04BS05	D07S06	D07S07
	Laboratory Work Order	1502393	1502393	1502393	1502393	1502393	1502408	1502408	1502408	1502408	1502408	1503070	1503070	1503070	1503070	1503070	1503070	1503070	1503070	1503070	1501546	1501546	1501546	1501546	1501546
	Soil Distinction	Natural	Natural	Fill	Fill	Organics	Natural	Natural	Natural	Natural Sand/Gravel	Natural	Fill	Fill	Fill	Natural Sand/Gravel	Natural	Natural	Natural	Natural	Natural Sand/Gravel	Fill	Fill	Fill	Fill	Natural
	Soil Type	Clay	Clay	Clay	Clay	B - 10	Clay	Clay	Clay	Clay	Clay	0 - 3.3	3.3 - 6.6	6.6 - 9	9 - 13	14 - 16	19 - 21	24 - 26	29 - 31	34 - 35	0 - 3.3	3.3 - 6.6	6.6 - 10	10 - 12	14 - 16
	Depth Interval (ft.)	29 - 31	34 - 38	0 - 3.3	3.3 - 6.6	2/26/2015	14 - 16	19 -21	24 - 26	29 - 31	34 - 36.5	0 - 3.3	3.3 - 6.6	6.6 - 9	9 - 13	14 - 16	19 - 21	24 - 26	29 - 31	34 - 35	0 - 3.3	3.3 - 6.6	6.6 - 10	10 - 12	14 - 16
	Sampling Date	2/26/2015	2/26/2015	2/26/2015	2/26/2015	2/26/2015	2/27/2015	2/27/2015	2/27/2015	2/27/2015	2/27/2015	3/4/2015	3/4/2015	3/4/2015	3/4/2015	3/4/2015	3/4/2015	3/4/2015	3/4/2015	3/4/2015	1/29/2015	1/29/2015	1/29/2015	1/29/2015	1/29/2015
Preliminary Disposal Facility Category		MCP Regulated Type A	MCP Restricted	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type B-1	Uncontaminated	MCP Regulated Type A	Hazardous Material Type B	Hazardous Material Type B	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Restricted	Uncontaminated	Uncontaminated	MCP Regulated Type A	MCP Regulated Material Type B-2	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A
RCRA 8 Metals	**Units**																								
Arsenic	mg/kg	9.72	10.4	21.2	15.8	9.65	9.9	9.6	17.6	11.7	9.18	32.4	95.2	50.9	49.2	14.7	11.9	9.74	<6.36	<6.56	35.4	37.3	39.1	10.9	12.6
Barium	mg/kg	66.1	90.6	92.8	74.8	57.8	106	69.3	85	9.76	67.9	87.8	100	35.5	17	136	98.6	81	31.8	13.7	122	96.5	49.7	71	112
Cadmium	mg/kg	<1.53	<1.35	<1.15	<1.32	<1.69	<1.54	<1.66	<1.64	<1.54	<1.61	<1.41	5.1	<1.58	2.42	<1.53	<1.61	<1.54	<1.27	<1.31	<1.75	<1.58	2.33	<1.64	4.44
Chromium	mg/kg	40.7	50.4	45.3	31	45.6	52.5	40.8	45.9	9.5	35.2	11.2	9.96	13.6	17.4	63.3	53.6	39.5	13.7	10.1	37	21	9.11	38.3	55.2
Lead	mg/kg	<15.3	17.1	351	153	20.9	<15.4	<16.6	<16.4	<15.4	<16.1	8640	5180	1320	34.8	19	<16.1	<15.4	<12.7	<13.1	417	718	486	21.7	<16.3
Selenium	mg/kg	<7.66	<6.74	<5.76	8.28	<8.43	<7.72	<8.29	<8.19	<7.72	<8.03	24.6	12.5	<7.88	<6.32	<7.65	<8.05	<7.68	<6.36	<6.56	<7.01	<7.89	<6.99	<8.18	<8.15
Silver	mg/kg	<1.53	<1.35	<1.15	<1.32	<1.69	<1.54	<1.66	<1.64	<1.54	<1.61	<1.41	17.4	<1.58	<1.26	<1.53	<1.61	<1.54	<1.27	<1.31	5.86	<1.58	2.65	<1.64	<1.63
Mercury	mg/kg	<0.036	<0.035	1.04	57.8	0.038	<0.038	<0.038	<0.042	<0.036	0.282	10.6	2.67	0.16	0.064	<0.034	<0.034	<0.034	<0.035	<0.033	0.149	0.377	0.08	<0.042	<0.043
Metals by Toxicity Characteristic Leaching Procedure (TCLP)																									
Arsenic	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead	mg/L	--	--	0.492	0.307	--	--	--	--	--	--	165	170	1.81	--	--	--	--	--	--	0.256	66	0.349	--	--
Selenium	mg/L	--	--	--	--	--	--	--	--	--	--	<0.500	--	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	mg/L	--	--	--	<0.00050	--	--	--	--	--	--	<0.00050	--	--	--	--	--	--	--	--	--	--	--	--	--
Herbicides																									
2,4,5-T	mg/kg	--	--	<0.25	<0.060	<0.063	--	--	--	--	--	<0.050	<0.25	<0.25	<0.048	--	--	--	--	--	<0.56	<0.056	<0.056	<0.060	<0.059
2,4-D	mg/kg	--	--	<0.25	<0.060	<0.063	--	--	--	--	--	<0.25	<1.3	<1.2	<0.24	--	--	--	--	--	<0.56	<0.056	<0.056	<0.060	<0.059
2,4-DB	mg/kg	--	--	<0.25	<0.060	<0.063	--	--	--	--	--	<0.019	<0.095	<0.092	<0.018	--	--	--	--	--	<0.56	<0.056	<0.056	<0.060	<0.059
Dalapon	mg/kg	--	--	<3.1	<0.73	<0.76	--	--	--	--	--	<1.5	<7.6	<7.4	<1.5	--	--	--	--	--	<6.7	<0.68	<0.68	<0.73	<0.71
Dicamba	mg/kg	--	--	<0.25	<0.060	<0.063	--	--	--	--	--	<0.075	<0.38	<0.37	<0.073	--	--	--	--	--	<0.56	<0.056	<0.056	<0.060	<0.059
Dichlorprop	mg/kg	--	--	<0.25	<0.060	<0.063	--	--	--	--	--	<0.16	<0.82	<0.80	<0.16	--	--	--	--	--	<0.56	<0.056	<0.056	<0.060	<0.059
Dinoseb	mg/kg	--	--	<1.5	<0.36	<0.38	--	--	--	--	--	<0.25	<1.3	<1.2	<0.24	--	--	--	--	--	<3.4	<0.34	<0.34	<0.36	<0.35
MCPA	mg/kg	--	--	<61	<15	<15	--	--	--	--	--	<62	<320	<310	<61	--	--	--	--	--	<130	<14	<14	<15	<14
MCPP	mg/kg	--	--	<61	<15	<15	--	--	--	--	--	<62	<320	<310	<61	--	--	--	--	--	<130	<14	<14	<15	<14
Silvex (2,4,5-TP)	mg/kg	--	--	<0.25	<0.060	<0.063	--	--	--	--	--	<0.050	<0.25	<0.25	<0.048	--	--	--	--	--	<0.56	<0.056	<0.056	<0.060	<0.059
Pesticides																									
4,4'-DDD	mg/kg	--	--	<0.037	<0.011	<0.0021	--	--	--	--	--	<0.010	<0.0021	<0.0020	<0.0020	--	--	--	--	--	<0.037	<0.0038	<0.0020	<0.0022	<0.0020
4,4'-DDE	mg/kg	--	--	<0.037	<0.011	<0.0021	--	--	--	--	--	<0.010	<0.0021	<0.0020	<0.0020	--	--	--	--	--	<0.037	<0.0038	<0.0020	<0.0022	<0.0020
4,4'-DDT	mg/kg	--	--	<0.037	<0.011	<0.0021	--	--	--	--	--	<0.010	<0.0021	<0.0020	<0.0020	--	--	--	--	--	<0.037	<0.0038	<0.0020	<0.0022	<0.0020
Aldrin	mg/kg	--	--	<0.037	<0.011	<0.0021	--	--	--	--	--	<0.010	<0.0021	<0.0020	<0.0020	--	--	--	--	--	<0.037	<0.0038	<0.0020	<0.0022	<0.0020
alpha-BHC	mg/kg	--	--	<0.037	<0.011	<0.0021	--	--	--	--	--	<0.010	<0.0021	<0.0020	<0.0020	--	--	--	--	--	<0.037	<0.0038	<0.0020	<0.0022	<0.0020
beta-BHC	mg/kg	--	--	<0.037	<0.011	<0.0021	--	--	--	--	--	<0.010	<0.0021	<0.0020	<0.0020	--	--	--	--	--	<0.037	<0.0038	<0.0020	<0.0022	<0.0020
Chlordane (technical)	mg/kg	--	--	<0.37	<0.11	<0.021	--	--	--	--	--	<0.10	<0.021	<0.020	<0.020	--	--	--	--	--	<0.37	<0.038	<0.020	<0.022	<0.020
delta-BHC	mg/kg	--	--	<0.037	<0.011	<0.0021	--	--	--	--	--	<0.010	<0.0021	<0.0020	<0.0020	--	--	--	--	--	<0.037	<0.0038	<0.0020	<0.0022	<0.0020
Dieldrin	mg/kg	--	--	<0.037	<0.011	<0.0021	--	--	--	--	--	<0.010	<0.0021	<0.0020	<0.0020	--	--	--	--	--	<0.037	<0.0038	<0.0020	<0.0022	<0.0020
Endosulfan I	mg/kg	--	--	<0.037	<0.011	<0.0021	--	--	--	--	--	<0.010	<0.0021	<0.0020	<0.0020	--	--	--	--	--	<0.037	<0.0038	<0.0020	<0.0022	<0.0020
Endosulfan II	mg/kg	--	--	<0.037	<0.011	<0.0021	--	--	--	--	--	<0.010	<0.0021	<0.0020	<0.0020	--	--	--	--	--	<0.037	<0.0038	<0.0020	<0.0022	<0.0020
Endosulfan sulfate	mg/kg	--	--	<0.037	<0.011	<0.0021	--	--	--	--	--	<0.010	<0.0021	<0.0020	<0.0020	--	--	--	--	--	<0.037	<0.0038	<0.0020	<0.0022	<0.0020
Endrin	mg/kg	--	--	<0.037	<0.011	<0.0021	--	--	--	--	--	<0.010	<0.0021	<0.0020	<0.0020	--	--	--	--	--	<0.037	<0.0038	<0.0020	<0.0022	<0.0020
Endrin ketone	mg/kg	--	--	<0.037	<0.011	<0.0021	--	--	--	--	--	<0.010	<0.0021	<0.0020	<0.0020	--	--	--	--	--	<0.037	<0.0038	<0.0020	<0.0022	<0.0020
gamma-BHC (Lindane)	mg/kg	--	--	<0.037	<0.011	<0.0021	--	--	--	--	--	<0.010	<0.0021	<0.0020	<0.0020	--	--	--	--	--	<0.037	<0.0038	<0.0020	<0.0022	<0.0020
Heptachlor	mg/kg	--	--	<0.037	<0.011	<0.0021	--	--	--	--	--	<0.010	<0.0021	<0.0020	<0.0020	--	--	--	--	--	<0.037	<0.0038	<0.0020	<0.0022	<0.0020
Heptachlor epoxide	mg/kg	--	--	<0.037	<0.011	<0.0021	--	--	--	--	--	<0.010	<0.0021	<0.0020	<0.0020	--	--	--	--	--	<0.037	<0.0038	<0.0020	<0.0022	<0.0020
Hexachlorobenzene	mg/kg	--	--	<0.037	<0.011	<0.0021	--	--	--	--	--	<0.010	<0.0021	<0.0020	<0.0020	--	--	--	--	--	<0.037	<0.0038	<0.0020	<0.0022	<0.0020
Methoxychlor	mg/kg	--	--	<0.037	<0.011	<0.0021	--	--	--	--	--	<0.010	<0.0021	<0.0020	<0.0020	--	--	--	--	--	<0.037	<0.0038	<0.0020	<0.0022	<0.0020
Polychlorinated Biphenyls																									
Aroclor 1016	mg/kg	<0.148	<0.151	<0.128	<0.141	<0.160	<0.157	<0.156	<0.157	<0.145	<0.149	<0.141	<0.152	<0.156	<0.143	<0.156	<0.154	<0.149	<0.134	<0.137	<0.137	<0.141	<0.145	<0.160	<0.163
Aroclor 1221	mg/kg	<0.148	<0.151	<0.128	<0.141	<0.160	<0.157	<0.156	<0.157	<0.145	<0.149	<0.141	<0.152	<0.156	<0.143	<0.156	<0.154	<0.149	<0.134	<0.137	<0.137	<0.141	<0.145	<0.160	<0.163
Aroclor 1232	mg/kg	<0.148	<0.151	<0.128	<0.141	<0.160	<0.157	<0.156	<0.157	<0.145	<0.149	<0.141	<0.152	<0.156	<0.143	<0.156	<0.154	<0.149	<0.134	<0.137	<0.137	<0.141	<0.145	<0.160	<0.163
Aroclor 1242	mg/kg	<0.148	<0.151	<0.128	<0.141	<0.160	<0.157	<0.156	<0.157	<0.145	<0.149	<0.141	<0.152	<0.156	<0.143	<0.156	<0.154	<0.149	<0.134	<0.137	<0.137	<0.141	<0.145	<0.160	<0.163
Aroclor 1248	mg/kg	<0.148	<0.151	<0.128	<0.141	<0.160	<0.157	<0.156	<0.157	<0.145	<0.149	<0.141	<0.152	<0.156	<0.143	<0.156	<0.154	<0.149	<0.134	<0.137	<0.137	<0.141	<0.145	<0.160	<0.163
Aroclor 1254	mg/kg	<0.148	<0.151	0.494	0.287	<0.160	<0.157	<0.156	<0.157	<0.145	<0.149	<0.141	<0.152	<0.156	<0.143	<0.156	<0.154	<0.149	<0.134	<0.137	<0.137	<0.141	<0.145	<0.160	<0.163
Aroclor 1260	mg/kg	<0.148	<0.151	<0.128	<0.141	<0.160	<0.157	<0.156	<0.157	<0.145	<0.149	<0.141	<0.152	<0.156	<0.143	<0.156	<0.154	<0.149	<0.134	<0.137	<0.137	<0.141	<0.145	<0.160	<0.163
Aroclor 1262	mg/kg	<0.148	<0.151	<0.128	<0.141	<0.160	<0.157	<0.156	<0.157	<0.145	<0.149	<0.141	<0.152	<0.156	<0.143	<0.156	<0.154	<0.149	<0.134	<0.137	<0.137	<0.141	<0.145	<0.160	<0.163
Aroclor 1268	mg/kg	<0.148	<0.151	<0.128	<0.141	<0.160	<0.157	<0.156	<0.157	<0.145	<0.149	<0.141	<0.152	<0.156	<0.143	<0.156	<0.154	<0.149	<0.134	<0.137	<0.137	<0.141	<0.145	<0.160	<0.163
Total PCBs	mg/kg	ND	ND	0.494	0.287	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Petroleum Hydrocarbons	mg/kg	<46.4	<46.6	491	374	<50.3	<48.8	<48.0	<51.5	<46.4	<45.0	137	<48.6	<47.9	<43.5	<47.7	<47.1	<49.2	<38.4	<45.8	1770	203	<43.8	<48.6	<52.4
Volatile Organic Compounds (VOCs)																									
1,1,1,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-Chloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane - Screen	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Butanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Isopropyltoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-Pentanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Disulfide	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	D03 D03S09 1502393 Natural Clay 29 - 31 2/26/2015	D03 D03S10S11 1502393 Natural Clay 34 - 38 2/26/2015	D04 D04S01S02A 1502393 Fill 0 - 3.3 2/26/2015	D04 D04S02BS04A 1502393 Fill 3.3 - 6.6 2/26/2015	D04 D04S05 1502393 Natural Organics 8 - 10 2/26/2015	D04 D04S06 1502408 Natural Clay 14 - 16 2/27/2015	D04 D04S07 1502408 Natural Clay 19 -21 2/27/2015	D04 D04S08 1502408 Natural Clay 24 - 26 2/27/2015	D04 D04S09 1502408 Natural Sand/Gravel 29 - 31 2/27/2015	D04 D04S10S11 1502408 Natural Clay 34 - 36.5 2/27/2015	D06 D06S01S02A 1503070 Fill 0 - 3.3 3/4/2015	D06 D06S02BS03A 1503070 Fill 3.3 - 6.6 3/4/2015	D06 D06S03BS04 1503070 Fill 6.6 - 9 3/4/2015	D06 D06S05S06 1503070 Natural Sand/Gravel 9 - 13 3/4/2015	D06 D06S07 1503070 Natural Clay 14 - 16 3/4/2015	D06 D06S08 1503070 Natural Clay 19 -21 3/4/2015	D06 D06S09 1503070 Natural Clay 24 - 26 3/4/2015	D06 D06S10 1503070 Natural Sand/Gravel 29 - 31 3/4/2015	D06 D06S11S12 1503070 Natural Sand/Gravel 34 - 35 3/4/2015	D07 D07S01S02A 1501546 Fill 0 - 3.3 1/29/2015	D07 D07S02BS04A 1501546 Fill 3.3 - 6.6 1/29/2015	D07 D07S04BS05 1501546 Fill 6.6 - 10 1/29/2015	D07 D07S06 1501546 Fill 10 - 12 1/29/2015	D07 D07S07 1501546 Natural Clay 14 - 16 1/29/2015
Preliminary Disposal Facility Category		MCP Regulated Type A	MCP Restricted	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type B-1	Uncontaminated	MCP Regulated Type A	Hazardous Material Type B	Hazardous Material Type B	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Restricted	Uncontaminated	Uncontaminated	MCP Regulated Type A	MCP Regulated Material Type B-2	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A
Chlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Diethyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Di-isopropyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethyl tertiary-butyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
tert-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tertiary-amyl methyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene O	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene P,M	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylenes (Total)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total VOCs	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds - Low Level Analysis																									
1,1,1,2-Tetrachloroethane	mg/kg	<0.0038	<0.0040	<0.0045	<0.0036	<0.0047	<0.0037	<0.0038	<0.0045	<0.0042	<0.0045	<0.0041	<0.0033	<0.0045	<0.0036	<0.0032	<0.0043	<0.0031	<0.0029	<0.0027	<0.0049	<0.0045	<0.0037	<0.0035	<0.0053
1,1,1-Trichloroethane	mg/kg	<0.0038	<0.0040	<0.0045	<0.0036	<0.0047	<0.0037	<0.0038	<0.0045	<0.0042	<0.0045	<0.0041	<0.0033	<0.0045	<0.0036	<0.0032	<0.0043	<0.0031	<0.0029	<0.0027	<0.0049	<0.0045	<0.0037	<0.0035	<0.0053
1,1,2,2-Tetrachloroethane	mg/kg	<0.0015	<0.0016	<0.0018	<0.0014	<0.0019	<0.0015	<0.0015	<0.0018	<0.0017	<0.0018	<0.0016	<0.0013	<0.0018	<0.0015	<0.0013	<0.0017	<0.0013	<0.0011	<0.0011	<0.0020	<0.0018	<0.0015	<0.0014	<0.0021
1,1,2-Trichloroethane	mg/kg	<0.0038	<0.0040	<0.0045	<0.0036	<0.0047	<0.0037	<0.0038	<0.0045	<0.0042	<0.0045	<0.0041	<0.0033	<0.0045	<0.0036	<0.0032	<0.0043	<0.0031	<0.0029	<0.0027	<0.0049	<0.0045	<0.0037	<0.0035	<0.0053
1,1-Dichloroethane	mg/kg	<0.0038	<0.0040	<0.0045	<0.0036	<0.0047	<0.0037	<0.0038	<0.0045	<0.0042	<0.0045	<0.0041	<0.0033	<0.0045	<0.0036	<0.0032	<0.0043	<0.0031	<0.0029	<0.0027	<0.0049	<0.0045	<0.0037	<0.0035	<0.0053
1,1-Dichloroethene	mg/kg	<0.0038	<0.0040	<0.0045	<0.0036	<0.0047	<0.0037	<0.0038	<0.0045	<0.0042	<0.0045	<0.0041	<0.0033	<0.0045	<0.0036	<0.0032	<0.0043	<0.0031	<0.0029	<0.0027	<0.0049	<0.0045	<0.0037	<0.0035	<0.0053
1,1-Dichloropropene	mg/kg	<0.0038	<0.0040	<0.0045	<0.0036	<0.0047	<0.0037	<0.0038	<0.0045	<0.0042	<0.0045	<0.0041	<0.0033	<0.0045	<0.0036	<0.0032	<0.0043	<0.0031	<0.0029	<0.0027	<0.0049	<0.0045	<0.0037	<0.0035	<0.0053
1,2,3-Trichlorobenzene	mg/kg	<0.0038	<0.0040	<0.0045	<0.0036	<0.0047	<0.0037	<0.0038	<0.0045	<0.0042	<0.0045	<0.0041	<0.0033	<0.0045	<0.0036	<0.0032	<0.0043	<0.0031	<0.0029	<0.0027	<0.0049	<0.0045	<0.0037	<0.0035	<0.0053
1,2,3-Trichloropropane	mg/kg	<0.0038	<0.0040	<0.0045	<0.0036	<0.0047	<0.0037	<0.0038	<0.0045	<0.0042	<0.0045	<0.0041	<0.0033	<0.0045	<0.0036	<0.0032	<0.0043	<0.0031	<0.0029	<0.0027	<0.0049	<0.0045	<0.0037	<0.0035	<0.0053
1,2,4-Trichlorobenzene	mg/kg	<0.0038	<0.0040	<0.0045	<0.0036	<0.0047	<0.0037	<0.0038	<0.0045	<0.0042	<0.0045	<0.0041	<0.0033	<0.0045	<0.0036	<0.0032	<0.0043	<0.0031	<0.0029	<0.0027	<0.0049	<0.0045	<0.0037	<0.0035	<0.0053
1,2,4-Trimethylbenzene	mg/kg	<0.0038	<0.0040	<0.0045	<0.0036	<0.0047	<0.0037	<0.0038	<0.0045	<0.0042	<0.0045	<0.0041	<0.0033	<0.0045	<0.0036	<0.0032	<0.0043	<0.0031	<0.0029	<0.0027	0.006	<0.0045	<0.0037	<0.0035	<0.0053
1,2-Dibromo-3-Chloropropane	mg/kg	<0.0038	<0.0040	<0.0045	<0.0036	<0.0047	<0.0037	<0.0038	<0.0045	<0.0042	<0.0045	<0.0041	<0.0033	<0.0045	<0.0036	<0.0032	<0.0043	<0.0031	<0.0029	<0.0027	<0.0049	<0.0045	<0.0037	<0.0035	<0.0053
1,2-Dibromoethane	mg/kg	<0.0038	<0.0040	<0.0045	<0.0036	<0.0047	<0.0037	<0.0038	<0.0045	<0.0042	<0.0045	<0.0041	<0.0033	<0.0045	<0.0036	<0.0032	<0.0043	<0.0031	<0.0029	<0.0027	<0.0049	<0.0045	<0.0037	<0.0035	<0.0053
1,2-Dichlorobenzene	mg/kg	<0.0038	<0.0040	<0.0045	<0.0036	<0.0047	<0.0037	<0.0038	<0.0045	<0.0042	<0.0045	<0.0041	<0.0033	<0.0045	<0.0036	<0.0032	<0.0043	<0.0031	<0.0029	<0.0027	<0.0049	<0.0045	<0.0037	<0.0035	<0.0053
1,2-Dichloroethane	mg/kg	<0.0038	<0.0040	<0.0045	<0.0036	<0.0047	<0.0037	<0.0038	<0.0045	<0.0042	<0.0045	<0.0041	<0.0033	<0.0045	<0.0036	<0.0032	<0.0043	<0.0031	<0.0029	<0.0027	<0.0049	<0.0045	<0.0037	<0.0035	<0.0053
1,2-Dichloropropane	mg/kg	<0.0038	<0.0040	<0.0045	<0.0036	<0.0047	<0.0037	<0.0038	<0.0045	<0.0042	<0.0045	<0.0041	<0.0033	<0.0045	<0.0036	<0.0032	<0.0043	<0.0031	<0.0029	<0.0027	<0.0049	<0.0045	<0.0037	<0.0035	<0.0053
1,3,5-Trimethylbenzene	mg/kg	<0.0038	<0.0040	<0.0045	<0.0036	<0.0047	<0.0037	<0.0038	<0.0045	<0.0042	<0.0045	<0.0041	<0.0033	<0.0045	<0.0036	<0.0032	<0.0043	<0.0031	<0.0029	<0.0027	<0.0049	<0.0045	<0.0037	<0.0035	<0.0053
1,3-Dichlorobenzene	mg/kg	<0.0038	<0.0040	<0.0045	<0.0036	<0.0047	<0.0037	<0.0038	<0.0045	<0.0042	<0.0045	<0.0041	<0.0033	<0.0045	<0.0036	<0.0032	<0.0043	<0.0031	<0.0029	<0.0027	<0.0049	<0.0045	<0.0037	<0.0035	<0.0053
1,3-Dichloropropane	mg/kg	<0.0038	<0.0040	<0.0045	<0.0036	<0.0047	<0.0037	<0.0038	<0.0045	<0.0042	<0.0045	<0.0041	<0.0033	<0.0045	<0.0036	<0.0032	<0.0043	<0.0031	<0.0029	<0.0027	<0.0049	<0.0045	<0.0037	<0.0035	<0.0053
1,4-Dichlorobenzene	mg/kg	<0.0038	<0.0040	<0.0045	<0.0036	<0.0047	<0.0037	<0.0038	<0.0045	<0.0042	<0.0045	<0.0041	<0.0033	<0.0045	<0.0036	<0.0032	<0.0043	<0.0031	<0.0029	<0.0027	<0.0049	<0.0045	<0.0037	<0.0035	<0.0053
1,4-Dioxane	mg/kg	<0.0759	<0.0795	<0.0897	<0.0718	<0.0931	<0.0738	<0.0758	<0.0908	<0.0833	<0.0893	<0.0821	<0.0656	<0.0901	<0.0726	<0.0649	<0.0868	<0.0628	<0.0573	<0.0548	<0.0981	<0.0910	<0.0737	<0.0696	<0.106
2,2-Dichloropropane	mg/kg	<0.0038	<0.0040	<0.0045	<0.0036	<0.0047	<0.0037	<0.0038	<0.0045	<0.0042	<0.0045	<0.0041	<0.0033	<0.0045	<0.0036	<0.0032	<0.0043	<0.0031	<0.0029	<0.0027	<0.0049	<0.0045	<0.0037	<0.0035	<0.0053
2-Butanone	mg/kg	<0.0076	<0.0079	<0.0090	<0.0072	<0.0093	<0.0074	<0.0076	<0.0091	<0.0083	<0.0089	<0.0082	<0.0066	<0.0090	<0.0073	<0.0065	<0.0087	<0.0063	<0.0057	<0.0055	0.0112	<0.0091	<0.0074	<0.0070	<0.0106
2-Chlorotoluene	mg/kg	<0.0038	<0.0040	<0.0045	<0.0036	<0.0047	<0.0037	<0.0038	<0.0045	<0.0042	<0.0045	<0.0041	<0.0033	<0.0045	<0.0036	<0.0032	<0.0043	<0.0031	<0.0029	<0.0027	<0.0049	<0.0045	<0.0037	<0.0035	<0.0053
2-Hexanone	mg/kg	<0.0076	<0.0079	<0.0090	<0.0072	<0.0093	<0.0074	<0.0076	<0.0091	<0.0083	<0.0089	<0.0082	<0.0066	<0.0090	<0.0073	<0.0065	<0.0087	<0.0063	<0.0057	<0.0055	<0.0098	<0.0091	<0.0074	<0.0070	<0.0106
4-Chlorotoluene	mg/kg	<0.0038	<0.0040	<0.0045	<0.0036	<0.0047	<0.0037	<0.0038	<0.0045	<0.0042	<0.0045	<0.0041	<0.0033	<0.0045	<0.0036	<0.0032	<0.0043	<0.0031	<0.0029	<0.0027	<0.0049	<0.0045	<0.0037	<0.0035	<0.0053
4-Isopropyltoluene	mg/kg	<0.0038	<0.0040	<0.0045	<0.0036	<0.0047	<0.0037	<0.0038	<0.0045	<0.0042	<0.0045	<0.0041	<0.0033	<0.0045	<0.0036	<0.0032	<0.0043	<0.0031	<0.0029	<0.0027	<0.0049	<0.0045	<0.0037	<0.0035	<0.0053
4-Methyl-2-Pentanone	mg/kg	<0.0076	<0.0079	<0.0090	<0.0072	<0.0093	<0.0074	<0.0076	<0.0091	<0.0083	<0.0089	<0.0082	<0.0066	<0.0090	<0.0073	<0.0065	<0.0087	<0.0063	<0.0057	<0.0055	<0.0098	<0.0091	<0.0074	<0.0070	<0.0106
Acetone	mg/kg	<0.0076	<0.0079	0.0357	0.0219	0.0171	<0.0074	0.0103	<0.0091	<0.0083	<0.0089	<0.0082	<0.0066	<0.0090	<0.0073	0.0705	<0.0087	<0.0063	<0.0057	<0.0055	0.0614	0.0175	0.0431	0.0203	0.194
Benzene	mg/kg	<0.0038	<0.0040	<0.0045	<0.0036	<0.0047	<0.0037	<0.0038	<0.0045	<0.0042	<0.0045	<0.0041	<0.0033	<0.0045	<0.0036	<0.0032	<0.0043	<0.0031	<0.0029	<0.0027	<0.0049	<0.0045	<0.0037	<0.0035	<0.0053
Bromobenzene	mg/kg	<0.0038	<0.0040	<0.0045	<0.0036	<0.0047	<0.0037	<0.0038	<0.0045	<0.0042	<0.0045	<0.0041	<0.0033	<0.0045	<0.0036	<0.0032	<0.0043	<0.0031	<0.0029	<0.0027	<0.0049	<0.0045	<0.0037	<0.0035	<0.0053
Bromochloromethane	mg/kg	<0.0038	<0.0040	<0.0045	<0.0036	<0.0047	<0.0037	<0.0038	<0.0045	<0.0042	<0.0045	<0.0041	<0.0033	<0.0045	<0.0036	<0.0032	<0.0043	<0.0031	<0.0029	<0.0027	<0.0049	<0.0045	<0.0037	<0.0035	<0.0053
Bromodichloromethane	mg/kg	<0.0038	<0.0040	<0.0045	<0.0036	<0.0047	<0.0037	<0.0038	<0.0045	<0.0042	<0.0045	<0.0041	<0.0033	<0.0045	<0.0036	<0.0032	<0.0043	<0.0031	<0.0029	<0.0027	<0.0049	<0.0045	<0.0037	<0.0035	<0.0053
Bromoform	mg/kg	<0.0038	<0.0040	<0.0045	<0.0036	<0.0047	<0.0037	<0.0038	<0.0045	<0.0042	<0.0045	<0.0041	<0.0033	<0.0045	<0.0036	<0.0032	<0.0043	<0.0031	<0.0029	<0.0027	<0.0049	<0.0045	<0.0037	<0.0035	<0.0053
Bromomethane	mg/kg	<0.0076	<0.0079	<0.0090	<0.0072	<0.0093	<0.0074	<0.0076	<0.0091	<0.0083	<0.0089	<0.0082	<0.0066	<0.0090	<0.0073	<0.0065	<0.0087	<0.0063	<0.0057	<0.0055	<0.0098	<0.0091	<0.0074	<0.0070	<0.0106
Carbon Disulfide	mg/kg	<0.0038	<0.0040	<0.0045	<0.0036	<0.0047	<0.0037	<0.0038	<0.0045	<0.0042	<0.0045	<0.0041	<0.0033	<0.0045	<0.0036	<0.0032	<0.0043	<0.0031	<0.0029	<0.0027	<0.0049	<0.0045	<0.0037	<0.0035	<0.0053
Carbon Tetrachloride	mg/kg	<0.0038	<0.0040	<0.0045	<0.0036	<0.0047	<0.0037	<0.0038	<0.0045	<0.0042	<0.0045	<0.0041	<0.0033	<0.0045	<0.0036	<0.0032	<0.0043	<0.0031	<0.0029	<0.0027	<0.0049	<0.0045	<0.0037	<0.0035	<0.0053
Chlorobenzene	mg/kg	<0.0038	<0.0040	<0.0045	<0.0036	<0.0047	<0.0037	<0.0038	<0.0045	<0.0042	<0.0045	<0.0041	<0.0033	<0.0045	<0.0036	<0.0032	<0.0043	<0.0031	<0.0029	<0.0027	<0.0049	<0.0045	<0.0037	<0.0035	<0.0053
Chloroethane	mg/kg	<0.0076	<0.0079	<0.0090	<0.0072	<0.0093	<0.0074	<0.0076	<0.0091	<0.0083	<0.0089	<0.0082	<0.0066	<0.0090	<0.0073	<0.0065	<0.0087	<0.0063	<0.0057	<0.0055	<0.0098	<0.0091	<0.0074	<0.0070	<0.0106
Chloroform	mg/kg	<0.0038	<0.0040	<0.0045	0.0038	<0.0047	<0.0037	<0.0038	<0.0045	<0.0042	<0.0045	<0.0041	<0.0033	<0.0045	<0.0036	<0.0032	<0.0043	<0.0031	<0.0029	<0.0027	<0.0049	<0.0045	<0.0037	<0.0035	<0.0053
Chloromethane	mg/kg	<0.0076	<0.0079	<0.0090	<0.0072	<0.0093	<0.0074	<0.0076	<0.0091	<0.0083	<0.0089	<0.0082	<0.0066	<0.0090	<0.0073	<0.0065	<0.0087	<0.0063	<0.0057	<0.0055	<0.0098	<0.0091	<0.0074	<0.0070	<0.0106
cis-1,2-Dichloroethene	mg/kg	<0.0038	<0.0040	<0.0045	0.0053	<0.0047	<0.0037	<0.0038	<0.0045	<0.0042	<0.0045	<0.0041	<0.0033	<0.0045	<0.0036	<0.0032	<0.0043	<0.0031	<0.0029	<0.0027	<0.0049	<0.0045	<0.0037	<0.0035	<0.0053
cis-1,3-Dichloropropene	mg/kg	<0.0038	<0.0040	<0.0045	<0.0036	<0.0047	<0.0037	<0.0038	<0.0045	<0.0042	<0.0045	<0.0041	<0.0033	<0.0045	<0.0036	<0.0032	<0.0043	<0.0031	<0.0029	<0.0027	<0.0049	<0.0045	<0.0037	<0.0035	<0.0053
Dibromochloromethane	mg/kg	<0.0015	<0.0016	<0.0018	<0.0014	<0.0019	<0.0015	<0.0015	<0.0018	<0.0017	<0.0018	<0.0016	<0.0013	<0.0018	<0.0015	<0.0013	<0.0017	<0.0013	<0.0011	<0.0011	<0.0020	<0.0018	<0.0015	<0.0014	<0.0021
Dibromomethane	mg/kg	<0.0038	<0.0040	<0.0045	<0.0036	<0.0047	<0.0037	<0.0038	<0.0045	<0.0042	<0.0045	<0.0041	<0.0033	<0.0045	<0.0036	<0.0032	<0.0043	<0.0031	<0.0029	<0.0027	<0.0049	<0.0045	<0.0037	<0.0035	<0.0053
Dichlorodifluoromethane	mg/kg	<0.0076	<0.0079	<0.0090	<0.0072	<0.0093	<0.0074	<0.0076	<0.0091	<0.0083	<0.0089	<0.0082	<0.0066	<0.0090	<0.0073	<0.0065	<0.0087	<0.0063	<0.0057	<0.0055	<0.0098	<0.0091	<0.0074	<0.0070	<0.0106
Diethyl Ether	mg/kg	<0.0038	<0.0040	<0.0045	0.0045	<0.0047	<0.0037	<0.0038	<0.0045	<0.0042	<0.0045	<0.0041	<0.0033	<0.0045	<0.0036	<0.0032	<0.0043	<0.0031	<0.0029	<0.0027	<0.0049	<0.0045	<0.0037	<0.0035	<0.0053
Di-isopropyl ether	mg/kg	<0.0038	<0.0040	<0.0045	<0.0036	<0.0047	<0.0037	<0.0038	<0.0045	<0.0042	<0.0045	<0.0041	<0.0033	<0.0045	<0.0036	<0.0032	<0.0043	<0.0031	<0.0029	<0.0027	<0.0049	<0.0045	<0.0037	<0.0035	<0.0053
Ethyl tertiary-butyl ether	mg/kg	<0.0038	<0.0040	<0.0045	<0.0036	<0.0047	<0.0037	<0.0038	<0.0045	<0.0042	<0.0045	<0.0041	<0.0033	<0.0045	<0.0036	<0.0032	<0.0043	<0.0031	<0.0029	<0.0027	<0.0049	<0.0045	<0.0037	<0.0035	<0.0053
Ethylbenzene	mg/kg	<0.0038	<0.0040	<0.0045	<0.0036	<0.0047	<0.0037	<0.0038	<0.0045	<0.0042	<0.0045	<0.0041	<0.0033	<0.0045	<0.0036	<0.0032	<0.0043	<0.0031	<0.0029	<0.0027	<0.0049	<0.0045	<0.0037	<0.0035	<0.0053
Hexachlorobutadiene	mg/kg	<0.0038	<0.0040	<0.0045	<0.0036	<0.0047	<0.0037	<0.0038	<0.0045	<0.0042	<0.0045	<0.0041	<0.0033	<0.0045	<0.0036	<0.0032	<0.0043	<0.0031	<0.0029	<0.0027	<0.0049	<0.0045	<0.0037	<0.0035	<0.0053
Isopropylbenzene	mg/kg	<0.0038	<0.0040	<0.0045	<0.0036	<0.0047	<0.0037	<0.0038	<0.0045	<0.0042	<0.0045	<0.0041	<0.0033	<0.0045	<0.0036	<0.0032	<0.0043	<0.0031	<0.0029	<0.0027	<0.0049	<0.0045	<0.0037	<0.0035	<0.0053
Methyl tert-Butyl Ether	mg/kg	<0.0038	<0.0040	<0.0045	<0.0036	<0.0047	<0.0037	<0.0038	<0.0045	<0.0042	<0.0045	<0.0041	<0.0033	<0.0045	<0.0036	<0.0032	<0.0043	<0.0031	<0.0029	<0.0027	<0.0049	<0.0045	<0.0037	<0.0035	<0.0053
Methylene Chloride	mg/kg	<0.0076	<0.0079	<0.0090	<0.0072	<0.0093	<0.0074	<0.0076	<0.0091	<0.0083	<0.0089	<0.0082	<0.0066	<0.0090	<0.0073	<0.0065	<0.0087	<0.0063	<0.0057	<0.0055	<0.0098	<0.0091	<0.0074	<0.0070	<0.0106
Naphthalene	mg/kg	<0.0038	<0.0040	<0.0045	<0.0036	<0.0047	<0.0037	<0.0038	<0.0045	<0.0042	<0.0045	<0.0041	<0.0033	<0.0045	<0.0036	<0.0032	<0.0043	<0.0031	<0.0029	<0.0027	0.0222	<0.0045	<0.0037	<0.0035	<0.0053
n-Butylbenzene	mg/kg	<0.0038	<0.0040	<0.0045	<0.0036	<0.0047	<0.0037	<0.0038	<0.0045	<0.0042	<0.0045	<0.0041	<0.0033	<0.0045	<0.0036	<0.0032	<0.0043	<0.0031	<0.0029	<0.0027	<0.0049	<0.0045	<0.0037	<0.0035	<0.0053
n-Propylbenzene	mg/kg	<0.0038	<0.0040	<0.0045	<0.0036	<0.0047	<0.0037	<0.0038	<0.0045	<0.0042	<0.0045	<0.0041	<0.0033	<0.0045	<0.0036	<0.0032	<0.0043	<0.0031	<0.0029	<0.0027	<0.0049	<0.0045	<0.0037	<0.0035	<0.0053
sec-Butylbenzene	mg/kg	<0.0038	<0.0040	<0.0045	<0.0036	<0.0047	<0.0037	<0.0038	<0.0045	<0.0042	<0.0045	<0.0041	<0.0033	<0.0045	<0.0036	<0.0032	<0.0043	<0.0031	<0.0029	<0.0027	<0.0049	<0.0045	<0.0037	<0.0035	<0.0053

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	D03 D03S09 1502393 Natural Clay 29 - 31 2/26/2015	D03 D03S10S11 1502393 Natural Clay 34 - 38 2/26/2015	D04 D04S01S02A 1502393 Fill 0 - 3.3 2/26/2015	D04 D04S02BS04A 1502393 Fill 3.3 - 6.6 2/26/2015	D04 D04S05 1502393 Natural Organics 8 - 10 2/26/2015	D04 D04S06 1502408 Natural Clay 14 - 16 2/27/2015	D04 D04S07 1502408 Natural Clay 19 -21 2/27/2015	D04 D04S08 1502408 Natural Clay 24 -26 2/27/2015	D04 D04S09 1502408 Natural Sand/Gravel 29 - 31 2/27/2015	D04 D04S10S11 1502408 Natural Clay 34 - 36.5 2/27/2015	D06 D06S01S02A 1503070 Fill 0 - 3.3 3/4/2015	D06 D06S02BS03A 1503070 Fill 3.3 - 6.6 3/4/2015	D06 D06S03BS04 1503070 Fill 6.6 - 9 3/4/2015	D06 D06S05S06 1503070 Natural Sand/Gravel 9 - 13 3/4/2015	D06 D06S07 1503070 Natural Clay 14 - 16 3/4/2015	D06 D06S08 1503070 Natural Clay 19 -21 3/4/2015	D06 D06S09 1503070 Natural Clay 24 -26 3/4/2015	D06 D06S10 1503070 Natural Sand/Gravel 29 - 31 3/4/2015	D06 D06S11S12 1503070 Natural Sand/Gravel 34 - 35 3/4/2015	D07 D07S01S02A 1501546 Fill 0 - 3.3 1/29/2015	D07 D07S02BS04A 1501546 Fill 3.3 - 6.6 1/29/2015	D07 D07S04BS05 1501546 Fill 6.6 - 10 1/29/2015	D07 D07S06 1501546 Fill 10 - 12 1/29/2015	D07 D07S07 1501546 Natural Clay 14 - 16 1/29/2015
Preliminary Disposal Facility Category		MCP Regulated Type A	MCP Restricted	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type B-1	Uncontaminated	MCP Regulated Type A	Hazardous Material Type B	Hazardous Material Type B	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Restricted	Uncontaminated	Uncontaminated	MCP Regulated Type A	MCP Regulated Material Type B-2	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A
Styrene	mg/kg	<0.0038	<0.0040	<0.0045	<0.0036	<0.0047	<0.0037	<0.0038	<0.0045	<0.0042	<0.0045	<0.0041	<0.0033	<0.0045	<0.0036	<0.0032	<0.0043	<0.0031	<0.0029	<0.0027	<0.0049	<0.0045	<0.0037	<0.0035	<0.0053
tert-Butylbenzene	mg/kg	<0.0038	<0.0040	<0.0045	<0.0036	<0.0047	<0.0037	<0.0038	<0.0045	<0.0042	<0.0045	<0.0041	<0.0033	<0.0045	<0.0036	<0.0032	<0.0043	<0.0031	<0.0029	<0.0027	<0.0049	<0.0045	<0.0037	<0.0035	<0.0053
Tertiary-amyl methyl ether	mg/kg	<0.0038	<0.0040	<0.0045	<0.0036	<0.0047	<0.0037	<0.0038	<0.0045	<0.0042	<0.0045	<0.0041	<0.0033	<0.0045	<0.0036	<0.0032	<0.0043	<0.0031	<0.0029	<0.0027	<0.0049	<0.0045	<0.0037	<0.0035	<0.0053
Tetrachloroethene	mg/kg	<0.0038	<0.0040	<0.0045	<0.0036	<0.0047	<0.0037	<0.0038	<0.0045	<0.0042	<0.0045	<0.0041	<0.0033	<0.0045	<0.0036	<0.0032	<0.0043	<0.0031	<0.0029	<0.0027	<0.0049	<0.0045	<0.0037	<0.0035	<0.0053
Tetrahydrofuran	mg/kg	<0.0038	<0.0040	<0.0045	<0.0036	<0.0047	<0.0037	<0.0038	<0.0045	<0.0042	<0.0045	<0.0041	<0.0033	<0.0045	<0.0036	<0.0032	<0.0043	<0.0031	<0.0029	<0.0027	<0.0049	<0.0045	<0.0037	<0.0035	<0.0053
Toluene	mg/kg	<0.0038	<0.0040	<0.0045	<0.0036	<0.0047	<0.0037	<0.0038	<0.0045	<0.0042	<0.0045	<0.0041	<0.0033	<0.0045	<0.0036	<0.0032	<0.0043	<0.0031	<0.0029	<0.0027	0.0066	<0.0045	<0.0037	<0.0035	<0.0053
trans-1,2-Dichloroethene	mg/kg	<0.0038	<0.0040	<0.0045	<0.0036	<0.0047	<0.0037	<0.0038	<0.0045	<0.0042	<0.0045	<0.0041	<0.0033	<0.0045	<0.0036	<0.0032	<0.0043	<0.0031	<0.0029	<0.0027	<0.0049	<0.0045	<0.0037	<0.0035	<0.0053
trans-1,3-Dichloropropene	mg/kg	<0.0038	<0.0040	<0.0045	<0.0036	<0.0047	<0.0037	<0.0038	<0.0045	<0.0042	<0.0045	<0.0041	<0.0033	<0.0045	<0.0036	<0.0032	<0.0043	<0.0031	<0.0029	<0.0027	<0.0049	<0.0045	<0.0037	<0.0035	<0.0053
Trichloroethene	mg/kg	<0.0038	<0.0040	<0.0045	0.0069	<0.0047	<0.0037	<0.0038	<0.0045	<0.0042	<0.0045	<0.0041	<0.0033	<0.0045	<0.0036	<0.0032	<0.0043	<0.0031	<0.0029	<0.0027	<0.0049	<0.0045	<0.0037	<0.0035	<0.0053
Trichlorofluoromethane	mg/kg	<0.0038	<0.0040	<0.0045	<0.0036	<0.0047	<0.0037	<0.0038	<0.0045	<0.0042	<0.0045	<0.0041	<0.0033	<0.0045	<0.0036	<0.0032	<0.0043	<0.0031	<0.0029	<0.0027	<0.0049	<0.0045	<0.0037	<0.0035	<0.0053
Vinyl Chloride	mg/kg	<0.0076	<0.0079	<0.0090	<0.0072	<0.0093	<0.0074	<0.0076	<0.0091	<0.0083	<0.0089	<0.0082	<0.0066	<0.0090	<0.0073	<0.0065	<0.0087	<0.0063	<0.0057	<0.0055	<0.0098	<0.0091	<0.0074	<0.0070	<0.0106
Xylene O	mg/kg	<0.0038	<0.0040	<0.0045	<0.0036	<0.0047	<0.0037	<0.0038	<0.0045	<0.0042	<0.0045	<0.0041	<0.0033	<0.0045	<0.0036	<0.0032	<0.0043	<0.0031	<0.0029	<0.0027	<0.0049	<0.0045	<0.0037	<0.0035	<0.0053
Xylene P,M	mg/kg	<0.0076	<0.0079	<0.0090	<0.0072	<0.0093	<0.0074	<0.0076	<0.0091	<0.0083	<0.0089	<0.0082	<0.0066	<0.0090	<0.0073	<0.0065	<0.0087	<0.0063	<0.0057	<0.0055	<0.0098	<0.0091	<0.0074	<0.0070	<0.0106
Xylenes (Total)	mg/kg	<0.0076	<0.0079	<0.0090	<0.0072	<0.0093	<0.0074	<0.0076	<0.0091	<0.0083	<0.0089	<0.0082	<0.0066	<0.0090	<0.0073	<0.0065	<0.0087	<0.0063	<0.0057	<0.0055	<0.0098	<0.0091	<0.0074	<0.0070	<0.0106
Total VOCs (Low Level)	mg/kg	ND	ND	0.0357	0.0424	0.0171	ND	0.0103	ND	ND	ND	ND	ND	ND	ND	0.0705	ND	ND	ND	ND	0.1074	0.0175	0.0431	0.0203	0.194
Semi-Volatile Organic Compounds																									
1,2,4-Trichlorobenzene	mg/kg	<0.963	<0.966	<6.62	<0.911	<1.03	<1.00	<1.04	<1.09	<0.971	<0.987	<0.920	<0.948	<1.05	<0.915	<1.09	<1.07	<1.05	<0.875	<0.880	<3.45	<0.920	<0.949	<1.02	<1.09
1,2-Dichlorobenzene	mg/kg	<0.963	<0.966	<6.62	<0.911	<1.03	<1.00	<1.04	<1.09	<0.971	<0.987	<0.920	<0.948	<1.05	<0.915	<1.09	<1.07	<1.05	<0.875	<0.880	<3.45	<0.920	<0.949	<1.02	<1.09
1,3-Dichlorobenzene	mg/kg	<0.963	<0.966	<6.62	<0.911	<1.03	<1.00	<1.04	<1.09	<0.971	<0.987	<0.920	<0.948	<1.05	<0.915	<1.09	<1.07	<1.05	<0.875	<0.880	<3.45	<0.920	<0.949	<1.02	<1.09
1,4-Dichlorobenzene	mg/kg	<0.483	<0.485	<3.32	<0.457	<0.516	<0.503	<0.524	<0.545	<0.487	<0.495	<0.461	<0.475	<0.525	<0.459	<0.545	<0.536	<0.528	<0.439	<0.441	<1.73	<0.461	<0.476	<0.512	<0.547
2,4,5-Trichlorophenol	mg/kg	<0.963	<0.966	<6.62	<0.911	<1.03	<1.00	<1.04	<1.09	<0.971	<0.987	<0.920	<0.948	<1.05	<0.915	<1.09	<1.07	<1.05	<0.875	<0.880	<3.45	<0.920	<0.949	<1.02	<1.09
2,4,6-Trichlorophenol	mg/kg	<0.963	<0.966	<6.62	<0.911	<1.03	<1.00	<1.04	<1.09	<0.971	<0.987	<0.920	<0.948	<1.05	<0.915	<1.09	<1.07	<1.05	<0.875	<0.880	<3.45	<0.920	<0.949	<1.02	<1.09
2,4-Dichlorophenol	mg/kg	<0.963	<0.966	<6.62	<0.911	<1.03	<1.00	<1.04	<1.09	<0.971	<0.987	<0.920	<0.948	<1.05	<0.915	<1.09	<1.07	<1.05	<0.875	<0.880	<3.45	<0.920	<0.949	<1.02	<1.09
2,4-Dimethylphenol	mg/kg	<0.963	<0.966	<6.62	<0.911	<1.03	<1.00	<1.04	<1.09	<0.971	<0.987	<0.920	<0.948	<1.05	<0.915	<1.09	<1.07	<1.05	<0.875	<0.880	<3.45	<0.920	<0.949	<1.02	<1.09
2,4-Dinitrophenol	mg/kg	<4.83	<4.85	<33.2	<4.57	<5.16	<5.03	<5.24	<5.45	<4.87	<4.95	<4.61	<4.75	<5.25	<4.59	<5.45	<5.36	<5.28	<4.39	<4.41	<17.3	<4.61	<4.76	<5.12	<5.47
2,4-Dinitrotoluene	mg/kg	<0.963	<0.966	<1.66	<0.911	<1.03	<1.00	<1.04	<1.09	<0.971	<0.987	<0.920	<0.948	<1.05	<0.915	<1.09	<1.07	<1.05	<0.875	<0.880	<1.73	<0.920	<0.949	<1.02	<1.09
2,6-Dinitrotoluene	mg/kg	<0.963	<0.966	<6.62	<0.911	<1.03	<1.00	<1.04	<1.09	<0.971	<0.987	<0.920	<0.948	<1.05	<0.915	<1.09	<1.07	<1.05	<0.875	<0.880	<3.45	<0.920	<0.949	<1.02	<1.09
2-Chloronaphthalene	mg/kg	<0.963	<0.966	<6.62	<0.911	<1.03	<1.00	<1.04	<1.09	<0.971	<0.987	<0.920	<0.948	<1.05	<0.915	<1.09	<1.07	<1.05	<0.875	<0.880	<3.45	<0.920	<0.949	<1.02	<1.09
2-Chlorophenol	mg/kg	<0.963	<0.966	<6.62	<0.911	<1.03	<1.00	<1.04	<1.09	<0.971	<0.987	<0.920	<0.948	<1.05	<0.915	<1.09	<1.07	<1.05	<0.875	<0.880	<3.45	<0.920	<0.949	<1.02	<1.09
2-Methylnaphthalene	mg/kg	<0.963	<0.966	<6.62	<0.911	<1.03	<1.00	<1.04	<1.09	<0.971	<0.987	<0.920	<0.948	<1.05	<0.915	<1.09	<1.07	<1.05	<0.875	<0.880	<3.45	<0.920	<0.949	<1.02	<1.09
2-Methylphenol	mg/kg	<0.963	<0.966	<6.62	<0.911	<1.03	<1.00	<1.04	<1.09	<0.971	<0.987	<0.920	<0.948	<1.05	<0.915	<1.09	<1.07	<1.05	<0.875	<0.880	<3.45	<0.920	<0.949	<1.02	<1.09
2-Nitrophenol	mg/kg	<0.963	<0.966	<6.62	<0.911	<1.03	<1.00	<1.04	<1.09	<0.971	<0.987	<0.920	<0.948	<1.05	<0.915	<1.09	<1.07	<1.05	<0.875	<0.880	<3.45	<0.920	<0.949	<1.02	<1.09
3,3´-Dichlorobenzidine	mg/kg	<1.93	<1.94	<13.3	<1.82	<2.06	<2.01	<2.09	<2.18	<1.95	<1.98	<1.84	<1.90	<2.10	<1.83	<2.18	<2.14	<2.11	<1.75	<1.76	<6.91	<1.84	<1.90	<2.05	<2.18
3+4-Methylphenol	mg/kg	<1.93	<1.94	<13.3	<1.82	<2.06	<2.01	<2.09	<2.18	<1.95	<1.98	<1.84	<1.90	<2.10	<1.83	<2.18	<2.14	<2.11	<1.75	<1.76	<6.91	<1.84	<1.90	<2.05	<2.18
4-Bromophenyl-phenylether	mg/kg	<0.963	<0.966	<6.62	<0.911	<1.03	<1.00	<1.04	<1.09	<0.971	<0.987	<0.920	<0.948	<1.05	<0.915	<1.09	<1.07	<1.05	<0.875	<0.880	<3.45	<0.920	<0.949	<1.02	<1.09
4-Chloroaniline	mg/kg	<1.93	<1.94	<3.32	<1.82	<2.06	<2.01	<2.09	<2.18	<1.95	<1.98	<1.84	<1.90	<2.10	<1.83	<2.18	<2.14	<2.11	<1.75	<1.76	<1.73	<1.84	<1.90	<2.05	<2.18
4-Nitrophenol	mg/kg	<4.83	<4.85	<33.2	<4.57	<5.16	<5.03	<5.24	<5.45	<4.87	<4.95	<4.61	<4.75	<5.25	<4.59	<5.45	<5.36	<5.28	<4.39	<4.41	<17.3	<4.61	<4.76	<5.12	<5.47
Acenaphthene	mg/kg	<0.963	<0.966	<6.62	<0.911	<1.03	<1.00	<1.04	<1.09	<0.971	<0.987	<0.920	<0.948	<1.05	<0.915	<1.09	<1.07	<1.05	<0.875	<0.880	<3.45	<0.920	<0.949	<1.02	<1.09
Acenaphthylene	mg/kg	<0.963	<0.966	<6.62	<0.911	<1.03	<1.00	<1.04	<1.09	<0.971	<0.987	<0.920	<0.948	<1.05	<0.915	<1.09	<1.07	<1.05	<0.875	<0.880	<3.45	<0.920	<0.949	<1.02	<1.09
Acetophenone	mg/kg	<1.93	<1.94	<13.3	<1.82	<2.06	<2.01	<2.09	<2.18	<1.95	<1.98	<1.84	<1.90	<2.10	<1.83	<2.18	<2.14	<2.11	<1.75	<1.76	<6.91	<1.84	<1.90	<2.05	<2.18
Aniline	mg/kg	<4.83	<4.85	<33.2	<4.57	<5.16	<5.03	<5.24	<5.45	<4.87	<4.95	<4.61	<4.75	<5.25	<4.59	<5.45	<5.36	<5.28	<4.39	<4.41	<17.3	<4.61	<4.76	<5.12	<5.47
Anthracene	mg/kg	<0.963	<0.966	<6.62	1.74	<1.03	<1.00	<1.04	<1.09	<0.971	<0.987	<0.920	<0.948	<1.05	<0.915	<1.09	<1.07	<1.05	<0.875	<0.880	<3.45	<0.920	<0.949	<1.02	<1.09
Azobenzene	mg/kg	<0.963	<0.966	<6.62	<0.911	<1.03	<1.00	<1.04	<1.09	<0.971	<0.987	<0.920	<0.948	<1.05	<0.915	<1.09	<1.07	<1.05	<0.875	<0.880	<3.45	<0.920	<0.949	<1.02	<1.09
Benzo(a)anthracene	mg/kg	<0.963	<0.966	<6.62	4.95	<1.03	<1.00	<1.04	<1.09	<0.971	<0.987	1.11	<0.948	<1.05	<0.915	<1.09	<1.07	<1.05	<0.875	<0.880	<3.45	0.963	<0.949	<1.02	<1.09
Benzo(a)pyrene	mg/kg	<0.483	<0.485	4.33	4.41	<0.516	<0.503	<0.524	<0.545	<0.487	<0.495	0.94	<0.475	<0.525	<0.459	<0.545	<0.536	<0.528	<0.439	<0.441	<1.73	0.693	<0.476	<0.512	<0.547
Benzo(b)fluoranthene	mg/kg	<0.963	<0.966	<6.62	4.65	<1.03	<1.00	<1.04	<1.09	<0.971	<0.987	1.05	<0.948	<1.05	<0.915	<1.09	<1.07	<1.05	<0.875	<0.880	<3.45	<0.920	<0.949	<1.02	<1.09
Benzo(g,h,i)perylene	mg/kg	<0.963	<0.966	<6.62	3	<1.03	<1.00	<1.04	<1.09	<0.971	<0.987	<0.920	<0.948	<1.05	<0.915	<1.09	<1.07	<1.05	<0.875	<0.880	<3.45	<0.920	<0.949	<1.02	<1.09
Benzo(k)fluoranthene	mg/kg	<0.963	<0.966	<6.62	2.15	<1.03	<1.00	<1.04	<1.09	<0.971	<0.987	1.01	<0.948	<1.05	<0.915	<1.09	<1.07	<1.05	<0.875	<0.880	<3.45	<0.920	<0.949	<1.02	<1.09
bis(2-Chloroethoxy)methane	mg/kg	<0.963	<0.966	<6.62	<0.911	<1.03	<1.00	<1.04	<1.09	<0.971	<0.987	<0.920	<0.948	<1.05	<0.915	<1.09	<1.07	<1.05	<0.875	<0.880	<3.45	<0.920	<0.949	<1.02	<1.09
bis(2-Chloroethyl)ether	mg/kg	<0.483	<0.485	<0.656	<0.457	<0.516	<0.503	<0.524	<0.545	<0.487	<0.495	<0.461	<0.475	<0.525	<0.459	<0.545	<0.536	<0.528	<0.439	<0.441	<0.342	<0.461	<0.476	<0.512	<0.547
bis(2-chloroisopropyl)Ether	mg/kg	<0.483	<0.485	<0.656	<0.457	<0.516	<0.503	<0.524	<0.545	<0.487	<0.495	<0.461	<0.475	<0.525	<0.459	<0.545	<0.536	<0.528	<0.439	<0.441	<0.342	<0.461	<0.476	<0.512	<0.547
bis(2-Ethylhexyl)phthalate	mg/kg	<0.963	<0.966	<6.62	<0.911	<1.03	<1.00	<1.04	<1.09	<0.971	<0.987	<0.920	<0.948	<1.05	<0.915	<1.09	<1.07	<1.05	<0.875	<0.880	7.77	<0.920	<0.949	<1.02	<1.09
Butylbenzylphthalate	mg/kg	<0.963	<0.966	<6.62	<0.911	<1.03	<1.00	<1.04	<1.09	<0.971	<0.987	<0.920	<0.948	<1.05	<0.915	<1.09	<1.07	<1.05	<0.875	<0.880	<3.45	<0.920	<0.949	<1.02	<1.09
Chrysene	mg/kg	<0.483	<0.485	5	4.66	<0.516	<0.503	<0.524	<0.545	<0.487	<0.495	1.22	<0.475	<0.525	<0.459	<0.545	<0.536	<0.528	<0.439	<0.441	<1.73	0.989	<0.476	<0.512	<0.547
Dibenzo(a,h)Anthracene	mg/kg	<0.483	<0.485	<3.32	<0.457	<0.516	<0.503	<0.524	<0.545	<0.487	<0.495	<0.461	<0.475	<0.525	<0.459	<0.545	<0.536	<0.528	<0.439	<0.441	<1.73	<0.461	<0.476	<0.512	<0.547
Dibenzofuran	mg/kg	<0.963	<0.966	<6.62	<0.911	<1.03	<1.00	<1.04	<1.09	<0.971	<0.987	<0.920	<0.948	<1.05	<0.915	<1.09	<1.07	<1.05	<0.875	<0.880	<3.45	<0.920	<0.949	<1.02	<1.09
Diethylphthalate	mg/kg	<0.963	<0.966	<6.62	<0.911	<1.03	<1.00	<1.04	<1.09	<0.971	<0.987	<0.920	<0.948	<1.05	<0.915	<1.09	<1.07	<1.05	<0.875	<0.880	<3.45	<0.920	<0.949	<1.02	<1.09
Dimethylphthalate	mg/kg	<0.963	<0.966	<6.62	<0.911	<1.03	<1.00	<1.04	<1.09	<0.971	<0.987	<0.920	<0.948	<1.05	<0.915	<1.09	<1.07	<1.05	<0.875	<0.880	<3.45	<0.920	<0.949	<1.02	<1.09
Di-n-butylphthalate	mg/kg	<0.963	<0.966	<6.62	<0.911	<1.03	<1.00	<1.04	<1.09	<0.971	<0.987	<0.920	<0.948	<1.05	<0.915	<1.09	<1.07	<1.05	<0.875	<0.880	<3.45	<0.920	<0.949	<1.02	<1.09
Di-n-octylphthalate	mg/kg	<0.963	<0.966	<6.62	<0.911	<1.03	<1.00	<1.04	<1.09	<0.971	<0.987	<0.920	<0.948	<1.05	<0.915	<1.09	<1.07	<1.05	<0.875	<0.880	<3.45	<0.920	<0.949	<1.02	<1.09
Fluoranthene	mg/kg	<0.963	<0.966	9.32	9.41	<1.03	<1.00	<1.04	<1.09	<0.971	<0.987	2.2	<0.948	<1.05	<0.915	<1.09	<1.07	<1.05	<0.875	<0.880	<3.45	2.02	<0.949	<1.02	<1.09
Fluorene	mg/kg	<0.963	<0.966	<6.62	<0.911	<1.03	<1.00	<1.04	<1.09	<0.971	<0.987	<0.920	<0.948	<1.05	<0.915	<1.09	<1.07	<1.05	<0.875	<0.880	<3.45	<0.920	<0.949	<1.02	<1.09
Hexachlorobenzene	mg/kg	<0.483	<0.485	<1.66	<0.457	<0.516	<0.503	<0.524	<0.545	<0.487	<0.495	<0.461	<0.475	<0.525	<0.459	<0.545	<0.536	<0.528	<0.439	<0.441	<1.73	<0.461	<0.476	<0.512	<0.547
Hexachlorobutadiene	mg/kg	<0.963	<0.966	<6.62	<0.911	<1.03	<1.00	<1.04	<1.09	<0.971	<0.987	<0.920	<0.948	<1.05	<0.915	<1.09	<1.07	<1.05	<0.875	<0.880	<3.45	<0.920	<0.949	<1.02	<1.09
Hexachloroethane	mg/kg	<0.963	<0.966	<3.32	<0.911	<1.03	<1.00	<1.04	<1.09	<0.971	<0.987	<0.920	<0.948	<1.05	<0.915	<1.09	<1.07	<1.05	<0.875	<0.880	<1.73	<0.920	<0.949	<1.02	<1.09
Indeno(1,2,3-cd)Pyrene	mg/kg	<0.963	<0.966	<6.62	2.63	<1.03	<1.00	<1.04	<1.09	<0.971	<0.987	<0.920	<0.948	<1.05	<0.915	<1.09	<1.07	<1.05	<0.875	<0.880	<3.45	<0.920	<0.949	<1.02	<1.09
Isophorone	mg/kg	<0.963	<0.966	<6.62	<0.911	<1.03	<1.00	<1.04	<1.09	<0.971	<0.987	<0.920	<0.948	<1.05	<0.915	<1.09	<1.07	<1.05	<0.875	<0.880	<3.45	<0.920	<0.949	<1.02	<1.09
Naphthalene	mg/kg	<0.963	<0.966	<6.62	<0.911	<1.03	<1.00	<1.04	<1.09	<0.971	<0.987	<0.920	<0.948	<1.05	<0.915	<1.09	<1.07	<1.05	<0.875	<0.880	<3.45	<0.920	<0.949	<1.02	<1.09
Nitrobenzene	mg/kg	<0.963	<0.966	<6.62	<0.911	<1.03	<1.00	<1.04	<1.09	<0.971	<0.987	<0.920	<0.948	<1.05	<0.915	<1.09	<1.07	<1.05	<0.875	<0.880	<3.45	<0.920	<0.949	<1.02	<1.09
N-Nitrosodimethylamine	mg/kg	<0.963	<0.966	<6.62	<0.911	<1.03	<1.00	<1.04	<1.09	<0.971	<0.987	<0.920	<0.948	<1.05	<0.915	<1.09	<1.07	<1.05	<0.875	<0.880	<3.45	<0.920	<0.949	<1.02	<1.09
Pentachlorophenol	mg/kg	<4.83	<4.85	<6.62	<4.57	<5.16	<5.03	<5.24	<5.45	<4.87	<4.95	<4.61	<4.75	<5.25	<4.59	<5.45	<5.36	<5.28	<4.39	<4.41	<3.45	<4.61	<4.76	<5.12	<5.47
Phenanthrene	mg/kg	<0.963	<0.966	<6.62	6.36	<1.03	<1.00	<1.04	<1.09	<0.971	<0.987	<0.920	<0.948	<1.05	<0.915	<1.09	<1.07	<1.05	<0.875	<0.880	<3.45	1.54	<0.949	<1.02	<1.09
Phenol	mg/kg	<0.963	<0.966	<6.62	<0.911	<1.03	<1.00	<1.04	<1.09	<0.971	<0.987	<0.920	<0.948	<1.05	<0.915	<1.09	<1.07	<1.05	<0.875	<0.880	<3.45	<0.920	<0.949	<1.02	<1.09
Pyrene	mg/kg	<0.963	<0.966	6.99	8.21	<1.03	<1.00	<1.04	<1.09	<0.971	<0.987	1.52	<0.948	<1.05	<0.915	<1.09	<1.07	<1.05	<0.875	<0.880	<3.45	1.6	<0.949	<1.02	<1.09
Total SVOCs	mg/kg	ND	ND	25.64	52.17	ND	ND	ND	ND	ND	ND	9.05	ND	ND	ND	ND	ND	ND	ND	ND	7.77	7.805	ND	ND	ND
Classic Chemistry																									
Corrosivity (pH)	S.U.	6.85	7.11	9.16	8.19	7.13	7.08	7	7.02	7.53	7.71	7.66	5.69	4.81	4.26	3.62	4.31	6.45	6.79	6.23	7.41	5.8	5.98	5.2	4.9
Conductivity	umhos/cm	2650	1560	231	188	1460	5580	6530	4670	2240	2290	1010	375	414	1060	4820	5590	1880	641	408	368	252	154	547	1060
Flashpoint	°F	--	--	>200	>200	--	--	--	--	--	--	>200	>200	>200	--	--	--	--	--	--	>200	>200	>200	>200	--
Reactive Cyanide	mg/kg	--	--	<2.0	<2.0	--	--	--	--	--	--	<2.0	<2.0	<2.0	--	--	--	--	--	--	<2.0	<2.0	<2.0	<2.0	--
Reactive Sulfide	mg/kg	--	--	<2.0	<2.0	--	--	--	--	--	--	<2.0	<2.0	<2.0	--	--	--	--	--	--	<2.0	<2.0	<2.0	<2.0	--

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	D07 D07S08 1501546 Natural Clay 19 - 21 1/29/2015	D07 D07S09 1501512 Natural Sand/Gravel 24 - 26 1/26/2015	D07 D07S10 1501568 Natural Sand/Gravel 29 - 31 1/30/2015	D07 D07S10S11 1501512 Natural Clay 34 - 38 1/26/2015	D07 D07S11S12 1501568 Natural Clay 34 - 38 1/30/2015	D08 D08S01S02A 1501193 Fill 0 - 3.33 1/12/2015	D08 D08S02BS04A 1501193 Fill 3.33 - 6.66 1/12/2015	D08 D08S04B 1501193 Fill 6.66 - 8 1/12/2015	D08 D08S05 1501193 Natural Clay 10 - 12 1/9/2015	D08 D08S06 1501193 Natural Clay 14 - 16 1/9/2015	D08 D08S07 1501193 Natural Clay 19 - 21 1/9/2015	D08 D08S08 1501193 Natural Sand/Gravel 24 - 26 1/9/2015	D08 D08S09 1501229 Natural Sand/Gravel 29 - 31 1/13/2015	D08 D08S10S111 1501229 Natural Sand/Gravel 34 - 38 1/13/2015	D09 D09S01S02A 1502257 Fill 0 - 3.3 2/18/2015	D09 D09S02B 1502257 Fill 3.3 - 4.5 2/18/2015	D09 D09S03S04A 1503135 Fill 4 - 6.6 3/9/2015	D09 D09S04B 1503135 Fill 6.6 - 8 3/9/2015	D09 D09S05S06 1503135 Fill 8 - 12 3/9/2015	D09 D09S07S08 1503135 Fill 12 - 16 3/9/2015	D09 D09S09 1503135 Fill 16 - 18 3/9/2015	D09 D09S10 1503135 Natural Sand/Gravel 18 - 20 3/9/2015	D09 D09S11 1503135 Natural Sand/Gravel 24 - 26 3/9/2015	D09 D09S12 1503135 Natural Sand/Gravel 29 - 31 3/9/2015
Preliminary Disposal Facility Category		MCP Restricted	MCP Regulated Type A	Uncontaminated	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type B	Hazardous Material Type B	Hazardous Material Type B	MCP Regulated Type A	MCP Restricted	MCP Restricted	Uncontaminated	MCP Regulated Type A	Uncontaminated	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type B-1	Hazardous Material Type A	Hazardous Material Type B	Hazardous Material Type B	Uncontaminated	MCP Regulated Type A	Uncontaminated
RCRA 8 Metals	**Units**																								
Arsenic	mg/kg	<8.14	9.58	<7.34	<6.90	<7.43	14.7	40.8	16.4	<16.3	17.4	<12.9	<10.6	<9.48	10.7	<8.36	6.99	32.6	18.6	8.32	23.7	10.6	<8.45	24.7	17.5
Barium	mg/kg	105	37.9	16	15.1	21.5	74.3	88.5	38.4	122	124	128	18.1	<9.48	15.9	50.1	29.3	80	49.8	32.3	9.06	13	28	10.8	17.4
Cadmium	mg/kg	<1.63	<1.34	<1.47	<1.38	<1.49	<2.73	<2.57	<1.92	<3.25	<3.00	<2.57	<2.12	<1.90	<1.73	<1.67	2.94	<1.70	<1.62	<1.50	<1.50	<1.51	<1.69	<1.51	<1.51
Chromium	mg/kg	35.2	18.8	11.5	10.5	12.7	20.1	23.8	8.67	56.3	55	60.4	20.6	<3.79	22.3	<3.35	9.95	8.82	<3.25	<3.00	<2.99	5.01	<3.38	11.4	14.1
Lead	mg/kg	<16.3	<13.4	<14.7	<13.8	<14.9	3450	13600	3890	<32.5	<30.0	<25.7	<21.2	<19.0	21.4	347	125	976	1930	64.3	3230	2670	27.4	<15.1	<15.1
Selenium	mg/kg	<8.14	<6.69	<7.34	<6.90	<7.43	<10.9	<10.3	<7.69	<13.0	<12.0	<10.3	<16.9	<15.2	<6.91	<8.36	<6.64	<8.48	<8.12	<7.49	<7.48	<7.56	<8.45	<7.54	<7.56
Silver	mg/kg	<1.63	<1.34	<1.47	<1.38	<1.49	<2.73	4.09	<1.92	<3.25	<3.00	<2.57	<2.12	<1.90	<1.73	<1.67	<1.33	<1.70	<1.62	<1.50	<1.50	<1.51	<1.69	<1.51	<1.51
Mercury	mg/kg	<0.042	<0.035	<0.034	<0.034	<0.035	0.693	1.33	0.505	<0.038	<0.040	<0.033	<0.035	<0.033	<0.035	2.74	0.209	3.44	0.995	0.129	0.079	<0.033	<0.039	<0.032	<0.033
Metals by Toxicity Characteristic Leaching Procedure (TCLP)																									
Arsenic	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead	mg/L	--	--	--	--	--	31.2	205	11.5	--	--	--	--	--	--	0.954	0.49	0.526	2.01	--	67.4	33	--	--	--
Selenium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Herbicides																									
2,4,5-T	mg/kg	--	--	--	--	--	<0.055	<0.061	<0.059	--	--	--	--	--	--	<0.056	<0.27	<0.061	<0.057	<0.067	<0.056	<0.054	--	--	--
2,4-D	mg/kg	--	--	--	--	--	<0.055	<0.061	<0.059	--	--	--	--	--	--	<0.056	<0.27	<0.061	<0.057	<0.067	<0.056	<0.054	--	--	--
2,4-DB	mg/kg	--	--	--	--	--	<0.055	<0.061	<0.059	--	--	--	--	--	--	<0.056	<0.27	<0.061	<0.057	<0.067	<0.056	<0.054	--	--	--
Dalapon	mg/kg	--	--	--	--	--	<0.66	<0.74	<0.71	--	--	--	--	--	--	<0.68	<3.3	<0.73	<0.68	<0.80	<0.67	<0.65	--	--	--
Dicamba	mg/kg	--	--	--	--	--	<0.055	<0.061	<0.059	--	--	--	--	--	--	<0.056	<0.27	<0.061	<0.057	<0.067	<0.056	<0.054	--	--	--
Dichlorprop	mg/kg	--	--	--	--	--	<0.055	<0.061	<0.059	--	--	--	--	--	--	<0.056	<0.27	<0.061	<0.057	<0.067	<0.056	<0.054	--	--	--
Dinoseb	mg/kg	--	--	--	--	--	<0.33	<0.37	<0.35	--	--	--	--	--	--	<0.34	<1.6	<0.36	<0.34	<0.40	<0.34	<0.33	--	--	--
MCPA	mg/kg	--	--	--	--	--	<13	<15	<14	--	--	--	--	--	--	<14	<66	<15	<14	<16	<13	<13	--	--	--
MCPP	mg/kg	--	--	--	--	--	<13	<15	<14	--	--	--	--	--	--	<14	<66	<15	<14	<16	<13	<13	--	--	--
Silvex (2,4,5-TP)	mg/kg	--	--	--	--	--	<0.055	<0.061	<0.059	--	--	--	--	--	--	<0.056	<0.27	<0.061	<0.057	<0.067	<0.056	<0.054	--	--	--
Pesticides																									
4,4'-DDD	mg/kg	--	--	--	--	--	<0.038	<0.0043	<0.0020	--	--	--	--	--	--	<0.0020	<0.0020	<0.0041	<0.0020	<0.0023	<0.0020	<0.0020	--	--	--
4,4'-DDE	mg/kg	--	--	--	--	--	<0.038	<0.0043	<0.0020	--	--	--	--	--	--	<0.0020	<0.0020	<0.0041	<0.0020	<0.0023	<0.0020	<0.0020	--	--	--
4,4'-DDT	mg/kg	--	--	--	--	--	<0.038	<0.0043	<0.0020	--	--	--	--	--	--	0.007	<0.0020	<0.0041	<0.0020	<0.0023	<0.0020	<0.0020	--	--	--
Aldrin	mg/kg	--	--	--	--	--	<0.038	<0.0043	<0.0020	--	--	--	--	--	--	<0.0020	<0.0020	<0.0041	<0.0020	<0.0023	<0.0020	<0.0020	--	--	--
alpha-BHC	mg/kg	--	--	--	--	--	<0.038	<0.0043	<0.0020	--	--	--	--	--	--	<0.0020	<0.0020	<0.0041	<0.0020	<0.0023	<0.0020	<0.0020	--	--	--
beta-BHC	mg/kg	--	--	--	--	--	<0.038	<0.0043	<0.0020	--	--	--	--	--	--	<0.0020	<0.0020	<0.0041	<0.0020	<0.0023	<0.0020	<0.0020	--	--	--
Chlordane (technical)	mg/kg	--	--	--	--	--	<0.38	<0.043	<0.020	--	--	--	--	--	--	<0.020	<0.020	<0.041	<0.020	<0.023	<0.020	<0.020	--	--	--
delta-BHC	mg/kg	--	--	--	--	--	<0.038	<0.0043	<0.0020	--	--	--	--	--	--	<0.0020	<0.0020	<0.0041	<0.0020	<0.0023	<0.0020	<0.0020	--	--	--
Dieldrin	mg/kg	--	--	--	--	--	<0.038	<0.0043	<0.0020	--	--	--	--	--	--	<0.0020	<0.0020	<0.0041	<0.0020	<0.0023	<0.0020	<0.0020	--	--	--
Endosulfan I	mg/kg	--	--	--	--	--	<0.038	<0.0043	<0.0020	--	--	--	--	--	--	<0.0020	<0.0020	<0.0041	<0.0020	<0.0023	<0.0020	<0.0020	--	--	--
Endosulfan II	mg/kg	--	--	--	--	--	<0.038	<0.0043	<0.0020	--	--	--	--	--	--	<0.0020	<0.0020	<0.0041	<0.0020	<0.0023	<0.0020	<0.0020	--	--	--
Endosulfan sulfate	mg/kg	--	--	--	--	--	<0.038	<0.0043	<0.0020	--	--	--	--	--	--	<0.0020	<0.0020	<0.0041	<0.0020	<0.0023	<0.0020	<0.0020	--	--	--
Endrin	mg/kg	--	--	--	--	--	<0.038	<0.0043	<0.0020	--	--	--	--	--	--	<0.0020	<0.0020	<0.0041	<0.0020	<0.0023	<0.0020	<0.0020	--	--	--
Endrin ketone	mg/kg	--	--	--	--	--	<0.038	<0.0043	<0.0020	--	--	--	--	--	--	<0.0020	<0.0020	<0.0041	<0.0020	<0.0023	<0.0020	<0.0020	--	--	--
gamma-BHC (Lindane)	mg/kg	--	--	--	--	--	<0.038	<0.0043	<0.0020	--	--	--	--	--	--	<0.0020	<0.0020	<0.0041	<0.0020	<0.0023	<0.0020	<0.0020	--	--	--
Heptachlor	mg/kg	--	--	--	--	--	<0.038	<0.0043	<0.0020	--	--	--	--	--	--	<0.0020	<0.0020	<0.0041	<0.0020	<0.0023	<0.0020	<0.0020	--	--	--
Heptachlor epoxide	mg/kg	--	--	--	--	--	<0.038	<0.0043	<0.0020	--	--	--	--	--	--	<0.0020	<0.0020	<0.0041	<0.0020	<0.0023	<0.0020	<0.0020	--	--	--
Hexachlorobenzene	mg/kg	--	--	--	--	--	<0.038	<0.0043	<0.0020	--	--	--	--	--	--	<0.0020	<0.0020	<0.0041	<0.0020	<0.0023	<0.0020	<0.0020	--	--	--
Methoxychlor	mg/kg	--	--	--	--	--	<0.038	<0.0043	<0.0020	--	--	--	--	--	--	<0.0020	<0.0020	<0.0041	<0.0020	<0.0023	<0.0020	<0.0020	--	--	--
Polychlorinated Biphenyls																									
Aroclor 1016	mg/kg	<0.158	<0.140	<0.140	<0.136	<0.145	<0.141	<0.161	<0.148	<0.148	<0.157	<0.160	<0.138	<0.139	<0.138	<0.157	<0.143	<0.162	<0.152	<0.150	<0.144	<0.150	<0.165	<0.139	<0.141
Aroclor 1221	mg/kg	<0.158	<0.140	<0.140	<0.136	<0.145	<0.141	<0.161	<0.148	<0.148	<0.157	<0.160	<0.138	<0.139	<0.138	<0.157	<0.143	<0.162	<0.152	<0.150	<0.144	<0.150	<0.165	<0.139	<0.141
Aroclor 1232	mg/kg	<0.158	<0.140	<0.140	<0.136	<0.145	<0.141	<0.161	<0.148	<0.148	<0.157	<0.160	<0.138	<0.139	<0.138	<0.157	<0.143	<0.162	<0.152	<0.150	<0.144	<0.150	<0.165	<0.139	<0.141
Aroclor 1242	mg/kg	<0.158	<0.140	<0.140	<0.136	<0.145	<0.141	<0.161	<0.148	<0.148	<0.157	<0.160	<0.138	<0.139	<0.138	<0.157	<0.143	<0.162	<0.152	<0.150	<0.144	<0.150	<0.165	<0.139	<0.141
Aroclor 1248	mg/kg	<0.158	<0.140	<0.140	<0.136	<0.145	<0.141	<0.161	<0.148	<0.148	<0.157	<0.160	<0.138	<0.139	<0.138	<0.157	<0.143	<0.162	<0.152	<0.150	<0.144	<0.150	<0.165	<0.139	<0.141
Aroclor 1254	mg/kg	<0.158	<0.140	<0.140	<0.136	<0.145	<0.141	<0.161	<0.148	<0.148	<0.157	<0.160	<0.138	<0.139	<0.138	<0.157	<0.143	<0.162	<0.152	<0.150	<0.144	<0.150	<0.165	<0.139	<0.141
Aroclor 1260	mg/kg	<0.158	<0.140	<0.140	<0.136	<0.145	<0.141	<0.161	<0.148	<0.148	<0.157	<0.160	<0.138	<0.139	<0.138	<0.157	<0.143	<0.162	<0.152	<0.150	<0.144	<0.150	<0.165	<0.139	<0.141
Aroclor 1262	mg/kg	<0.158	<0.140	<0.140	<0.136	<0.145	<0.141	<0.161	<0.148	<0.148	<0.157	<0.160	<0.138	<0.139	<0.138	<0.157	<0.143	<0.162	<0.152	<0.150	<0.144	<0.150	<0.165	<0.139	<0.141
Aroclor 1268	mg/kg	<0.158	<0.140	<0.140	<0.136	<0.145	<0.141	<0.161	<0.148	<0.148	<0.157	<0.160	<0.138	<0.139	<0.138	<0.157	<0.143	<0.162	<0.152	<0.150	<0.144	<0.150	<0.165	<0.139	<0.141
Total PCBs	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Petroleum Hydrocarbons	mg/kg	<49.6	<43.5	<44.4	<41.6	<46.1	77.4	52.2	73.1	<48.8	<50.5	<51.3	<43.9	<42.7	<44.3	143	<140	1940	1780	7610	4990	5630	<49.0	<43.7	<43.8
Volatile Organic Compounds (VOCs)																									
1,1,1,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0918	<0.106	<0.0956	--	--	--
1,1,1-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0459	<0.0531	<0.0478	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0459	<0.0531	<0.0478	--	--	--
1,1,2-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0459	<0.0531	<0.0478	--	--	--
1,1-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0459	<0.0531	<0.0478	--	--	--
1,1-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0459	<0.0531	<0.0478	--	--	--
1,1-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0459	<0.0531	<0.0478	--	--	--
1,2,3-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0459	<0.0531	<0.0478	--	--	--
1,2,3-Trichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0459	<0.0531	<0.0478	--	--	--
1,2,4-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0459	<0.0531	<0.0478	--	--	--
1,2,4-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0459	<0.0531	<0.0478	--	--	--
1,2-Dibromo-3-Chloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.184	<0.212	<0.191	--	--	--
1,2-Dibromoethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0459	<0.0531	<0.0478	--	--	--
1,2-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0459	<0.0531	<0.0478	--	--	--
1,2-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0459	<0.0531	<0.0478	--	--	--
1,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0459	<0.0531	<0.0478	--	--	--
1,3,5-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0459	<0.0531	<0.0478	--	--	--
1,3-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0459	<0.0531	<0.0478	--	--	--
1,3-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0459	<0.0531	<0.0478	--	--	--
1,4-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0459	<0.0531	<0.0478	--	--	--
1,4-Dioxane - Screen	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<4.59	<5.31	<4.78	--	--	--
2,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0918	<0.106	<0.0956	--	--	--
2-Butanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.184	<0.212	<0.191	--	--	--
2-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0459	<0.0531	<0.0478	--	--	--
2-Hexanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.184	<0.212	<0.191	--	--	--
4-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0459	<0.0531	<0.0478	--	--	--
4-Isopropyltoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.533	<0.0531	0.174	--	--	--
4-Methyl-2-Pentanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.184	<0.212	<0.191	--	--	--
Acetone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.184	<0.212	<0.191	--	--	--
Benzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0459	<0.0531	<0.0478	--	--	--
Bromobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0459	<0.0531	<0.0478	--	--	--
Bromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0459	<0.0531	<0.0478	--	--	--
Bromodichloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0459	<0.0531	<0.0478	--	--	--
Bromoform	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0459	<0.0531	<0.0478	--	--	--
Bromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0918	<0.106	<0.0956	--	--	--
Carbon Disulfide	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0459	<0.0531	<0.0478	--	--	--
Carbon Tetrachloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0459	<0.0531	<0.0478	--	--	--

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	D07 D07S08 1501546 Natural Clay 19 - 21 1/29/2015	D07 D07S09 1501512 Natural Sand/Gravel 24 - 26 1/26/2015	D07 D07S10 1501568 Natural Sand/Gravel 29 - 31 1/30/2015	D07 D07S10S11 1501512 Natural Clay 34 - 38 1/26/2015	D07 D07S11S12 1501568 Natural Clay 34 - 38 1/30/2015	D08 D08S01S02A 1501193 Fill 0 - 3.33 1/12/2015	D08 D08S02BS04A 1501193 Fill 3.33 - 6.66 1/12/2015	D08 D08S04B 1501193 Fill 6.66 - 8 1/12/2015	D08 D08S05 1501193 Natural Clay 10 - 12 1/9/2015	D08 D08S06 1501193 Natural Clay 14 - 16 1/9/2015	D08 D08S07 1501193 Natural Clay 19 - 21 1/9/2015	D08 D08S08 1501193 Natural Sand/Gravel 24 - 26 1/9/2015	D08 D08S09 1501229 Natural Sand/Gravel 29 - 31 1/13/2015	D08 D08S10S111 1501229 Natural Sand/Gravel 34 - 38 1/13/2015	D09 D09S01S02A 1502257 Fill 0 - 3.3 2/18/2015	D09 D09S02B 1502257 Fill 3.3 - 4.5 2/18/2015	D09 D09S03S04A 1503135 Fill 4 - 6.6 3/9/2015	D09 D09S04B 1503135 Fill 6.6 - 8 3/9/2015	D09 D09S05S06 1503135 Fill 8 - 12 3/9/2015	D09 D09S07S08 1503135 Fill 12 - 16 3/9/2015	D09 D09S09 1503135 Fill 16 - 18 3/9/2015	D09 D09S10 1503135 Natural Sand/Gravel 18 - 20 3/9/2015	D09 D09S11 1503135 Natural Sand/Gravel 24 - 26 3/9/2015	D09 D09S12 1503135 Natural Sand/Gravel 29 - 31 3/9/2015
Preliminary Disposal Facility Category		MCP Restricted	MCP Regulated Type A	Uncontaminated	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type B	Hazardous Material Type B	Hazardous Material Type B	MCP Regulated Type A	MCP Restricted	MCP Restricted	Uncontaminated	MCP Regulated Type A	Uncontaminated	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type B-1	Hazardous Material Type A	Hazardous Material Type B	Hazardous Material Type B	Uncontaminated	MCP Regulated Type A	Uncontaminated
Chlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0459	<0.0531	<0.0478	--	--	--
Chloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0918	<0.106	<0.0956	--	--	--
Chloroform	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0459	<0.0531	<0.0478	--	--	--
Chloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0918	<0.106	<0.0956	--	--	--
cis-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0459	<0.0531	<0.0478	--	--	--
cis-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0459	<0.0531	<0.0478	--	--	--
Dibromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0459	<0.0531	<0.0478	--	--	--
Dibromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0459	<0.0531	<0.0478	--	--	--
Dichlorodifluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0459	<0.0531	<0.0478	--	--	--
Diethyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0459	<0.0531	<0.0478	--	--	--
Di-isopropyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0459	<0.0531	<0.0478	--	--	--
Ethyl tertiary-butyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0459	<0.0531	<0.0478	--	--	--
Ethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0459	<0.0531	<0.0478	--	--	--
Hexachlorobutadiene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0459	<0.0531	<0.0478	--	--	--
Isopropylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0459	<0.0531	0.0937	--	--	--
Methyl tert-Butyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0459	<0.0531	<0.0478	--	--	--
Methylene Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.184	<0.212	<0.191	--	--	--
Naphthalene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.932	0.916	1.57	--	--	--
n-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.392	<0.0531	0.575	--	--	--
n-Propylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0459	<0.0531	0.268	--	--	--
sec-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.298	0.291	1.75	--	--	--
Styrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0459	<0.0531	<0.0478	--	--	--
tert-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0459	<0.0531	0.28	--	--	--
Tertiary-amyl methyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0459	<0.0531	<0.0478	--	--	--
Tetrachloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0459	<0.0531	<0.0478	--	--	--
Tetrahydrofuran	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.184	<0.212	<0.191	--	--	--
Toluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0459	<0.0531	<0.0478	--	--	--
trans-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0459	<0.0531	<0.0478	--	--	--
trans-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0459	<0.0531	<0.0478	--	--	--
Trichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0459	<0.0531	<0.0478	--	--	--
Trichlorofluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0459	<0.0531	<0.0478	--	--	--
Vinyl Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0459	<0.0531	<0.0478	--	--	--
Xylene O	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0459	<0.0531	<0.0478	--	--	--
Xylene P,M	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0918	<0.106	<0.0956	--	--	--
Xylenes (Total)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0918	<0.106	<0.0956	--	--	--
Total VOCs	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2.155	1.207	4.7107	--	--	--
Volatile Organic Compounds - Low Level Analysis																									
1,1,1,2-Tetrachloroethane	mg/kg	<0.0052	<0.0038	<0.0051	<0.0053	<0.0032	<0.0052	<0.0055	<0.0049	<0.0045	<0.0045	<0.0041	<0.0034	<0.0028	<0.0044	<0.0085	<0.0040	<0.0045	<0.0033	--	--	--	<0.0036	<0.0036	<0.0033
1,1,1-Trichloroethane	mg/kg	<0.0052	<0.0038	<0.0051	<0.0053	<0.0032	<0.0052	<0.0055	<0.0049	<0.0045	<0.0045	<0.0041	<0.0034	<0.0028	<0.0044	<0.0085	<0.0040	<0.0045	<0.0033	--	--	--	<0.0036	<0.0036	<0.0033
1,1,2,2-Tetrachloroethane	mg/kg	<0.0021	<0.0015	<0.0020	<0.0021	<0.0013	<0.0021	<0.0022	<0.0020	<0.0018	<0.0018	<0.0017	<0.0013	<0.0011	<0.0017	<0.0034	<0.0016	<0.0018	<0.0013	--	--	--	<0.0014	<0.0014	<0.0013
1,1,2-Trichloroethane	mg/kg	<0.0052	<0.0038	<0.0051	<0.0053	<0.0032	<0.0052	<0.0055	<0.0049	<0.0045	<0.0045	<0.0041	<0.0034	<0.0028	<0.0044	<0.0085	<0.0040	<0.0045	<0.0033	--	--	--	<0.0036	<0.0036	<0.0033
1,1-Dichloroethane	mg/kg	<0.0052	<0.0038	<0.0051	<0.0053	<0.0032	<0.0052	<0.0055	<0.0049	<0.0045	<0.0045	<0.0041	<0.0034	<0.0028	<0.0044	<0.0085	<0.0040	<0.0045	<0.0033	--	--	--	<0.0036	<0.0036	<0.0033
1,1-Dichloroethene	mg/kg	<0.0052	<0.0038	<0.0051	<0.0053	<0.0032	<0.0052	<0.0055	<0.0049	<0.0045	<0.0045	<0.0041	<0.0034	<0.0028	<0.0044	<0.0085	<0.0040	<0.0045	<0.0033	--	--	--	<0.0036	<0.0036	<0.0033
1,1-Dichloropropene	mg/kg	<0.0052	<0.0038	<0.0051	<0.0053	<0.0032	<0.0052	<0.0055	<0.0049	<0.0045	<0.0045	<0.0041	<0.0034	<0.0028	<0.0044	<0.0085	<0.0040	<0.0045	<0.0033	--	--	--	<0.0036	<0.0036	<0.0033
1,2,3-Trichlorobenzene	mg/kg	<0.0052	<0.0038	<0.0051	<0.0053	<0.0032	<0.0052	<0.0055	<0.0049	<0.0045	<0.0045	<0.0041	<0.0034	<0.0028	<0.0044	<0.0085	<0.0040	<0.0045	<0.0033	--	--	--	<0.0036	<0.0036	<0.0033
1,2,3-Trichloropropane	mg/kg	<0.0052	<0.0038	<0.0051	<0.0053	<0.0032	<0.0052	<0.0055	<0.0049	<0.0045	<0.0045	<0.0041	<0.0034	<0.0028	<0.0044	<0.0085	<0.0040	<0.0045	<0.0033	--	--	--	<0.0036	<0.0036	<0.0033
1,2,4-Trichlorobenzene	mg/kg	<0.0052	<0.0038	<0.0051	<0.0053	<0.0032	<0.0052	<0.0055	<0.0049	<0.0045	<0.0045	<0.0041	<0.0034	<0.0028	<0.0044	<0.0085	<0.0040	<0.0045	<0.0033	--	--	--	<0.0036	<0.0036	<0.0033
1,2,4-Trimethylbenzene	mg/kg	<0.0052	<0.0038	<0.0051	<0.0053	<0.0032	<0.0052	<0.0055	<0.0049	<0.0045	<0.0045	<0.0041	<0.0034	<0.0028	<0.0044	<0.0085	<0.0040	<0.0045	<0.0033	--	--	--	<0.0036	<0.0036	<0.0033
1,2-Dibromo-3-Chloropropane	mg/kg	<0.0052	<0.0038	<0.0051	<0.0053	<0.0032	<0.0052	<0.0055	<0.0049	<0.0045	<0.0045	<0.0041	<0.0034	<0.0028	<0.0044	<0.0085	<0.0040	<0.0045	<0.0033	--	--	--	<0.0036	<0.0036	<0.0033
1,2-Dibromoethane	mg/kg	<0.0052	<0.0038	<0.0051	<0.0053	<0.0032	<0.0052	<0.0055	<0.0049	<0.0045	<0.0045	<0.0041	<0.0034	<0.0028	<0.0044	<0.0085	<0.0040	<0.0045	<0.0033	--	--	--	<0.0036	<0.0036	<0.0033
1,2-Dichlorobenzene	mg/kg	<0.0052	<0.0038	<0.0051	<0.0053	<0.0032	<0.0052	<0.0055	<0.0049	<0.0045	<0.0045	<0.0041	<0.0034	<0.0028	<0.0044	<0.0085	<0.0040	<0.0045	<0.0033	--	--	--	<0.0036	<0.0036	<0.0033
1,2-Dichloroethane	mg/kg	<0.0052	<0.0038	<0.0051	<0.0053	<0.0032	<0.0052	<0.0055	<0.0049	<0.0045	<0.0045	<0.0041	<0.0034	<0.0028	<0.0044	<0.0085	<0.0040	<0.0045	<0.0033	--	--	--	<0.0036	<0.0036	<0.0033
1,2-Dichloropropane	mg/kg	<0.0052	<0.0038	<0.0051	<0.0053	<0.0032	<0.0052	<0.0055	<0.0049	<0.0045	<0.0045	<0.0041	<0.0034	<0.0028	<0.0044	<0.0085	<0.0040	<0.0045	<0.0033	--	--	--	<0.0036	<0.0036	<0.0033
1,3,5-Trimethylbenzene	mg/kg	<0.0052	<0.0038	<0.0051	<0.0053	<0.0032	<0.0052	<0.0055	<0.0049	<0.0045	<0.0045	<0.0041	<0.0034	<0.0028	<0.0044	<0.0085	<0.0040	<0.0045	<0.0033	--	--	--	<0.0036	<0.0036	<0.0033
1,3-Dichlorobenzene	mg/kg	<0.0052	<0.0038	<0.0051	<0.0053	<0.0032	<0.0052	<0.0055	<0.0049	<0.0045	<0.0045	<0.0041	<0.0034	<0.0028	<0.0044	<0.0085	<0.0040	<0.0045	<0.0033	--	--	--	<0.0036	<0.0036	<0.0033
1,3-Dichloropropane	mg/kg	<0.0052	<0.0038	<0.0051	<0.0053	<0.0032	<0.0052	<0.0055	<0.0049	<0.0045	<0.0045	<0.0041	<0.0034	<0.0028	<0.0044	<0.0085	<0.0040	<0.0045	<0.0033	--	--	--	<0.0036	<0.0036	<0.0033
1,4-Dichlorobenzene	mg/kg	<0.0052	<0.0038	<0.0051	<0.0053	<0.0032	<0.0052	<0.0055	<0.0049	<0.0045	<0.0045	<0.0041	<0.0034	<0.0028	<0.0044	<0.0085	<0.0040	<0.0045	<0.0033	--	--	--	<0.0036	<0.0036	<0.0033
1,4-Dioxane	mg/kg	<0.104	<0.0768	<0.101	<0.107	<0.0649	<0.103	<0.110	<0.0989	<0.0896	<0.0903	<0.0830	<0.0674	<0.0550	<0.0875	<0.169	<0.0794	<0.0907	<0.0663	--	--	--	<0.0712	<0.0710	<0.0668
2,2-Dichloropropane	mg/kg	<0.0052	<0.0038	<0.0051	<0.0053	<0.0032	<0.0052	<0.0055	<0.0049	<0.0045	<0.0045	<0.0041	<0.0034	<0.0028	<0.0044	<0.0085	<0.0040	<0.0045	<0.0033	--	--	--	<0.0036	<0.0036	<0.0033
2-Butanone	mg/kg	<0.0104	<0.0077	<0.0101	<0.0107	<0.0065	<0.0103	<0.0110	<0.0099	<0.0090	<0.0090	<0.0083	<0.0067	<0.0055	<0.0087	<0.0169	<0.0079	<0.0091	<0.0066	--	--	--	<0.0071	<0.0071	<0.0067
2-Chlorotoluene	mg/kg	<0.0052	<0.0038	<0.0051	<0.0053	<0.0032	<0.0052	<0.0055	<0.0049	<0.0045	<0.0045	<0.0041	<0.0034	<0.0028	<0.0044	<0.0085	<0.0040	<0.0045	<0.0033	--	--	--	<0.0036	<0.0036	<0.0033
2-Hexanone	mg/kg	<0.0104	<0.0077	<0.0101	<0.0107	<0.0065	<0.0103	<0.0110	<0.0099	<0.0090	<0.0090	<0.0083	<0.0067	<0.0055	<0.0087	<0.0169	<0.0079	<0.0091	<0.0066	--	--	--	<0.0071	<0.0071	<0.0067
4-Chlorotoluene	mg/kg	<0.0052	<0.0038	<0.0051	<0.0053	<0.0032	<0.0052	<0.0055	<0.0049	<0.0045	<0.0045	<0.0041	<0.0034	<0.0028	<0.0044	<0.0085	<0.0040	<0.0045	<0.0033	--	--	--	<0.0036	<0.0036	<0.0033
4-Isopropyltoluene	mg/kg	<0.0052	<0.0038	<0.0051	<0.0053	<0.0032	<0.0052	<0.0055	<0.0049	<0.0045	<0.0045	<0.0041	<0.0034	<0.0028	<0.0044	<0.0085	<0.0040	<0.0045	<0.0033	--	--	--	<0.0036	<0.0036	<0.0033
4-Methyl-2-Pentanone	mg/kg	<0.0104	<0.0077	<0.0101	<0.0107	<0.0065	<0.0103	<0.0110	<0.0099	<0.0090	<0.0090	<0.0083	<0.0067	<0.0055	<0.0087	<0.0169	<0.0079	<0.0091	<0.0066	--	--	--	<0.0071	<0.0071	<0.0067
Acetone	mg/kg	<0.0104	0.0131	<0.0101	0.0701	0.0079	0.0254	<0.0110	0.0116	0.0114	<0.0090	<0.0083	<0.0067	0.0055	<0.0087	<0.0169	<0.0079	0.0466	<0.0066	--	--	--	<0.0071	<0.0071	<0.0067
Benzene	mg/kg	<0.0052	<0.0038	<0.0051	<0.0053	<0.0032	<0.0052	<0.0055	<0.0049	<0.0045	<0.0045	<0.0041	<0.0034	<0.0028	<0.0044	<0.0085	<0.0040	<0.0045	<0.0033	--	--	--	<0.0036	<0.0036	<0.0033
Bromobenzene	mg/kg	<0.0052	<0.0038	<0.0051	<0.0053	<0.0032	<0.0052	<0.0055	<0.0049	<0.0045	<0.0045	<0.0041	<0.0034	<0.0028	<0.0044	<0.0085	<0.0040	<0.0045	<0.0033	--	--	--	<0.0036	<0.0036	<0.0033
Bromochloromethane	mg/kg	<0.0052	<0.0038	<0.0051	<0.0053	<0.0032	<0.0052	<0.0055	<0.0049	<0.0045	<0.0045	<0.0041	<0.0034	<0.0028	<0.0044	<0.0085	<0.0040	<0.0045	<0.0033	--	--	--	<0.0036	<0.0036	<0.0033
Bromodichloromethane	mg/kg	<0.0052	<0.0038	<0.0051	<0.0053	<0.0032	<0.0052	<0.0055	<0.0049	<0.0045	<0.0045	<0.0041	<0.0034	<0.0028	<0.0044	<0.0085	<0.0040	<0.0045	<0.0033	--	--	--	<0.0036	<0.0036	<0.0033
Bromoform	mg/kg	<0.0052	<0.0038	<0.0051	<0.0053	<0.0032	<0.0052	<0.0055	<0.0049	<0.0045	<0.0045	<0.0041	<0.0034	<0.0028	<0.0044	<0.0085	<0.0040	<0.0045	<0.0033	--	--	--	<0.0036	<0.0036	<0.0033
Bromomethane	mg/kg	<0.0104	<0.0077	<0.0101	<0.0107	<0.0065	<0.0103	<0.0110	<0.0099	<0.0090	<0.0090	<0.0083	<0.0067	<0.0055	<0.0087	<0.0169	<0.0079	<0.0091	<0.0066	--	--	--	<0.0071	<0.0071	<0.0067
Carbon Disulfide	mg/kg	<0.0052	<0.0038	<0.0051	<0.0053	<0.0032	<0.0052	<0.0055	<0.0049	<0.0045	<0.0045	<0.0041	<0.0034	<0.0028	<0.0044	<0.0085	<0.0040	<0.0045	<0.0033	--	--	--	<0.0036	<0.0036	<0.0033
Carbon Tetrachloride	mg/kg	<0.0052	<0.0038	<0.0051	<0.0053	<0.0032	<0.0052	<0.0055	<0.0049	<0.0045	<0.0045	<0.0041	<0.0034	<0.0028	<0.0044	<0.0085	<0.0040	<0.0045	<0.0033	--	--	--	<0.0036	<0.0036	<0.0033
Chlorobenzene	mg/kg	<0.0052	<0.0038	<0.0051	<0.0053	<0.0032	<0.0052	<0.0055	<0.0049	<0.0045	<0.0045	<0.0041	<0.0034	<0.0028	<0.0044	<0.0085	<0.0040	<0.0045	<0.0033	--	--	--	<0.0036	<0.0036	<0.0033
Chloroethane	mg/kg	<0.0104	<0.0077	<0.0101	<0.0107	<0.0065	<0.0103	<0.0110	<0.0099	<0.0090	<0.0090	<0.0083	<0.0067	<0.0055	<0.0087	<0.0169	<0.0079	<0.0091	<0.0066	--	--	--	<0.0071	<0.0071	<0.0067
Chloroform	mg/kg	<0.0052	<0.0038	<0.0051	<0.0053	<0.0032	<0.0052	<0.0055	<0.0049	<0.0045	<0.0045	<0.0041	<0.0034	<0.0028	<0.0044	<0.0085	<0.0040	<0.0045	<0.0033	--	--	--	<0.0036	<0.0036	<0.0033
Chloromethane	mg/kg	<0.0104	<0.0077	<0.0101	<0.0107	<0.0065	<0.0103	<0.0110	<0.0099	<0.0090	<0.0090	<0.0083	<0.0067	<0.0055	<0.0087	<0.0169	<0.0079	<0.0091	<0.0066	--	--	--	<0.0071	<0.0071	<0.0067
cis-1,2-Dichloroethene	mg/kg	<0.0052	<0.0038	<0.0051	<0.0053	<0.0032	<0.0052	<0.0055	<0.0049	<0.0045	<0.0045	<0.0041	<0.0034	<0.0028	<0.0044	<0.0085	<0.0040	<0.0045	<0.0033	--	--	--	<0.0036	<0.0036	<0.0033
cis-1,3-Dichloropropene	mg/kg	<0.0052	<0.0038	<0.0051	<0.0053	<0.0032	<0.0052	<0.0055	<0.0049	<0.0045	<0.0045	<0.0041	<0.0034	<0.0028	<0.0044	<0.0085	<0.0040	<0.0045	<0.0033	--	--	--	<0.0036	<0.0036	<0.0033
Dibromochloromethane	mg/kg	<0.0021	<0.0015	<0.0020	<0.0021	<0.0013	<0.0021	<0.0022	<0.0020	<0.0018	<0.0018	<0.0017	<0.0013	<0.0011	<0.0017	<0.0034	<0.0016	<0.0018	<0.0013	--	--	--	<0.0014	<0.0014	<0.0013
Dibromomethane	mg/kg	<0.0052	<0.0038	<0.0051	<0.0053	<0.0032	<0.0052	<0.0055	<0.0049	<0.0045	<0.0045	<0.0041	<0.0034	<0.0028	<0.0044	<0.0085	<0.0040	<0.0045	<0.0033	--	--	--	<0.0036	<0.0036	<0.0033
Dichlorodifluoromethane	mg/kg	<0.0104	<0.0077	<0.0101	<0.0107	<0.0065	<0.0103	<0.0110	<0.0099	<0.0090	<0.0090	<0.0083	<0.0067	<0.0055	<0.0087	<0.0169	<0.0079	<0.0091	<0.0066	--	--	--	<0.0071	<0.0071	<0.0067
Diethyl Ether	mg/kg	<0.0052	<0.0038	<0.0051	<0.0053	<0.0032	<0.0052	<0.0055	<0.0049	<0.0045	<0.0045	<0.0041	<0.0034	<0.0028	<0.0044	<0.0085	<0.0040	<0.0045	<0.0033	--	--	--	<0.0036	<0.0036	<0.0033
Di-isopropyl ether	mg/kg	<0.0052	<0.0038	<0.0051	<0.0053	<0.0032	<0.0052	<0.0055	<0.0049	<0.0045	<0.0045	<0.0041	<0.0034	<0.0028	<0.0044	<0.0085	<0.0040	<0.0045	<0.0033	--	--	--	<0.0036	<0.0036	<0.0033
Ethyl tertiary-butyl ether	mg/kg	<0.0052	<0.0038	<0.0051	<0.0053	<0.0032	<0.0052	<0.0055	<0.0049	<0.0045	<0.0045	<0.0041	<0.0034	<0.0028	<0.0044	<0.0085	<0.0040	<0.0045	<0.0033	--	--	--	<0.0036	<0.0036	<0.0033
Ethylbenzene	mg/kg	<0.0052	<0.0038	<0.0051	<0.0053	<0.0032	<0.0052	<0.0055	<0.0049	<0.0045	<0.0045	<0.0041	<0.0034	<0.0028	<0.0044	<0.0085	<0.0040	<0.0045	<0.0033	--	--	--	<0.0036	<0.0036	<0.0033
Hexachlorobutadiene	mg/kg	<0.0052	<0.0038	<0.0051	<0.0053	<0.0032	<0.0052	<0.0055	<0.0049	<0.0045	<0.0045	<0.0041	<0.0034	<0.0028	<0.0044	<0.0085	<0.0040	<0.0045	<0.0033	--	--	--	<0.0036	<0.0036	<0.0033
Isopropylbenzene	mg/kg	<0.0052	<0.0038	<0.0051	<0.0053	<0.0032	<0.0052	<0.0055	<0.0049	<0.0045	<0.0045	<0.0041	<0.0034	<0.0028	<0.0044	<0.0085	<0.0040	<0.0045	<0.0033	--	--	--	<0.0036	<0.0036	<0.0033
Methyl tert-Butyl Ether	mg/kg	<0.0052	<0.0038	<0.0051	<0.0053	<0.0032	<0.0052	<0.0055	<0.0049	<0.0045	<0.0045	<0.0041	<0.0034	<0.0028	<0.0044	<0.0085	<0.0040	<0.0045	<0.0033	--	--	--	<0.0036	<0.0036	<0.0033
Methylene Chloride	mg/kg	<0.0104	<0.0077	<0.0101	<0.0107	<0.0065	<0.0103	<0.0110	<0.0099	<0.0090	<0.0090	<0.0083	<0.0067	<0.0055	<0.0087	<0.0169	<0.0079	<0.0091	<0.0066	--	--	--	<0.0071	<0.0071	<0.0067
Naphthalene	mg/kg	<0.0052	<0.0038	<0.0051	<0.0053	<0.0032	<0.0052	<0.0055	<0.0049	<0.0045	<0.0045	<0.0041	<0.0034	<0.0028	<0.0044	<0.0085	<0.0040	<0.0045	<0.0033	--	--	--	<0.0036	<0.0036	<0.0033
n-Butylbenzene	mg/kg	<0.0052	<0.0038	<0.0051	<0.0053	<0.0032	<0.0052	<0.0055	<0.0049	<0.0045	<0.0045	<0.0041	<0.0034	<0.0028	<0.0044	<0.0085	<0.0040	<0.0045	<0.0033	--	--	--	<0.0036	<0.0036	<0.0033
n-Propylbenzene	mg/kg	<0.0052	<0.0038	<0.0051	<0.0053	<0.0032	<0.0052	<0.0055	<0.0049	<0.0045	<0.0045	<0.0041	<0.0034	<0.0028	<0.0044	<0.0085	<0.0040	<0.0045	<0.0033	--	--	--	<0.0036	<0.0036	<0.0033
sec-Butylbenzene	mg/kg	<0.0052	<0.0038	<0.0051	<0.0053	<0.0032	<0.0052	<0.0055	<0.0049	<0.0045	<0.0045	<0.0041	<0.0034	<0.0028	<0.0044	<0.0085	<0.0040	<0.0045	<0.0033	--	--	--	<0.0036	<0.0036	<0.0033

Table 1
Soil Precharacterization Data

Wynn Resort Casino
Everett, Massachusetts

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	D07 D07S08 1501546 Natural Clay 19 - 21 1/29/2015	D07 D07S09 1501512 Natural Sand/Gravel 24 - 26 1/26/2015	D07 D07S10 1501568 Natural Sand/Gravel 29 - 31 1/30/2015	D07 D07S10S11 1501512 Natural Clay 34 - 38 1/26/2015	D07 D07S11S12 1501568 Natural Clay 34 - 38 1/30/2015	D08 D08S01S02A 1501193 Fill 0 - 3.33 1/12/2015	D08 D08S02BS04A 1501193 Fill 3.33 - 6.66 1/12/2015	D08 D08S04B 1501193 Fill 6.66 - 8 1/12/2015	D08 D08S05 1501193 Natural Clay 10 - 12 1/9/2015	D08 D08S06 1501193 Natural Clay 14 - 16 1/9/2015	D08 D08S07 1501193 Natural Clay 19 - 21 1/9/2015	D08 D08S08 1501193 Natural Sand/Gravel 24 - 26 1/9/2015	D08 D08S09 1501229 Natural Sand/Gravel 29 - 31 1/13/2015	D08 D08S10S111 1501229 Natural Sand/Gravel 34 - 38 1/13/2015	D09 D09S01S02A 1502257 Fill 0 - 3.3 2/18/2015	D09 D09S02B 1502257 Fill 3.3 - 4.5 2/18/2015	D09 D09S03S04A 1503135 Fill 4 - 6.6 3/9/2015	D09 D09S04B 1503135 Fill 6.6 - 8 3/9/2015	D09 D09S05S06 1503135 Fill 8 - 12 3/9/2015	D09 D09S07S08 1503135 Fill 12 - 16 3/9/2015	D09 D09S09 1503135 Fill 16 - 18 3/9/2015	D09 D09S10 1503135 Natural Sand/Gravel 18 - 20 3/9/2015	D09 D09S11 1503135 Natural Sand/Gravel 24 - 26 3/9/2015	D09 D09S12 1503135 Natural Sand/Gravel 29 - 31 3/9/2015
Preliminary Disposal Facility Category		MCP Restricted	MCP Regulated Type A	Uncontaminated	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type B	Hazardous Material Type B	Hazardous Material Type B	MCP Regulated Type A	MCP Restricted	MCP Restricted	Uncontaminated	MCP Regulated Type A	Uncontaminated	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type B-1	Hazardous Material Type A	Hazardous Material Type B	Hazardous Material Type B	Uncontaminated	MCP Regulated Type A	Uncontaminated
Styrene	mg/kg	<0.0052	<0.0038	<0.0051	<0.0053	<0.0032	<0.0052	<0.0055	<0.0049	<0.0045	<0.0045	<0.0041	<0.0034	<0.0028	<0.0044	<0.0085	<0.0040	<0.0045	<0.0033	--	--	--	<0.0036	<0.0036	<0.0033
tert-Butylbenzene	mg/kg	<0.0052	<0.0038	<0.0051	<0.0053	<0.0032	<0.0052	<0.0055	<0.0049	<0.0045	<0.0045	<0.0041	<0.0034	<0.0028	<0.0044	<0.0085	<0.0040	<0.0045	<0.0033	--	--	--	<0.0036	<0.0036	<0.0033
Tertiary-amyl methyl ether	mg/kg	<0.0052	<0.0038	<0.0051	<0.0053	<0.0032	<0.0052	<0.0055	<0.0049	<0.0045	<0.0045	<0.0041	<0.0034	<0.0028	<0.0044	<0.0085	<0.0040	<0.0045	<0.0033	--	--	--	<0.0036	<0.0036	<0.0033
Tetrachloroethene	mg/kg	<0.0052	<0.0038	<0.0051	<0.0053	<0.0032	<0.0052	<0.0055	<0.0049	<0.0045	<0.0045	<0.0041	<0.0034	<0.0028	<0.0044	<0.0085	<0.0040	<0.0045	<0.0033	--	--	--	<0.0036	<0.0036	<0.0033
Tetrahydrofuran	mg/kg	<0.0052	<0.0038	<0.0051	<0.0053	<0.0032	<0.0052	<0.0055	<0.0049	<0.0045	<0.0045	<0.0041	<0.0034	<0.0028	<0.0044	<0.0085	<0.0040	<0.0045	<0.0033	--	--	--	<0.0036	<0.0036	<0.0033
Toluene	mg/kg	<0.0052	<0.0038	<0.0051	<0.0053	<0.0032	<0.0052	<0.0055	<0.0049	<0.0045	<0.0045	<0.0041	<0.0034	<0.0028	<0.0044	<0.0085	<0.0040	<0.0045	<0.0033	--	--	--	<0.0036	<0.0036	<0.0033
trans-1,2-Dichloroethene	mg/kg	<0.0052	<0.0038	<0.0051	<0.0053	<0.0032	<0.0052	<0.0055	<0.0049	<0.0045	<0.0045	<0.0041	<0.0034	<0.0028	<0.0044	<0.0085	<0.0040	<0.0045	<0.0033	--	--	--	<0.0036	<0.0036	<0.0033
trans-1,3-Dichloropropene	mg/kg	<0.0052	<0.0038	<0.0051	<0.0053	<0.0032	<0.0052	<0.0055	<0.0049	<0.0045	<0.0045	<0.0041	<0.0034	<0.0028	<0.0044	<0.0085	<0.0040	<0.0045	<0.0033	--	--	--	<0.0036	<0.0036	<0.0033
Trichloroethene	mg/kg	<0.0052	<0.0038	<0.0051	<0.0053	<0.0032	<0.0052	<0.0055	<0.0049	<0.0045	<0.0045	<0.0041	<0.0034	<0.0028	<0.0044	<0.0085	<0.0040	<0.0045	<0.0033	--	--	--	<0.0036	<0.0036	<0.0033
Trichlorofluoromethane	mg/kg	<0.0052	<0.0038	<0.0051	<0.0053	<0.0032	<0.0052	<0.0055	<0.0049	<0.0045	<0.0045	<0.0041	<0.0034	<0.0028	<0.0044	<0.0085	<0.0040	<0.0045	<0.0033	--	--	--	<0.0036	<0.0036	<0.0033
Vinyl Chloride	mg/kg	<0.0104	<0.0077	<0.0101	<0.0107	<0.0065	<0.0103	<0.0110	<0.0099	<0.0090	<0.0090	<0.0083	<0.0067	<0.0055	<0.0087	<0.0169	<0.0079	<0.0091	<0.0066	--	--	--	<0.0071	<0.0071	<0.0067
Xylene O	mg/kg	<0.0052	<0.0038	<0.0051	<0.0053	<0.0032	<0.0052	<0.0055	<0.0049	<0.0045	<0.0045	<0.0041	<0.0034	<0.0028	<0.0044	<0.0085	<0.0040	<0.0045	<0.0033	--	--	--	<0.0036	<0.0036	<0.0033
Xylene P,M	mg/kg	<0.0104	<0.0077	<0.0101	<0.0107	<0.0065	<0.0103	<0.0110	<0.0099	<0.0090	<0.0090	<0.0083	<0.0067	<0.0055	<0.0087	<0.0169	<0.0079	<0.0091	<0.0066	--	--	--	<0.0071	<0.0071	<0.0067
Xylenes (Total)	mg/kg	<0.0104	<0.0077	<0.0101	<0.0107	<0.0065	<0.0103	<0.0110	<0.0099	<0.0090	<0.0090	<0.0083	<0.0067	<0.0055	<0.0087	<0.0169	<0.0079	<0.0091	<0.0066	--	--	--	<0.0071	<0.0071	<0.0067
Total VOCs (Low Level)	mg/kg	ND	0.0131	ND	0.0701	0.0079	0.0254	ND	0.0116	0.0114	ND	ND	ND	0.0055	ND	ND	ND	0.0466	ND	--	--	--	ND	ND	ND
Semi-Volatile Organic Compounds																									
1,2,4-Trichlorobenzene	mg/kg	<1.02	<0.820	<0.939	<0.815	<0.974	<0.937	<1.05	<0.910	<1.01	<1.02	<1.06	<0.948	<0.914	<0.859	<4.08	<5.73	<1.03	<0.955	<0.968	<0.893	<0.992	<1.07	<0.927	<0.950
1,2-Dichlorobenzene	mg/kg	<1.02	<0.820	<0.939	<0.815	<0.974	<0.937	<1.05	<0.910	<1.01	<1.02	<1.06	<0.948	<0.914	<0.859	<4.08	<5.73	<1.03	<0.955	<0.968	<0.893	<0.992	<1.07	<0.927	<0.950
1,3-Dichlorobenzene	mg/kg	<1.02	<0.820	<0.939	<0.815	<0.974	<0.937	<1.05	<0.910	<1.01	<1.02	<1.06	<0.948	<0.914	<0.859	<4.08	<5.73	<1.03	<0.955	<0.968	<0.893	<0.992	<1.07	<0.927	<0.950
1,4-Dichlorobenzene	mg/kg	<0.514	<0.411	<0.471	<0.409	<0.488	<0.470	<0.525	<0.456	<0.508	<0.513	<0.529	<0.475	<0.459	<0.431	<2.05	<2.88	<0.517	<0.479	<0.486	<0.448	<0.498	<0.534	<0.465	<0.476
2,4,5-Trichlorophenol	mg/kg	<1.02	<0.820	<0.939	<0.815	<0.974	<0.937	<1.05	<0.910	<1.01	<1.02	<1.06	<0.948	<0.914	<0.859	<4.08	<5.73	<1.03	<0.955	<0.968	<0.893	<0.992	<1.07	<0.927	<0.950
2,4,6-Trichlorophenol	mg/kg	<1.02	<0.820	<0.939	<0.815	<0.974	<0.937	<1.05	<0.910	<1.01	<1.02	<1.06	<0.948	<0.914	<0.859	<4.08	<5.73	<1.03	<0.955	<0.968	<0.893	<0.992	<1.07	<0.927	<0.950
2,4-Dichlorophenol	mg/kg	<1.02	<0.820	<0.939	<0.815	<0.974	<0.937	<1.05	<0.910	<1.01	<1.02	<1.06	<0.948	<0.914	<0.859	<4.08	<5.73	<1.03	<0.955	<0.968	<0.893	<0.992	<1.07	<0.927	<0.950
2,4-Dimethylphenol	mg/kg	<1.02	<0.820	<0.939	<0.815	<0.974	<0.937	<1.05	<0.910	<1.01	<1.02	<1.06	<0.948	<0.914	<0.859	<4.08	<5.73	<1.03	<0.955	<0.968	<0.893	<0.992	<1.07	<0.927	<0.950
2,4-Dinitrophenol	mg/kg	<5.14	<4.11	<4.71	<4.09	<4.88	<4.70	<5.25	<4.56	<5.08	<5.13	<5.29	<4.75	<4.59	<4.31	<20.5	<28.8	<5.17	<4.79	<4.86	<4.48	<4.98	<5.34	<4.65	<4.76
2,4-Dinitrotoluene	mg/kg	<1.02	<0.820	<0.939	<0.815	<0.974	<0.937	<1.05	<0.910	<1.01	<1.02	<1.06	<0.948	<0.914	<0.859	<1.02	<1.44	<1.03	<0.955	<0.968	<0.893	<0.992	<1.07	<0.927	<0.950
2,6-Dinitrotoluene	mg/kg	<1.02	<0.820	<0.939	<0.815	<0.974	<0.937	<1.05	<0.910	<1.01	<1.02	<1.06	<0.948	<0.914	<0.859	<4.08	<5.73	<1.03	<0.955	<0.968	<0.893	<0.992	<1.07	<0.927	<0.950
2-Chloronaphthalene	mg/kg	<1.02	<0.820	<0.939	<0.815	<0.974	<0.937	<1.05	<0.910	<1.01	<1.02	<1.06	<0.948	<0.914	<0.859	<4.08	<5.73	<1.03	<0.955	<0.968	<0.893	<0.992	<1.07	<0.927	<0.950
2-Chlorophenol	mg/kg	<1.02	<0.820	<0.939	<0.815	<0.974	<0.937	<1.05	<0.910	<1.01	<1.02	<1.06	<0.948	<0.914	<0.859	<4.08	<5.73	<1.03	<0.955	<0.968	<0.893	<0.992	<1.07	<0.927	<0.950
2-Methylnaphthalene	mg/kg	<1.02	<0.820	<0.939	<0.815	<0.974	<0.937	<1.05	<0.910	<1.01	<1.02	<1.06	<0.948	<0.914	<0.859	<4.08	<5.73	<1.03	<0.955	<0.968	<0.893	<0.992	<1.07	<0.927	<0.950
2-Methylphenol	mg/kg	<1.02	<0.820	<0.939	<0.815	<0.974	<0.937	<1.05	<0.910	<1.01	<1.02	<1.06	<0.948	<0.914	<0.859	<4.08	<5.73	<1.03	<0.955	<0.968	<0.893	<0.992	<1.07	<0.927	<0.950
2-Nitrophenol	mg/kg	<1.02	<0.820	<0.939	<0.815	<0.974	<0.937	<1.05	<0.910	<1.01	<1.02	<1.06	<0.948	<0.914	<0.859	<4.08	<5.73	<1.03	<0.955	<0.968	<0.893	<0.992	<1.07	<0.927	<0.950
3,3´-Dichlorobenzidine	mg/kg	<2.05	<1.64	<1.88	<1.63	<1.95	<1.88	<2.10	<1.82	<2.03	<2.05	<2.11	<1.90	<1.83	<1.72	<8.17	<11.5	<2.07	<1.91	<1.94	<1.79	<1.99	<2.13	<1.86	<1.90
3+4-Methylphenol	mg/kg	<2.05	<1.64	<1.88	<1.63	<1.95	<1.88	<2.10	<1.82	<2.03	<2.05	<2.11	<1.90	<1.83	<1.72	<8.17	<11.5	<2.07	<1.91	<1.94	<1.79	<1.99	<2.13	<1.86	<1.90
4-Bromophenyl-phenylether	mg/kg	<1.02	<0.820	<0.939	<0.815	<0.974	<0.937	<1.05	<0.910	<1.01	<1.02	<1.06	<0.948	<0.914	<0.859	<4.08	<5.73	<1.03	<0.955	<0.968	<0.893	<0.992	<1.07	<0.927	<0.950
4-Chloroaniline	mg/kg	<2.05	<1.64	<1.88	<1.63	<1.95	<1.88	<2.10	<1.82	<2.03	<2.05	<2.11	<1.90	<1.83	<1.72	<2.05	<2.88	<2.07	<1.91	<1.94	<1.79	<1.99	<2.13	<1.86	<1.90
4-Nitrophenol	mg/kg	<5.14	<4.11	<4.71	<4.09	<4.88	<4.70	<5.25	<4.56	<5.08	<5.13	<5.29	<4.75	<4.59	<4.31	<20.5	<28.8	<5.17	<4.79	<4.86	<4.48	<4.98	<5.34	<4.65	<4.76
Acenaphthene	mg/kg	<1.02	<0.820	<0.939	<0.815	<0.974	<0.937	<1.05	<0.910	<1.01	<1.02	<1.06	<0.948	<0.914	<0.859	<4.08	<5.73	<1.03	<0.955	<0.968	<0.893	<0.992	<1.07	<0.927	<0.950
Acenaphthylene	mg/kg	<1.02	<0.820	<0.939	<0.815	<0.974	<0.937	<1.05	<0.910	<1.01	<1.02	<1.06	<0.948	<0.914	<0.859	<4.08	<5.73	<1.03	<0.955	<0.968	<0.893	<0.992	<1.07	<0.927	<0.950
Acetophenone	mg/kg	<2.05	<1.64	<1.88	<1.63	<1.95	<1.88	<2.10	<1.82	<2.03	<2.05	<2.11	<1.90	<1.83	<1.72	<8.17	<11.5	<2.07	<1.91	<1.94	<1.79	<1.99	<2.13	<1.86	<1.90
Aniline	mg/kg	<5.14	<4.11	<4.71	<4.09	<4.88	<4.70	<5.25	<4.56	<5.08	<5.13	<5.29	<4.75	<4.59	<4.31	<20.5	<28.8	<5.17	<4.79	<4.86	<4.48	<4.98	<5.34	<4.65	<4.76
Anthracene	mg/kg	<1.02	<0.820	<0.939	<0.815	<0.974	<0.937	<1.05	<0.910	<1.01	<1.02	<1.06	<0.948	<0.914	<0.859	<4.08	<5.73	<1.03	<0.955	<0.968	<0.893	<0.992	<1.07	<0.927	<0.950
Azobenzene	mg/kg	<1.02	<0.820	<0.939	<0.815	<0.974	<0.937	<1.05	<0.910	<1.01	<1.02	<1.06	<0.948	<0.914	<0.859	<4.08	<5.73	<1.03	<0.955	<0.968	<0.893	<0.992	<1.07	<0.927	<0.950
Benzo(a)anthracene	mg/kg	<1.02	<0.820	<0.939	<0.815	<0.974	<0.937	<1.05	<0.910	<1.01	<1.02	<1.06	<0.948	<0.914	<0.859	<4.08	<5.73	2.13	<0.955	<0.968	<0.893	<0.992	<1.07	<0.927	<0.950
Benzo(a)pyrene	mg/kg	<0.514	<0.411	<0.471	<0.409	<0.488	0.657	<0.525	<0.456	<0.508	<0.513	<0.529	<0.475	<0.459	<0.431	<2.05	<2.88	1.88	<0.479	<0.486	<0.448	<0.498	<0.534	<0.465	<0.476
Benzo(b)fluoranthene	mg/kg	<1.02	<0.820	<0.939	<0.815	<0.974	1.11	<1.05	<0.910	<1.01	<1.02	<1.06	<0.948	<0.914	<0.859	<4.08	<5.73	2.25	<0.955	<0.968	<0.893	<0.992	<1.07	<0.927	<0.950
Benzo(g,h,i)perylene	mg/kg	<1.02	<0.820	<0.939	<0.815	<0.974	<0.937	<1.05	<0.910	<1.01	<1.02	<1.06	<0.948	<0.914	<0.859	<4.08	<5.73	1.13	<0.955	<0.968	<0.893	<0.992	<1.07	<0.927	<0.950
Benzo(k)fluoranthene	mg/kg	<1.02	<0.820	<0.939	<0.815	<0.974	<0.937	<1.05	<0.910	<1.01	<1.02	<1.06	<0.948	<0.914	<0.859	<4.08	<5.73	1.18	<0.955	<0.968	<0.893	<0.992	<1.07	<0.927	<0.950
bis(2-Chloroethoxy)methane	mg/kg	<1.02	<0.820	<0.939	<0.815	<0.974	<0.937	<1.05	<0.910	<1.01	<1.02	<1.06	<0.948	<0.914	<0.859	<4.08	<5.73	<1.03	<0.955	<0.968	<0.893	<0.992	<1.07	<0.927	<0.950
bis(2-Chloroethyl)ether	mg/kg	<0.514	<0.411	<0.471	<0.409	<0.488	<0.470	<0.525	<0.456	<0.508	<0.513	<0.529	<0.475	<0.459	<0.431	<0.404	<0.568	<0.517	<0.479	<0.486	<0.448	<0.498	<0.534	<0.465	<0.476
bis(2-chloroisopropyl)Ether	mg/kg	<0.514	<0.411	<0.471	<0.409	<0.488	<0.470	<0.525	<0.456	<0.508	<0.513	<0.529	<0.475	<0.459	<0.431	<0.404	<0.568	<0.517	<0.479	<0.486	<0.448	<0.498	<0.534	<0.465	<0.476
bis(2-Ethylhexyl)phthalate	mg/kg	<1.02	<0.820	<0.939	<0.815	<0.974	<0.937	<1.05	<0.910	<1.01	<1.02	<1.06	<0.948	<0.914	<0.859	<4.08	<5.73	<1.03	<0.955	<0.968	<0.893	<0.992	<1.07	<0.927	<0.950
Butylbenzylphthalate	mg/kg	<1.02	<0.820	<0.939	<0.815	<0.974	<0.937	<1.05	<0.910	<1.01	<1.02	<1.06	<0.948	<0.914	<0.859	<4.08	<5.73	<1.03	<0.955	<0.968	<0.893	<0.992	<1.07	<0.927	<0.950
Chrysene	mg/kg	<0.514	<0.411	<0.471	<0.409	<0.488	0.836	<0.525	<0.456	<0.508	<0.513	<0.529	<0.475	<0.459	<0.431	<2.05	<2.88	2.23	<0.479	<0.486	<0.448	<0.498	<0.534	<0.465	<0.476
Dibenzo(a,h)Anthracene	mg/kg	<0.514	<0.411	<0.471	<0.409	<0.488	<0.470	<0.525	<0.456	<0.508	<0.513	<0.529	<0.475	<0.459	<0.431	<2.05	<2.88	<0.517	<0.479	<0.486	<0.448	<0.498	<0.534	<0.465	<0.476
Dibenzofuran	mg/kg	<1.02	<0.820	<0.939	<0.815	<0.974	<0.937	<1.05	<0.910	<1.01	<1.02	<1.06	<0.948	<0.914	<0.859	<4.08	<5.73	<1.03	<0.955	<0.968	<0.893	<0.992	<1.07	<0.927	<0.950
Diethylphthalate	mg/kg	<1.02	<0.820	<0.939	<0.815	<0.974	<0.937	<1.05	<0.910	<1.01	<1.02	<1.06	<0.948	<0.914	<0.859	<4.08	<5.73	<1.03	<0.955	<0.968	<0.893	<0.992	<1.07	<0.927	<0.950
Dimethylphthalate	mg/kg	<1.02	<0.820	<0.939	<0.815	<0.974	<0.937	<1.05	<0.910	<1.01	<1.02	<1.06	<0.948	<0.914	<0.859	<4.08	<5.73	<1.03	<0.955	<0.968	<0.893	<0.992	<1.07	<0.927	<0.950
Di-n-butylphthalate	mg/kg	<1.02	<0.820	<0.939	<0.815	<0.974	<0.937	<1.05	<0.910	<1.01	<1.02	<1.06	<0.948	<0.914	<0.859	<4.08	<5.73	<1.03	<0.955	<0.968	<0.893	<0.992	<1.07	<0.927	<0.950
Di-n-octylphthalate	mg/kg	<1.02	<0.820	<0.939	<0.815	<0.974	<0.937	<1.05	<0.910	<1.01	<1.02	<1.06	<0.948	<0.914	<0.859	<4.08	<5.73	<1.03	<0.955	<0.968	<0.893	<0.992	<1.07	<0.927	<0.950
Fluoranthene	mg/kg	<1.02	<0.820	<0.939	<0.815	<0.974	1.09	<1.05	<0.910	<1.01	<1.02	<1.06	<0.948	<0.914	<0.859	<4.08	<5.73	4.39	<0.955	<0.968	<0.893	<0.992	<1.07	<0.927	<0.950
Fluorene	mg/kg	<1.02	<0.820	<0.939	<0.815	<0.974	<0.937	<1.05	<0.910	<1.01	<1.02	<1.06	<0.948	<0.914	<0.859	<4.08	<5.73	<1.03	<0.955	<0.968	<0.893	<0.992	<1.07	<0.927	<0.950
Hexachlorobenzene	mg/kg	<0.514	<0.411	<0.471	<0.409	<0.488	<0.470	<0.525	<0.456	<0.508	<0.513	<0.529	<0.475	<0.459	<0.431	<2.05	<1.44	<0.517	<0.479	<0.486	<0.448	<0.498	<0.534	<0.465	<0.476
Hexachlorobutadiene	mg/kg	<1.02	<0.820	<0.939	<0.815	<0.974	<0.937	<1.05	<0.910	<1.01	<1.02	<1.06	<0.948	<0.914	<0.859	<4.08	<5.73	<1.03	<0.955	<0.968	<0.893	<0.992	<1.07	<0.927	<0.950
Hexachloroethane	mg/kg	<1.02	<0.820	<0.939	<0.815	<0.974	<0.937	<1.05	<0.910	<1.01	<1.02	<1.06	<0.948	<0.914	<0.859	<2.05	<2.88	<1.03	<0.955	<0.968	<0.893	<0.992	<1.07	<0.927	<0.950
Indeno(1,2,3-cd)Pyrene	mg/kg	<1.02	<0.820	<0.939	<0.815	<0.974	<0.937	<1.05	<0.910	<1.01	<1.02	<1.06	<0.948	<0.914	<0.859	<4.08	<5.73	1.1	<0.955	<0.968	<0.893	<0.992	<1.07	<0.927	<0.950
Isophorone	mg/kg	<1.02	<0.820	<0.939	<0.815	<0.974	<0.937	<1.05	<0.910	<1.01	<1.02	<1.06	<0.948	<0.914	<0.859	<4.08	<5.73	<1.03	<0.955	<0.968	<0.893	<0.992	<1.07	<0.927	<0.950
Naphthalene	mg/kg	<1.02	<0.820	<0.939	<0.815	<0.974	<0.937	<1.05	<0.910	<1.01	<1.02	<1.06	<0.948	<0.914	<0.859	<4.08	<5.73	<1.03	<0.955	<0.968	<0.893	<0.992	<1.07	<0.927	<0.950
Nitrobenzene	mg/kg	<1.02	<0.820	<0.939	<0.815	<0.974	<0.937	<1.05	<0.910	<1.01	<1.02	<1.06	<0.948	<0.914	<0.859	<4.08	<5.73	<1.03	<0.955	<0.968	<0.893	<0.992	<1.07	<0.927	<0.950
N-Nitrosodimethylamine	mg/kg	<1.02	<0.820	<0.939	<0.815	<0.974	<0.937	<1.05	<0.910	<1.01	<1.02	<1.06	<0.948	<0.914	<0.859	<4.08	<5.73	<1.03	<0.955	<0.968	<0.893	<0.992	<1.07	<0.927	<0.950
Pentachlorophenol	mg/kg	<5.14	<4.11	<4.71	<4.09	<4.88	<4.70	<5.25	<4.56	<5.08	<5.13	<5.29	<4.75	<4.59	<4.31	<4.08	<5.73	<5.17	<4.79	<4.86	<4.48	<4.98	<5.34	<4.65	<4.76
Phenanthrene	mg/kg	<1.02	<0.820	<0.939	<0.815	<0.974	1.1	<1.05	<0.910	<1.01	<1.02	<1.06	<0.948	<0.914	<0.859	<4.08	<5.73	1.93	<0.955	<0.968	<0.893	<0.992	<1.07	<0.927	<0.950
Phenol	mg/kg	<1.02	<0.820	<0.939	<0.815	<0.974	<0.937	<1.05	<0.910	<1.01	<1.02	<1.06	<0.948	<0.914	<0.859	<4.08	<5.73	<1.03	<0.955	<0.968	<0.893	<0.992	<1.07	<0.927	<0.950
Pyrene	mg/kg	<1.02	<0.820	<0.939	<0.815	<0.974	<0.937	<1.05	<0.910	<1.01	<1.02	<1.06	<0.948	<0.914	<0.859	<4.08	<5.73	3.37	<0.955	<0.968	<0.893	<0.992	<1.07	<0.927	<0.950
Total SVOCs	mg/kg	ND	ND	ND	ND	ND	4.793	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	21.59	ND	ND	ND	ND	ND	ND	ND
Classic Chemistry																									
Corrosivity (pH)	S.U.	6.51	7.3	7.47	7.71	8.55	9.2	6.35	7.23	4.42	6.36	6.76	5.32	5.27	5.62	6.91	6.32	6.73	7.42	6.43	6.83	6.53	5.42	4.59	5.2
Conductivity	umhos/cm	1250	868	597	357	497	649	1020	833	2430	1740	1100	1570	1280	1260	467	5200	213	206	275	193	281	533	224	148
Flashpoint	°F	--	--	--	--	--	>200	>200	>200	--	--	--	--	--	--	>200	>200	>200	>200	>200	>200	>200	--	--	--
Reactive Cyanide	mg/kg	--	--	--	--	--	<2.0	<2.0	<2.0	--	--	--	--	--	--	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--	--	--
Reactive Sulfide	mg/kg	--	--	--	--	--	<2.0	<2.0	<2.0	--	--	--	--	--	--	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--	--	--

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	D09 D09S13S14 1503135 Natural Sand/Gravel 34 - 38 3/9/2015	D10 D10S01S02A 1501229 Fill 0 - 3.33 1/13/2015	D10 D10S02BS04A 1501229 Fill 3.33 - 6.66 1/13/2015	D10 D10S04BS05 1501229 Fill 6.66 - 10 1/13/2015	D10 D10S06A 1501229 Natural Sand/Gravel 10 - 11.778 1/13/2015	D10 D10S06BS07 1501229 Natural Sand/Gravel 11.778 - 14 1/13/2015	D10 D10S08 1501229 Natural Sand/Gravel 19 - 21 1/13/2015	D10 D10S09 1501229 Natural Sand/Gravel 24 - 26 1/13/2015	D10 D10S10 1501229 Natural Sand/Gravel 29 - 31 1/13/2015	D10 D10S11S12 1501229 Natural Sand/Gravel 34 - 38 1/13/2015	D11 D11S01S02A 1502258 Fill 0 - 3.3 2/18/2015	D11 D11S02BS04A 1502258 Fill 3.3 - 6.6 2/18/2015	D11 D11S04B 1502258 Fill 6.6 - 8 2/18/2015	D11 D11S05S06 1502258 Natural Clay 8 - 12 2/18/2015	D11 D11S07 1502258 Natural Sand/Gravel 14 - 16 2/18/2015	D11 D11S08 1502258 Natural Sand/Gravel 19 - 21 2/18/2015	D11 D11S09 1502258 Natural Sand/Gravel 24 - 26 2/18/2015	D11 D11S10 1502258 Natural Sand/Gravel 29 - 31 2/18/2015	D11 D11S11S12 1502258 Natural Sand/Gravel 34 - 38 2/18/2015	D12 D12S01S02A 1501270 Fill 0 - 3.3 1/14/2015	D12 D12S02BS04A 1501270 Fill 3.3 - 6.6 1/14/2015	D12 D12S04BS05A 1501301 Fill 6.6 - 8.3 1/15/2015	D12 D12S05B 1501301 Natural Clay 8.3 -10 1/15/2015	D12 D12S06 1501301 Natural Sand/Gravel 14 - 16 1/15/2015
Preliminary Disposal Facility Category		Uncontaminated	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type B-1	Uncontaminated	Uncontaminated	Uncontaminated	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type B	MCP Regulated Type B-1	Uncontaminated	Uncontaminated	Uncontaminated	MCP Regulated Type A	Uncontaminated	Uncontaminated	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type B	Hazardous Material Type A	Uncontaminated
RCRA 8 Metals	**Units**																								
Arsenic	mg/kg	13.8	29.3	248	13.6	19.2	8.46	<7.77	<8.54	15.4	11.3	<6.75	40.4	16.9	9.55	11.8	13.9	29.2	14.7	8.32	9.93	23.9	14.8	58.2	9.84
Barium	mg/kg	21.9	98.4	128	31.4	31.8	17.9	16.9	12	<8.16	<8.35	22.2	144	88.5	44.5	13.9	15	38.4	12.8	23	27.3	57	61.3	45.3	14.4
Cadmium	mg/kg	<1.51	<1.71	3.69	<1.74	<1.80	<1.69	<1.55	<1.71	<1.63	<1.67	<1.35	<1.37	<1.58	<1.55	<1.43	<1.32	<1.21	<1.37	<1.21	<1.38	<1.36	<1.53	<1.56	<1.56
Chromium	mg/kg	15.5	23.2	30.2	17.7	18.5	10.8	15.1	14.3	15.9	18.7	21.3	11.2	6.27	27.4	9.69	16.5	23.7	20.4	11.8	55	17.9	<3.06	22.6	13.6
Lead	mg/kg	<15.1	2830	245	<17.4	82.1	<16.9	<15.5	<17.1	<16.3	<16.7	<13.5	4290	259	<15.5	<14.3	<13.2	50.7	<13.7	<12.1	72.1	929	2540	<15.6	<15.6
Selenium	mg/kg	<7.54	<6.84	<7.11	<6.97	<14.4	<13.5	<12.4	<13.7	<13.1	<13.4	<6.75	<6.87	<7.92	<7.76	<7.14	<6.59	26.1	<6.86	<6.04	<6.88	<6.80	<7.64	<7.82	<15.6
Silver	mg/kg	<1.51	<1.71	<1.78	<1.74	<1.80	<1.69	<1.55	<1.71	<1.63	<1.67	<1.35	<1.37	<1.58	<1.55	<1.43	<1.32	3.06	<1.37	<1.21	<1.38	<1.36	2.15	<1.56	<1.56
Mercury	mg/kg	<0.033	11.1	0.222	<0.032	0.028	<0.035	<0.033	<0.036	<0.026	<0.032	<0.031	6.64	0.079	<0.028	<0.038	<0.035	3.03	0.176	<0.032	0.034	3.21	0.808	<0.037	0.121
Metals by Toxicity Characteristic Leaching Procedure (TCLP)																									
Arsenic	mg/L	--	--	<0.050	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead	mg/L	--	1.88	1.25	--	--	--	--	--	--	--	--	27.2	0.143	--	--	--	--	--	--	--	0.26	13.1	--	--
Selenium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.050	--	--	--	--	--	--	--
Mercury	mg/L	--	<0.00050	--	--	--	--	--	--	--	--	--	<0.00050	--	--	--	--	--	--	--	--	--	--	--	--
Herbicides																									
2,4,5-T	mg/kg	--	<0.056	<0.070	<0.060	--	--	--	--	--	--	<0.048	<0.29	<0.066	--	--	--	--	--	--	<0.050	<0.27	<0.059	--	--
2,4-D	mg/kg	--	<0.056	<0.070	<0.060	--	--	--	--	--	--	<0.048	<0.29	<0.066	--	--	--	--	--	--	<0.050	<0.27	<0.059	--	--
2,4-DB	mg/kg	--	<0.056	<0.070	<0.060	--	--	--	--	--	--	<0.048	<0.29	<0.066	--	--	--	--	--	--	<0.050	<0.27	<0.059	--	--
Dalapon	mg/kg	--	<0.67	<0.85	<0.72	--	--	--	--	--	--	<0.58	<3.5	<0.79	--	--	--	--	--	--	<0.60	<3.2	<0.71	--	--
Dicamba	mg/kg	--	<0.056	<0.070	<0.060	--	--	--	--	--	--	<0.048	<0.29	<0.066	--	--	--	--	--	--	<0.050	<0.27	<0.059	--	--
Dichlorprop	mg/kg	--	<0.056	<0.070	<0.060	--	--	--	--	--	--	<0.048	<0.29	<0.066	--	--	--	--	--	--	<0.050	<0.27	<0.059	--	--
Dinoseb	mg/kg	--	<0.34	<0.42	<0.36	--	--	--	--	--	--	<0.29	<1.7	<0.40	--	--	--	--	--	--	<0.30	<1.6	<0.35	--	--
MCPA	mg/kg	--	<13	<17	<14	--	--	--	--	--	--	<12	<70	<16	--	--	--	--	--	--	<12	<64	<14	--	--
MCPP	mg/kg	--	<13	<17	<14	--	--	--	--	--	--	<12	<70	<16	--	--	--	--	--	--	<12	<64	<14	--	--
Silvex (2,4,5-TP)	mg/kg	--	<0.056	<0.070	<0.060	--	--	--	--	--	--	<0.048	<0.29	<0.066	--	--	--	--	--	--	<0.050	<0.27	<0.059	--	--
Pesticides																									
4,4'-DDD	mg/kg	--	<0.020	<0.0049	<0.0021	--	--	--	--	--	--	<0.0018	<0.0039	<0.0023	--	--	--	--	--	--	<0.0090	<0.018	<0.0040	--	--
4,4'-DDE	mg/kg	--	<0.020	<0.0049	<0.0021	--	--	--	--	--	--	<0.0018	<0.0039	<0.0023	--	--	--	--	--	--	<0.0090	<0.018	<0.0040	--	--
4,4'-DDT	mg/kg	--	<0.020	<0.0049	<0.0021	--	--	--	--	--	--	<0.0018	<0.0039	<0.0023	--	--	--	--	--	--	<0.0090	<0.018	<0.0040	--	--
Aldrin	mg/kg	--	<0.020	<0.0049	<0.0021	--	--	--	--	--	--	<0.0018	<0.0039	<0.0023	--	--	--	--	--	--	<0.0090	<0.018	<0.0040	--	--
alpha-BHC	mg/kg	--	<0.020	<0.0049	<0.0021	--	--	--	--	--	--	<0.0018	<0.0039	<0.0023	--	--	--	--	--	--	<0.0090	<0.018	<0.0040	--	--
beta-BHC	mg/kg	--	<0.020	<0.0049	<0.0021	--	--	--	--	--	--	<0.0018	<0.0039	<0.0023	--	--	--	--	--	--	<0.0090	<0.018	<0.0040	--	--
Chlordane (technical)	mg/kg	--	<0.20	<0.049	<0.021	--	--	--	--	--	--	<0.018	<0.039	<0.023	--	--	--	--	--	--	<0.090	<0.18	<0.040	--	--
delta-BHC	mg/kg	--	<0.020	<0.0049	<0.0021	--	--	--	--	--	--	<0.0018	<0.0039	<0.0023	--	--	--	--	--	--	<0.0090	<0.018	<0.0040	--	--
Dieldrin	mg/kg	--	<0.020	<0.0049	<0.0021	--	--	--	--	--	--	<0.0018	<0.0039	<0.0023	--	--	--	--	--	--	<0.0090	<0.018	<0.0040	--	--
Endosulfan I	mg/kg	--	<0.020	<0.0049	<0.0021	--	--	--	--	--	--	<0.0018	<0.0039	<0.0023	--	--	--	--	--	--	<0.0090	<0.018	<0.0040	--	--
Endosulfan II	mg/kg	--	<0.020	<0.0049	<0.0021	--	--	--	--	--	--	<0.0018	<0.0039	<0.0023	--	--	--	--	--	--	<0.0090	<0.018	<0.0040	--	--
Endosulfan sulfate	mg/kg	--	<0.020	<0.0049	<0.0021	--	--	--	--	--	--	<0.0018	<0.0039	<0.0023	--	--	--	--	--	--	<0.0090	<0.018	<0.0040	--	--
Endrin	mg/kg	--	<0.020	<0.0049	<0.0021	--	--	--	--	--	--	<0.0018	<0.0039	<0.0023	--	--	--	--	--	--	<0.0090	<0.018	<0.0040	--	--
Endrin ketone	mg/kg	--	<0.020	<0.0049	<0.0021	--	--	--	--	--	--	<0.0018	<0.0039	<0.0023	--	--	--	--	--	--	<0.0090	<0.018	<0.0040	--	--
gamma-BHC (Lindane)	mg/kg	--	<0.020	<0.0049	<0.0021	--	--	--	--	--	--	<0.0018	<0.0039	<0.0023	--	--	--	--	--	--	<0.0090	<0.018	<0.0040	--	--
Heptachlor	mg/kg	--	<0.020	<0.0049	<0.0021	--	--	--	--	--	--	<0.0018	<0.0039	<0.0023	--	--	--	--	--	--	<0.0090	<0.018	<0.0040	--	--
Heptachlor epoxide	mg/kg	--	<0.020	<0.0049	<0.0021	--	--	--	--	--	--	<0.0018	<0.0039	<0.0023	--	--	--	--	--	--	<0.0090	<0.018	<0.0040	--	--
Hexachlorobenzene	mg/kg	--	<0.020	<0.0049	<0.0021	--	--	--	--	--	--	<0.0018	<0.0039	<0.0023	--	--	--	--	--	--	<0.0090	<0.018	<0.0040	--	--
Methoxychlor	mg/kg	--	<0.020	<0.0049	<0.0021	--	--	--	--	--	--	<0.0018	<0.0039	<0.0023	--	--	--	--	--	--	<0.0090	<0.018	<0.0040	--	--
Polychlorinated Biphenyls																									
Aroclor 1016	mg/kg	<0.145	<0.134	<0.149	<0.141	<0.152	<0.148	<0.141	<0.139	<0.140	<0.142	<0.134	<0.144	<0.148	<0.147	<0.137	<0.143	<0.127	<0.132	<0.144	<0.130	<0.135	<0.139	<0.149	<0.146
Aroclor 1221	mg/kg	<0.145	<0.134	<0.149	<0.141	<0.152	<0.148	<0.141	<0.139	<0.140	<0.142	<0.134	<0.144	<0.148	<0.147	<0.137	<0.143	<0.127	<0.132	<0.144	<0.130	<0.135	<0.139	<0.149	<0.146
Aroclor 1232	mg/kg	<0.145	<0.134	<0.149	<0.141	<0.152	<0.148	<0.141	<0.139	<0.140	<0.142	<0.134	<0.144	<0.148	<0.147	<0.137	<0.143	<0.127	<0.132	<0.144	<0.130	<0.135	<0.139	<0.149	<0.146
Aroclor 1242	mg/kg	<0.145	<0.134	<0.149	<0.141	<0.152	<0.148	<0.141	<0.139	<0.140	<0.142	<0.134	<0.144	<0.148	<0.147	<0.137	<0.143	<0.127	<0.132	<0.144	<0.130	<0.135	<0.139	<0.149	<0.146
Aroclor 1248	mg/kg	<0.145	<0.134	<0.149	<0.141	<0.152	<0.148	<0.141	<0.139	<0.140	<0.142	<0.134	1.06	<0.148	<0.147	<0.137	<0.143	<0.127	<0.132	<0.144	<0.130	<0.135	<0.139	<0.149	<0.146
Aroclor 1254	mg/kg	<0.145	<0.134	<0.149	<0.141	<0.152	<0.148	<0.141	<0.139	<0.140	<0.142	<0.134	<0.144	<0.148	<0.147	<0.137	<0.143	<0.127	<0.132	<0.144	<0.130	0.339	<0.139	<0.149	<0.146
Aroclor 1260	mg/kg	<0.145	0.281	<0.149	<0.141	<0.152	<0.148	<0.141	<0.139	<0.140	<0.142	<0.134	<0.144	<0.148	<0.147	<0.137	<0.143	<0.127	<0.132	<0.144	<0.130	0.166	<0.139	<0.149	<0.146
Aroclor 1262	mg/kg	<0.145	<0.134	<0.149	<0.141	<0.152	<0.148	<0.141	<0.139	<0.140	<0.142	<0.134	1.79	<0.148	<0.147	<0.137	<0.143	<0.127	<0.132	<0.144	<0.130	<0.135	<0.139	<0.149	<0.146
Aroclor 1268	mg/kg	<0.145	<0.134	<0.149	<0.141	<0.152	<0.148	<0.141	<0.139	<0.140	<0.142	<0.134	<0.144	<0.148	<0.147	<0.137	<0.143	<0.127	<0.132	<0.144	<0.130	<0.135	<0.139	<0.149	<0.146
Total PCBs	mg/kg	ND	0.281	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.85	ND	ND	ND	ND	ND	ND	ND	ND	0.505	ND	ND	ND
Total Petroleum Hydrocarbons	mg/kg	<40.9	336	95.4	421	4270	<46.2	<43.0	<42.8	<44.1	<44.5	<40.2	694	<48.8	<48.1	<45.5	<48.1	<44.1	<38.0	<45.6	106	260	103	<48.6	<49.3
Volatile Organic Compounds (VOCs)																									
1,1,1,2-Tetrachloroethane	mg/kg	--	--	--	--	<0.111	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	mg/kg	--	--	--	--	<0.0553	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg	--	--	--	--	<0.0553	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	mg/kg	--	--	--	--	<0.0553	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	mg/kg	--	--	--	--	<0.0553	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	mg/kg	--	--	--	--	<0.0553	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloropropene	mg/kg	--	--	--	--	<0.0553	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	mg/kg	--	--	--	--	<0.0553	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	mg/kg	--	--	--	--	<0.0553	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	mg/kg	--	--	--	--	<0.0553	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	mg/kg	--	--	--	--	<0.0553	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-Chloropropane	mg/kg	--	--	--	--	<0.221	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	mg/kg	--	--	--	--	<0.0553	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	mg/kg	--	--	--	--	<0.0553	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	mg/kg	--	--	--	--	<0.0553	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	mg/kg	--	--	--	--	<0.0553	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	mg/kg	--	--	--	--	<0.0553	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	mg/kg	--	--	--	--	<0.0553	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichloropropane	mg/kg	--	--	--	--	<0.0553	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg	--	--	--	--	<0.0553	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane - Screen	mg/kg	--	--	--	--	<5.53	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,2-Dichloropropane	mg/kg	--	--	--	--	<0.111	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Butanone	mg/kg	--	--	--	--	<0.221	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chlorotoluene	mg/kg	--	--	--	--	<0.0553	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	mg/kg	--	--	--	--	<0.221	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Chlorotoluene	mg/kg	--	--	--	--	<0.0553	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Isopropyltoluene	mg/kg	--	--	--	--	<0.0553	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-Pentanone	mg/kg	--	--	--	--	<0.221	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	mg/kg	--	--	--	--	0.667	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzene	mg/kg	--	--	--	--	<0.0553	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromobenzene	mg/kg	--	--	--	--	<0.0553	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	mg/kg	--	--	--	--	<0.0553	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	mg/kg	--	--	--	--	<0.0553	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	mg/kg	--	--	--	--	<0.0553	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	mg/kg	--	--	--	--	<0.111	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Disulfide	mg/kg	--	--	--	--	<0.0553	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	mg/kg	--	--	--	--	<0.0553	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	D09 D09S13S14 1503135 Natural Sand/Gravel 34 - 38 3/9/2015	D10 D10S01S02A 1501229 Fill 0 - 3.33 1/13/2015	D10 D10S02BS04A 1501229 Fill 3.33 - 6.66 1/13/2015	D10 D10S04BS05 1501229 Fill 6.66 - 10 1/13/2015	D10 D10S06A 1501229 Natural Sand/Gravel 10 - 11.778 1/13/2015	D10 D10S06BS07 1501229 Natural Sand/Gravel 11.778 - 14 1/13/2015	D10 D10S08 1501229 Natural Sand/Gravel 19 - 21 1/13/2015	D10 D10S09 1501229 Natural Sand/Gravel 24 - 26 1/13/2015	D10 D10S10 1501229 Natural Sand/Gravel 29 - 31 1/13/2015	D10 D10S11S12 1501229 Natural Sand/Gravel 34 - 38 1/13/2015	D11 D11S01S02A 1502258 Fill 0 - 3.3 2/18/2015	D11 D11S02BS04A 1502258 Fill 3.3 - 6.6 2/18/2015	D11 D11S04B 1502258 Fill 6.6 - 8 2/18/2015	D11 D11S05S06 1502258 Natural Clay 8 - 12 2/18/2015	D11 D11S07 1502258 Natural Sand/Gravel 14 - 16 2/18/2015	D11 D11S08 1502258 Natural Sand/Gravel 19 - 21 2/18/2015	D11 D11S09 1502258 Natural Sand/Gravel 24 - 26 2/18/2015	D11 D11S10 1502258 Natural Sand/Gravel 29 - 31 2/18/2015	D11 D11S11S12 1502258 Natural Sand/Gravel 34 - 38 2/18/2015	D12 D12S01S02A 1501270 Fill 0 - 3.3 1/14/2015	D12 D12S02BS04A 1501270 Fill 3.3 - 6.6 1/14/2015	D12 D12S04BS05A 1501301 Fill 6.6 - 8.3 1/15/2015	D12 D12S05B 1501301 Natural Clay 8.3 - 10 1/15/2015	D12 D12S06 1501301 Natural Sand/Gravel 14 - 16 1/15/2015
Preliminary Disposal Facility Category		Uncontaminated	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type B-1	Uncontaminated	Uncontaminated	Uncontaminated	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type B	MCP Regulated Type B-1	Uncontaminated	Uncontaminated	Uncontaminated	MCP Regulated Type A	Uncontaminated	Uncontaminated	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type B	Hazardous Material Type A	Uncontaminated
Chlorobenzene	mg/kg	--	--	--	--	<0.0553	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	mg/kg	--	--	--	--	<0.111	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	mg/kg	--	--	--	--	<0.0553	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	mg/kg	--	--	--	--	<0.111	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	mg/kg	--	--	--	--	<0.0553	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	mg/kg	--	--	--	--	<0.0553	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	mg/kg	--	--	--	--	<0.0553	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromomethane	mg/kg	--	--	--	--	<0.0553	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	mg/kg	--	--	--	--	<0.0553	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Diethyl Ether	mg/kg	--	--	--	--	<0.0553	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Di-isopropyl ether	mg/kg	--	--	--	--	<0.0553	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethyl tertiary-butyl ether	mg/kg	--	--	--	--	<0.0553	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	mg/kg	--	--	--	--	<0.0553	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	mg/kg	--	--	--	--	<0.0553	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene	mg/kg	--	--	--	--	<0.0553	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	mg/kg	--	--	--	--	<0.0553	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride	mg/kg	--	--	--	--	<0.221	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	mg/kg	--	--	--	--	0.357	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	mg/kg	--	--	--	--	<0.0553	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	mg/kg	--	--	--	--	<0.0553	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	mg/kg	--	--	--	--	<0.0553	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	mg/kg	--	--	--	--	<0.0553	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
tert-Butylbenzene	mg/kg	--	--	--	--	<0.0553	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tertiary-amyl methyl ether	mg/kg	--	--	--	--	<0.0553	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	mg/kg	--	--	--	--	<0.0553	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	mg/kg	--	--	--	--	<0.221	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	mg/kg	--	--	--	--	<0.0553	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	mg/kg	--	--	--	--	<0.0553	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	mg/kg	--	--	--	--	<0.0553	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene	mg/kg	--	--	--	--	<0.0553	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane	mg/kg	--	--	--	--	<0.0553	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	mg/kg	--	--	--	--	<0.0553	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene O	mg/kg	--	--	--	--	<0.0553	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene P,M	mg/kg	--	--	--	--	<0.111	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylenes (Total)	mg/kg	--	--	--	--	<0.111	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total VOCs	mg/kg	--	--	--	--	1.024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds - Low Level Analysis																									
1,1,1,2-Tetrachloroethane	mg/kg	<0.0032	<0.0072	<0.0049	<0.0035	--	<0.0043	<0.0039	<0.0037	<0.0049	<0.0041	<0.0070	<0.0059	<0.0070	<0.0061	<0.0044	<0.0044	<0.0050	<0.0041	<0.0045	<0.0040	<0.0042	<0.0034	<0.0036	<0.0039
1,1,1-Trichloroethane	mg/kg	<0.0032	<0.0072	<0.0049	<0.0035	--	<0.0043	<0.0039	<0.0037	<0.0049	<0.0041	<0.0070	<0.0059	<0.0070	<0.0061	<0.0044	<0.0044	<0.0050	<0.0041	<0.0045	<0.0040	<0.0042	<0.0034	<0.0036	<0.0039
1,1,2,2-Tetrachloroethane	mg/kg	<0.0013	<0.0029	<0.0019	<0.0014	--	<0.0017	<0.0016	<0.0015	<0.0020	<0.0016	<0.0028	<0.0023	<0.0028	<0.0024	<0.0018	<0.0018	<0.0020	<0.0016	<0.0018	<0.0016	<0.0017	<0.0014	<0.0014	<0.0016
1,1,2-Trichloroethane	mg/kg	<0.0032	<0.0072	<0.0049	<0.0035	--	<0.0043	<0.0039	<0.0037	<0.0049	<0.0041	<0.0070	<0.0059	<0.0070	<0.0061	<0.0044	<0.0044	<0.0050	<0.0041	<0.0045	<0.0040	<0.0042	<0.0034	<0.0036	<0.0039
1,1-Dichloroethane	mg/kg	<0.0032	<0.0072	<0.0049	<0.0035	--	<0.0043	<0.0039	<0.0037	<0.0049	<0.0041	<0.0070	<0.0059	<0.0070	<0.0061	<0.0044	<0.0044	<0.0050	<0.0041	<0.0045	<0.0040	<0.0042	<0.0034	<0.0036	<0.0039
1,1-Dichloroethene	mg/kg	<0.0032	<0.0072	<0.0049	<0.0035	--	<0.0043	<0.0039	<0.0037	<0.0049	<0.0041	<0.0070	<0.0059	<0.0070	<0.0061	<0.0044	<0.0044	<0.0050	<0.0041	<0.0045	<0.0040	<0.0042	<0.0034	<0.0036	<0.0039
1,1-Dichloropropene	mg/kg	<0.0032	<0.0072	<0.0049	<0.0035	--	<0.0043	<0.0039	<0.0037	<0.0049	<0.0041	<0.0070	<0.0059	<0.0070	<0.0061	<0.0044	<0.0044	<0.0050	<0.0041	<0.0045	<0.0040	<0.0042	<0.0034	<0.0036	<0.0039
1,2,3-Trichlorobenzene	mg/kg	<0.0032	<0.0072	<0.0049	<0.0035	--	<0.0043	<0.0039	<0.0037	<0.0049	<0.0041	<0.0070	<0.0059	<0.0070	<0.0061	<0.0044	<0.0044	<0.0050	<0.0041	<0.0045	<0.0040	<0.0042	<0.0034	<0.0036	<0.0039
1,2,3-Trichloropropane	mg/kg	<0.0032	<0.0072	<0.0049	<0.0035	--	<0.0043	<0.0039	<0.0037	<0.0049	<0.0041	<0.0070	<0.0059	<0.0070	<0.0061	<0.0044	<0.0044	<0.0050	<0.0041	<0.0045	<0.0040	<0.0042	<0.0034	<0.0036	<0.0039
1,2,4-Trichlorobenzene	mg/kg	<0.0032	<0.0072	<0.0049	<0.0035	--	<0.0043	<0.0039	<0.0037	<0.0049	<0.0041	<0.0070	<0.0059	<0.0070	<0.0061	<0.0044	<0.0044	<0.0050	<0.0041	<0.0045	<0.0040	<0.0042	<0.0034	<0.0036	<0.0039
1,2,4-Trimethylbenzene	mg/kg	<0.0032	<0.0072	<0.0049	<0.0035	--	<0.0043	<0.0039	<0.0037	<0.0049	<0.0041	<0.0070	<0.0059	<0.0070	<0.0061	<0.0044	<0.0044	<0.0050	<0.0041	<0.0045	<0.0040	<0.0042	<0.0034	<0.0036	<0.0039
1,2-Dibromo-3-Chloropropane	mg/kg	<0.0032	<0.0072	<0.0049	<0.0035	--	<0.0043	<0.0039	<0.0037	<0.0049	<0.0041	<0.0070	<0.0059	<0.0070	<0.0061	<0.0044	<0.0044	<0.0050	<0.0041	<0.0045	<0.0040	<0.0042	<0.0034	<0.0036	<0.0039
1,2-Dibromoethane	mg/kg	<0.0032	<0.0072	<0.0049	<0.0035	--	<0.0043	<0.0039	<0.0037	<0.0049	<0.0041	<0.0070	<0.0059	<0.0070	<0.0061	<0.0044	<0.0044	<0.0050	<0.0041	<0.0045	<0.0040	<0.0042	<0.0034	<0.0036	<0.0039
1,2-Dichlorobenzene	mg/kg	<0.0032	<0.0072	<0.0049	<0.0035	--	<0.0043	<0.0039	<0.0037	<0.0049	<0.0041	<0.0070	<0.0059	<0.0070	<0.0061	<0.0044	<0.0044	<0.0050	<0.0041	<0.0045	<0.0040	<0.0042	<0.0034	<0.0036	<0.0039
1,2-Dichloroethane	mg/kg	<0.0032	<0.0072	<0.0049	<0.0035	--	<0.0043	<0.0039	<0.0037	<0.0049	<0.0041	<0.0070	<0.0059	<0.0070	<0.0061	<0.0044	<0.0044	<0.0050	<0.0041	<0.0045	<0.0040	<0.0042	<0.0034	<0.0036	<0.0039
1,2-Dichloropropane	mg/kg	<0.0032	<0.0072	<0.0049	<0.0035	--	<0.0043	<0.0039	<0.0037	<0.0049	<0.0041	<0.0070	<0.0059	<0.0070	<0.0061	<0.0044	<0.0044	<0.0050	<0.0041	<0.0045	<0.0040	<0.0042	<0.0034	<0.0036	<0.0039
1,3,5-Trimethylbenzene	mg/kg	<0.0032	<0.0072	<0.0049	<0.0035	--	<0.0043	<0.0039	<0.0037	<0.0049	<0.0041	<0.0070	<0.0059	<0.0070	<0.0061	<0.0044	<0.0044	<0.0050	<0.0041	<0.0045	<0.0040	<0.0042	<0.0034	<0.0036	<0.0039
1,3-Dichlorobenzene	mg/kg	<0.0032	<0.0072	<0.0049	<0.0035	--	<0.0043	<0.0039	<0.0037	<0.0049	<0.0041	<0.0070	<0.0059	<0.0070	<0.0061	<0.0044	<0.0044	<0.0050	<0.0041	<0.0045	<0.0040	<0.0042	<0.0034	<0.0036	<0.0039
1,3-Dichloropropane	mg/kg	<0.0032	<0.0072	<0.0049	<0.0035	--	<0.0043	<0.0039	<0.0037	<0.0049	<0.0041	<0.0070	<0.0059	<0.0070	<0.0061	<0.0044	<0.0044	<0.0050	<0.0041	<0.0045	<0.0040	<0.0042	<0.0034	<0.0036	<0.0039
1,4-Dichlorobenzene	mg/kg	<0.0032	<0.0072	<0.0049	<0.0035	--	<0.0043	<0.0039	<0.0037	<0.0049	<0.0041	<0.0070	<0.0059	<0.0070	<0.0061	<0.0044	<0.0044	<0.0050	<0.0041	<0.0045	<0.0040	<0.0042	<0.0034	<0.0036	<0.0039
1,4-Dioxane	mg/kg	<0.0635	<0.144	<0.0970	<0.0701	--	<0.0869	<0.0781	<0.0744	<0.0980	<0.0812	<0.141	<0.117	<0.141	<0.122	<0.0885	<0.0889	<0.101	<0.0819	<0.0896	<0.0809	<0.0832	<0.0681	<0.0715	<0.0785
2,2-Dichloropropane	mg/kg	<0.0032	<0.0072	<0.0049	<0.0035	--	<0.0043	<0.0039	<0.0037	<0.0049	<0.0041	<0.0070	<0.0059	<0.0070	<0.0061	<0.0044	<0.0044	<0.0050	<0.0041	<0.0045	<0.0040	<0.0042	<0.0034	<0.0036	<0.0039
2-Butanone	mg/kg	<0.0064	<0.0144	<0.0097	<0.0070	--	<0.0087	<0.0078	<0.0074	<0.0098	<0.0081	<0.0141	<0.0117	<0.0141	<0.0122	<0.0088	<0.0089	<0.0101	<0.0082	<0.0090	<0.0081	<0.0083	<0.0068	<0.0072	<0.0078
2-Chlorotoluene	mg/kg	<0.0032	<0.0072	<0.0049	<0.0035	--	<0.0043	<0.0039	<0.0037	<0.0049	<0.0041	<0.0070	<0.0059	<0.0070	<0.0061	<0.0044	<0.0044	<0.0050	<0.0041	<0.0045	<0.0040	<0.0042	<0.0034	<0.0036	<0.0039
2-Hexanone	mg/kg	<0.0064	<0.0144	<0.0097	<0.0070	--	<0.0087	<0.0078	<0.0074	<0.0098	<0.0081	<0.0141	<0.0117	<0.0141	<0.0122	<0.0088	<0.0089	<0.0101	<0.0082	<0.0090	<0.0081	<0.0083	<0.0068	<0.0072	<0.0078
4-Chlorotoluene	mg/kg	<0.0032	<0.0072	<0.0049	<0.0035	--	<0.0043	<0.0039	<0.0037	<0.0049	<0.0041	<0.0070	<0.0059	<0.0070	<0.0061	<0.0044	<0.0044	<0.0050	<0.0041	<0.0045	<0.0040	<0.0042	<0.0034	<0.0036	<0.0039
4-Isopropyltoluene	mg/kg	<0.0032	<0.0072	<0.0049	<0.0035	--	<0.0043	<0.0039	<0.0037	<0.0049	<0.0041	<0.0070	<0.0059	<0.0070	<0.0061	<0.0044	<0.0044	<0.0050	<0.0041	<0.0045	<0.0040	<0.0042	<0.0034	<0.0036	<0.0039
4-Methyl-2-Pentanone	mg/kg	<0.0064	<0.0144	<0.0097	<0.0070	--	<0.0087	<0.0078	<0.0074	<0.0098	<0.0081	<0.0141	<0.0117	<0.0141	<0.0122	<0.0088	<0.0089	<0.0101	<0.0082	<0.0090	<0.0081	<0.0083	<0.0068	<0.0072	<0.0078
Acetone	mg/kg	<0.0064	<0.0144	<0.0097	<0.0070	--	<0.0087	<0.0078	<0.0074	0.0236	0.0082	0.0466	0.0301	0.0208	<0.0122	<0.0088	<0.0089	<0.0101	<0.0082	<0.0090	<0.0081	<0.0083	0.0096	0.0109	<0.0078
Benzene	mg/kg	<0.0032	<0.0072	<0.0049	<0.0035	--	<0.0043	<0.0039	<0.0037	<0.0049	<0.0041	<0.0070	<0.0059	<0.0070	<0.0061	<0.0044	<0.0044	<0.0050	<0.0041	<0.0045	<0.0040	<0.0042	<0.0034	<0.0036	<0.0039
Bromobenzene	mg/kg	<0.0032	<0.0072	<0.0049	<0.0035	--	<0.0043	<0.0039	<0.0037	<0.0049	<0.0041	<0.0070	<0.0059	<0.0070	<0.0061	<0.0044	<0.0044	<0.0050	<0.0041	<0.0045	<0.0040	<0.0042	<0.0034	<0.0036	<0.0039
Bromochloromethane	mg/kg	<0.0032	<0.0072	<0.0049	<0.0035	--	<0.0043	<0.0039	<0.0037	<0.0049	<0.0041	<0.0070	<0.0059	<0.0070	<0.0061	<0.0044	<0.0044	<0.0050	<0.0041	<0.0045	<0.0040	<0.0042	<0.0034	<0.0036	<0.0039
Bromodichloromethane	mg/kg	<0.0032	<0.0072	<0.0049	<0.0035	--	<0.0043	<0.0039	<0.0037	<0.0049	<0.0041	<0.0070	<0.0059	<0.0070	<0.0061	<0.0044	<0.0044	<0.0050	<0.0041	<0.0045	<0.0040	<0.0042	<0.0034	<0.0036	<0.0039
Bromoform	mg/kg	<0.0032	<0.0072	<0.0049	<0.0035	--	<0.0043	<0.0039	<0.0037	<0.0049	<0.0041	<0.0070	<0.0059	<0.0070	<0.0061	<0.0044	<0.0044	<0.0050	<0.0041	<0.0045	<0.0040	<0.0042	<0.0034	<0.0036	<0.0039
Bromomethane	mg/kg	<0.0064	<0.0144	<0.0097	<0.0070	--	<0.0087	<0.0078	<0.0074	<0.0098	<0.0081	<0.0141	<0.0117	<0.0141	<0.0122	<0.0088	<0.0089	<0.0101	<0.0082	<0.0090	<0.0081	<0.0083	<0.0068	<0.0072	<0.0078
Carbon Disulfide	mg/kg	<0.0032	<0.0072	<0.0049	<0.0035	--	<0.0043	<0.0039	<0.0037	<0.0049	<0.0041	<0.0070	<0.0059	<0.0070	<0.0061	<0.0044	<0.0044	<0.0050	<0.0041	<0.0045	<0.0040	<0.0042	<0.0034	<0.0036	<0.0039
Carbon Tetrachloride	mg/kg	<0.0032	<0.0072	<0.0049	<0.0035	--	<0.0043	<0.0039	<0.0037	<0.0049	<0.0041	<0.0070	<0.0059	<0.0070	<0.0061	<0.0044	<0.0044	<0.0050	<0.0041	<0.0045	<0.0040	<0.0042	<0.0034	<0.0036	<0.0039
Chlorobenzene	mg/kg	<0.0032	<0.0072	<0.0049	<0.0035	--	<0.0043	<0.0039	<0.0037	<0.0049	<0.0041	<0.0070	<0.0059	<0.0070	<0.0061	<0.0044	<0.0044	<0.0050	<0.0041	<0.0045	<0.0040	<0.0042	<0.0034	<0.0036	<0.0039
Chloroethane	mg/kg	<0.0064	<0.0144	<0.0097	<0.0070	--	<0.0087	<0.0078	<0.0074	<0.0098	<0.0081	<0.0141	<0.0117	<0.0141	<0.0122	<0.0088	<0.0089	<0.0101	<0.0082	<0.0090	<0.0081	<0.0083	<0.0068	<0.0072	<0.0078
Chloroform	mg/kg	<0.0032	<0.0072	<0.0049	<0.0035	--	<0.0043	<0.0039	<0.0037	<0.0049	<0.0041	<0.0070	<0.0059	<0.0070	<0.0061	<0.0044	<0.0044	<0.0050	<0.0041	<0.0045	<0.0040	<0.0042	<0.0034	<0.0036	<0.0039
Chloromethane	mg/kg	<0.0064	<0.0144	<0.0097	<0.0070	--	<0.0087	<0.0078	<0.0074	<0.0098	<0.0081	<0.0141	<0.0117	<0.0141	<0.0122	<0.0088	<0.0089	<0.0101	<0.0082	<0.0090	<0.0081	<0.0083	<0.0068	<0.0072	<0.0078
cis-1,2-Dichloroethene	mg/kg	<0.0032	<0.0072	<0.0049	<0.0035	--	<0.0043	<0.0039	<0.0037	<0.0049	<0.0041	<0.0070	<0.0059	<0.0070	<0.0061	<0.0044	<0.0044	<0.0050	<0.0041	<0.0045	<0.0040	<0.0042	<0.0034	<0.0036	<0.0039
cis-1,3-Dichloropropene	mg/kg	<0.0032	<0.0072	<0.0049	<0.0035	--	<0.0043	<0.0039	<0.0037	<0.0049	<0.0041	<0.0070	<0.0059	<0.0070	<0.0061	<0.0044	<0.0044	<0.0050	<0.0041	<0.0045	<0.0040	<0.0042	<0.0034	<0.0036	<0.0039
Dibromochloromethane	mg/kg	<0.0013	<0.0029	<0.0019	<0.0014	--	<0.0017	<0.0016	<0.0015	<0.0020	<0.0016	<0.0028	<0.0023	<0.0028	<0.0024	<0.0018	<0.0018	<0.0020	<0.0016	<0.0018	<0.0016	<0.0017	<0.0014	<0.0014	<0.0016
Dibromomethane	mg/kg	<0.0032	<0.0072	<0.0049	<0.0035	--	<0.0043	<0.0039	<0.0037	<0.0049	<0.0041	<0.0070	<0.0059	<0.0070	<0.0061	<0.0044	<0.0044	<0.0050	<0.0041	<0.0045	<0.0040	<0.0042	<0.0034	<0.0036	<0.0039
Dichlorodifluoromethane	mg/kg	<0.0064	<0.0144	<0.0097	<0.0070	--	<0.0087	<0.0078	<0.0074	<0.0098	<0.0081	<0.0141	<0.0117	<0.0141	<0.0122	<0.0088	<0.0089	<0.0101	<0.0082	<0.0090	<0.0081	<0.0083	<0.0068	<0.0072	<0.0078
Diethyl Ether	mg/kg	<0.0032	<0.0072	<0.0049	<0.0035	--	<0.0043	<0.0039	<0.0037	<0.0049	<0.0041	<0.0070	<0.0059	<0.0070	<0.0061	<0.0044	<0.0044	<0.0050	<0.0041	<0.0045	<0.0040	<0.0042	<0.0034	<0.0036	<0.0039
Di-isopropyl ether	mg/kg	<0.0032	<0.0072	<0.0049	<0.0035	--	<0.0043	<0.0039	<0.0037	<0.0049	<0.0041	<0.0070	<0.0059	<0.0070	<0.0061	<0.0044	<0.0044	<0.0050	<0.0041	<0.0045	<0.0040	<0.0042	<0.0034	<0.0036	<0.0039
Ethyl tertiary-butyl ether	mg/kg	<0.0032	<0.0072	<0.0049	<0.0035	--	<0.0043	<0.0039	<0.0037	<0.0049	<0.0041	<0.0070	<0.0059	<0.0070	<0.0061	<0.0044	<0.0044	<0.0050	<0.0041	<0.0045	<0.0040	<0.0042	<0.0034	<0.0036	<0.0039
Ethylbenzene	mg/kg	<0.0032	<0.0072	<0.0049	<0.0035	--	<0.0043	<0.0039	<0.0037	<0.0049	<0.0041	<0.0070	<0.0059	<0.0070	<0.0061	<0.0044	<0.0044	<0.0050	<0.0041	<0.0045	<0.0040	<0.0042	<0.0034	<0.0036	<0.0039
Hexachlorobutadiene	mg/kg	<0.0032	<0.0072	<0.0049	<0.0035	--	<0.0043	<0.0039	<0.0037	<0.0049	<0.0041	<0.0070	<0.0059	<0.0070	<0.0061	<0.0044	<0.0044	<0.0050	<0.0041	<0.0045	<0.0040	<0.0042	<0.0034	<0.0036	<0.0039
Isopropylbenzene	mg/kg	<0.0032	<0.0072	<0.0049	<0.0035	--	<0.0043	<0.0039	<0.0037	<0.0049	<0.0041	<0.0070	<0.0059	<0.0070	<0.0061	<0.0044	<0.0044	<0.0050	<0.0041	<0.0045	<0.0040	<0.0042	<0.0034	<0.0036	<0.0039
Methyl tert-Butyl Ether	mg/kg	<0.0032	<0.0072	<0.0049	<0.0035	--	<0.0043	<0.0039	<0.0037	<0.0049	<0.0041	<0.0070	<0.0059	<0.0070	<0.0061	<0.0044	<0.0044	<0.0050	<0.0041	<0.0045	<0.0040	<0.0042	<0.0034	<0.0036	<0.0039
Methylene Chloride	mg/kg	<0.0064	<0.0144	<0.0097	<0.0070	--	<0.0087	<0.0078	<0.0074	<0.0098	<0.0081	<0.0141	<0.0117	<0.0141	<0.0122	<0.0088	<0.0089	<0.0101	<0.0082	<0.0090	<0.0081	<0.0083	<0.0068	<0.0072	<0.0078
Naphthalene	mg/kg	<0.0032	<0.0072	<0.0049	<0.0035	--	<0.0043	<0.0039	<0.0037	<0.0049	<0.0041	<0.0070	<0.0059	<0.0070	<0.0061	<0.0044	<0.0044	<0.0050	<0.0041	<0.0045	<0.0040	<0.0042	<0.0034	<0.0036	<0.0039
n-Butylbenzene	mg/kg	<0.0032	<0.0072	<0.0049	<0.0035	--	<0.0043	<0.0039	<0.0037	<0.0049	<0.0041	<0.0070	<0.0059	<0.0070	<0.0061	<0.0044	<0.0044	<0.0050	<0.0041	<0.0045	<0.0040	<0.0042	<0.0034	<0.0036	<0.0039
n-Propylbenzene	mg/kg	<0.0032	<0.0072	<0.0049	<0.0035	--	<0.0043	<0.0039	<0.0037	<0.0049	<0.0041	<0.0070	<0.0059	<0.0070	<0.0061	<0.0044	<0.0044	<0.0050	<0.0041	<0.0045	<0.0040	<0.0042	<0.0034	<0.0036	<0.0039
sec-Butylbenzene	mg/kg	<0.0032	<0.0072	<0.0049	<0.0035	--	<0.0043	<0.0039	<0.0037	<0.0049	<0.0041	<0.0070	<0.0059	<0.0070	<0.0061	<0.0044	<0.0044	<0.0050	<0.0041	<0.0045	<0.0040	<0.0042	<0.0034	<0.0036	<0.0039

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	D09 D09S13S14 1503135 Natural Sand/Gravel 34 - 38 3/9/2015	D10 D10S01S02A 1501229 Fill 0 - 3.33 1/13/2015	D10 D10S02BS04A 1501229 Fill 3.33 - 6.66 1/13/2015	D10 D10S04BS05 1501229 Fill 6.66 - 10 1/13/2015	D10 D10S06A 1501229 Natural Sand/Gravel 10 - 11.778 1/13/2015	D10 D10S06BS07 1501229 Natural Sand/Gravel 11.778 - 14 1/13/2015	D10 D10S08 1501229 Natural Sand/Gravel 19 - 21 1/13/2015	D10 D10S09 1501229 Natural Sand/Gravel 24 - 26 1/13/2015	D10 D10S10 1501229 Natural Sand/Gravel 29 - 31 1/13/2015	D10 D10S11S12 1501229 Natural Sand/Gravel 34 - 38 1/13/2015	D11 D11S01S02A 1502258 Fill 0 - 3.3 2/18/2015	D11 D11S02BS04A 1502258 Fill 3.3 - 6.6 2/18/2015	D11 D11S04B 1502258 Fill 6.6 - 8 2/18/2015	D11 D11S05S06 1502258 Natural Clay 8 - 12 2/18/2015	D11 D11S07 1502258 Natural Sand/Gravel 14 - 16 2/18/2015	D11 D11S08 1502258 Natural Sand/Gravel 19 -21 2/18/2015	D11 D11S09 1502258 Natural Sand/Gravel 24 -26 2/18/2015	D11 D11S10 1502258 Natural Sand/Gravel 29 - 31 2/18/2015	D11 D11S11S12 1502258 Natural Sand/Gravel 34 - 38 2/18/2015	D12 D12S01S02A 1501270 Fill 0 - 3.3 1/14/2015	D12 D12S02BS04A 1501270 Fill 3.3 - 6.6 1/14/2015	D12 D12S04BS05A 1501301 Fill 6.6 - 8.3 1/15/2015	D12 D12S05B 1501301 Natural Clay 8.3 -10 1/15/2015	D12 D12S06 1501301 Natural Sand/Gravel 14 - 16 1/15/2015
Preliminary Disposal Facility Category		Uncontaminated	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type B-1	Uncontaminated	Uncontaminated	Uncontaminated	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type B	MCP Regulated Type B-1	Uncontaminated	Uncontaminated	Uncontaminated	MCP Regulated Type A	Uncontaminated	Uncontaminated	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type B	Hazardous Material Type A	Uncontaminated
Styrene	mg/kg	<0.0032	<0.0072	<0.0049	<0.0035	--	<0.0043	<0.0039	<0.0037	<0.0049	<0.0041	<0.0070	<0.0059	<0.0070	<0.0061	<0.0044	<0.0044	<0.0050	<0.0041	<0.0045	<0.0040	<0.0042	<0.0034	<0.0036	<0.0039
tert-Butylbenzene	mg/kg	<0.0032	<0.0072	<0.0049	<0.0035	--	<0.0043	<0.0039	<0.0037	<0.0049	<0.0041	<0.0070	<0.0059	<0.0070	<0.0061	<0.0044	<0.0044	<0.0050	<0.0041	<0.0045	<0.0040	<0.0042	<0.0034	<0.0036	<0.0039
Tertiary-amyl methyl ether	mg/kg	<0.0032	<0.0072	<0.0049	<0.0035	--	<0.0043	<0.0039	<0.0037	<0.0049	<0.0041	<0.0070	<0.0059	<0.0070	<0.0061	<0.0044	<0.0044	<0.0050	<0.0041	<0.0045	<0.0040	<0.0042	<0.0034	<0.0036	<0.0039
Tetrachloroethene	mg/kg	<0.0032	<0.0072	<0.0049	<0.0035	--	<0.0043	<0.0039	<0.0037	<0.0049	<0.0041	<0.0070	<0.0059	<0.0070	<0.0061	<0.0044	<0.0044	<0.0050	<0.0041	<0.0045	<0.0040	<0.0042	<0.0034	<0.0036	<0.0039
Tetrahydrofuran	mg/kg	<0.0032	<0.0072	<0.0049	<0.0035	--	<0.0043	<0.0039	<0.0037	<0.0049	<0.0041	<0.0070	<0.0059	<0.0070	<0.0061	<0.0044	<0.0044	<0.0050	<0.0041	<0.0045	<0.0040	<0.0042	<0.0034	<0.0036	<0.0039
Toluene	mg/kg	<0.0032	<0.0072	<0.0049	<0.0035	--	<0.0043	<0.0039	<0.0037	<0.0049	<0.0041	<0.0070	<0.0059	<0.0070	<0.0061	<0.0044	<0.0044	<0.0050	<0.0041	<0.0045	<0.0040	<0.0042	<0.0034	<0.0036	<0.0039
trans-1,2-Dichloroethene	mg/kg	<0.0032	<0.0072	<0.0049	<0.0035	--	<0.0043	<0.0039	<0.0037	<0.0049	<0.0041	<0.0070	<0.0059	<0.0070	<0.0061	<0.0044	<0.0044	<0.0050	<0.0041	<0.0045	<0.0040	<0.0042	<0.0034	<0.0036	<0.0039
trans-1,3-Dichloropropene	mg/kg	<0.0032	<0.0072	<0.0049	<0.0035	--	<0.0043	<0.0039	<0.0037	<0.0049	<0.0041	<0.0070	<0.0059	<0.0070	<0.0061	<0.0044	<0.0044	<0.0050	<0.0041	<0.0045	<0.0040	<0.0042	<0.0034	<0.0036	<0.0039
Trichloroethene	mg/kg	<0.0032	<0.0072	<0.0049	<0.0035	--	<0.0043	<0.0039	<0.0037	<0.0049	<0.0041	<0.0070	<0.0059	<0.0070	<0.0061	<0.0044	<0.0044	<0.0050	<0.0041	<0.0045	<0.0040	<0.0042	<0.0034	<0.0036	<0.0039
Trichlorofluoromethane	mg/kg	<0.0032	<0.0072	<0.0049	<0.0035	--	<0.0043	<0.0039	<0.0037	<0.0049	<0.0041	<0.0070	<0.0059	<0.0070	<0.0061	<0.0044	<0.0044	<0.0050	<0.0041	<0.0045	<0.0040	<0.0042	<0.0034	<0.0036	<0.0039
Vinyl Chloride	mg/kg	<0.0064	<0.0144	<0.0097	<0.0070	--	<0.0087	<0.0078	<0.0074	<0.0098	<0.0081	<0.0141	<0.0117	<0.0141	<0.0122	<0.0088	<0.0089	<0.0101	<0.0082	<0.0090	<0.0081	<0.0083	<0.0068	<0.0072	<0.0078
Xylene O	mg/kg	<0.0032	<0.0072	<0.0049	<0.0035	--	<0.0043	<0.0039	<0.0037	<0.0049	<0.0041	<0.0070	<0.0059	<0.0070	<0.0061	<0.0044	<0.0044	<0.0050	<0.0041	<0.0045	<0.0040	<0.0042	<0.0034	<0.0036	<0.0039
Xylene P,M	mg/kg	<0.0064	<0.0144	<0.0097	<0.0070	--	<0.0087	<0.0078	<0.0074	<0.0098	<0.0081	<0.0141	<0.0117	<0.0141	<0.0122	<0.0088	<0.0089	<0.0101	<0.0082	<0.0090	<0.0081	<0.0083	<0.0068	<0.0072	<0.0078
Xylenes (Total)	mg/kg	<0.0064	<0.0144	<0.0097	<0.0070	--	<0.0087	<0.0078	<0.0074	<0.0098	<0.0081	<0.0141	<0.0117	<0.0141	<0.0122	<0.0088	<0.0089	<0.0101	<0.0082	<0.0090	<0.0081	<0.0083	<0.0068	<0.0072	<0.0078
Total VOCs (Low Level)	mg/kg	ND	ND	ND	ND	--	ND	ND	ND	0.0236	0.0082	0.0466	0.0301	0.0208	ND	ND	ND	ND	ND	ND	ND	ND	0.0096	0.0109	ND
Semi-Volatile Organic Compounds																									
1,2,4-Trichlorobenzene	mg/kg	<0.906	<0.863	<0.952	<0.962	<0.943	<0.977	<0.918	<0.888	<0.934	<0.946	<0.892	<4.71	<1.02	<0.989	<0.928	<1.00	<0.885	<0.879	<0.928	<0.860	<0.889	<0.898	<0.980	<0.979
1,2-Dichlorobenzene	mg/kg	<0.906	<0.863	<0.952	<0.962	<0.943	<0.977	<0.918	<0.888	<0.934	<0.946	<0.892	<4.71	<1.02	<0.989	<0.928	<1.00	<0.885	<0.879	<0.928	<0.860	<0.889	<0.898	<0.980	<0.979
1,3-Dichlorobenzene	mg/kg	<0.906	<0.863	<0.952	<0.962	<0.943	<0.977	<0.918	<0.888	<0.934	<0.946	<0.892	<4.71	<1.02	<0.989	<0.928	<1.00	<0.885	<0.879	<0.928	<0.860	<0.889	<0.898	<0.980	<0.979
1,4-Dichlorobenzene	mg/kg	<0.454	<0.433	<0.478	<0.483	<0.473	<0.490	<0.460	<0.445	<0.469	<0.474	<0.447	<2.36	<0.513	<0.496	<0.466	<0.502	<0.444	<0.441	<0.465	<0.431	<0.446	<0.450	<0.491	<0.491
2,4,5-Trichlorophenol	mg/kg	<0.906	<0.863	<0.952	<0.962	<0.943	<0.977	<0.918	<0.888	<0.934	<0.946	<0.892	<4.71	<1.02	<0.989	<0.928	<1.00	<0.885	<0.879	<0.928	<0.860	<0.889	<0.898	<0.980	<0.979
2,4,6-Trichlorophenol	mg/kg	<0.906	<0.863	<0.952	<0.962	<0.943	<0.977	<0.918	<0.888	<0.934	<0.946	<0.892	<4.71	<1.02	<0.989	<0.928	<1.00	<0.885	<0.879	<0.928	<0.860	<0.889	<0.898	<0.980	<0.979
2,4-Dichlorophenol	mg/kg	<0.906	<0.863	<0.952	<0.962	<0.943	<0.977	<0.918	<0.888	<0.934	<0.946	<0.892	<4.71	<1.02	<0.989	<0.928	<1.00	<0.885	<0.879	<0.928	<0.860	<0.889	<0.898	<0.980	<0.979
2,4-Dimethylphenol	mg/kg	<0.906	<0.863	<0.952	<0.962	<0.943	<0.977	<0.918	<0.888	<0.934	<0.946	<0.892	<4.71	<1.02	<0.989	<0.928	<1.00	<0.885	<0.879	<0.928	<0.860	<0.889	<0.898	<0.980	<0.979
2,4-Dinitrophenol	mg/kg	<4.54	<4.33	<4.78	<4.83	<4.73	<4.90	<4.60	<4.45	<4.69	<4.74	<4.47	<23.6	<5.13	<4.96	<4.66	<5.02	<4.44	<4.41	<4.65	<4.31	<4.46	<4.50	<4.91	<4.91
2,4-Dinitrotoluene	mg/kg	<0.906	<0.863	<0.952	<0.962	<0.943	<0.977	<0.918	<0.888	<0.934	<0.946	<0.892	<1.18	<1.02	<0.989	<0.928	<1.00	<0.885	<0.879	<0.928	<0.860	<0.889	<0.898	<0.980	<0.979
2,6-Dinitrotoluene	mg/kg	<0.906	<0.863	<0.952	<0.962	<0.943	<0.977	<0.918	<0.888	<0.934	<0.946	<0.892	<4.71	<1.02	<0.989	<0.928	<1.00	<0.885	<0.879	<0.928	<0.860	<0.889	<0.898	<0.980	<0.979
2-Chloronaphthalene	mg/kg	<0.906	<0.863	<0.952	<0.962	<0.943	<0.977	<0.918	<0.888	<0.934	<0.946	<0.892	<4.71	<1.02	<0.989	<0.928	<1.00	<0.885	<0.879	<0.928	<0.860	<0.889	<0.898	<0.980	<0.979
2-Chlorophenol	mg/kg	<0.906	<0.863	<0.952	<0.962	<0.943	<0.977	<0.918	<0.888	<0.934	<0.946	<0.892	<4.71	<1.02	<0.989	<0.928	<1.00	<0.885	<0.879	<0.928	<0.860	<0.889	<0.898	<0.980	<0.979
2-Methylnaphthalene	mg/kg	<0.906	<0.863	<0.952	<0.962	<0.943	<0.977	<0.918	<0.888	<0.934	<0.946	<0.892	<4.71	<1.02	<0.989	<0.928	<1.00	<0.885	<0.879	<0.928	<0.860	<0.889	<0.898	<0.980	<0.979
2-Methylphenol	mg/kg	<0.906	<0.863	<0.952	<0.962	<0.943	<0.977	<0.918	<0.888	<0.934	<0.946	<0.892	<4.71	<1.02	<0.989	<0.928	<1.00	<0.885	<0.879	<0.928	<0.860	<0.889	<0.898	<0.980	<0.979
2-Nitrophenol	mg/kg	<0.906	<0.863	<0.952	<0.962	<0.943	<0.977	<0.918	<0.888	<0.934	<0.946	<0.892	<4.71	<1.02	<0.989	<0.928	<1.00	<0.885	<0.879	<0.928	<0.860	<0.889	<0.898	<0.980	<0.979
3,3'-Dichlorobenzidine	mg/kg	<1.81	<1.73	<1.91	<1.93	<1.89	<1.96	<1.84	<1.78	<1.87	<1.89	<1.79	<9.43	<2.05	<1.98	<1.86	<2.00	<1.77	<1.76	<1.86	<1.72	<1.78	<1.80	<1.96	<1.96
3+4-Methylphenol	mg/kg	<1.81	<1.73	<1.91	<1.93	<1.89	<1.96	<1.84	<1.78	<1.87	<1.89	<1.79	<9.43	<2.05	<1.98	<1.86	<2.00	<1.77	<1.76	<1.86	<1.72	<1.78	<1.80	<1.96	<1.96
4-Bromophenyl-phenylether	mg/kg	<0.906	<0.863	<0.952	<0.962	<0.943	<0.977	<0.918	<0.888	<0.934	<0.946	<0.892	<4.71	<1.02	<0.989	<0.928	<1.00	<0.885	<0.879	<0.928	<0.860	<0.889	<0.898	<0.980	<0.979
4-Chloroaniline	mg/kg	<1.81	<1.73	<1.91	<1.93	<1.89	<1.96	<1.84	<1.78	<1.87	<1.89	<1.79	<2.36	<2.05	<1.98	<1.86	<2.00	<1.77	<1.76	<1.86	<1.72	<1.78	<1.80	<1.96	<1.96
4-Nitrophenol	mg/kg	<4.54	<4.33	<4.78	<4.83	<4.73	<4.90	<4.60	<4.45	<4.69	<4.74	<4.47	<23.6	<5.13	<4.96	<4.66	<5.02	<4.44	<4.41	<4.65	<4.31	<4.46	<4.50	<4.91	<4.91
Acenaphthene	mg/kg	<0.906	<0.863	<0.952	<0.962	<0.943	<0.977	<0.918	<0.888	<0.934	<0.946	<0.892	<4.71	<1.02	<0.989	<0.928	<1.00	<0.885	<0.879	<0.928	<0.860	<0.889	<0.898	<0.980	<0.979
Acenaphthylene	mg/kg	<0.906	<0.863	<0.952	<0.962	<0.943	<0.977	<0.918	<0.888	<0.934	<0.946	<0.892	<4.71	<1.02	<0.989	<0.928	<1.00	<0.885	<0.879	<0.928	<0.860	<0.889	<0.898	<0.980	<0.979
Acetophenone	mg/kg	<1.81	<1.73	<1.91	<1.93	<1.89	<1.96	<1.84	<1.78	<1.87	<1.89	<1.79	<9.43	<2.05	<1.98	<1.86	<2.00	<1.77	<1.76	<1.86	<1.72	<1.78	<1.80	<1.96	<1.96
Aniline	mg/kg	<4.54	<4.33	<4.78	<4.83	<4.73	<4.90	<4.60	<4.45	<4.69	<4.74	<4.47	<23.6	<5.13	<4.96	<4.66	<5.02	<4.44	<4.41	<4.65	<4.31	<4.46	<4.50	<4.91	<4.91
Anthracene	mg/kg	<0.906	1.42	<0.952	<0.962	<0.943	<0.977	<0.918	<0.888	<0.934	<0.946	<0.892	<4.71	<1.02	<0.989	<0.928	<1.00	<0.885	<0.879	<0.928	<0.860	<0.889	<0.898	<0.980	<0.979
Azobenzene	mg/kg	<0.906	<0.863	<0.952	<0.962	<0.943	<0.977	<0.918	<0.888	<0.934	<0.946	<0.892	<4.71	<1.02	<0.989	<0.928	<1.00	<0.885	<0.879	<0.928	<0.860	<0.889	<0.898	<0.980	<0.979
Benzo(a)anthracene	mg/kg	<0.906	3.64	2.24	<0.962	<0.943	<0.977	<0.918	<0.888	<0.934	<0.946	<0.892	<4.71	<1.02	<0.989	<0.928	<1.00	<0.885	<0.879	<0.928	<0.860	4.82	<0.898	<0.980	<0.979
Benzo(a)pyrene	mg/kg	<0.454	3.07	1.97	<0.483	<0.473	<0.490	<0.460	<0.445	<0.469	<0.474	<0.447	<2.36	<0.513	<0.496	<0.466	<0.502	<0.444	<0.441	<0.465	<0.431	4.48	<0.450	<0.491	<0.491
Benzo(b)fluoranthene	mg/kg	<0.906	4.33	2.41	<0.962	<0.943	<0.977	<0.918	<0.888	<0.934	<0.946	<0.892	<4.71	<1.02	<0.989	<0.928	<1.00	<0.885	<0.879	<0.928	<0.860	5.8	<0.898	<0.980	<0.979
Benzo(g,h,i)perylene	mg/kg	<0.906	1.53	<0.952	<0.962	<0.943	<0.977	<0.918	<0.888	<0.934	<0.946	<0.892	<4.71	<1.02	<0.989	<0.928	<1.00	<0.885	<0.879	<0.928	<0.860	1.51	<0.898	<0.980	<0.979
Benzo(k)fluoranthene	mg/kg	<0.906	1.03	1.11	<0.962	<0.943	<0.977	<0.918	<0.888	<0.934	<0.946	<0.892	<4.71	<1.02	<0.989	<0.928	<1.00	<0.885	<0.879	<0.928	<0.860	2.07	<0.898	<0.980	<0.979
bis(2-Chloroethoxy)methane	mg/kg	<0.906	<0.863	<0.952	<0.962	<0.943	<0.977	<0.918	<0.888	<0.934	<0.946	<0.892	<4.71	<1.02	<0.989	<0.928	<1.00	<0.885	<0.879	<0.928	<0.860	<0.889	<0.898	<0.980	<0.979
bis(2-Chloroethyl)ether	mg/kg	<0.454	<0.433	<0.478	<0.483	<0.473	<0.490	<0.460	<0.445	<0.469	<0.474	<0.447	<0.467	<0.513	<0.496	<0.466	<0.502	<0.444	<0.441	<0.465	<0.431	<0.446	<0.450	<0.491	<0.491
bis(2-chloroisopropyl)Ether	mg/kg	<0.454	<0.433	<0.478	<0.483	<0.473	<0.490	<0.460	<0.445	<0.469	<0.474	<0.447	<0.467	<0.513	<0.496	<0.466	<0.502	<0.444	<0.441	<0.465	<0.431	<0.446	<0.450	<0.491	<0.491
bis(2-Ethylhexyl)phthalate	mg/kg	<0.906	<0.863	<0.952	<0.962	<0.943	<0.977	<0.918	<0.888	<0.934	<0.946	<0.892	<4.71	<1.02	<0.989	<0.928	<1.00	<0.885	<0.879	<0.928	<0.860	1.05	<0.898	<0.980	<0.979
Butylbenzylphthalate	mg/kg	<0.906	<0.863	<0.952	<0.962	<0.943	<0.977	<0.918	<0.888	<0.934	<0.946	<0.892	<4.71	<1.02	<0.989	<0.928	<1.00	<0.885	<0.879	<0.928	<0.860	<0.889	<0.898	<0.980	<0.979
Chrysene	mg/kg	<0.454	3.59	2.1	<0.483	<0.473	<0.490	<0.460	<0.445	<0.469	<0.474	<0.447	3.58	<0.513	<0.496	<0.466	<0.502	<0.444	<0.441	<0.465	<0.431	3.62	<0.450	<0.491	<0.491
Dibenzo(a,h)Anthracene	mg/kg	<0.454	0.882	<0.478	<0.483	<0.473	<0.490	<0.460	<0.445	<0.469	<0.474	<0.447	<2.36	<0.513	<0.496	<0.466	<0.502	<0.444	<0.441	<0.465	<0.431	<0.446	<0.450	<0.491	<0.491
Dibenzofuran	mg/kg	<0.906	<0.863	<0.952	<0.962	<0.943	<0.977	<0.918	<0.888	<0.934	<0.946	<0.892	<4.71	<1.02	<0.989	<0.928	<1.00	<0.885	<0.879	<0.928	<0.860	<0.889	<0.898	<0.980	<0.979
Diethylphthalate	mg/kg	<0.906	<0.863	<0.952	<0.962	<0.943	<0.977	<0.918	<0.888	<0.934	<0.946	<0.892	<4.71	<1.02	<0.989	<0.928	<1.00	<0.885	<0.879	<0.928	<0.860	<0.889	<0.898	<0.980	<0.979
Dimethylphthalate	mg/kg	<0.906	<0.863	<0.952	<0.962	<0.943	<0.977	<0.918	<0.888	<0.934	<0.946	<0.892	<4.71	<1.02	<0.989	<0.928	<1.00	<0.885	<0.879	<0.928	<0.860	<0.889	<0.898	<0.980	<0.979
Di-n-butylphthalate	mg/kg	<0.906	<0.863	<0.952	<0.962	<0.943	<0.977	<0.918	<0.888	<0.934	<0.946	<0.892	<4.71	<1.02	<0.989	<0.928	<1.00	<0.885	<0.879	<0.928	<0.860	<0.889	<0.898	<0.980	<0.979
Di-n-octylphthalate	mg/kg	<0.906	<0.863	<0.952	<0.962	<0.943	<0.977	<0.918	<0.888	<0.934	<0.946	<0.892	<4.71	<1.02	<0.989	<0.928	<1.00	<0.885	<0.879	<0.928	<0.860	<0.889	<0.898	<0.980	<0.979
Fluoranthene	mg/kg	<0.906	8.68	3.94	<0.962	<0.943	<0.977	<0.918	<0.888	<0.934	<0.946	<0.892	7.3	<1.02	<0.989	<0.928	<1.00	<0.885	<0.879	<0.928	<0.860	8.19	<0.898	<0.980	<0.979
Fluorene	mg/kg	<0.906	<0.863	<0.952	<0.962	<0.943	<0.977	<0.918	<0.888	<0.934	<0.946	<0.892	<4.71	<1.02	<0.989	<0.928	<1.00	<0.885	<0.879	<0.928	<0.860	<0.889	<0.898	<0.980	<0.979
Hexachlorobenzene	mg/kg	<0.454	<0.433	<0.478	<0.483	<0.473	<0.490	<0.460	<0.445	<0.469	<0.474	<0.447	<1.18	<0.513	<0.496	<0.466	<0.502	<0.444	<0.441	<0.465	<0.431	<0.446	<0.450	<0.491	<0.491
Hexachlorobutadiene	mg/kg	<0.906	<0.863	<0.952	<0.962	<0.943	<0.977	<0.918	<0.888	<0.934	<0.946	<0.892	<4.71	<1.02	<0.989	<0.928	<1.00	<0.885	<0.879	<0.928	<0.860	<0.889	<0.898	<0.980	<0.979
Hexachloroethane	mg/kg	<0.906	<0.863	<0.952	<0.962	<0.943	<0.977	<0.918	<0.888	<0.934	<0.946	<0.892	<2.36	<1.02	<0.989	<0.928	<1.00	<0.885	<0.879	<0.928	<0.860	<0.889	<0.898	<0.980	<0.979
Indeno(1,2,3-cd)Pyrene	mg/kg	<0.906	1.68	<0.952	<0.962	<0.943	<0.977	<0.918	<0.888	<0.934	<0.946	<0.892	<4.71	<1.02	<0.989	<0.928	<1.00	<0.885	<0.879	<0.928	<0.860	1.7	<0.898	<0.980	<0.979
Isophorone	mg/kg	<0.906	<0.863	<0.952	<0.962	<0.943	<0.977	<0.918	<0.888	<0.934	<0.946	<0.892	<4.71	<1.02	<0.989	<0.928	<1.00	<0.885	<0.879	<0.928	<0.860	<0.889	<0.898	<0.980	<0.979
Naphthalene	mg/kg	<0.906	<0.863	<0.952	<0.962	<0.943	<0.977	<0.918	<0.888	<0.934	<0.946	<0.892	6.41	<1.02	<0.989	<0.928	<1.00	<0.885	<0.879	<0.928	<0.860	<0.889	<0.898	<0.980	<0.979
Nitrobenzene	mg/kg	<0.906	<0.863	<0.952	<0.962	<0.943	<0.977	<0.918	<0.888	<0.934	<0.946	<0.892	<4.71	<1.02	<0.989	<0.928	<1.00	<0.885	<0.879	<0.928	<0.860	<0.889	<0.898	<0.980	<0.979
N-Nitrosodimethylamine	mg/kg	<0.906	<0.863	<0.952	<0.962	<0.943	<0.977	<0.918	<0.888	<0.934	<0.946	<0.892	<4.71	<1.02	<0.989	<0.928	<1.00	<0.885	<0.879	<0.928	<0.860	<0.889	<0.898	<0.980	<0.979
Pentachlorophenol	mg/kg	<4.54	<4.33	<4.78	<4.83	<4.73	<4.90	<4.60	<4.45	<4.69	<4.74	<4.47	<4.71	<5.13	<4.96	<4.66	<5.02	<4.44	<4.41	<4.65	<4.31	<4.46	<4.50	<4.91	<4.91
Phenanthrene	mg/kg	<0.906	6.77	3.28	<0.962	<0.943	<0.977	<0.918	<0.888	<0.934	<0.946	<0.892	<4.71	<1.02	<0.989	<0.928	<1.00	<0.885	<0.879	<0.928	<0.860	1.21	<0.898	<0.980	<0.979
Phenol	mg/kg	<0.906	<0.863	<0.952	<0.962	<0.943	<0.977	<0.918	<0.888	<0.934	<0.946	<0.892	<4.71	<1.02	<0.989	<0.928	<1.00	<0.885	<0.879	<0.928	<0.860	<0.889	<0.898	<0.980	<0.979
Pyrene	mg/kg	<0.906	5.42	3.01	<0.962	<0.943	<0.977	<0.918	<0.888	<0.934	<0.946	<0.892	<4.71	<1.02	<0.989	<0.928	<1.00	<0.885	<0.879	<0.928	<0.860	7.12	<0.898	<0.980	<0.979
Total SVOCs	mg/kg	ND	42.042	20.06	ND	ND	ND	ND	ND	ND	ND	ND	17.29	ND	ND	ND	ND	ND	ND	ND	ND	41.57	ND	ND	ND
Classic Chemistry																									
Corrosivity (pH)	S.U.	4.87	6.87	4.23	4.19	5.66	4.84	4.64	4.56	4.39	4.71	8.47	4.24	4.25	3.89	4.03	4.12	4.68	4.58	4.81	9.01	8.73	7.23	4.72	5.11
Conductivity	umhos/cm	12	1020	1470	408	1680	439	293	1160	2440	2250	301	3480	4320	1230	624	845	181	313	589	161	202	1170	1420	420
Flashpoint	°F	--	>200	>200	>200	--	--	--	--	--	--	>200	>200	>200	--	--	--	--	--	--	>200	>200	>200	--	--
Reactive Cyanide	mg/kg	--	<2.0	<2.0	<2.0	--	--	--	--	--	--	<2.0	<2.0	<2.0	--	--	--	--	--	--	<2.0	<2.0	<2.0	--	--
Reactive Sulfide	mg/kg	--	<2.0	<2.0	<2.0	--	--	--	--	--	--	<2.0	<2.0	<2.0	--	--	--	--	--	--	<2.0	<2.0	<2.0	--	--

Analyte	Precharacterization Cell	D12	D12	D12	D12	D13	D13	D13	D13	D13	D13	D13	D13	D13	D13	D14	D14	D14	D14	D14	D14	D14	D14	D14	D15
	Sample ID	D12S07	D12S08	D12S09	D12S10S11	D13S01S02A	D13S02BS03	D13S04S05	D13S06	D13S07	D13S08	D13S09	D13S10	D13S11	D13S12S13	D14S01S02A	D14S02BS04A	D14S04BS05	D14S06S07A	D14S07BS08	D14S09	D14S10	D14S11	D14S12S13	D15S01S02A
	Laboratory Work Order	1501301	1501301	1501301	1501301	1502334	1502334	1502370	1502370	1502370	1502370	1502370	1502370	1502370	1502370	1501301	1501301	1501301	1501301	1501301	1503166	1503166	1503166	1503166	1502394
	Soil Distinction	Natural	Natural	Natural	Natural	Fill	Fill	Fill	Fill	Natural	Natural	Natural	Natural	Natural	Natural	Fill	Fill	Fill	Fill	Natural	Natural	Natural	Natural	Natural	Fill
	Soil Type	Sand/Gravel	Sand/Gravel	Sand/Gravel	Sand/Gravel					Sand/Gravel	Sand/Gravel	Sand/Gravel	Sand/Gravel	Sand/Gravel	Sand/Gravel					Clay	Sand/Gravel	Sand/Gravel	Sand/Gravel	Sand/Gravel	
	Depth Interval (ft.)	19 - 21	24 - 26	29 - 31	34 - 38	0 - 3.3	3.3 - 6.6	6.6 - 10	10 - 12	12 - 14	14 - 16	19 - 21	24 - 26	29 - 31	34 - 37	0 - 3.3	3.3 - 6.6	6.6 - 10	10 - 13	13 - 16	19 - 21	24 - 26	29 - 31	34 - 38	0 - 3.3
	Sampling Date	1/15/2015	1/15/2015	1/15/2015	1/15/2015	2/23/2015	2/23/2015	2/25/2015	2/25/2015	2/25/2015	2/25/2015	2/25/2015	2/25/2015	2/25/2015	2/25/2015	1/15/2015	1/15/2015	1/15/2015	1/15/2015	1/15/2015	3/10/2015	3/10/2015	3/10/2015	3/10/2015	3/10/2015	2/26/2015
Preliminary Disposal Facility Category		Hazardous Material Type A	Uncontaminated	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	Hazardous Material Type B	Hazardous Material Type B	Hazardous Material Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Restricted	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	Hazardous Material Type B	Hazardous Material Type B	Hazardous Material Type B	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A
RCRA 8 Metals	**Units**																								
Arsenic	mg/kg	57.9	<7.85	<7.22	108	<6.10	34.3	71	201	32.1	77.2	203	16.7	136	100	<6.97	47.4	39.6	22	19.1	15.1	<7.99	19.4	21.7	7.02
Barium	mg/kg	16.2	<7.85	8.25	24.4	28	137	154	48.9	7.33	13.6	31.9	43.1	26.6	15.8	19.1	74.9	88.1	236	89.7	8.7	15.1	16.4	17.4	20.1
Cadmium	mg/kg	<1.47	<1.57	<1.44	1.42	<1.22	<1.43	<1.48	<3.38	<1.46	<1.30	<3.43	<1.48	<3.25	<1.37	<1.39	<1.44	<1.53	4.68	<1.65	<1.60	<1.60	<1.43	<1.39	<1.39
Chromium	mg/kg	7.2	4.48	7.01	30.2	28.2	34.7	7.23	9.8	<2.92	4.47	7.57	6.3	5.99	19.4	17.7	19.1	17.4	16.4	18.3	4.9	4.24	13.7	8.46	25.4
Lead	mg/kg	82.5	<15.7	17.6	<14.0	<12.2	1380	5410	977	178	531	1340	190	195	<13.7	<13.9	2900	4110	14900	121	128	228	205	76.7	20.7
Selenium	mg/kg	<14.7	<15.7	<14.4	<7.00	<6.10	<7.13	13.9	17.6	<7.29	8.4	8.86	<7.40	<6.50	<6.84	<6.97	16.2	<7.67	<16.0	<16.5	<7.99	<7.99	<7.99	<7.13	<6.96	<6.93
Silver	mg/kg	<1.47	<1.57	<1.44	<1.40	<1.22	<1.43	9.78	<1.35	<1.46	<1.30	<1.37	<1.48	<1.30	<1.37	<1.39	2.53	13.6	5.73	<1.65	<1.60	<1.60	<1.43	<1.39	<1.39
Mercury	mg/kg	0.109	0.037	<0.037	<0.037	<0.033	11.3	6.73	0.133	<0.030	0.119	0.06	0.069	<0.033	0.031	<0.030	4.05	1.4	4.12	0.728	0.029	<0.038	<0.040	<0.036	<0.035
Metals by Toxicity Characteristic Leaching Procedure (TCLP)																									
Arsenic	mg/L	--	--	--	<0.050	--	--	--	<0.500	--	--	<0.050	--	<0.050	<0.050	--	--	--	--	--	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead	mg/L	--	--	--	--	--	10.3	74.4	0.655	<0.050	<0.050	<0.050	<0.050	<0.050	--	--	210	50.2	276	0.401	<0.500	<0.500	<0.500	--	--
Selenium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--	<0.00050	<0.00050	--	--	--	--	--	--	--	--	<0.00050	--	0.00104	--	--	--	--	--	--
Herbicides																									
2,4,5-T	mg/kg	--	--	--	<0.055	<0.050	<0.51	<0.057	<0.054	--	--	--	--	--	--	<0.051	<0.27	<0.31	<0.35	--	--	--	--	--	<0.052
2,4-D	mg/kg	--	--	--	<0.055	<0.050	<0.51	<0.057	<0.054	--	--	--	--	--	--	<0.051	<0.27	<0.31	<0.35	--	--	--	--	--	<0.052
2,4-DB	mg/kg	--	--	--	<0.055	<0.050	<0.51	<0.057	<0.054	--	--	--	--	--	--	<0.051	<0.27	<0.31	<0.35	--	--	--	--	--	<0.052
Dalapon	mg/kg	--	--	--	<0.66	<0.61	<6.1	<0.68	<0.65	--	--	--	--	--	--	<0.61	<3.2	<3.8	<4.2	--	--	--	--	--	<0.63
Dicamba	mg/kg	--	--	--	<0.055	<0.050	<0.51	<0.057	<0.054	--	--	--	--	--	--	<0.051	<0.27	<0.31	<0.35	--	--	--	--	--	<0.052
Dichlorprop	mg/kg	--	--	--	<0.055	<0.050	<0.51	<0.057	<0.054	--	--	--	--	--	--	<0.051	<0.27	<0.31	<0.35	--	--	--	--	--	<0.052
Dinoseb	mg/kg	--	--	--	<0.33	<0.30	<3.1	<0.34	<0.32	--	--	--	--	--	--	<0.30	<1.6	<1.9	<2.1	--	--	--	--	--	<0.31
MCPA	mg/kg	--	--	--	<13	<12	<120	<14	<13	--	--	--	--	--	--	<12	<65	<75	<84	--	--	--	--	--	<13
MCPP	mg/kg	--	--	--	<13	<12	<120	<14	<13	--	--	--	--	--	--	<12	<65	<75	<84	--	--	--	--	--	<13
Silvex (2,4,5-TP)	mg/kg	--	--	--	<0.055	<0.050	<0.51	<0.057	<0.054	--	--	--	--	--	--	<0.051	<0.27	<0.31	<0.35	--	--	--	--	--	<0.052
Pesticides																									
4,4'-DDD	mg/kg	--	--	--	<0.0019	<0.0035	<0.018	<0.0039	<0.0019	--	--	--	--	--	--	<0.0018	<0.0038	<0.021	<0.048	--	--	--	--	--	<0.0018
4,4'-DDE	mg/kg	--	--	--	<0.0019	<0.0035	<0.018	<0.0039	<0.0019	--	--	--	--	--	--	<0.0018	<0.0038	<0.021	<0.048	--	--	--	--	--	<0.0018
4,4'-DDT	mg/kg	--	--	--	<0.0019	<0.0035	<0.018	<0.0039	<0.0019	--	--	--	--	--	--	<0.0018	<0.0038	<0.021	<0.048	--	--	--	--	--	<0.0018
Aldrin	mg/kg	--	--	--	<0.0019	<0.0035	<0.018	<0.0039	<0.0019	--	--	--	--	--	--	<0.0018	<0.0038	<0.021	<0.048	--	--	--	--	--	<0.0018
alpha-BHC	mg/kg	--	--	--	<0.0019	<0.0035	<0.018	<0.0039	<0.0019	--	--	--	--	--	--	<0.0018	<0.0038	<0.021	<0.048	--	--	--	--	--	<0.0018
beta-BHC	mg/kg	--	--	--	<0.0019	<0.0035	<0.018	<0.0039	<0.0019	--	--	--	--	--	--	<0.0018	<0.0038	<0.021	<0.048	--	--	--	--	--	<0.0018
Chlordane (technical)	mg/kg	--	--	--	<0.019	<0.035	<0.18	<0.039	<0.019	--	--	--	--	--	--	<0.018	<0.038	<0.21	<0.48	--	--	--	--	--	<0.018
delta-BHC	mg/kg	--	--	--	<0.0019	<0.0035	<0.018	<0.0039	<0.0019	--	--	--	--	--	--	<0.0018	<0.0038	<0.021	<0.048	--	--	--	--	--	<0.0018
Dieldrin	mg/kg	--	--	--	<0.0019	<0.0035	<0.018	<0.0039	<0.0019	--	--	--	--	--	--	<0.0018	<0.0038	<0.021	<0.048	--	--	--	--	--	<0.0018
Endosulfan I	mg/kg	--	--	--	<0.0019	<0.0035	<0.018	<0.0039	<0.0019	--	--	--	--	--	--	<0.0018	<0.0038	<0.021	<0.048	--	--	--	--	--	<0.0018
Endosulfan II	mg/kg	--	--	--	<0.0019	<0.0035	<0.018	<0.0039	<0.0019	--	--	--	--	--	--	<0.0018	<0.0038	<0.021	<0.048	--	--	--	--	--	<0.0018
Endosulfan sulfate	mg/kg	--	--	--	<0.0019	<0.0035	<0.018	<0.0039	<0.0019	--	--	--	--	--	--	<0.0018	<0.0038	<0.021	<0.048	--	--	--	--	--	<0.0018
Endrin	mg/kg	--	--	--	<0.0019	<0.0035	<0.018	<0.0039	<0.0019	--	--	--	--	--	--	<0.0018	<0.0038	<0.021	<0.048	--	--	--	--	--	<0.0018
Endrin ketone	mg/kg	--	--	--	<0.0019	<0.0035	<0.018	<0.0039	<0.0019	--	--	--	--	--	--	<0.0018	<0.0038	<0.021	<0.048	--	--	--	--	--	<0.0018
gamma-BHC (Lindane)	mg/kg	--	--	--	<0.0019	<0.0035	<0.018	<0.0039	<0.0019	--	--	--	--	--	--	<0.0018	<0.0038	<0.021	<0.048	--	--	--	--	--	<0.0018
Heptachlor	mg/kg	--	--	--	<0.0019	<0.0035	<0.018	<0.0039	<0.0019	--	--	--	--	--	--	<0.0018	<0.0038	<0.021	<0.048	--	--	--	--	--	<0.0018
Heptachlor epoxide	mg/kg	--	--	--	<0.0019	<0.0035	<0.018	<0.0039	<0.0019	--	--	--	--	--	--	<0.0018	<0.0038	<0.021	<0.048	--	--	--	--	--	<0.0018
Hexachlorobenzene	mg/kg	--	--	--	<0.0019	<0.0035	0.058	<0.0039	<0.0019	--	--	--	--	--	--	<0.0018	<0.0038	<0.021	<0.048	--	--	--	--	--	<0.0018
Methoxychlor	mg/kg	--	--	--	<0.0019	<0.0035	<0.018	<0.0039	<0.0019	--	--	--	--	--	--	<0.0018	<0.0038	<0.021	<0.048	--	--	--	--	--	<0.0018
Polychlorinated Biphenyls																									
Aroclor 1016	mg/kg	<0.135	<0.151	<0.144	<0.135	<0.125	<0.138	<0.151	<0.141	<0.138	<0.141	<0.144	<0.137	<0.134	<0.133	<0.128	<0.128	<0.143	<0.141	<0.155	<0.149	<0.154	<0.151	<0.129	<0.128
Aroclor 1221	mg/kg	<0.135	<0.151	<0.144	<0.135	<0.125	<0.138	<0.151	<0.141	<0.138	<0.141	<0.144	<0.137	<0.134	<0.133	<0.128	<0.128	<0.143	<0.141	<0.155	<0.149	<0.154	<0.151	<0.129	<0.128
Aroclor 1232	mg/kg	<0.135	<0.151	<0.144	<0.135	<0.125	<0.138	<0.151	<0.141	<0.138	<0.141	<0.144	<0.137	<0.134	<0.133	<0.128	<0.128	<0.143	<0.141	<0.155	<0.149	<0.154	<0.151	<0.129	<0.128
Aroclor 1242	mg/kg	<0.135	<0.151	<0.144	<0.135	<0.125	<0.138	<0.151	<0.141	<0.138	<0.141	<0.144	<0.137	<0.134	<0.133	<0.128	<0.128	<0.143	<0.141	<0.155	<0.149	<0.154	<0.151	<0.129	<0.128
Aroclor 1248	mg/kg	<0.135	<0.151	<0.144	<0.135	<0.125	<0.138	1.69	<0.141	<0.138	<0.141	<0.144	<0.137	<0.134	<0.133	<0.128	2.22	2.76	5.55	<0.155	<0.149	<0.154	<0.151	<0.129	<0.128
Aroclor 1254	mg/kg	<0.135	<0.151	<0.144	<0.135	<0.125	2.1	<0.151	<0.141	<0.138	<0.141	<0.144	<0.137	<0.134	<0.133	<0.128	<0.128	<0.143	<0.141	<0.155	<0.149	<0.154	<0.151	<0.129	<0.128
Aroclor 1260	mg/kg	<0.135	<0.151	0.154	<0.135	<0.125	<0.138	<0.151	<0.141	<0.138	<0.141	<0.144	<0.137	<0.134	<0.133	<0.128	<0.128	<0.143	<0.141	<0.155	<0.149	<0.154	<0.151	<0.129	<0.128
Aroclor 1262	mg/kg	<0.135	<0.151	<0.144	<0.135	<0.125	1.37	1.19	<0.141	<0.138	<0.141	<0.144	<0.137	<0.134	<0.133	<0.128	3.12	3.95	5.41	<0.155	<0.149	<0.154	<0.151	<0.129	<0.128
Aroclor 1268	mg/kg	<0.135	<0.151	<0.144	<0.135	<0.125	<0.138	<0.151	<0.141	<0.138	<0.141	<0.144	<0.137	<0.134	<0.133	<0.128	<0.128	<0.143	<0.141	<0.155	<0.149	<0.154	<0.151	<0.129	<0.128
Total PCBs	mg/kg	ND	ND	0.154	ND	ND	3.47	2.88	ND	ND	ND	ND	ND	ND	ND	ND	5.34	6.71	10.96	ND	ND	ND	ND	ND	ND
Total Petroleum Hydrocarbons	mg/kg	<40.9	<46.5	<45.8	<44.3	<42.3	471	372	<46.4	<42.7	<44.4	<44.4	<42.1	<38.3	<39.3	<42.3	220	609	1280	<50.9	<45.7	<45.0	<45.3	<43.0	<40.7
Volatile Organic Compounds (VOCs)																									
1,1,1,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	<0.107	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	mg/kg	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	mg/kg	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	mg/kg	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	mg/kg	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloropropene	mg/kg	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	mg/kg	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	mg/kg	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	mg/kg	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	mg/kg	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-Chloropropane	mg/kg	--	--	--	--	--	--	<0.215	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	mg/kg	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	mg/kg	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	mg/kg	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	mg/kg	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	mg/kg	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	mg/kg	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichloropropane	mg/kg	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane - Screen	mg/kg	--	--	--	--	--	--	<5.37	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,2-Dichloropropane	mg/kg	--	--	--	--	--	--	<0.107	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Butanone	mg/kg	--	--	--	--	--	--	<0.215	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chlorotoluene	mg/kg	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	mg/kg	--	--	--	--	--	--	<0.215	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Chlorotoluene	mg/kg	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Isopropyltoluene	mg/kg	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-Pentanone	mg/kg	--	--	--	--	--	--	<0.215	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	mg/kg	--	--	--	--	--	--	<0.215	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzene	mg/kg	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromobenzene	mg/kg	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	mg/kg	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	mg/kg	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	mg/kg	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	mg/kg	--	--	--	--	--	--	<0.107	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Disulfide	mg/kg	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	mg/kg	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Analyte	Precharacterization Cell	D12	D12	D12	D12	D13	D13	D13	D13	D13	D13	D13	D13	D13	D13	D14	D14	D14	D14	D14	D14	D14	D14	D15
	Sample ID	D12S07	D12S08	D12S09	D12S10S11	D13S01S02A	D13S02BS03	D13S04S05	D13S06	D13S07	D13S08	D13S09	D13S10	D13S11	D13S12S13	D14S01S02A	D14S02BS04A	D14S04BS05	D14S06S07A	D14S07BS08	D14S09	D14S10	D14S11	D14S12S13	D15S01S02A
	Laboratory Work Order	1501301	1501301	1501301	1501301	1502334	1502334	1502370	1502370	1502370	1502370	1502370	1502370	1502370	1502370	1501301	1501301	1501301	1501301	1501301	1503166	1503166	1503166	1503166	1502394
	Soil Distinction	Natural	Natural	Natural	Natural	Fill	Fill	Fill	Fill	Natural	Natural	Natural	Natural	Natural	Natural	Fill	Fill	Fill	Fill	Natural	Natural	Natural	Natural	Natural	Fill
	Soil Type	Sand/Gravel	Sand/Gravel	Sand/Gravel	Sand/Gravel					Sand/Gravel	Sand/Gravel	Sand/Gravel	Sand/Gravel	Sand/Gravel	Sand/Gravel					Clay	Sand/Gravel	Sand/Gravel	Sand/Gravel	Sand/Gravel	
	Depth Interval (ft.)	19 - 21	24 - 26	29 - 31	34 - 38	0 - 3.3	3.3 - 6.6	6.6 - 10	10 - 12	12 - 14	14 - 16	19 - 21	24 - 26	29 - 31	34 - 37	0 - 3.3	3.3 - 6.6	6.6 - 10	10 - 13	13 - 16	19 - 21	24 - 26	29 - 31	34 - 38	0 - 3.3
	Sampling Date	1/15/2015	1/15/2015	1/15/2015	1/15/2015	2/23/2015	2/23/2015	2/25/2015	2/25/2015	2/25/2015	2/25/2015	2/25/2015	2/25/2015	2/25/2015	2/25/2015	1/15/2015	1/15/2015	1/15/2015	1/15/2015	1/15/2015	3/10/2015	3/10/2015	3/10/2015	3/10/2015	2/26/2015
Preliminary Disposal Facility Category		Hazardous Material Type A	Uncontaminated	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	Hazardous Material Type B	Hazardous Material Type B	Hazardous Material Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Restricted	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	Hazardous Material Type B	Hazardous Material Type B	Hazardous Material Type B	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A
Chlorobenzene	mg/kg	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	mg/kg	--	--	--	--	--	--	<0.107	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	mg/kg	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	mg/kg	--	--	--	--	--	--	<0.107	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	mg/kg	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromomethane	mg/kg	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	mg/kg	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Diethyl Ether	mg/kg	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Di-isopropyl ether	mg/kg	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethyl tertiary-butyl ether	mg/kg	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	mg/kg	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	mg/kg	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene	mg/kg	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	mg/kg	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride	mg/kg	--	--	--	--	--	--	<0.215	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	mg/kg	--	--	--	--	--	--	0.115	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	mg/kg	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	mg/kg	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	mg/kg	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	mg/kg	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
tert-Butylbenzene	mg/kg	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tertiary-amyl methyl ether	mg/kg	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	mg/kg	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	mg/kg	--	--	--	--	--	--	<0.215	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	mg/kg	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene	mg/kg	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane	mg/kg	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	mg/kg	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene O	mg/kg	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene P,M	mg/kg	--	--	--	--	--	--	<0.107	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylenes (Total)	mg/kg	--	--	--	--	--	--	<0.107	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total VOCs	mg/kg	--	--	--	--	--	--	0.115	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds - Low Level Analysis																									
1,1,1,2-Tetrachloroethane	mg/kg	<0.0034	<0.0042	<0.0039	<0.0033	<0.0040	<0.0059	--	<0.0048	<0.0057	<0.0053	<0.0051	<0.0055	<0.0042	<0.0051	<0.0043	<0.0037	<0.0041	<0.0034	<0.0052	<0.0029	<0.0033	<0.0049	<0.0031	<0.0045
1,1,1-Trichloroethane	mg/kg	<0.0034	<0.0042	<0.0039	<0.0033	<0.0040	<0.0059	--	<0.0048	<0.0057	<0.0053	<0.0051	<0.0055	<0.0042	<0.0051	<0.0043	<0.0037	<0.0041	<0.0034	<0.0052	<0.0029	<0.0033	<0.0049	<0.0031	<0.0045
1,1,2,2-Tetrachloroethane	mg/kg	<0.0014	<0.0017	<0.0015	<0.0013	<0.0016	<0.0023	--	<0.0019	<0.0023	<0.0021	<0.0020	<0.0022	<0.0017	<0.0021	<0.0017	<0.0015	<0.0016	<0.0014	<0.0021	<0.0012	<0.0013	<0.0020	<0.0012	<0.0018
1,1,2-Trichloroethane	mg/kg	<0.0034	<0.0042	<0.0039	<0.0033	<0.0040	<0.0059	--	<0.0048	<0.0057	<0.0053	<0.0051	<0.0055	<0.0042	<0.0051	<0.0043	<0.0037	<0.0041	<0.0034	<0.0052	<0.0029	<0.0033	<0.0049	<0.0031	<0.0045
1,1-Dichloroethane	mg/kg	<0.0034	<0.0042	<0.0039	<0.0033	<0.0040	<0.0059	--	<0.0048	<0.0057	<0.0053	<0.0051	<0.0055	<0.0042	<0.0051	<0.0043	<0.0037	<0.0041	<0.0034	<0.0052	<0.0029	<0.0033	<0.0049	<0.0031	<0.0045
1,1-Dichloroethene	mg/kg	<0.0034	<0.0042	<0.0039	<0.0033	<0.0040	<0.0059	--	<0.0048	<0.0057	<0.0053	<0.0051	<0.0055	<0.0042	<0.0051	<0.0043	<0.0037	<0.0041	<0.0034	<0.0052	<0.0029	<0.0033	<0.0049	<0.0031	<0.0045
1,1-Dichloropropene	mg/kg	<0.0034	<0.0042	<0.0039	<0.0033	<0.0040	<0.0059	--	<0.0048	<0.0057	<0.0053	<0.0051	<0.0055	<0.0042	<0.0051	<0.0043	<0.0037	<0.0041	<0.0034	<0.0052	<0.0029	<0.0033	<0.0049	<0.0031	<0.0045
1,2,3-Trichlorobenzene	mg/kg	<0.0034	<0.0042	<0.0039	<0.0033	<0.0040	<0.0059	--	<0.0048	<0.0057	<0.0053	<0.0051	<0.0055	<0.0042	<0.0051	<0.0043	<0.0037	<0.0041	<0.0034	<0.0052	<0.0029	<0.0033	<0.0049	<0.0031	<0.0045
1,2,3-Trichloropropane	mg/kg	<0.0034	<0.0042	<0.0039	<0.0033	<0.0040	<0.0059	--	<0.0048	<0.0057	<0.0053	<0.0051	<0.0055	<0.0042	<0.0051	<0.0043	<0.0037	<0.0041	<0.0034	<0.0052	<0.0029	<0.0033	<0.0049	<0.0031	<0.0045
1,2,4-Trichlorobenzene	mg/kg	<0.0034	<0.0042	<0.0039	<0.0033	<0.0040	<0.0059	--	<0.0048	<0.0057	<0.0053	<0.0051	<0.0055	<0.0042	<0.0051	<0.0043	<0.0037	<0.0041	<0.0034	<0.0052	<0.0029	<0.0033	<0.0049	<0.0031	<0.0045
1,2,4-Trimethylbenzene	mg/kg	<0.0034	<0.0042	<0.0039	<0.0033	<0.0040	<0.0059	--	<0.0048	<0.0057	<0.0053	<0.0051	<0.0055	<0.0042	<0.0051	<0.0043	<0.0037	<0.0041	<0.0034	<0.0052	<0.0029	<0.0033	<0.0049	<0.0031	<0.0045
1,2-Dibromo-3-Chloropropane	mg/kg	<0.0034	<0.0042	<0.0039	<0.0033	<0.0040	<0.0059	--	<0.0048	<0.0057	<0.0053	<0.0051	<0.0055	<0.0042	<0.0051	<0.0043	<0.0037	<0.0041	<0.0034	<0.0052	<0.0029	<0.0033	<0.0049	<0.0031	<0.0045
1,2-Dibromoethane	mg/kg	<0.0034	<0.0042	<0.0039	<0.0033	<0.0040	<0.0059	--	<0.0048	<0.0057	<0.0053	<0.0051	<0.0055	<0.0042	<0.0051	<0.0043	<0.0037	<0.0041	<0.0034	<0.0052	<0.0029	<0.0033	<0.0049	<0.0031	<0.0045
1,2-Dichlorobenzene	mg/kg	<0.0034	<0.0042	<0.0039	<0.0033	<0.0040	<0.0059	--	<0.0048	<0.0057	<0.0053	<0.0051	<0.0055	<0.0042	<0.0051	<0.0043	<0.0037	<0.0041	<0.0034	<0.0052	<0.0029	<0.0033	<0.0049	<0.0031	<0.0045
1,2-Dichloroethane	mg/kg	<0.0034	<0.0042	<0.0039	<0.0033	<0.0040	<0.0059	--	<0.0048	<0.0057	<0.0053	<0.0051	<0.0055	<0.0042	<0.0051	<0.0043	<0.0037	<0.0041	<0.0034	<0.0052	<0.0029	<0.0033	<0.0049	<0.0031	<0.0045
1,2-Dichloropropane	mg/kg	<0.0034	<0.0042	<0.0039	<0.0033	<0.0040	<0.0059	--	<0.0048	<0.0057	<0.0053	<0.0051	<0.0055	<0.0042	<0.0051	<0.0043	<0.0037	<0.0041	<0.0034	<0.0052	<0.0029	<0.0033	<0.0049	<0.0031	<0.0045
1,3,5-Trimethylbenzene	mg/kg	<0.0034	<0.0042	<0.0039	<0.0033	<0.0040	<0.0059	--	<0.0048	<0.0057	<0.0053	<0.0051	<0.0055	<0.0042	<0.0051	<0.0043	<0.0037	<0.0041	<0.0034	<0.0052	<0.0029	<0.0033	<0.0049	<0.0031	<0.0045
1,3-Dichlorobenzene	mg/kg	<0.0034	<0.0042	<0.0039	<0.0033	<0.0040	<0.0059	--	<0.0048	<0.0057	<0.0053	<0.0051	<0.0055	<0.0042	<0.0051	<0.0043	<0.0037	<0.0041	<0.0034	<0.0052	<0.0029	<0.0033	<0.0049	<0.0031	<0.0045
1,3-Dichloropropane	mg/kg	<0.0034	<0.0042	<0.0039	<0.0033	<0.0040	<0.0059	--	<0.0048	<0.0057	<0.0053	<0.0051	<0.0055	<0.0042	<0.0051	<0.0043	<0.0037	<0.0041	<0.0034	<0.0052	<0.0029	<0.0033	<0.0049	<0.0031	<0.0045
1,4-Dichlorobenzene	mg/kg	<0.0034	<0.0042	<0.0039	<0.0033	<0.0040	<0.0059	--	<0.0048	<0.0057	<0.0053	<0.0051	<0.0055	<0.0042	<0.0051	<0.0043	<0.0037	<0.0041	<0.0034	<0.0052	<0.0029	<0.0033	<0.0049	<0.0031	<0.0045
1,4-Dioxane	mg/kg	<0.0675	<0.0830	<0.0773	<0.0655	<0.0804	<0.117	--	<0.0951	<0.114	<0.105	<0.102	<0.110	<0.0839	<0.103	<0.0868	<0.0732	<0.0813	<0.0681	<0.103	<0.0578	<0.0651	<0.0978	<0.0625	<0.0902
2,2-Dichloropropane	mg/kg	<0.0034	<0.0042	<0.0039	<0.0033	<0.0040	<0.0059	--	<0.0048	<0.0057	<0.0053	<0.0051	<0.0055	<0.0042	<0.0051	<0.0043	<0.0037	<0.0041	<0.0034	<0.0052	<0.0029	<0.0033	<0.0049	<0.0031	<0.0045
2-Butanone	mg/kg	<0.0068	<0.0083	<0.0077	<0.0066	<0.0080	<0.0117	--	<0.0095	<0.0114	<0.0105	<0.0102	<0.0110	<0.0084	<0.0103	<0.0087	<0.0073	<0.0081	<0.0068	<0.0103	<0.0058	<0.0065	<0.0098	<0.0062	<0.0090
2-Chlorotoluene	mg/kg	<0.0034	<0.0042	<0.0039	<0.0033	<0.0040	<0.0059	--	<0.0048	<0.0057	<0.0053	<0.0051	<0.0055	<0.0042	<0.0051	<0.0043	<0.0037	<0.0041	<0.0034	<0.0052	<0.0029	<0.0033	<0.0049	<0.0031	<0.0045
2-Hexanone	mg/kg	<0.0068	<0.0083	<0.0077	<0.0066	<0.0080	<0.0117	--	<0.0095	<0.0114	<0.0105	<0.0102	<0.0110	<0.0084	<0.0103	<0.0087	<0.0073	<0.0081	<0.0068	<0.0103	<0.0058	<0.0065	<0.0098	<0.0062	<0.0090
4-Chlorotoluene	mg/kg	<0.0034	<0.0042	<0.0039	<0.0033	<0.0040	<0.0059	--	<0.0048	<0.0057	<0.0053	<0.0051	<0.0055	<0.0042	<0.0051	<0.0043	<0.0037	<0.0041	<0.0034	<0.0052	<0.0029	<0.0033	<0.0049	<0.0031	<0.0045
4-Isopropyltoluene	mg/kg	<0.0034	<0.0042	<0.0039	<0.0033	<0.0040	<0.0059	--	<0.0048	<0.0057	<0.0053	<0.0051	<0.0055	<0.0042	<0.0051	<0.0043	<0.0037	<0.0041	<0.0034	<0.0052	<0.0029	<0.0033	<0.0049	<0.0031	<0.0045
4-Methyl-2-Pentanone	mg/kg	<0.0068	<0.0083	<0.0077	<0.0066	<0.0080	<0.0117	--	<0.0095	<0.0114	<0.0105	<0.0102	<0.0110	<0.0084	<0.0103	<0.0087	<0.0073	<0.0081	<0.0068	<0.0103	<0.0058	<0.0065	<0.0098	<0.0062	<0.0090
Acetone	mg/kg	<0.0068	<0.0083	<0.0077	<0.0066	<0.0080	<0.0117	--	<0.0095	<0.0114	<0.0105	<0.0102	<0.0110	<0.0084	<0.0103	<0.0087	<0.0073	0.0403	0.0088	0.0153	0.0125	0.0129	0.0139	0.01	<0.0090
Benzene	mg/kg	<0.0034	<0.0042	<0.0039	<0.0033	<0.0040	<0.0059	--	<0.0048	<0.0057	<0.0053	<0.0051	<0.0055	<0.0042	<0.0051	<0.0043	<0.0037	<0.0041	<0.0034	<0.0052	<0.0029	<0.0033	<0.0049	<0.0031	<0.0045
Bromobenzene	mg/kg	<0.0034	<0.0042	<0.0039	<0.0033	<0.0040	<0.0059	--	<0.0048	<0.0057	<0.0053	<0.0051	<0.0055	<0.0042	<0.0051	<0.0043	<0.0037	<0.0041	<0.0034	<0.0052	<0.0029	<0.0033	<0.0049	<0.0031	<0.0045
Bromochloromethane	mg/kg	<0.0034	<0.0042	<0.0039	<0.0033	<0.0040	<0.0059	--	<0.0048	<0.0057	<0.0053	<0.0051	<0.0055	<0.0042	<0.0051	<0.0043	<0.0037	<0.0041	<0.0034	<0.0052	<0.0029	<0.0033	<0.0049	<0.0031	<0.0045
Bromodichloromethane	mg/kg	<0.0034	<0.0042	<0.0039	<0.0033	<0.0040	<0.0059	--	<0.0048	<0.0057	<0.0053	<0.0051	<0.0055	<0.0042	<0.0051	<0.0043	<0.0037	<0.0041	<0.0034	<0.0052	<0.0029	<0.0033	<0.0049	<0.0031	<0.0045
Bromoform	mg/kg	<0.0034	<0.0042	<0.0039	<0.0033	<0.0040	<0.0059	--	<0.0048	<0.0057	<0.0053	<0.0051	<0.0055	<0.0042	<0.0051	<0.0043	<0.0037	<0.0041	<0.0034	<0.0052	<0.0029	<0.0033	<0.0049	<0.0031	<0.0045
Bromomethane	mg/kg	<0.0068	<0.0083	<0.0077	<0.0066	<0.0080	<0.0117	--	<0.0095	<0.0114	<0.0105	<0.0102	<0.0110	<0.0084	<0.0103	<0.0087	<0.0073	<0.0081	<0.0068	<0.0103	<0.0058	<0.0065	<0.0098	<0.0062	<0.0090
Carbon Disulfide	mg/kg	<0.0034	<0.0042	<0.0039	<0.0033	<0.0040	<0.0059	--	<0.0048	<0.0057	<0.0053	<0.0051	<0.0055	<0.0042	<0.0051	<0.0043	<0.0037	<0.0041	<0.0034	<0.0052	<0.0029	<0.0033	<0.0049	<0.0031	<0.0045
Carbon Tetrachloride	mg/kg	<0.0034	<0.0042	<0.0039	<0.0033	<0.0040	<0.0059	--	<0.0048	<0.0057	<0.0053	<0.0051	<0.0055	<0.0042	<0.0051	<0.0043	<0.0037	<0.0041	<0.0034	<0.0052	<0.0029	<0.0033	<0.0049	<0.0031	<0.0045
Chlorobenzene	mg/kg	<0.0034	<0.0042	<0.0039	<0.0033	<0.0040	<0.0059	--	<0.0048	<0.0057	<0.0053	<0.0051	<0.0055	<0.0042	<0.0051	<0.0043	<0.0037	<0.0041	<0.0034	<0.0052	<0.0029	<0.0033	<0.0049	<0.0031	<0.0045
Chloroethane	mg/kg	<0.0068	<0.0083	<0.0077	<0.0066	<0.0080	<0.0117	--	<0.0095	<0.0114	<0.0105	<0.0102	<0.0110	<0.0084	<0.0103	<0.0087	<0.0073	<0.0081	<0.0068	<0.0103	<0.0058	<0.0065	<0.0098	<0.0062	<0.0090
Chloroform	mg/kg	<0.0034	<0.0042	<0.0039	<0.0033	<0.0040	<0.0059	--	<0.0048	<0.0057	<0.0053	<0.0051	<0.0055	<0.0042	<0.0051	<0.0043	<0.0037	<0.0041	<0.0034	<0.0052	<0.0029	<0.0033	<0.0049	<0.0031	<0.0045
Chloromethane	mg/kg	<0.0068	<0.0083	<0.0077	<0.0066	<0.0080	<0.0117	--	<0.0095	<0.0114	<0.0105	<0.0102	<0.0110	<0.0084	<0.0103	<0.0087	<0.0073	<0.0081	<0.0068	<0.0103	<0.0058	<0.0065	<0.0098	<0.0062	<0.0090
cis-1,2-Dichloroethene	mg/kg	<0.0034	<0.0042	<0.0039	<0.0033	<0.0040	<0.0059	--	<0.0048	<0.0057	<0.0053	<0.0051	<0.0055	<0.0042	<0.0051	<0.0043	<0.0037	<0.0041	<0.0034	<0.0052	<0.0029	<0.0033	<0.0049	<0.0031	<0.0045
cis-1,3-Dichloropropene	mg/kg	<0.0034	<0.0042	<0.0039	<0.0033	<0.0040	<0.0059	--	<0.0048	<0.0057	<0.0053	<0.0051	<0.0055	<0.0042	<0.0051	<0.0043	<0.0037	<0.0041	<0.0034	<0.0052	<0.0029	<0.0033	<0.0049	<0.0031	<0.0045
Dibromochloromethane	mg/kg	<0.0014	<0.0017	<0.0015	<0.0013	<0.0016	<0.0023	--	<0.0019	<0.0023	<0.0021	<0.0020	<0.0022	<0.0017	<0.0021	<0.0017	<0.0015	<0.0016	<0.0014	<0.0021	<0.0012	<0.0013	<0.0020	<0.0012	<0.0018
Dibromomethane	mg/kg	<0.0034	<0.0042	<0.0039	<0.0033	<0.0040	<0.0059	--	<0.0048	<0.0057	<0.0053	<0.0051	<0.0055	<0.0042	<0.0051	<0.0043	<0.0037	<0.0041	<0.0034	<0.0052	<0.0029	<0.0033	<0.0049	<0.0031	<0.0045
Dichlorodifluoromethane	mg/kg	<0.0068	<0.0083	<0.0077	<0.0066	<0.0080	<0.0117	--	<0.0095	<0.0114	<0.0105	<0.0102	<0.0110	<0.0084	<0.0103	<0.0087	<0.0073	<0.0081	<0.0068	<0.0103	<0.0058	<0.0065	<0.0098	<0.0062	<0.0090
Diethyl Ether	mg/kg	<0.0034	<0.0042	<0.0039	<0.0033	<0.0040	<0.0059	--	<0.0048	<0.0057	<0.0053	<0.0051	<0.0055	<0.0042	<0.0051	<0.0043	<0.0037	<0.0041	<0.0034	<0.0052	<0.0029	<0.0033	<0.0049	<0.0031	<0.0045
Di-isopropyl ether	mg/kg	<0.0034	<0.0042	<0.0039	<0.0033	<0.0040	<0.0059	--	<0.0048	<0.0057	<0.0053	<0.0051	<0.0055	<0.0042	<0.0051	<0.0043	<0.0037	<0.0041	<0.0034	<0.0052	<0.0029	<0.0033	<0.0049	<0.0031	<0.0045
Ethyl tertiary-butyl ether	mg/kg	<0.0034	<0.0042	<0.0039	<0.0033	<0.0040	<0.0059	--	<0.0048	<0.0057	<0.0053	<0.0051	<0.0055	<0.0042	<0.0051	<0.0043	<0.0037	<0.0041	<0.0034	<0.0052	<0.0029	<0.0033	<0.0049	<0.0031	<0.0045
Ethylbenzene	mg/kg	<0.0034	<0.0042	<0.0039	<0.0033	<0.0040	<0.0059	--	<0.0048	<0.0057	<0.0053	<0.0051	<0.0055	<0.0042	<0.0051	<0.0043	<0.0037	<0.0041	<0.0034	<0.0052	<0.0029	<0.0033	<0.0049	<0.0031	<0.0045
Hexachlorobutadiene	mg/kg	<0.0034	<0.0042	<0.0039	<0.0033	<0.0040	<0.0059	--	<0.0048	<0.0057	<0.0053	<0.0051	<0.0055	<0.0042	<0.0051	<0.0043	<0.0037	<0.0041	<0.0034	<0.0052	<0.0029	<0.0033	<0.0049	<0.0031	<0.0045
Isopropylbenzene	mg/kg	<0.0034	<0.0042	<0.0039	<0.0033	<0.0040	<0.0059	--	<0.0048	<0.0057	<0.0053	<0.0051	<0.0055	<0.0042	<0.0051	<0.0043	<0.0037	<0.0041	<0.0034	<0.0052	<0.0029	<0.0033	<0.0049	<0.0031	<0.0045
Methyl tert-Butyl Ether	mg/kg	<0.0034	<0.0042	<0.0039	<0.0033	<0.0040	<0.0059	--	<0.0048	<0.0057	<0.0053	<0.0051	<0.0055	<0.0042	<0.0051	<0.0043	<0.0037	<0.0041	<0.0034	<0.0052	<0.0029	<0.0033	<0.0049	<0.0031	<0.0045
Methylene Chloride	mg/kg	<0.0068	<0.0083	<0.0077	<0.0066	<0.0080	<0.0117	--	<0.0095	<0.0114	<0.0105	<0.0102	<0.0110	<0.0084	<0.0103	<0.0087	<0.0073	<0.0081	<0.0068	<0.0103	<0.0058	<0.0065	<0.0098	<0.0062	<0.0090
Naphthalene	mg/kg	<0.0034	<0.0042	<0.0039	<0.0033	<0.0040	<0.0059	--	<0.0048	<0.0057	<0.0053	<0.0051	<0.0055	<0.0042	<0.0051	<0.0043	<0.0037	<0.0041	<0.0034	<0.0052	<0.0029	<0.0033	<0.0049	<0.0031	<0.0045
n-Butylbenzene	mg/kg	<0.0034	<0.0042	<0.0039	<0.0033	<0.0040	<0.0059	--	<0.0048	<0.0057	<0.0053	<0.0051	<0.0055	<0.0042	<0.0051	<0.0043	<0.0037	<0.0041	<0.0034	<0.0052	<0.0029	<0.0033	<0.0049	<0.0031	<0.0045
n-Propylbenzene	mg/kg	<0.0034	<0.0042	<0.0039	<0.0033	<0.0040	<0.0059	--	<0.0048	<0.0057	<0.0053	<0.0051	<0.0055	<0.0042	<0.0051	<0.0043	<0.0037	<0.0041	<0.0034	<0.0052	<0.0029	<0.0033	<0.0049	<0.0031	<0.0045
sec-Butylbenzene	mg/kg	<0.0034	<0.0042	<0.0039	<0.0033	<0.0040	<0.0059	--	<0.0048	<0.0057	<0.0053	<0.0051	<0.0055	<0.0042	<0.0051	<0.0043	<0.0037	<0.0041	<0.0034	<0.0052	<0.0029	<0.0033	<0.0049	<0.0031	<0.0045

Table 1
Soil Precharacterization Data

Wynn Resort Casino
Everett, Massachusetts

Analyte	Precharacterization Cell	D12	D12	D12	D12	D13	D13	D13	D13	D13	D13	D13	D13	D13	D13	D14	D14	D14	D14	D14	D14	D14	D14	D15
	Sample ID	D12S07	D12S08	D12S09	D12S10S11	D13S01S02A	D13S02BS03	D13S04S05	D13S06	D13S07	D13S08	D13S09	D13S10	D13S11	D13S12S13	D14S01S02A	D14S02BS04A	D14S04BS05	D14S06S07A	D14S07BS08	D14S09	D14S10	D14S11	D14S12S13	D15S01S02A
	Laboratory Work Order	1501301	1501301	1501301	1501301	1502334	1502334	1502370	1502370	1502370	1502370	1502370	1502370	1502370	1502370	1501301	1501301	1501301	1501301	1501301	1503166	1503166	1503166	1503166	1502394
	Soil Distinction	Natural	Natural	Natural	Natural	Fill	Fill	Fill	Fill	Natural	Natural	Natural	Natural	Natural	Natural	Fill	Fill	Fill	Fill	Natural	Natural	Natural	Natural	Natural	Fill
	Soil Type	Sand/Gravel	Sand/Gravel	Sand/Gravel	Sand/Gravel					Sand/Gravel	Sand/Gravel	Sand/Gravel	Sand/Gravel	Sand/Gravel	Sand/Gravel					Clay	Sand/Gravel	Sand/Gravel	Sand/Gravel	Sand/Gravel	
	Depth Interval (ft.)	19 - 21	24 - 26	29 - 31	34 - 38	0 - 3.3	3.3 - 6.6	6.6 - 10	10 - 12	12 - 14	14 - 16	19 - 21	24 - 26	29 - 31	34 - 37	0 - 3.3	3.3 - 6.6	6.6 - 10	10 - 13	13 - 16	19 - 21	24 - 26	29 - 31	34 - 38	0 - 3.3
	Sampling Date	1/15/2015	1/15/2015	1/15/2015	1/15/2015	2/23/2015	2/23/2015	2/25/2015	2/25/2015	2/25/2015	2/25/2015	2/25/2015	2/25/2015	2/25/2015	2/25/2015	1/15/2015	1/15/2015	1/15/2015	1/15/2015	1/15/2015	3/10/2015	3/10/2015	3/10/2015	3/10/2015	2/26/2015
Preliminary Disposal Facility Category		Hazardous Material Type A	Uncontaminated	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	Hazardous Material Type B	Hazardous Material Type B	Hazardous Material Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Restricted	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	Hazardous Material Type B	Hazardous Material Type B	Hazardous Material Type B	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A
Styrene	mg/kg	<0.0034	<0.0042	<0.0039	<0.0033	<0.0040	<0.0059	--	<0.0048	<0.0057	<0.0053	<0.0051	<0.0055	<0.0042	<0.0051	<0.0043	<0.0037	<0.0041	<0.0034	<0.0052	<0.0029	<0.0033	<0.0049	<0.0031	<0.0045
tert-Butylbenzene	mg/kg	<0.0034	<0.0042	<0.0039	<0.0033	<0.0040	<0.0059	--	<0.0048	<0.0057	<0.0053	<0.0051	<0.0055	<0.0042	<0.0051	<0.0043	<0.0037	<0.0041	<0.0034	<0.0052	<0.0029	<0.0033	<0.0049	<0.0031	<0.0045
Tertiary-amyl methyl ether	mg/kg	<0.0034	<0.0042	<0.0039	<0.0033	<0.0040	<0.0059	--	<0.0048	<0.0057	<0.0053	<0.0051	<0.0055	<0.0042	<0.0051	<0.0043	<0.0037	<0.0041	<0.0034	<0.0052	<0.0029	<0.0033	<0.0049	<0.0031	<0.0045
Tetrachloroethene	mg/kg	<0.0034	<0.0042	<0.0039	<0.0033	<0.0040	<0.0059	--	<0.0048	<0.0057	<0.0053	<0.0051	<0.0055	<0.0042	<0.0051	<0.0043	<0.0037	<0.0041	<0.0034	<0.0052	<0.0029	<0.0033	<0.0049	<0.0031	<0.0045
Tetrahydrofuran	mg/kg	<0.0034	<0.0042	<0.0039	<0.0033	<0.0040	<0.0059	--	<0.0048	<0.0057	<0.0053	<0.0051	<0.0055	<0.0042	<0.0051	<0.0043	<0.0037	<0.0041	<0.0034	<0.0052	<0.0029	<0.0033	<0.0049	<0.0031	<0.0045
Toluene	mg/kg	<0.0034	<0.0042	<0.0039	<0.0033	<0.0040	<0.0059	--	<0.0048	<0.0057	<0.0053	<0.0051	<0.0055	<0.0042	<0.0051	<0.0043	<0.0037	<0.0041	<0.0034	<0.0052	<0.0029	<0.0033	<0.0049	<0.0031	<0.0045
trans-1,2-Dichloroethene	mg/kg	<0.0034	<0.0042	<0.0039	<0.0033	<0.0040	<0.0059	--	<0.0048	<0.0057	<0.0053	<0.0051	<0.0055	<0.0042	<0.0051	<0.0043	<0.0037	<0.0041	<0.0034	<0.0052	<0.0029	<0.0033	<0.0049	<0.0031	<0.0045
trans-1,3-Dichloropropene	mg/kg	<0.0034	<0.0042	<0.0039	<0.0033	<0.0040	<0.0059	--	<0.0048	<0.0057	<0.0053	<0.0051	<0.0055	<0.0042	<0.0051	<0.0043	<0.0037	<0.0041	<0.0034	<0.0052	<0.0029	<0.0033	<0.0049	<0.0031	<0.0045
Trichloroethene	mg/kg	<0.0034	<0.0042	<0.0039	<0.0033	<0.0040	<0.0059	--	<0.0048	<0.0057	<0.0053	<0.0051	<0.0055	<0.0042	<0.0051	<0.0043	<0.0037	<0.0041	<0.0034	<0.0052	<0.0029	<0.0033	<0.0049	<0.0031	<0.0045
Trichlorofluoromethane	mg/kg	<0.0034	<0.0042	<0.0039	<0.0033	<0.0040	<0.0059	--	<0.0048	<0.0057	<0.0053	<0.0051	<0.0055	<0.0042	<0.0051	<0.0043	<0.0037	<0.0041	<0.0034	<0.0052	<0.0029	<0.0033	<0.0049	<0.0031	<0.0045
Vinyl Chloride	mg/kg	<0.0068	<0.0083	<0.0077	<0.0066	<0.0080	<0.0117	--	<0.0095	<0.0114	<0.0105	<0.0102	<0.0110	<0.0084	<0.0103	<0.0087	<0.0073	<0.0081	<0.0068	<0.0103	<0.0058	<0.0065	<0.0098	<0.0062	<0.0090
Xylene O	mg/kg	<0.0034	<0.0042	<0.0039	<0.0033	<0.0040	<0.0059	--	<0.0048	<0.0057	<0.0053	<0.0051	<0.0055	<0.0042	<0.0051	<0.0043	<0.0037	<0.0041	<0.0034	<0.0052	<0.0029	<0.0033	<0.0049	<0.0031	<0.0045
Xylene P,M	mg/kg	<0.0068	<0.0083	<0.0077	<0.0066	<0.0080	<0.0117	--	<0.0095	<0.0114	<0.0105	<0.0102	<0.0110	<0.0084	<0.0103	<0.0087	<0.0073	<0.0081	<0.0068	<0.0103	<0.0058	<0.0065	<0.0098	<0.0062	<0.0090
Xylenes (Total)	mg/kg	<0.0068	<0.0083	<0.0077	<0.0066	<0.0080	<0.0117	--	<0.0095	<0.0114	<0.0105	<0.0102	<0.0110	<0.0084	<0.0103	<0.0087	<0.0073	<0.0081	<0.0068	<0.0103	<0.0058	<0.0065	<0.0098	<0.0062	<0.0090
Total VOCs (Low Level)	mg/kg	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0403	0.0088	0.0153	0.0125	0.0129	0.0139	0.01	ND
Semi-Volatile Organic Compounds																									
1,2,4-Trichlorobenzene	mg/kg	<0.858	<0.973	<0.858	<0.845	<0.839	<0.902	<1.02	<0.941	<0.985	<0.949	<0.959	<0.938	<0.935	<0.902	<0.890	<0.930	<0.960	<0.932	<1.05	<0.998	<0.968	<1.00	<0.885	<0.865
1,2-Dichlorobenzene	mg/kg	<0.858	<0.973	<0.858	<0.845	<0.839	<0.902	<1.02	<0.941	<0.985	<0.949	<0.959	<0.938	<0.935	<0.902	<0.890	<0.930	<0.960	<0.932	<1.05	<0.998	<0.968	<1.00	<0.885	<0.865
1,3-Dichlorobenzene	mg/kg	<0.858	<0.973	<0.858	<0.845	<0.839	<0.902	<1.02	<0.941	<0.985	<0.949	<0.959	<0.938	<0.935	<0.902	<0.890	<0.930	<0.960	<0.932	<1.05	<0.998	<0.968	<1.00	<0.885	<0.865
1,4-Dichlorobenzene	mg/kg	<0.430	<0.488	<0.430	<0.424	<0.421	<0.452	<0.509	<0.472	<0.494	<0.476	<0.481	<0.470	<0.469	<0.452	<0.446	<0.467	<0.482	<0.467	<0.529	<0.500	<0.485	<0.503	<0.444	<0.434
2,4,5-Trichlorophenol	mg/kg	<0.858	<0.973	<0.858	<0.845	<0.839	<0.902	<1.02	<0.941	<0.985	<0.949	<0.959	<0.938	<0.935	<0.902	<0.890	<0.930	<0.960	<0.932	<1.05	<0.998	<0.968	<1.00	<0.885	<0.865
2,4,6-Trichlorophenol	mg/kg	<0.858	<0.973	<0.858	<0.845	<0.839	<0.902	<1.02	<0.941	<0.985	<0.949	<0.959	<0.938	<0.935	<0.902	<0.890	<0.930	<0.960	<0.932	<1.05	<0.998	<0.968	<1.00	<0.885	<0.865
2,4-Dichlorophenol	mg/kg	<0.858	<0.973	<0.858	<0.845	<0.839	<0.902	<1.02	<0.941	<0.985	<0.949	<0.959	<0.938	<0.935	<0.902	<0.890	<0.930	<0.960	<0.932	<1.05	<0.998	<0.968	<1.00	<0.885	<0.865
2,4-Dimethylphenol	mg/kg	<0.858	<0.973	<0.858	<0.845	<0.839	<0.902	<1.02	<0.941	<0.985	<0.949	<0.959	<0.938	<0.935	<0.902	<0.890	<0.930	<0.960	<0.932	<1.05	<0.998	<0.968	<1.00	<0.885	<0.865
2,4-Dinitrophenol	mg/kg	<4.30	<4.88	<4.30	<4.24	<4.21	<4.52	<5.09	<4.72	<4.94	<4.76	<4.81	<4.70	<4.69	<4.52	<4.46	<4.67	<4.82	<4.67	<5.29	<5.00	<4.85	<5.03	<4.44	<4.34
2,4-Dinitrotoluene	mg/kg	<0.858	<0.973	<0.858	<0.845	<0.839	<0.902	<1.02	<0.941	<0.985	<0.949	<0.959	<0.938	<0.935	<0.902	<0.890	<0.930	<0.960	<0.932	<1.05	<0.998	<0.968	<1.00	<0.885	<0.865
2,6-Dinitrotoluene	mg/kg	<0.858	<0.973	<0.858	<0.845	<0.839	<0.902	<1.02	<0.941	<0.985	<0.949	<0.959	<0.938	<0.935	<0.902	<0.890	<0.930	<0.960	<0.932	<1.05	<0.998	<0.968	<1.00	<0.885	<0.865
2-Chloronaphthalene	mg/kg	<0.858	<0.973	<0.858	<0.845	<0.839	<0.902	<1.02	<0.941	<0.985	<0.949	<0.959	<0.938	<0.935	<0.902	<0.890	<0.930	<0.960	<0.932	<1.05	<0.998	<0.968	<1.00	<0.885	<0.865
2-Chlorophenol	mg/kg	<0.858	<0.973	<0.858	<0.845	<0.839	<0.902	<1.02	<0.941	<0.985	<0.949	<0.959	<0.938	<0.935	<0.902	<0.890	<0.930	<0.960	<0.932	<1.05	<0.998	<0.968	<1.00	<0.885	<0.865
2-Methylnaphthalene	mg/kg	<0.858	<0.973	<0.858	<0.845	<0.839	<0.902	<1.02	<0.941	<0.985	<0.949	<0.959	<0.938	<0.935	<0.902	<0.890	<0.930	<0.960	<0.932	<1.05	<0.998	<0.968	<1.00	<0.885	<0.865
2-Methylphenol	mg/kg	<0.858	<0.973	<0.858	<0.845	<0.839	<0.902	<1.02	<0.941	<0.985	<0.949	<0.959	<0.938	<0.935	<0.902	<0.890	<0.930	<0.960	<0.932	<1.05	<0.998	<0.968	<1.00	<0.885	<0.865
2-Nitrophenol	mg/kg	<0.858	<0.973	<0.858	<0.845	<0.839	<0.902	<1.02	<0.941	<0.985	<0.949	<0.959	<0.938	<0.935	<0.902	<0.890	<0.930	<0.960	<0.932	<1.05	<0.998	<0.968	<1.00	<0.885	<0.865
3,3´-Dichlorobenzidine	mg/kg	<1.72	<1.95	<1.72	<1.69	<1.68	<1.81	<2.03	<1.89	<1.97	<1.90	<1.92	<1.88	<1.87	<1.81	<1.78	<1.86	<1.92	<1.87	<2.11	<2.00	<1.94	<2.01	<1.77	<1.73
3+4-Methylphenol	mg/kg	<1.72	<1.95	<1.72	<1.69	<1.68	<1.81	<2.03	<1.89	<1.97	<1.90	<1.92	<1.88	<1.87	<1.81	<1.78	<1.86	<1.92	<1.87	<2.11	<2.00	<1.94	<2.01	<1.77	<1.73
4-Bromophenyl-phenylether	mg/kg	<0.858	<0.973	<0.858	<0.845	<0.839	<0.902	<1.02	<0.941	<0.985	<0.949	<0.959	<0.938	<0.935	<0.902	<0.890	<0.930	<0.960	<0.932	<1.05	<0.998	<0.968	<1.00	<0.885	<0.865
4-Chloroaniline	mg/kg	<1.72	<1.95	<1.72	<1.69	<1.68	<1.81	<2.03	<1.89	<1.97	<1.90	<1.92	<1.88	<1.87	<1.81	<1.78	<1.86	<1.92	<1.87	<2.11	<2.00	<1.94	<2.01	<1.77	<1.73
4-Nitrophenol	mg/kg	<4.30	<4.88	<4.30	<4.24	<4.21	<4.52	<5.09	<4.72	<4.94	<4.76	<4.81	<4.70	<4.69	<4.52	<4.46	<4.67	<4.82	<4.67	<5.29	<5.00	<4.85	<5.03	<4.44	<4.34
Acenaphthene	mg/kg	<0.858	<0.973	<0.858	<0.845	<0.839	<0.902	<1.02	<0.941	<0.985	<0.949	<0.959	<0.938	<0.935	<0.902	<0.890	<0.930	<0.960	<0.932	<1.05	<0.998	<0.968	<1.00	<0.885	<0.865
Acenaphthylene	mg/kg	<0.858	<0.973	<0.858	<0.845	<0.839	<0.902	<1.02	<0.941	<0.985	<0.949	<0.959	<0.938	<0.935	<0.902	<0.890	<0.930	<0.960	<0.932	<1.05	<0.998	<0.968	<1.00	<0.885	<0.865
Acetophenone	mg/kg	<1.72	<1.95	<1.72	<1.69	<1.68	<1.81	<2.03	<1.89	<1.97	<1.90	<1.92	<1.88	<1.87	<1.81	<1.78	<1.86	<1.92	<1.87	<2.11	<2.00	<1.94	<2.01	<1.77	<1.73
Aniline	mg/kg	<4.30	<4.88	<4.30	<4.24	<4.21	<4.52	<5.09	<4.72	<4.94	<4.76	<4.81	<4.70	<4.69	<4.52	<4.46	<4.67	<4.82	<4.67	<5.29	<5.00	<4.85	<5.03	<4.44	<4.34
Anthracene	mg/kg	<0.858	<0.973	<0.858	<0.845	<0.839	<0.902	<1.02	<0.941	<0.985	<0.949	<0.959	<0.938	<0.935	<0.902	<0.890	<0.930	<0.960	<0.932	<1.05	<0.998	<0.968	<1.00	<0.885	<0.865
Azobenzene	mg/kg	<0.858	<0.973	<0.858	<0.845	<0.839	<0.902	<1.02	<0.941	<0.985	<0.949	<0.959	<0.938	<0.935	<0.902	<0.890	<0.930	<0.960	<0.932	<1.05	<0.998	<0.968	<1.00	<0.885	<0.865
Benzo(a)anthracene	mg/kg	<0.858	<0.973	<0.858	<0.845	<0.839	<0.902	<1.02	<0.941	<0.985	<0.949	<0.959	<0.938	<0.935	<0.902	<0.890	<0.930	1.61	<0.932	<1.05	<0.998	<0.968	<1.00	<0.885	<0.865
Benzo(a)pyrene	mg/kg	<0.430	<0.488	<0.430	<0.424	<0.421	<0.452	<0.509	<0.472	<0.494	<0.476	<0.481	<0.470	<0.469	<0.452	<0.446	0.755	1.31	0.468	<0.529	<0.500	<0.485	<0.503	<0.444	<0.434
Benzo(b)fluoranthene	mg/kg	<0.858	<0.973	<0.858	<0.845	<0.839	<0.902	<1.02	<0.941	<0.985	<0.949	<0.959	<0.938	<0.935	<0.902	<0.890	1	2.01	<0.932	<1.05	<0.998	<0.968	<1.00	<0.885	<0.865
Benzo(g,h,i)perylene	mg/kg	<0.858	<0.973	<0.858	<0.845	<0.839	<0.902	<1.02	<0.941	<0.985	<0.949	<0.959	<0.938	<0.935	<0.902	<0.890	<0.930	<0.960	<0.932	<1.05	<0.998	<0.968	<1.00	<0.885	<0.865
Benzo(k)fluoranthene	mg/kg	<0.858	<0.973	<0.858	<0.845	<0.839	<0.902	<1.02	<0.941	<0.985	<0.949	<0.959	<0.938	<0.935	<0.902	<0.890	<0.930	<0.960	<0.932	<1.05	<0.998	<0.968	<1.00	<0.885	<0.865
bis(2-Chloroethoxy)methane	mg/kg	<0.858	<0.973	<0.858	<0.845	<0.839	<0.902	<1.02	<0.941	<0.985	<0.949	<0.959	<0.938	<0.935	<0.902	<0.890	<0.930	<0.960	<0.932	<1.05	<0.998	<0.968	<1.00	<0.885	<0.865
bis(2-Chloroethyl)ether	mg/kg	<0.430	<0.488	<0.430	<0.424	<0.421	<0.452	<0.509	<0.472	<0.494	<0.476	<0.481	<0.470	<0.469	<0.452	<0.446	<0.467	<0.482	<0.467	<0.529	<0.500	<0.485	<0.503	<0.444	<0.434
bis(2-chloroisopropyl)Ether	mg/kg	<0.430	<0.488	<0.430	<0.424	<0.421	<0.452	<0.509	<0.472	<0.494	<0.476	<0.481	<0.470	<0.469	<0.452	<0.446	<0.467	<0.482	<0.467	<0.529	<0.500	<0.485	<0.503	<0.444	<0.434
bis(2-Ethylhexyl)phthalate	mg/kg	<0.858	<0.973	<0.858	<0.845	<0.839	1.36	1.04	<0.941	<0.985	<0.949	<0.959	<0.938	<0.935	<0.902	<0.890	<0.930	<0.960	<0.932	<1.05	<0.998	<0.968	<1.00	<0.885	<0.865
Butylbenzylphthalate	mg/kg	<0.858	<0.973	<0.858	<0.845	<0.839	<0.902	<1.02	<0.941	<0.985	<0.949	<0.959	<0.938	<0.935	<0.902	<0.890	<0.930	<0.960	<0.932	<1.05	<0.998	<0.968	<1.00	<0.885	<0.865
Chrysene	mg/kg	<0.430	<0.488	<0.430	<0.424	<0.421	<0.452	0.735	<0.472	<0.494	<0.476	<0.481	<0.470	<0.469	<0.452	<0.446	0.94	1.7	0.798	<0.529	<0.500	<0.485	<0.503	<0.444	<0.434
Dibenzo(a,h)Anthracene	mg/kg	<0.430	<0.488	<0.430	<0.424	<0.421	<0.452	<0.509	<0.472	<0.494	<0.476	<0.481	<0.470	<0.469	<0.452	<0.446	<0.467	<0.482	<0.467	<0.529	<0.500	<0.485	<0.503	<0.444	<0.434
Dibenzofuran	mg/kg	<0.858	<0.973	<0.858	<0.845	<0.839	<0.902	<1.02	<0.941	<0.985	<0.949	<0.959	<0.938	<0.935	<0.902	<0.890	<0.930	<0.960	<0.932	<1.05	<0.998	<0.968	<1.00	<0.885	<0.865
Diethylphthalate	mg/kg	<0.858	<0.973	<0.858	<0.845	<0.839	<0.902	<1.02	<0.941	<0.985	<0.949	<0.959	<0.938	<0.935	<0.902	<0.890	<0.930	<0.960	<0.932	<1.05	<0.998	<0.968	<1.00	<0.885	<0.865
Dimethylphthalate	mg/kg	<0.858	<0.973	<0.858	<0.845	<0.839	<0.902	<1.02	<0.941	<0.985	<0.949	<0.959	<0.938	<0.935	<0.902	<0.890	<0.930	<0.960	<0.932	<1.05	<0.998	<0.968	<1.00	<0.885	<0.865
Di-n-butylphthalate	mg/kg	<0.858	<0.973	<0.858	<0.845	<0.839	<0.902	<1.02	<0.941	<0.985	<0.949	<0.959	<0.938	<0.935	<0.902	<0.890	<0.930	<0.960	<0.932	<1.05	<0.998	<0.968	<1.00	<0.885	<0.865
Di-n-octylphthalate	mg/kg	<0.858	<0.973	<0.858	<0.845	<0.839	<0.902	<1.02	<0.941	<0.985	<0.949	<0.959	<0.938	<0.935	<0.902	<0.890	<0.930	<0.960	<0.932	<1.05	<0.998	<0.968	<1.00	<0.885	<0.865
Fluoranthene	mg/kg	<0.858	<0.973	<0.858	<0.845	<0.839	<0.902	1.17	<0.941	<0.985	<0.949	<0.959	<0.938	<0.935	<0.902	<0.890	1.57	3.01	1.69	<1.05	<0.998	<0.968	<1.00	<0.885	<0.865
Fluorene	mg/kg	<0.858	<0.973	<0.858	<0.845	<0.839	<0.902	<1.02	<0.941	<0.985	<0.949	<0.959	<0.938	<0.935	<0.902	<0.890	<0.930	<0.960	<0.932	<1.05	<0.998	<0.968	<1.00	<0.885	<0.865
Hexachlorobenzene	mg/kg	<0.430	<0.488	<0.430	<0.424	<0.421	<0.452	<0.509	<0.472	<0.494	<0.476	<0.481	<0.470	<0.469	<0.452	<0.446	<0.467	<0.482	<0.467	<0.529	<0.500	<0.485	<0.503	<0.444	<0.434
Hexachlorobutadiene	mg/kg	<0.858	<0.973	<0.858	<0.845	<0.839	<0.902	<1.02	<0.941	<0.985	<0.949	<0.959	<0.938	<0.935	<0.902	<0.890	<0.930	<0.960	<0.932	<1.05	<0.998	<0.968	<1.00	<0.885	<0.865
Hexachloroethane	mg/kg	<0.858	<0.973	<0.858	<0.845	<0.839	<0.902	<1.02	<0.941	<0.985	<0.949	<0.959	<0.938	<0.935	<0.902	<0.890	<0.930	<0.960	<0.932	<1.05	<0.998	<0.968	<1.00	<0.885	<0.865
Indeno(1,2,3-cd)Pyrene	mg/kg	<0.858	<0.973	<0.858	<0.845	<0.839	<0.902	<1.02	<0.941	<0.985	<0.949	<0.959	<0.938	<0.935	<0.902	<0.890	<0.930	<0.960	<0.932	<1.05	<0.998	<0.968	<1.00	<0.885	<0.865
Isophorone	mg/kg	<0.858	<0.973	<0.858	<0.845	<0.839	<0.902	<1.02	<0.941	<0.985	<0.949	<0.959	<0.938	<0.935	<0.902	<0.890	<0.930	<0.960	<0.932	<1.05	<0.998	<0.968	<1.00	<0.885	<0.865
Naphthalene	mg/kg	<0.858	<0.973	<0.858	<0.845	<0.839	<0.902	<1.02	<0.941	<0.985	<0.949	<0.959	<0.938	<0.935	<0.902	<0.890	<0.930	<0.960	1.38	<1.05	<0.998	<0.968	<1.00	<0.885	<0.865
Nitrobenzene	mg/kg	<0.858	<0.973	<0.858	<0.845	<0.839	<0.902	<1.02	<0.941	<0.985	<0.949	<0.959	<0.938	<0.935	<0.902	<0.890	<0.930	<0.960	<0.932	<1.05	<0.998	<0.968	<1.00	<0.885	<0.865
N-Nitrosodimethylamine	mg/kg	<0.858	<0.973	<0.858	<0.845	<0.839	<0.902	<1.02	<0.941	<0.985	<0.949	<0.959	<0.938	<0.935	<0.902	<0.890	<0.930	<0.960	<0.932	<1.05	<0.998	<0.968	<1.00	<0.885	<0.865
Pentachlorophenol	mg/kg	<4.30	<4.88	<4.30	<4.24	<4.21	<4.52	<5.09	<4.72	<4.94	<4.76	<4.81	<4.70	<4.69	<4.52	<4.46	<4.67	<4.82	<4.67	<5.29	<5.00	<4.85	<5.03	<4.44	<4.34
Phenanthrene	mg/kg	<0.858	<0.973	<0.858	<0.845	<0.839	<0.902	<1.02	<0.941	<0.985	<0.949	<0.959	<0.938	<0.935	<0.902	<0.890	<0.930	1.95	1.22	<1.05	<0.998	<0.968	<1.00	<0.885	<0.865
Phenol	mg/kg	<0.858	<0.973	<0.858	<0.845	<0.839	<0.902	<1.02	<0.941	<0.985	<0.949	<0.959	<0.938	<0.935	<0.902	<0.890	<0.930	<0.960	<0.932	<1.05	<0.998	<0.968	<1.00	<0.885	<0.865
Pyrene	mg/kg	<0.858	<0.973	<0.858	<0.845	<0.839	<0.902	<1.02	<0.941	<0.985	<0.949	<0.959	<0.938	<0.935	<0.902	<0.890	1.02	2.02	<0.932	<1.05	<0.998	<0.968	<1.00	<0.885	<0.865
Total SVOCs	mg/kg	ND	ND	ND	ND	ND	1.36	2.945	ND	ND	ND	ND	ND	ND	ND	ND	5.285	13.61	5.556	ND	ND	ND	ND	ND	ND
Classic Chemistry																									
Corrosivity (pH)	S.U.	5.62	5.4	5.46	5.04	8.29	8.31	4.31	6.09	5.95	6.09	6.04	6	5.84	4.38	8.8	6.88	5.85	5.88	4.5	6.06	6.46	6.13	6.23	8.88
Conductivity	umhos/cm	173	160	110	305	150	316	883	159	242	250	214	222	211	277	98	888	1040	671	1720	926	483	308	191	149
Flashpoint	°F	--	--	--	--	>200	>200	>200	>200	--	--	--	--	--	--	>200	>200	>200	>200	--	--	--	--	--	>200
Reactive Cyanide	mg/kg	--	--	--	--	<2.0	<2.0	<2.0	<2.0	--	--	--	--	--	--	<2.0	<2.0	<2.0	<2.0	--	--	--	--	--	<2.0
Reactive Sulfide	mg/kg	--	--	--	--	<2.0	<2.0	<2.0	<2.0	--	--	--	--	--	--	<2.0	<2.0	<2.0	<2.0	--	--	--	--	--	<2.0

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	D15 D15S02BS04A 1502394 Fill 3.3 - 6.6 2/26/2015	D15 D15S04BS05 1502394 Fill 6.6 - 10 2/26/2015	D15 D15S06S07A 1502394 Fill 10 - 13.3 2/26/2015	D15 D15S07BS08A 1502394 Fill 13.3 - 15 2/26/2015	D15 D15S08B 1502394 Natural Sand/Gravel 15 - 16 2/26/2015	D15 D15S09 1502394 Natural Clay 19 - 21 2/26/2015	D15 D15S10 1502394 Natural Clay 24 - 26 2/26/2015	D15 D15S11 1502394 Natural Clay 29 - 31 2/26/2015	D15 D15S12S13 1502394 Natural Clay 34 - 38 2/26/2015	D16 D16S01S02A 1503115 Fill 3 - 6 3/6/2015	D16 D16S02BS03 1503115 Fill 6 - 9 3/6/2015	D16 GZ002S01S02A 1410404 Fill 0 - 3.3 10/15/2014	D16 GZ002S02BS06 1410404 Fill 3.3 - 12 10/15/2014	D16 GZ002S07S09 1410404 Fill 12 - 18 10/15/2014	D16 GZ002S12S13 1410450 Natural Sand/Gravel 24 - 31 10/16/2014	D16 GZ002S14S16 1410451 Natural Sand/Gravel 34 - 46 10/16/2014	D17 D17S01S02A 1502080 Fill 0 - 3.3 2/5/2015	D17 D17S02BS04A 1502080 Fill 3.3 - 6.6 2/5/2015	D17 D17S04BS05 1502080 Fill 6.6 - 10 2/5/2015	D17 D17S06S07 1502080 Natural Organics 10 - 14 2/5/2015	D17 D17S08 1502103 Natural Organics 14 - 16 2/6/2015	D17 D17S09 1502103 Natural Organics 19 - 21 2/6/2015	D17 D17S10 1502103 Natural Organics 24 - 26 2/6/2015	D17 D17S11 1502103 Natural Clay 29 - 31 2/6/2015
Preliminary Disposal Facility Category		Hazardous Material Type A	MCP Regulated Material Type B-2	Hazardous Material Type B	Hazardous Material Type B	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Restricted	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	Hazardous Material Type B	Hazardous Material Type B	Uncontaminated	Uncontaminated	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A
RCRA 8 Metals	**Units**																								
Arsenic	mg/kg	6.17	15.5	<9.77	115	30.4	11.1	10.9	<7.15	12.1	<6.72	21	<10.3	61.3	44.3	<2.37	<2.18	<6.61	9.75	14.2	23	<9.03	18.9	701	44.6
Barium	mg/kg	25.7	257	708	128	8.41	95.9	86.9	74.9	89.9	71.6	58.4	26.1	187	63.1	4.69	<2.18	21.2	37.5	78.3	82.4	34.7	23.9	180	137
Cadmium	mg/kg	<1.13	<1.59	<1.95	5.51	1.98	<1.57	<1.69	<1.43	<1.73	<1.34	<1.28	<2.05	<2.85	<2.32	<0.47	<0.44	<1.32	<1.38	<1.61	<1.78	<1.81	<1.76	14.9	<1.65
Chromium	mg/kg	23.5	5.15	9.42	22.4	19.5	48.5	50.2	44.6	60.6	22	24.3	29.1	30.5	14.9	2.81	1.79	18.5	19.3	9.42	6.84	<3.61	24.7	100	62.1
Lead	mg/kg	40.4	1740	864	3550	103	19.1	<16.9	<14.3	20.4	25.6	983	<20.5	1420	830	<4.74	7.27	<13.2	136	334	123	<18.1	41.3	2370	161
Selenium	mg/kg	<5.66	9.91	<9.77	7.43	<6.79	<7.83	<8.47	<7.15	<8.66	<6.72	<6.42	<2.05	3.73	8.32	<4.74	<4.37	<6.61	<6.91	<8.03	<8.92	<9.03	<8.79	163	16.7
Silver	mg/kg	<1.13	10	<1.95	5.53	<1.36	<1.57	<1.69	<1.43	<1.73	<1.34	<1.28	<2.05	3.6	<2.32	<0.47	<0.44	<1.32	<1.38	<1.61	<1.78	<1.81	<1.76	3.12	<1.65
Mercury	mg/kg	0.076	2.24	3.03	2.21	<0.032	<0.038	<0.037	<0.040	<0.045	0.189	4.98	<0.034	0.554	1.16	<0.038	0.157	<0.030	0.349	0.289	0.223	0.137	0.311	21.2	<0.041
Metals by Toxicity Characteristic Leaching Procedure (TCLP)																									
Arsenic	mg/L	--	--	--	<0.500	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.79	--
Cadmium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.020	--
Lead	mg/L	--	31.9	47.3	101	1.57	--	--	--	--	--	1.05	--	15.7	6.41	--	--	--	0.219	<0.050	<0.050	--	--	<0.050	<0.050
Selenium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<1.00	--
Mercury	mg/L	--	--	--	--	--	--	--	--	--	--	<0.00050	--	--	--	--	--	--	--	--	--	--	--	<0.00050	--
Herbicides																									
2,4,5-T	mg/kg	<0.052	<0.054	<0.061	<0.063	--	--	--	--	--	<0.044	<0.089	<0.017	<0.012	<0.0088	<0.056	<0.068	<0.043	<0.088	<0.096	--	--	<0.065	--	--
2,4-D	mg/kg	<0.052	<0.054	<0.061	<0.063	--	--	--	--	--	<0.22	<0.45	<0.017	<0.012	<0.0088	<0.056	<0.068	<0.22	<0.44	<0.48	--	--	<0.065	--	--
2,4-DB	mg/kg	<0.052	<0.054	<0.061	<0.063	--	--	--	--	--	<0.016	<0.034	<0.017	<0.012	<0.0088	<0.056	<0.068	<0.016	<0.033	<0.036	--	--	<0.065	--	--
Dalapon	mg/kg	<0.63	<0.65	<0.74	<0.76	--	--	--	--	--	<1.3	<2.7	<0.20	<0.14	<0.11	<0.67	<0.82	<1.3	<2.6	<2.9	--	--	<0.78	--	--
Dicamba	mg/kg	<0.052	<0.054	<0.061	<0.063	--	--	--	--	--	<0.066	<0.13	<0.017	<0.012	<0.0088	<0.056	<0.068	<0.065	<0.13	<0.14	--	--	<0.065	--	--
Dichlorprop	mg/kg	<0.052	<0.054	<0.061	<0.063	--	--	--	--	--	<0.14	<0.29	<0.017	<0.012	<0.0088	<0.056	<0.068	<0.14	<0.29	<0.31	--	--	<0.065	--	--
Dinoseb	mg/kg	<0.32	<0.32	<0.37	<0.38	--	--	--	--	--	<0.22	<0.45	<0.10	<0.069	<0.053	<0.34	<0.41	<0.22	<0.44	<0.48	--	--	<0.39	--	--
MCPA	mg/kg	<13	<13	<15	<15	--	--	--	--	--	<55	<110	<4.1	<2.8	<2.1	<13	<16	<54	<110	<120	--	--	<16	--	--
MCPP	mg/kg	<13	<13	<15	<15	--	--	--	--	--	<55	<110	<4.1	<2.8	<2.1	<13	<16	<54	<110	<120	--	--	<16	--	--
Silvex (2,4,5-TP)	mg/kg	<0.052	<0.054	<0.061	<0.063	--	--	--	--	--	<0.044	<0.089	<0.017	<0.012	<0.0088	<0.056	<0.068	<0.043	<0.088	<0.096	--	--	<0.065	--	--
Pesticides																									
4,4'-DDD	mg/kg	<0.018	<0.0038	<0.0043	<0.0044	--	--	--	--	--	<0.0018	<0.0038	<0.0035	<0.0025	<0.0040	<0.0019	<0.0023	<0.0018	<0.0037	<0.010	--	--	<0.0023	--	--
4,4'-DDE	mg/kg	<0.018	<0.0038	<0.0043	<0.0044	--	--	--	--	--	<0.0018	<0.0038	<0.0035	<0.0025	<0.0040	<0.0019	<0.0023	<0.0018	<0.0037	<0.010	--	--	<0.0023	--	--
4,4'-DDT	mg/kg	<0.018	<0.0038	<0.0043	<0.0044	--	--	--	--	--	<0.0018	<0.0038	<0.0035	<0.0025	<0.0040	<0.0019	<0.0023	<0.0018	<0.0037	<0.010	--	--	<0.0023	--	--
Aldrin	mg/kg	<0.018	<0.0038	<0.0043	<0.0044	--	--	--	--	--	<0.0018	<0.0038	<0.0035	<0.0025	<0.0040	<0.0019	<0.0023	<0.0018	<0.0037	<0.010	--	--	<0.0023	--	--
alpha-BHC	mg/kg	<0.018	<0.0038	<0.0043	<0.0044	--	--	--	--	--	<0.0018	<0.0038	<0.0035	<0.0025	<0.0040	<0.0019	<0.0023	<0.0018	<0.0037	<0.010	--	--	<0.0023	--	--
beta-BHC	mg/kg	<0.018	<0.0038	<0.0043	<0.0044	--	--	--	--	--	<0.0018	<0.0038	<0.0035	<0.0025	<0.0040	<0.0019	<0.0023	<0.0018	<0.0037	<0.010	--	--	<0.0023	--	--
Chlordane (technical)	mg/kg	<0.18	<0.038	<0.043	<0.044	--	--	--	--	--	<0.018	<0.038	<0.035	<0.025	<0.040	<0.019	<0.023	<0.018	<0.037	<0.10	--	--	<0.023	--	--
delta-BHC	mg/kg	<0.018	<0.0038	<0.0043	<0.0044	--	--	--	--	--	<0.0018	<0.0038	<0.0035	<0.0025	<0.0040	<0.0019	<0.0023	<0.0018	<0.0037	<0.010	--	--	<0.0023	--	--
Dieldrin	mg/kg	<0.018	<0.0038	<0.0043	<0.0044	--	--	--	--	--	<0.0018	<0.0038	<0.0035	<0.0025	<0.0040	<0.0019	<0.0023	<0.0018	<0.0037	<0.010	--	--	<0.0023	--	--
Endosulfan I	mg/kg	<0.018	<0.0038	<0.0043	<0.0044	--	--	--	--	--	<0.0018	<0.0038	<0.0035	<0.0025	<0.0040	<0.0019	<0.0023	<0.0018	<0.0037	<0.010	--	--	<0.0023	--	--
Endosulfan II	mg/kg	<0.018	<0.0038	<0.0043	<0.0044	--	--	--	--	--	<0.0018	<0.0038	<0.0035	<0.0025	<0.0040	<0.0019	<0.0023	<0.0018	<0.0037	<0.010	--	--	<0.0023	--	--
Endosulfan sulfate	mg/kg	<0.018	<0.0038	<0.0043	<0.0044	--	--	--	--	--	<0.0018	<0.0038	<0.0035	<0.0025	<0.0040	<0.0019	<0.0023	<0.0018	<0.0037	<0.010	--	--	<0.0023	--	--
Endrin	mg/kg	<0.018	<0.0038	<0.0043	<0.0044	--	--	--	--	--	<0.0018	<0.0038	<0.0035	<0.0025	<0.0040	<0.0019	<0.0023	<0.0018	<0.0037	<0.010	--	--	<0.0023	--	--
Endrin ketone	mg/kg	<0.018	<0.0038	<0.0043	<0.0044	--	--	--	--	--	<0.0018	<0.0038	<0.0035	<0.0025	<0.0040	<0.0019	<0.0023	<0.0018	<0.0037	<0.010	--	--	<0.0023	--	--
gamma-BHC (Lindane)	mg/kg	<0.018	<0.0038	<0.0043	<0.0044	--	--	--	--	--	<0.0018	<0.0038	<0.0035	<0.0025	<0.0040	<0.0019	<0.0023	<0.0018	<0.0037	<0.010	--	--	<0.0023	--	--
Heptachlor	mg/kg	<0.018	<0.0038	<0.0043	<0.0044	--	--	--	--	--	<0.0018	<0.0038	<0.0035	<0.0025	<0.0040	<0.0019	<0.0023	<0.0018	<0.0037	<0.010	--	--	<0.0023	--	--
Heptachlor epoxide	mg/kg	<0.018	<0.0038	<0.0043	<0.0044	--	--	--	--	--	<0.0018	<0.0038	<0.0035	<0.0025	<0.0040	<0.0019	<0.0023	<0.0018	<0.0037	<0.010	--	--	<0.0023	--	--
Hexachlorobenzene	mg/kg	<0.018	<0.0038	<0.0043	<0.0044	--	--	--	--	--	<0.0018	<0.0038	<0.0035	<0.0025	<0.0040	<0.0019	<0.0023	<0.0018	<0.0037	<0.010	--	--	<0.0023	--	--
Methoxychlor	mg/kg	<0.018	<0.0038	<0.0043	<0.0044	--	--	--	--	--	<0.0018	<0.0038	<0.0035	<0.0025	<0.0040	<0.0019	<0.0023	<0.0018	<0.0037	<0.010	--	--	<0.0023	--	--
Polychlorinated Biphenyls																									
Aroclor 1016	mg/kg	<0.132	<0.154	<0.175	<0.174	<0.135	<0.151	<0.154	<0.162	<0.162	<0.131	<0.132	<0.204	<0.237	<0.225	<0.225	<0.209	<0.129	<0.134	<0.160	<0.173	<0.161	<0.152	<0.189	<0.155
Aroclor 1221	mg/kg	<0.132	<0.154	<0.175	<0.174	<0.135	<0.151	<0.154	<0.162	<0.162	<0.131	<0.132	<0.204	<0.237	<0.225	<0.225	<0.209	<0.129	<0.134	<0.160	<0.173	<0.161	<0.152	<0.189	<0.155
Aroclor 1232	mg/kg	<0.132	<0.154	<0.175	<0.174	<0.135	<0.151	<0.154	<0.162	<0.162	<0.131	<0.132	<0.204	<0.237	<0.225	<0.225	<0.209	<0.129	<0.134	<0.160	<0.173	<0.161	<0.152	<0.189	<0.155
Aroclor 1242	mg/kg	<0.132	<0.154	<0.175	<0.174	<0.135	<0.151	<0.154	<0.162	<0.162	<0.131	<0.132	<0.204	<0.237	<0.225	<0.225	<0.209	<0.129	<0.134	<0.160	<0.173	<0.161	<0.152	<0.189	<0.155
Aroclor 1248	mg/kg	<0.132	<0.154	<0.175	<0.174	<0.135	<0.151	<0.154	<0.162	<0.162	<0.131	<0.132	<0.204	<0.237	<0.225	<0.225	<0.209	<0.129	<0.134	<0.160	<0.173	<0.161	<0.152	<0.189	<0.155
Aroclor 1254	mg/kg	0.997	<0.154	<0.175	<0.174	<0.135	<0.151	<0.154	<0.162	<0.162	0.166	3.67	<0.204	0.633	<0.225	<0.225	<0.209	<0.129	0.775	<0.160	<0.173	<0.161	<0.152	<0.189	<0.155
Aroclor 1260	mg/kg	<0.132	0.173	<0.175	<0.174	<0.135	<0.151	<0.154	<0.162	<0.162	<0.131	0.789	<0.204	<0.237	<0.225	<0.225	<0.209	<0.129	0.268	<0.160	<0.173	<0.161	<0.152	<0.189	<0.155
Aroclor 1262	mg/kg	1.16	<0.154	<0.175	<0.174	<0.135	<0.151	<0.154	<0.162	<0.162	<0.131	<0.132	<0.204	<0.237	<0.225	<0.225	<0.209	<0.129	<0.134	<0.160	<0.173	<0.161	<0.152	<0.189	<0.155
Aroclor 1268	mg/kg	<0.132	<0.154	<0.175	<0.174	<0.135	<0.151	<0.154	<0.162	<0.162	<0.131	<0.132	<0.204	<0.237	<0.225	<0.225	<0.209	<0.129	<0.134	<0.160	<0.173	<0.161	<0.152	<0.189	<0.155
Total PCBs	mg/kg	2.157	0.173	ND	ND	ND	ND	ND	ND	ND	0.166	4.459	ND	0.633	ND	ND	ND	ND	1.043	ND	ND	ND	ND	ND	ND
Total Petroleum Hydrocarbons	mg/kg	61.2	84.2	6530	495	<45.9	<50.0	<50.3	<51.0	<52.2	61	456	<39.3	4640	5960	<40.2	<44.2	67.1	527	3650	1730	58.2	<51.5	1830	<48.3
Volatile Organic Compounds (VOCs)																									
1,1,1,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.122	--	--	--	--	--	--	<0.146	--	--	--
1,1,1-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	0.363	--	--	--	--	--	--	<0.0732	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0611	--	--	--	--	--	--	<0.0732	--	--	--
1,1,2-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0611	--	--	--	--	--	--	<0.0732	--	--	--
1,1-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	0.171	--	--	--	--	--	--	<0.0732	--	--	--
1,1-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0611	--	--	--	--	--	--	<0.0732	--	--	--
1,1-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0611	--	--	--	--	--	--	<0.0732	--	--	--
1,2,3-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0611	--	--	--	--	--	--	<0.0732	--	--	--
1,2,3-Trichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0611	--	--	--	--	--	--	<0.0732	--	--	--
1,2,4-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0611	--	--	--	--	--	--	<0.0732	--	--	--
1,2,4-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	0.117	--	--	--	--	--	--	<0.0732	--	--	--
1,2-Dibromo-3-Chloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.244	--	--	--	--	--	--	<0.293	--	--	--
1,2-Dibromoethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0611	--	--	--	--	--	--	<0.0732	--	--	--
1,2-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0611	--	--	--	--	--	--	<0.0732	--	--	--
1,2-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0611	--	--	--	--	--	--	<0.0732	--	--	--
1,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0611	--	--	--	--	--	--	<0.0732	--	--	--
1,3,5-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0611	--	--	--	--	--	--	<0.0732	--	--	--
1,3-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0611	--	--	--	--	--	--	<0.0732	--	--	--
1,3-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0611	--	--	--	--	--	--	<0.0732	--	--	--
1,4-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0611	--	--	--	--	--	--	<0.0732	--	--	--
1,4-Dioxane - Screen	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<6.11	--	--	--	--	--	--	<7.32	--	--	--
2,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.122	--	--	--	--	--	--	<0.146	--	--	--
2-Butanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.244	--	--	--	--	--	--	<0.293	--	--	--
2-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0611	--	--	--	--	--	--	<0.0732	--	--	--
2-Hexanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.244	--	--	--	--	--	--	<0.293	--	--	--
4-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0611	--	--	--	--	--	--	<0.0732	--	--	--
4-Isopropyltoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	0.136	--	--	--	--	--	--	<0.0732	--	--	--
4-Methyl-2-Pentanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.244	--	--	--	--	--	--	<0.293	--	--	--
Acetone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.244	--	--	--	--	--	--	0.442	--	--	--
Benzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0745	--	--	--	--	--	--	<0.0732	--	--	--
Bromobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0611	--	--	--	--	--	--	<0.0732	--	--	--
Bromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0611	--	--	--	--	--	--	<0.0732	--	--	--
Bromodichloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0611	--	--	--	--	--	--	<0.0732	--	--	--
Bromoform	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0611	--	--	--	--	--	--	<0.0732	--	--	--
Bromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.122	--	--	--	--	--	--	<0.146	--	--	--
Carbon Disulfide	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0611	--	--	--	--	--	--	1.35	--	--	--
Carbon Tetrachloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0611	--	--	--	--	--	--	<0.0732	--	--	--

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	D15 D15S02BS04A 1502394 Fill 3.3 - 6.6 2/26/2015	D15 D15S04BS05 1502394 Fill 6.6 - 10 2/26/2015	D15 D15S06S07A 1502394 Fill 10 - 13.3 2/26/2015	D15 D15S07BS08A 1502394 Fill 13.3 - 15 2/26/2015	D15 D15S08B 1502394 Natural Sand/Gravel 15 - 16 2/26/2015	D15 D15S09 1502394 Natural Clay 19 - 21 2/26/2015	D15 D15S10 1502394 Natural Clay 24 - 26 2/26/2015	D15 D15S11 1502394 Natural Clay 29 - 31 2/26/2015	D15 D15S12S13 1502394 Natural Clay 34 - 38 2/26/2015	D16 D16S01S02A 1503115 Fill 3 - 6 3/6/2015	D16 D16S02BS03 1503115 Fill 6 - 9 3/6/2015	D16 GZ002S01S02A 1410404 Fill 0 - 3.3 10/15/2014	D16 GZ002S02BS06 1410404 Fill 3.3 - 12 10/15/2014	D16 GZ002S07S09 1410404 Fill 12 - 18 10/15/2014	D16 GZ002S12S13 1410450 Natural Sand/Gravel 24 - 31 10/16/2014	D16 GZ002S14S16 1410451 Natural Sand/Gravel 34 - 46 10/16/2014	D17 D17S01S02A 1502080 Fill 0 - 3.3 2/5/2015	D17 D17S02BS04A 1502080 Fill 3.3 - 6.6 2/5/2015	D17 D17S04BS05 1502080 Fill 6.6 - 10 2/5/2015	D17 D17S06S07 1502080 Natural Organics 10 - 14 2/5/2015	D17 D17S08 1502103 Natural Organics 14 - 16 2/6/2015	D17 D17S09 1502103 Natural Organics 19 - 21 2/6/2015	D17 D17S10 1502103 Natural Organics 24 - 26 2/6/2015	D17 D17S11 1502103 Natural Clay 29 - 31 2/6/2015
Preliminary Disposal Facility Category		Hazardous Material Type A	MCP Regulated Material Type B-2	Hazardous Material Type B	Hazardous Material Type B	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Restricted	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	Hazardous Material Type B	Hazardous Material Type B	Uncontaminated	Uncontaminated	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A
Chlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0611	--	--	--	--	--	--	<0.0732	--	--	--
Chloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.122	--	--	--	--	--	--	<0.146	--	--	--
Chloroform	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0611	--	--	--	--	--	--	<0.0732	--	--	--
Chloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.122	--	--	--	--	--	--	<0.146	--	--	--
cis-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0611	--	--	--	--	--	--	<0.0732	--	--	--
cis-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0611	--	--	--	--	--	--	<0.0732	--	--	--
Dibromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0611	--	--	--	--	--	--	<0.0732	--	--	--
Dibromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0611	--	--	--	--	--	--	<0.0732	--	--	--
Dichlorodifluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0611	--	--	--	--	--	--	<0.0732	--	--	--
Diethyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0611	--	--	--	--	--	--	<0.0732	--	--	--
Di-isopropyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0611	--	--	--	--	--	--	<0.0732	--	--	--
Ethyl tertiary-butyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0611	--	--	--	--	--	--	<0.0732	--	--	--
Ethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	0.15	--	--	--	--	--	--	<0.0732	--	--	--
Hexachlorobutadiene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0611	--	--	--	--	--	--	<0.0732	--	--	--
Isopropylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0611	--	--	--	--	--	--	<0.0732	--	--	--
Methyl tert-Butyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0611	--	--	--	--	--	--	<0.0732	--	--	--
Methylene Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.244	--	--	--	--	--	--	<0.293	--	--	--
Naphthalene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	0.396	--	--	--	--	--	--	<0.0732	--	--	--
n-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0611	--	--	--	--	--	--	<0.0732	--	--	--
n-Propylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0611	--	--	--	--	--	--	<0.0732	--	--	--
sec-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0611	--	--	--	--	--	--	<0.0732	--	--	--
Styrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0611	--	--	--	--	--	--	<0.0732	--	--	--
tert-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0611	--	--	--	--	--	--	<0.0732	--	--	--
Tertiary-amyl methyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0611	--	--	--	--	--	--	<0.0732	--	--	--
Tetrachloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0611	--	--	--	--	--	--	<0.0732	--	--	--
Tetrahydrofuran	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.244	--	--	--	--	--	--	<0.293	--	--	--
Toluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	0.211	--	--	--	--	--	--	<0.0732	--	--	--
trans-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0611	--	--	--	--	--	--	<0.0732	--	--	--
trans-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0611	--	--	--	--	--	--	<0.0732	--	--	--
Trichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0611	--	--	--	--	--	--	<0.0732	--	--	--
Trichlorofluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0611	--	--	--	--	--	--	<0.0732	--	--	--
Vinyl Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0611	--	--	--	--	--	--	<0.0732	--	--	--
Xylene O	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0855	--	--	--	--	--	--	<0.0732	--	--	--
Xylene P,M	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	0.294	--	--	--	--	--	--	<0.146	--	--	--
Xylenes (Total)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	0.38	--	--	--	--	--	--	<0.146	--	--	--
Total VOCs	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	2.378	--	--	--	--	--	--	1.792	--	--	--
Volatile Organic Compounds - Low Level Analysis																									
1,1,1,2-Tetrachloroethane	mg/kg	<0.0050	<0.0064	<0.0065	<0.0060	<0.0049	<0.0054	<0.0044	<0.0053	<0.0047	<0.0039	<0.0059	<0.0022	<0.0044	<0.0048	<0.0055	<0.0019	<0.0038	<0.0047	<0.0053	<0.0057	<0.0045	<0.0043	<0.0050	<0.0035
1,1,1-Trichloroethane	mg/kg	<0.0050	<0.0064	<0.0065	0.0078	<0.0049	<0.0054	<0.0044	<0.0053	<0.0047	<0.0039	<0.0059	<0.0022	<0.0044	0.0132	<0.0055	<0.0019	<0.0038	<0.0047	<0.0053	<0.0057	<0.0045	<0.0043	<0.0050	<0.0035
1,1,2,2-Tetrachloroethane	mg/kg	<0.0020	<0.0026	<0.0026	<0.0024	<0.0020	<0.0022	<0.0018	<0.0021	<0.0019	<0.0016	<0.0023	<0.0009	<0.0018	<0.0019	<0.0022	<0.0007	<0.0015	<0.0019	<0.0021	<0.0023	<0.0018	<0.0017	<0.0020	<0.0014
1,1,2-Trichloroethane	mg/kg	<0.0050	<0.0064	<0.0065	<0.0060	<0.0049	<0.0054	<0.0044	<0.0053	<0.0047	<0.0039	<0.0059	<0.0022	<0.0044	<0.0048	<0.0055	<0.0019	<0.0038	<0.0047	<0.0053	<0.0057	<0.0045	<0.0043	<0.0050	<0.0035
1,1-Dichloroethane	mg/kg	<0.0050	<0.0064	0.0305	0.0123	<0.0049	<0.0054	<0.0044	<0.0053	<0.0047	<0.0039	<0.0059	<0.0022	<0.0044	0.0168	<0.0055	<0.0019	<0.0038	<0.0047	<0.0053	<0.0057	<0.0045	<0.0043	<0.0050	<0.0035
1,1-Dichloroethene	mg/kg	<0.0050	<0.0064	<0.0065	<0.0060	<0.0049	<0.0054	<0.0044	<0.0053	<0.0047	<0.0039	<0.0059	<0.0022	<0.0044	<0.0048	<0.0055	<0.0019	<0.0038	<0.0047	<0.0053	<0.0057	<0.0045	<0.0043	<0.0050	<0.0035
1,1-Dichloropropene	mg/kg	<0.0050	<0.0064	<0.0065	<0.0060	<0.0049	<0.0054	<0.0044	<0.0053	<0.0047	<0.0039	<0.0059	<0.0022	<0.0044	<0.0048	<0.0055	<0.0019	<0.0038	<0.0047	<0.0053	<0.0057	<0.0045	<0.0043	<0.0050	<0.0035
1,2,3-Trichlorobenzene	mg/kg	<0.0050	<0.0064	<0.0065	<0.0060	<0.0049	<0.0054	<0.0044	<0.0053	<0.0047	<0.0039	<0.0059	<0.0022	<0.0044	<0.0048	<0.0055	<0.0019	<0.0038	<0.0047	<0.0053	<0.0057	<0.0045	<0.0043	<0.0050	<0.0035
1,2,3-Trichloropropane	mg/kg	<0.0050	<0.0064	<0.0065	<0.0060	<0.0049	<0.0054	<0.0044	<0.0053	<0.0047	<0.0039	<0.0059	<0.0022	<0.0044	<0.0048	<0.0055	<0.0019	<0.0038	<0.0047	<0.0053	<0.0057	<0.0045	<0.0043	<0.0050	<0.0035
1,2,4-Trichlorobenzene	mg/kg	<0.0050	<0.0064	<0.0065	<0.0060	<0.0049	<0.0054	<0.0044	<0.0053	<0.0047	<0.0039	<0.0059	<0.0022	<0.0044	<0.0048	<0.0055	<0.0019	<0.0038	<0.0047	<0.0053	<0.0057	<0.0045	<0.0043	<0.0050	<0.0035
1,2,4-Trimethylbenzene	mg/kg	<0.0050	<0.0064	<0.0065	<0.0060	<0.0049	<0.0054	<0.0044	<0.0053	<0.0047	<0.0039	<0.0059	<0.0022	<0.0044	0.113	<0.0055	<0.0019	<0.0038	<0.0047	<0.0053	<0.0057	<0.0045	<0.0043	<0.0050	<0.0035
1,2-Dibromo-3-Chloropropane	mg/kg	<0.0050	<0.0064	<0.0065	<0.0060	<0.0049	<0.0054	<0.0044	<0.0053	<0.0047	<0.0039	<0.0059	<0.0022	<0.0044	<0.0048	<0.0055	<0.0019	<0.0038	<0.0047	<0.0053	<0.0057	<0.0045	<0.0043	<0.0050	<0.0035
1,2-Dibromoethane	mg/kg	<0.0050	<0.0064	<0.0065	<0.0060	<0.0049	<0.0054	<0.0044	<0.0053	<0.0047	<0.0039	<0.0059	<0.0022	<0.0044	<0.0048	<0.0055	<0.0019	<0.0038	<0.0047	<0.0053	<0.0057	<0.0045	<0.0043	<0.0050	<0.0035
1,2-Dichlorobenzene	mg/kg	<0.0050	<0.0064	<0.0065	<0.0060	<0.0049	<0.0054	<0.0044	<0.0053	<0.0047	<0.0039	<0.0059	<0.0022	<0.0044	<0.0048	<0.0055	<0.0019	<0.0038	<0.0047	<0.0053	<0.0057	<0.0045	<0.0043	<0.0050	<0.0035
1,2-Dichloroethane	mg/kg	<0.0050	<0.0064	<0.0065	<0.0060	<0.0049	<0.0054	<0.0044	<0.0053	<0.0047	<0.0039	<0.0059	<0.0022	<0.0044	<0.0048	<0.0055	<0.0019	<0.0038	<0.0047	<0.0053	<0.0057	<0.0045	<0.0043	<0.0050	<0.0035
1,2-Dichloropropane	mg/kg	<0.0050	<0.0064	<0.0065	<0.0060	<0.0049	<0.0054	<0.0044	<0.0053	<0.0047	<0.0039	<0.0059	<0.0022	<0.0044	<0.0048	<0.0055	<0.0019	<0.0038	<0.0047	<0.0053	<0.0057	<0.0045	<0.0043	<0.0050	<0.0035
1,3,5-Trimethylbenzene	mg/kg	<0.0050	<0.0064	<0.0065	<0.0060	<0.0049	<0.0054	<0.0044	<0.0053	<0.0047	<0.0039	<0.0059	<0.0022	<0.0044	0.0501	<0.0055	<0.0019	<0.0038	<0.0047	<0.0053	<0.0057	<0.0045	<0.0043	<0.0050	<0.0035
1,3-Dichlorobenzene	mg/kg	<0.0050	<0.0064	<0.0065	<0.0060	<0.0049	<0.0054	<0.0044	<0.0053	<0.0047	<0.0039	<0.0059	<0.0022	<0.0044	<0.0048	<0.0055	<0.0019	<0.0038	<0.0047	<0.0053	<0.0057	<0.0045	<0.0043	<0.0050	<0.0035
1,3-Dichloropropane	mg/kg	<0.0050	<0.0064	<0.0065	<0.0060	<0.0049	<0.0054	<0.0044	<0.0053	<0.0047	<0.0039	<0.0059	<0.0022	<0.0044	<0.0048	<0.0055	<0.0019	<0.0038	<0.0047	<0.0053	<0.0057	<0.0045	<0.0043	<0.0050	<0.0035
1,4-Dichlorobenzene	mg/kg	<0.0050	<0.0064	<0.0065	<0.0060	<0.0049	<0.0054	<0.0044	<0.0053	<0.0047	<0.0039	<0.0059	<0.0022	<0.0044	<0.0048	<0.0055	<0.0019	<0.0038	<0.0047	<0.0053	<0.0057	<0.0045	<0.0043	<0.0050	<0.0035
1,4-Dioxane	mg/kg	<0.100	<0.128	<0.130	<0.121	<0.0990	<0.109	<0.0881	<0.105	<0.0945	<0.0784	<0.117	<0.0438	<0.0875	<0.0968	<0.110	<0.0373	<0.0767	<0.0937	<0.107	<0.114	<0.0906	<0.0854	<0.101	<0.0706
2,2-Dichloropropane	mg/kg	<0.0050	<0.0064	<0.0065	<0.0060	<0.0049	<0.0054	<0.0044	<0.0053	<0.0047	<0.0039	<0.0059	<0.0022	<0.0044	<0.0048	<0.0055	<0.0019	<0.0038	<0.0047	<0.0053	<0.0057	<0.0045	<0.0043	<0.0050	<0.0035
2-Butanone	mg/kg	<0.0100	<0.0128	<0.0130	<0.0121	<0.0099	<0.0109	<0.0088	<0.0105	<0.0095	<0.0078	<0.0117	<0.0044	<0.0088	0.0761	<0.0110	<0.0037	<0.0077	<0.0094	<0.0107	<0.0114	0.0156	0.0931	0.0188	<0.0071
2-Chlorotoluene	mg/kg	<0.0050	<0.0064	<0.0065	<0.0060	<0.0049	<0.0054	<0.0044	<0.0053	<0.0047	<0.0039	<0.0059	<0.0022	<0.0044	<0.0048	<0.0055	<0.0019	<0.0038	<0.0047	<0.0053	<0.0057	<0.0045	<0.0043	<0.0050	<0.0035
2-Hexanone	mg/kg	<0.0100	<0.0128	<0.0130	<0.0121	<0.0099	<0.0109	<0.0088	<0.0105	<0.0095	<0.0078	<0.0117	<0.0044	<0.0088	<0.0097	<0.0110	<0.0037	<0.0077	<0.0094	<0.0107	<0.0114	<0.0091	<0.0085	<0.0101	<0.0071
4-Chlorotoluene	mg/kg	<0.0050	<0.0064	<0.0065	<0.0060	<0.0049	<0.0054	<0.0044	<0.0053	<0.0047	<0.0039	<0.0059	<0.0022	<0.0044	<0.0048	<0.0055	<0.0019	<0.0038	<0.0047	<0.0053	<0.0057	<0.0045	<0.0043	<0.0050	<0.0035
4-Isopropyltoluene	mg/kg	<0.0050	<0.0064	<0.0065	<0.0060	<0.0049	<0.0054	<0.0044	<0.0053	<0.0047	<0.0039	<0.0059	<0.0022	<0.0044	0.151	<0.0055	<0.0019	<0.0038	<0.0047	<0.0053	0.0154	<0.0045	<0.0043	<0.0050	<0.0035
4-Methyl-2-Pentanone	mg/kg	<0.0100	<0.0128	<0.0130	<0.0121	<0.0099	<0.0109	<0.0088	<0.0105	<0.0095	<0.0078	<0.0117	<0.0044	<0.0088	<0.0097	<0.0110	<0.0037	<0.0077	<0.0094	<0.0107	<0.0114	<0.0091	<0.0085	<0.0101	<0.0071
Acetone	mg/kg	<0.0100	0.0321	0.0204	<0.0121	0.0654	<0.0109	0.0155	<0.0105	<0.0095	0.0178	0.063	<0.0044	0.0245	0.109	<0.0110	<0.0037	<0.0077	<0.0094	0.0163	0.0213	0.124	0.34	0.132	<0.0071
Benzene	mg/kg	<0.0050	<0.0064	<0.0065	<0.0060	<0.0049	<0.0054	<0.0044	<0.0053	<0.0047	<0.0039	<0.0059	<0.0022	<0.0044	<0.0048	<0.0055	<0.0019	<0.0038	<0.0047	<0.0053	<0.0057	<0.0045	<0.0043	<0.0050	<0.0035
Bromobenzene	mg/kg	<0.0050	<0.0064	<0.0065	<0.0060	<0.0049	<0.0054	<0.0044	<0.0053	<0.0047	<0.0039	<0.0059	<0.0022	<0.0044	<0.0048	<0.0055	<0.0019	<0.0038	<0.0047	<0.0053	<0.0057	<0.0045	<0.0043	<0.0050	<0.0035
Bromochloromethane	mg/kg	<0.0050	<0.0064	<0.0065	<0.0060	<0.0049	<0.0054	<0.0044	<0.0053	<0.0047	<0.0039	<0.0059	<0.0022	<0.0044	<0.0048	<0.0055	<0.0019	<0.0038	<0.0047	<0.0053	<0.0057	<0.0045	<0.0043	<0.0050	<0.0035
Bromodichloromethane	mg/kg	<0.0050	<0.0064	<0.0065	<0.0060	<0.0049	<0.0054	<0.0044	<0.0053	<0.0047	<0.0039	<0.0059	<0.0022	<0.0044	<0.0048	<0.0055	<0.0019	<0.0038	<0.0047	<0.0053	<0.0057	<0.0045	<0.0043	<0.0050	<0.0035
Bromoform	mg/kg	<0.0050	<0.0064	<0.0065	<0.0060	<0.0049	<0.0054	<0.0044	<0.0053	<0.0047	<0.0039	<0.0059	<0.0022	<0.0044	<0.0048	<0.0055	<0.0019	<0.0038	<0.0047	<0.0053	<0.0057	<0.0045	<0.0043	<0.0050	<0.0035
Bromomethane	mg/kg	<0.0100	<0.0128	<0.0130	<0.0121	<0.0099	<0.0109	<0.0088	<0.0105	<0.0095	<0.0078	<0.0117	<0.0044	<0.0088	<0.0097	<0.0110	<0.0037	<0.0077	<0.0094	<0.0107	<0.0114	<0.0091	<0.0085	<0.0101	<0.0071
Carbon Disulfide	mg/kg	<0.0050	<0.0064	<0.0065	<0.0060	<0.0049	<0.0054	<0.0044	<0.0053	<0.0047	<0.0039	<0.0059	<0.0022	<0.0044	0.0085	<0.0055	<0.0019	<0.0038	<0.0047	0.0205	0.156	0.334	0.0076	<0.0050	<0.0035
Carbon Tetrachloride	mg/kg	<0.0050	<0.0064	<0.0065	<0.0060	<0.0049	<0.0054	<0.0044	<0.0053	<0.0047	<0.0039	<0.0059	<0.0022	<0.0044	<0.0048	<0.0055	<0.0019	<0.0038	<0.0047	<0.0053	<0.0057	<0.0045	<0.0043	<0.0050	<0.0035
Chlorobenzene	mg/kg	<0.0050	<0.0064	<0.0065	<0.0060	<0.0049	<0.0054	<0.0044	<0.0053	<0.0047	<0.0039	<0.0059	<0.0022	<0.0044	<0.0048	<0.0055	<0.0019	<0.0038	<0.0047	<0.0053	<0.0057	<0.0045	<0.0043	<0.0050	<0.0035
Chloroethane	mg/kg	<0.0100	<0.0128	<0.0130	<0.0121	<0.0099	<0.0109	<0.0088	<0.0105	<0.0095	<0.0078	<0.0117	<0.0044	<0.0088	<0.0097	<0.0110	<0.0037	<0.0077	<0.0094	<0.0107	<0.0114	<0.0091	<0.0085	<0.0101	<0.0071
Chloroform	mg/kg	<0.0050	<0.0064	<0.0065	<0.0060	<0.0049	<0.0054	<0.0044	<0.0053	<0.0047	<0.0039	<0.0059	<0.0022	<0.0044	<0.0048	<0.0055	<0.0019	<0.0038	<0.0047	<0.0053	<0.0057	<0.0045	<0.0043	<0.0050	<0.0035
Chloromethane	mg/kg	<0.0100	<0.0128	<0.0130	<0.0121	<0.0099	<0.0109	<0.0088	<0.0105	<0.0095	<0.0078	<0.0117	<0.0044	<0.0088	<0.0097	<0.0110	<0.0037	<0.0077	<0.0094	<0.0107	<0.0114	<0.0091	<0.0085	<0.0101	<0.0071
cis-1,2-Dichloroethene	mg/kg	<0.0050	<0.0064	<0.0065	<0.0060	<0.0049	<0.0054	<0.0044	<0.0053	<0.0047	<0.0039	<0.0059	<0.0022	<0.0044	<0.0048	<0.0055	<0.0019	<0.0038	<0.0047	<0.0053	<0.0057	<0.0045	<0.0043	<0.0050	<0.0035
cis-1,3-Dichloropropene	mg/kg	<0.0050	<0.0064	<0.0065	<0.0060	<0.0049	<0.0054	<0.0044	<0.0053	<0.0047	<0.0039	<0.0059	<0.0022	<0.0044	<0.0048	<0.0055	<0.0019	<0.0038	<0.0047	<0.0053	<0.0057	<0.0045	<0.0043	<0.0050	<0.0035
Dibromochloromethane	mg/kg	<0.0020	<0.0026	<0.0026	<0.0024	<0.0020	<0.0022	<0.0018	<0.0021	<0.0019	<0.0016	<0.0023	<0.0009	<0.0018	<0.0019	<0.0022	<0.0007	<0.0015	<0.0019	<0.0021	<0.0023	<0.0018	<0.0017	<0.0020	<0.0014
Dibromomethane	mg/kg	<0.0050	<0.0064	<0.0065	<0.0060	<0.0049	<0.0054	<0.0044	<0.0053	<0.0047	<0.0039	<0.0059	<0.0022	<0.0044	<0.0048	<0.0055	<0.0019	<0.0038	<0.0047	<0.0053	<0.0057	<0.0045	<0.0043	<0.0050	<0.0035
Dichlorodifluoromethane	mg/kg	<0.0100	<0.0128	<0.0130	<0.0121	<0.0099	<0.0109	<0.0088	<0.0105	<0.0095	<0.0078	<0.0117	<0.0044	<0.0088	<0.0097	<0.0110	<0.0037	<0.0077	<0.0094	<0.0107	<0.0114	<0.0091	<0.0085	<0.0101	<0.0071
Diethyl Ether	mg/kg	<0.0050	<0.0064	<0.0065	<0.0060	<0.0049	<0.0054	<0.0044	<0.0053	<0.0047	<0.0039	<0.0059	<0.0022	<0.0044	<0.0048	<0.0055	<0.0019	<0.0038	<0.0047	<0.0053	<0.0057	<0.0045	<0.0043	<0.0050	<0.0035
Di-isopropyl ether	mg/kg	<0.0050	<0.0064	<0.0065	<0.0060	<0.0049	<0.0054	<0.0044	<0.0053	<0.0047	<0.0039	<0.0059	<0.0022	<0.0044	<0.0048	<0.0055	<0.0019	<0.0038	<0.0047	<0.0053	<0.0057	<0.0045	<0.0043	<0.0050	<0.0035
Ethyl tertiary-butyl ether	mg/kg	<0.0050	<0.0064	<0.0065	<0.0060	<0.0049	<0.0054	<0.0044	<0.0053	<0.0047	<0.0039	<0.0059	<0.0022	<0.0044	<0.0048	<0.0055	<0.0019	<0.0038	<0.0047	<0.0053	<0.0057	<0.0045	<0.0043	<0.0050	<0.0035
Ethylbenzene	mg/kg	<0.0050	<0.0064	<0.0065	<0.0060	<0.0049	<0.0054	<0.0044	<0.0053	<0.0047	<0.0039	<0.0059	<0.0022	<0.0044	0.027	<0.0055	<0.0019	<0.0038	<0.0047	<0.0053	<0.0057	<0.0045	<0.0043	<0.0050	<0.0035
Hexachlorobutadiene	mg/kg	<0.0050	<0.0064	<0.0065	<0.0060	<0.0049	<0.0054	<0.0044	<0.0053	<0.0047	<0.0039	<0.0059	<0.0022	<0.0044	<0.0048	<0.0055	<0.0019	<0.0038	<0.0047	<0.0053	<0.0057	<0.0045	<0.0043	<0.0050	<0.0035
Isopropylbenzene	mg/kg	<0.0050	<0.0064	<0.0065	<0.0060	<0.0049	<0.0054	<0.0044	<0.0053	<0.0047	<0.0039	<0.0059	<0.0022	<0.0044	0.113	<0.0055	<0.0019	<0.0038	<0.0047	<0.0053	<0.0057	<0.0045	<0.0043	<0.0050	<0.0035
Methyl tert-Butyl Ether	mg/kg	<0.0050	<0.0064	<0.0065	<0.0060	<0.0049	<0.0054	<0.0044	<0.0053	<0.0047	<0.0039	<0.0059	<0.0022	<0.0044	<0.0048	<0.0055	<0.0019	<0.0038	<0.0047	<0.0053	<0.0057	<0.0045	<0.0043	<0.0050	<0.0035
Methylene Chloride	mg/kg	<0.0100	<0.0128	<0.0130	<0.0121	<0.0099	<0.0109	<0.0088	<0.0105	<0.0095	<0.0078	<0.0117	<0.0044	<0.0088	<0.0097	<0.0110	<0.0037	<0.0077	<0.0094	<0.0107	<0.0114	<0.0091	<0.0085	<0.0101	<0.0071
Naphthalene	mg/kg	<0.0050	0.0093	<0.0065	<0.0060	<0.0049	<0.0054	<0.0044	<0.0053	<0.0047	0.0115	0.0066	<0.0022	<0.0044	0.0518	<0.0055	<0.0019	<0.0038	<0.0047	0.17	0.0271	<0.0045	<0.0043	0.0122	<0.0035
n-Butylbenzene	mg/kg	<0.0050	<0.0064	<0.0065	<0.0060	<0.0049	<0.0054	<0.0044	<0.0053	<0.0047	<0.0039	<0.0059	<0.0022	<0.0044	<0.0048	<0.0055	<0.0019	<0.0038	<0.0047	<0.0053	<0.0057	<0.0045	<0.0043	<0.0050	<0.0035
n-Propylbenzene	mg/kg	<0.0050	<0.0064	<0.0065	<0.0060	<0.0049	<0.0054	<0.0044	<0.0053	<0.0047	<0.0039	<0.0059	<0.0022	<0.0044	0.0544	<0.0055	<0.0019	<0.0038	<0.0047	<0.0053	<0.0057	<0.0045	<0.0043	<0.0050	<0.0035
sec-Butylbenzene	mg/kg	<0.0050	<0.0064	<0.0065	<0.0060	<0.0049	<0.0054	<0.0044	<0.0053	<0.0047	<0.0039	<0.0059	<0.0022	<0.0044

Table 1
Soil Precharacterization Data

Wynn Resort Casino
Everett, Massachusetts

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	D15 D15S02BS04A 1502394 Fill 3.3 - 6.6 2/26/2015	D15 D15S04BS05 1502394 Fill 6.6 - 10 2/26/2015	D15 D15S06S07A 1502394 Fill 10 - 13.3 2/26/2015	D15 D15S07BS08A 1502394 Fill 13.3 - 15 2/26/2015	D15 D15S08B 1502394 Natural Sand/Gravel 15 - 16 2/26/2015	D15 D15S09 1502394 Natural Clay 19 - 21 2/26/2015	D15 D15S10 1502394 Natural Clay 24 - 26 2/26/2015	D15 D15S11 1502394 Natural Clay 29 - 31 2/26/2015	D15 D15S12S13 1502394 Natural Clay 34 - 38 2/26/2015	D16 D16S01S02A 1503115 Fill 3 - 6 3/6/2015	D16 D16S02BS03 1503115 Fill 6 - 9 3/6/2015	D16 GZ002S01S02A 1410404 Fill 0 - 3.3 10/15/2014	D16 GZ002S02BS06 1410404 Fill 3.3 - 12 10/15/2014	D16 GZ002S07S09 1410404 Fill 12 - 18 10/15/2014	D16 GZ002S12S13 1410450 Natural Sand/Gravel 24 - 31 10/16/2014	D16 GZ002S14S16 1410451 Natural Sand/Gravel 34 - 46 10/16/2014	D17 D17S01S02A 1502080 Fill 0 - 3.3 2/5/2015	D17 D17S02BS04A 1502080 Fill 3.3 - 6.6 2/5/2015	D17 D17S04BS05 1502080 Fill 6.6 - 10 2/5/2015	D17 D17S06S07 1502080 Natural Organics 10 - 14 2/5/2015	D17 D17S08 1502103 Natural Organics 14 - 16 2/6/2015	D17 D17S09 1502103 Natural Organics 19 - 21 2/6/2015	D17 D17S10 1502103 Natural Organics 24 - 26 2/6/2015	D17 D17S11 1502103 Natural Clay 29 - 31 2/6/2015
Preliminary Disposal Facility Category		Hazardous Material Type A	MCP Regulated Material Type B-2	Hazardous Material Type B	Hazardous Material Type B	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Restricted	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	Hazardous Material Type B	Hazardous Material Type B	Uncontaminated	Uncontaminated	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A
Styrene	mg/kg	<0.0050	<0.0064	<0.0065	<0.0060	<0.0049	<0.0054	<0.0044	<0.0053	<0.0047	<0.0039	<0.0059	<0.0022	<0.0044	<0.0048	<0.0055	<0.0019	<0.0038	<0.0047	0.0173	<0.0057	<0.0045	<0.0043	<0.0050	<0.0035
tert-Butylbenzene	mg/kg	<0.0050	<0.0064	<0.0065	<0.0060	<0.0049	<0.0054	<0.0044	<0.0053	<0.0047	<0.0039	<0.0059	<0.0022	<0.0044	0.0127	<0.0055	<0.0019	<0.0038	<0.0047	<0.0053	<0.0057	<0.0045	<0.0043	<0.0050	<0.0035
Tertiary-amyl methyl ether	mg/kg	<0.0050	<0.0064	<0.0065	<0.0060	<0.0049	<0.0054	<0.0044	<0.0053	<0.0047	<0.0039	<0.0059	<0.0022	<0.0044	<0.0048	<0.0055	<0.0019	<0.0038	<0.0047	<0.0053	<0.0057	<0.0045	<0.0043	<0.0050	<0.0035
Tetrachloroethene	mg/kg	<0.0050	<0.0064	<0.0065	<0.0060	<0.0049	<0.0054	<0.0044	<0.0053	<0.0047	<0.0039	<0.0059	<0.0022	<0.0044	<0.0048	<0.0055	<0.0019	<0.0038	<0.0047	<0.0053	<0.0057	<0.0045	<0.0043	<0.0050	<0.0035
Tetrahydrofuran	mg/kg	<0.0050	<0.0064	<0.0065	<0.0060	<0.0049	<0.0054	<0.0044	<0.0053	<0.0047	<0.0039	<0.0059	<0.0022	<0.0044	<0.0048	<0.0055	<0.0019	<0.0038	<0.0047	<0.0053	<0.0057	<0.0045	<0.0043	<0.0050	<0.0035
Toluene	mg/kg	<0.0050	<0.0064	<0.0065	<0.0060	<0.0049	<0.0054	<0.0044	<0.0053	<0.0047	<0.0039	<0.0059	<0.0022	<0.0044	0.0119	<0.0055	<0.0019	<0.0038	<0.0047	<0.0053	<0.0057	<0.0045	<0.0043	<0.0050	<0.0035
trans-1,2-Dichloroethene	mg/kg	<0.0050	<0.0064	<0.0065	<0.0060	<0.0049	<0.0054	<0.0044	<0.0053	<0.0047	<0.0039	<0.0059	<0.0022	<0.0044	<0.0048	<0.0055	<0.0019	<0.0038	<0.0047	<0.0053	<0.0057	<0.0045	<0.0043	<0.0050	<0.0035
trans-1,3-Dichloropropene	mg/kg	<0.0050	<0.0064	<0.0065	<0.0060	<0.0049	<0.0054	<0.0044	<0.0053	<0.0047	<0.0039	<0.0059	<0.0022	<0.0044	<0.0048	<0.0055	<0.0019	<0.0038	<0.0047	<0.0053	<0.0057	<0.0045	<0.0043	<0.0050	<0.0035
Trichloroethene	mg/kg	<0.0050	<0.0064	<0.0065	<0.0060	<0.0049	<0.0054	<0.0044	<0.0053	<0.0047	<0.0039	<0.0059	<0.0022	<0.0044	<0.0048	<0.0055	<0.0019	<0.0038	<0.0047	<0.0053	<0.0057	<0.0045	<0.0043	<0.0050	<0.0035
Trichlorofluoromethane	mg/kg	<0.0050	<0.0064	<0.0065	<0.0060	<0.0049	<0.0054	<0.0044	<0.0053	<0.0047	<0.0039	<0.0059	<0.0022	<0.0044	<0.0048	<0.0055	<0.0019	<0.0038	<0.0047	<0.0053	<0.0057	<0.0045	<0.0043	<0.0050	<0.0035
Vinyl Chloride	mg/kg	<0.0100	<0.0128	<0.0130	<0.0121	<0.0099	<0.0109	<0.0088	<0.0105	<0.0095	<0.0078	<0.0117	<0.0044	<0.0088	<0.0097	<0.0110	<0.0037	<0.0077	<0.0094	<0.0107	<0.0114	<0.0091	<0.0085	<0.0101	<0.0071
Xylene O	mg/kg	<0.0050	<0.0064	<0.0065	<0.0060	<0.0049	<0.0054	<0.0044	<0.0053	<0.0047	<0.0039	<0.0059	<0.0022	<0.0044	0.0172	<0.0055	<0.0019	<0.0038	<0.0047	<0.0053	<0.0057	<0.0045	<0.0043	<0.0050	<0.0035
Xylene P,M	mg/kg	<0.0100	<0.0128	<0.0130	<0.0121	<0.0099	<0.0109	<0.0088	<0.0105	<0.0095	<0.0078	<0.0117	<0.0044	<0.0088	0.04	<0.0110	<0.0037	<0.0077	<0.0094	<0.0107	<0.0114	<0.0091	<0.0085	<0.0101	<0.0071
Xylenes (Total)	mg/kg	<0.0100	<0.0128	<0.0130	<0.0121	<0.0099	<0.0109	<0.0088	<0.0105	<0.0095	<0.0078	<0.0117	<0.0044	<0.0088	0.0571	<0.0110	<0.0037	<0.0077	<0.0094	<0.0107	<0.0114	<0.0091	<0.0085	<0.0101	<0.0071
Total VOCs (Low Level)	mg/kg	ND	0.0414	0.0509	0.0201	0.0654	ND	0.0155	ND	ND	0.0293	0.0696	ND	0.0245	0.985	ND	ND	ND	ND	0.2241	0.2198	0.4736	0.4407	0.163	ND
Semi-Volatile Organic Compounds																									
1,2,4-Trichlorobenzene	mg/kg	<0.880	<0.955	<1.17	<1.11	<0.916	<1.05	<1.05	<1.06	<1.10	<0.858	<0.868	<0.826	<0.973	<1.03	<0.909	<0.897	<0.844	<0.853	<1.05	<1.19	<1.07	<1.07	<1.18	<1.00
1,2-Dichlorobenzene	mg/kg	<0.880	<0.955	<1.17	<1.11	<0.916	<1.05	<1.05	<1.06	<1.10	<0.858	<0.868	<0.826	<0.973	<1.03	<0.909	<0.897	<0.844	<0.853	<1.05	<1.19	<1.07	<1.07	<1.18	<1.00
1,3-Dichlorobenzene	mg/kg	<0.880	<0.955	<1.17	<1.11	<0.916	<1.05	<1.05	<1.06	<1.10	<0.858	<0.868	<0.826	<0.973	<1.03	<0.909	<0.897	<0.844	<0.853	<1.05	<1.19	<1.07	<1.07	<1.18	<1.00
1,4-Dichlorobenzene	mg/kg	<0.442	<0.479	<0.585	<0.558	<0.459	<0.526	<0.526	<0.531	<0.553	<0.430	<0.435	<0.414	<0.488	<0.517	<0.456	<0.450	<0.423	<0.428	<0.526	<0.595	<0.539	<0.535	<0.594	<0.504
2,4,5-Trichlorophenol	mg/kg	<0.880	<0.955	<1.17	<1.11	<0.916	<1.05	<1.05	<1.06	<1.10	<0.858	<0.868	<0.826	<0.973	<1.03	<0.909	<0.897	<0.844	<0.853	<1.05	<1.19	<1.07	<1.07	<1.18	<1.00
2,4,6-Trichlorophenol	mg/kg	<0.880	<0.955	<1.17	<1.11	<0.916	<1.05	<1.05	<1.06	<1.10	<0.858	<0.868	<0.826	<0.973	<1.03	<0.909	<0.897	<0.844	<0.853	<1.05	<1.19	<1.07	<1.07	<1.18	<1.00
2,4-Dichlorophenol	mg/kg	<0.880	<0.955	<1.17	<1.11	<0.916	<1.05	<1.05	<1.06	<1.10	<0.858	<0.868	<0.826	<0.973	<1.03	<0.909	<0.897	<0.844	<0.853	<1.05	<1.19	<1.07	<1.07	<1.18	<1.00
2,4-Dimethylphenol	mg/kg	<0.880	<0.955	<1.17	<1.11	<0.916	<1.05	<1.05	<1.06	<1.10	<0.858	<0.868	<0.826	<0.973	<1.03	<0.909	<0.897	<0.844	<0.853	<1.05	<1.19	<1.07	<1.07	<1.18	<1.00
2,4-Dinitrophenol	mg/kg	<4.42	<4.79	<5.85	<5.58	<4.59	<5.26	<5.26	<5.31	<5.53	<4.30	<4.35	<4.14	<4.88	<5.17	<4.56	<4.50	<4.23	<4.28	<5.26	<5.95	<5.39	<5.35	<5.94	<5.04
2,4-Dinitrotoluene	mg/kg	<0.880	<0.955	<1.17	<1.11	<0.916	<1.05	<1.05	<1.06	<1.10	<0.858	<0.868	<0.826	<0.973	<1.03	<0.909	<0.897	<0.844	<0.853	<1.05	<1.19	<1.07	<1.07	<1.18	<1.00
2,6-Dinitrotoluene	mg/kg	<0.880	<0.955	<1.17	<1.11	<0.916	<1.05	<1.05	<1.06	<1.10	<0.858	<0.868	<0.826	<0.973	<1.03	<0.909	<0.897	<0.844	<0.853	<1.05	<1.19	<1.07	<1.07	<1.18	<1.00
2-Chloronaphthalene	mg/kg	<0.880	<0.955	<1.17	<1.11	<0.916	<1.05	<1.05	<1.06	<1.10	<0.858	<0.868	<0.826	<0.973	<1.03	<0.909	<0.897	<0.844	<0.853	<1.05	<1.19	<1.07	<1.07	<1.18	<1.00
2-Chlorophenol	mg/kg	<0.880	<0.955	<1.17	<1.11	<0.916	<1.05	<1.05	<1.06	<1.10	<0.858	<0.868	<0.826	<0.973	<1.03	<0.909	<0.897	<0.844	<0.853	<1.05	<1.19	<1.07	<1.07	<1.18	<1.00
2-Methylnaphthalene	mg/kg	<0.880	<0.955	<1.17	<1.11	<0.916	<1.05	<1.05	<1.06	<1.10	<0.858	<0.868	<0.826	<0.973	<1.03	<0.909	<0.897	<0.844	<0.853	<1.05	<1.19	<1.07	<1.07	<1.18	<1.00
2-Methylphenol	mg/kg	<0.880	<0.955	<1.17	<1.11	<0.916	<1.05	<1.05	<1.06	<1.10	<0.858	<0.868	<0.826	<0.973	<1.03	<0.909	<0.897	<0.844	<0.853	<1.05	<1.19	<1.07	<1.07	<1.18	<1.00
2-Nitrophenol	mg/kg	<0.880	<0.955	<1.17	<1.11	<0.916	<1.05	<1.05	<1.06	<1.10	<0.858	<0.868	<0.826	<0.973	<1.03	<0.909	<0.897	<0.844	<0.853	<1.05	<1.19	<1.07	<1.07	<1.18	<1.00
3,3´-Dichlorobenzidine	mg/kg	<1.76	<1.91	<2.34	<2.23	<1.83	<2.10	<2.10	<2.12	<2.21	<1.72	<1.74	<1.65	<1.95	<2.06	<1.82	<1.80	<1.69	<1.71	<2.10	<2.38	<2.15	<2.14	<2.37	<2.01
3+4-Methylphenol	mg/kg	<1.76	<1.91	<2.34	<2.23	<1.83	<2.10	<2.10	<2.12	<2.21	<1.72	<1.74	<1.65	<1.95	<2.06	<1.82	<1.80	<1.69	<1.71	<2.10	<2.38	<2.15	<2.14	<2.37	<2.01
4-Bromophenyl-phenylether	mg/kg	<0.880	<0.955	<1.17	<1.11	<0.916	<1.05	<1.05	<1.06	<1.10	<0.858	<0.868	<0.826	<0.973	<1.03	<0.909	<0.897	<0.844	<0.853	<1.05	<1.19	<1.07	<1.07	<1.18	<1.00
4-Chloroaniline	mg/kg	<1.76	<1.91	<2.34	<2.23	<1.83	<2.10	<2.10	<2.12	<2.21	<1.72	<1.74	<1.65	<1.95	<2.06	<1.82	<1.80	<1.69	<1.71	<2.10	<2.38	<2.15	<2.14	<2.37	<2.01
4-Nitrophenol	mg/kg	<4.42	<4.79	<5.85	<5.58	<4.59	<5.26	<5.26	<5.31	<5.53	<4.30	<4.35	<4.14	<4.88	<5.17	<4.56	<4.50	<4.23	<4.28	<5.26	<5.95	<5.39	<5.35	<5.94	<5.04
Acenaphthene	mg/kg	<0.880	<0.955	<1.17	<1.11	<0.916	<1.05	<1.05	<1.06	<1.10	<0.858	<0.868	<0.826	<0.973	<1.03	<0.909	<0.897	<0.844	<0.853	<1.05	<1.19	<1.07	<1.07	<1.18	<1.00
Acenaphthylene	mg/kg	<0.880	<0.955	<1.17	<1.11	<0.916	<1.05	<1.05	<1.06	<1.10	<0.858	<0.868	<0.826	<0.973	<1.03	<0.909	<0.897	<0.844	<0.853	<1.05	<1.19	<1.07	<1.07	1.81	<1.00
Acetophenone	mg/kg	<1.76	<1.91	<2.34	<2.23	<1.83	<2.10	<2.10	<2.12	<2.21	<1.72	<1.74	<1.65	<1.95	<2.06	<1.82	<1.80	<1.69	<1.71	<2.10	<2.38	<2.15	<2.14	<2.37	<2.01
Aniline	mg/kg	<4.42	<4.79	<5.85	<5.58	<4.59	<5.26	<5.26	<5.31	<5.53	<4.30	<4.35	<4.14	<4.88	<5.17	<4.56	<4.50	<4.23	<4.28	<5.26	<5.95	<5.39	<5.35	<5.94	<5.04
Anthracene	mg/kg	<0.880	<0.955	<1.17	<1.11	<0.916	<1.05	<1.05	<1.06	<1.10	<0.858	<0.868	<0.826	<0.973	<1.03	<0.909	<0.897	<0.844	<0.853	<1.05	<1.19	<1.07	<1.07	4.24	<1.00
Azobenzene	mg/kg	<0.880	<0.955	<1.17	<1.11	<0.916	<1.05	<1.05	<1.06	<1.10	<0.858	<0.868	<0.826	<0.973	<1.03	<0.909	<0.897	<0.844	<0.853	<1.05	<1.19	<1.07	<1.07	<1.18	<1.00
Benzo(a)anthracene	mg/kg	1.46	1.26	<1.17	1.39	<0.916	<1.05	<1.05	<1.06	<1.10	<0.858	<0.868	<0.826	<0.973	<1.03	<0.909	<0.897	<0.844	1.34	<1.05	<1.19	<1.07	<1.07	7.73	<1.00
Benzo(a)pyrene	mg/kg	1.35	<0.479	<0.585	<0.558	<0.459	<0.526	<0.526	<0.531	<0.553	0.48	<0.435	<0.414	<0.488	0.705	<0.456	<0.450	<0.423	1.32	<0.526	<0.595	<0.539	<0.535	5.63	<0.504
Benzo(b)fluoranthene	mg/kg	2.01	2.33	1.3	1.91	<0.916	<1.05	<1.05	<1.06	<1.10	<0.858	<0.868	<0.826	<0.973	1.24	<0.909	<0.897	<0.844	1.81	<1.05	<1.19	<1.07	<1.07	5.62	<1.00
Benzo(g,h,i)perylene	mg/kg	<0.880	<0.955	<1.17	<1.11	<0.916	<1.05	<1.05	<1.06	<1.10	<0.858	<0.868	<0.826	<0.973	<1.03	<0.909	<0.897	<0.844	<0.853	<1.05	<1.19	<1.07	<1.07	2.22	<1.00
Benzo(k)fluoranthene	mg/kg	<0.880	<0.955	<1.17	<1.11	<0.916	<1.05	<1.05	<1.06	<1.10	<0.858	<0.868	<0.826	<0.973	<1.03	<0.909	<0.897	<0.844	<0.853	<1.05	<1.19	<1.07	<1.07	2.01	<1.00
bis(2-Chloroethoxy)methane	mg/kg	<0.880	<0.955	<1.17	<1.11	<0.916	<1.05	<1.05	<1.06	<1.10	<0.858	<0.868	<0.826	<0.973	<1.03	<0.909	<0.897	<0.844	<0.853	<1.05	<1.19	<1.07	<1.07	<1.18	<1.00
bis(2-Chloroethyl)ether	mg/kg	<0.442	<0.479	<0.585	<0.558	<0.459	<0.526	<0.526	<0.531	<0.553	<0.430	<0.435	<0.414	<0.488	<0.517	<0.456	<0.450	<0.423	<0.428	<0.526	<0.595	<0.539	<0.535	<0.594	<0.504
bis(2-chloroisopropyl)Ether	mg/kg	<0.442	<0.479	<0.585	<0.558	<0.459	<0.526	<0.526	<0.531	<0.553	<0.430	<0.435	<0.414	<0.488	<0.517	<0.456	<0.450	<0.423	<0.428	<0.526	<0.595	<0.539	<0.535	<0.594	<0.504
bis(2-Ethylhexyl)phthalate	mg/kg	<0.880	<0.955	<1.17	<1.11	<0.916	<1.05	<1.05	<1.06	<1.10	2.77	<0.868	<0.826	<0.973	<1.03	<0.909	<0.897	<0.844	1.1	<1.05	<1.19	<1.07	<1.07	<1.18	<1.00
Butylbenzylphthalate	mg/kg	<0.880	<0.955	<1.17	<1.11	<0.916	<1.05	<1.05	<1.06	<1.10	<0.858	<0.868	<0.826	<0.973	<1.03	<0.909	<0.897	<0.844	<0.853	<1.05	<1.19	<1.07	<1.07	<1.18	<1.00
Chrysene	mg/kg	1.45	2.46	1.32	2.03	<0.459	<0.526	<0.526	<0.531	<0.553	0.501	<0.435	<0.414	0.562	0.929	<0.456	<0.450	<0.423	1.33	0.678	<0.595	<0.539	<0.535	8.28	<0.504
Dibenzo(a,h)Anthracene	mg/kg	<0.442	<0.479	<0.585	<0.558	<0.459	<0.526	<0.526	<0.531	<0.553	<0.430	<0.435	<0.414	<0.488	<0.517	<0.456	<0.450	<0.423	<0.428	<0.526	<0.595	<0.539	<0.535	<0.594	<0.504
Dibenzofuran	mg/kg	<0.880	<0.955	<1.17	<1.11	<0.916	<1.05	<1.05	<1.06	<1.10	<0.858	<0.868	<0.826	<0.973	<1.03	<0.909	<0.897	<0.844	<0.853	<1.05	<1.19	<1.07	<1.07	<1.18	<1.00
Diethylphthalate	mg/kg	<0.880	<0.955	<1.17	<1.11	<0.916	<1.05	<1.05	<1.06	<1.10	<0.858	<0.868	<0.826	<0.973	<1.03	<0.909	<0.897	<0.844	<0.853	<1.05	<1.19	<1.07	<1.07	<1.18	<1.00
Dimethylphthalate	mg/kg	<0.880	<0.955	<1.17	<1.11	<0.916	<1.05	<1.05	<1.06	<1.10	<0.858	<0.868	<0.826	<0.973	<1.03	<0.909	<0.897	<0.844	<0.853	<1.05	<1.19	<1.07	<1.07	<1.18	<1.00
Di-n-butylphthalate	mg/kg	<0.880	<0.955	<1.17	<1.11	<0.916	<1.05	<1.05	<1.06	<1.10	<0.858	<0.868	<0.826	<0.973	<1.03	<0.909	<0.897	<0.844	1.27	<1.05	<1.19	<1.07	<1.07	<1.18	<1.00
Di-n-octylphthalate	mg/kg	<0.880	<0.955	<1.17	<1.11	<0.916	<1.05	<1.05	<1.06	<1.10	<0.858	<0.868	<0.826	<0.973	<1.03	<0.909	<0.897	<0.844	<0.853	<1.05	<1.19	<1.07	<1.07	<1.18	<1.00
Fluoranthene	mg/kg	3.17	4.95	2.43	4.06	<0.916	<1.05	<1.05	<1.06	<1.10	1.36	<0.868	<0.826	1.61	2.6	<0.909	<0.897	<0.844	3.2	1.23	<1.19	<1.07	<1.07	11.8	<1.00
Fluorene	mg/kg	<0.880	<0.955	<1.17	<1.11	<0.916	<1.05	<1.05	<1.06	<1.10	<0.858	<0.868	<0.826	<0.973	<1.03	<0.909	<0.897	<0.844	<0.853	<1.05	<1.19	<1.07	<1.07	1.34	<1.00
Hexachlorobenzene	mg/kg	<0.442	<0.479	<0.585	<0.558	<0.459	<0.526	<0.526	<0.531	<0.553	<0.430	<0.435	<0.414	<0.488	<0.517	<0.456	<0.450	<0.423	<0.428	<0.526	<0.595	<0.539	<0.535	<0.594	<0.504
Hexachlorobutadiene	mg/kg	<0.880	<0.955	<1.17	<1.11	<0.916	<1.05	<1.05	<1.06	<1.10	<0.858	<0.868	<0.826	<0.973	<1.03	<0.909	<0.897	<0.844	<0.853	<1.05	<1.19	<1.07	<1.07	<1.18	<1.00
Hexachloroethane	mg/kg	<0.880	<0.955	<1.17	<1.11	<0.916	<1.05	<1.05	<1.06	<1.10	<0.858	<0.868	<0.826	<0.973	<1.03	<0.909	<0.897	<0.844	<0.853	<1.05	<1.19	<1.07	<1.07	<1.18	<1.00
Indeno(1,2,3-cd)Pyrene	mg/kg	<0.880	<0.955	<1.17	<1.11	<0.916	<1.05	<1.05	<1.06	<1.10	<0.858	<0.868	<0.826	<0.973	<1.03	<0.909	<0.897	<0.844	<0.853	<1.05	<1.19	<1.07	<1.07	1.96	<1.00
Isophorone	mg/kg	<0.880	<0.955	<1.17	<1.11	<0.916	<1.05	<1.05	<1.06	<1.10	<0.858	<0.868	<0.826	<0.973	<1.03	<0.909	<0.897	<0.844	<0.853	<1.05	<1.19	<1.07	<1.07	<1.18	<1.00
Naphthalene	mg/kg	<0.880	<0.955	<1.17	<1.11	<0.916	<1.05	<1.05	<1.06	<1.10	<0.858	<0.868	<0.826	<0.973	1.12	<0.909	<0.897	<0.844	<0.853	4.17	<1.19	<1.07	<1.07	2.37	<1.00
Nitrobenzene	mg/kg	<0.880	<0.955	<1.17	<1.11	<0.916	<1.05	<1.05	<1.06	<1.10	<0.858	<0.868	<0.826	<0.973	<1.03	<0.909	<0.897	<0.844	<0.853	<1.05	<1.19	<1.07	<1.07	<1.18	<1.00
N-Nitrosodimethylamine	mg/kg	<0.880	<0.955	<1.17	<1.11	<0.916	<1.05	<1.05	<1.06	<1.10	<0.858	<0.868	<0.826	<0.973	<1.03	<0.909	<0.897	<0.844	<0.853	<1.05	<1.19	<1.07	<1.07	<1.18	<1.00
Pentachlorophenol	mg/kg	<4.42	<4.79	<5.85	<5.58	<4.59	<5.26	<5.26	<5.31	<5.53	<4.30	<4.35	<4.14	<4.88	<5.17	<4.56	<4.50	<4.23	<4.28	<5.26	<5.95	<5.39	<5.35	<5.94	<5.04
Phenanthrene	mg/kg	2.65	4.37	2.38	4.09	<0.916	<1.05	<1.05	<1.06	<1.10	1.63	<0.868	<0.826	1.28	2.23	<0.909	<0.897	<0.844	2.31	<1.05	<1.19	<1.07	<1.07	10.8	<1.00
Phenol	mg/kg	<0.880	<0.955	<1.17	<1.11	<0.916	<1.05	<1.05	<1.06	<1.10	<0.858	<0.868	<0.826	<0.973	<1.03	<0.909	<0.897	<0.844	<0.853	<1.05	<1.19	<1.07	<1.07	<1.18	<1.00
Pyrene	mg/kg	2.31	1.06	<1.17	<1.11	<0.916	<1.05	<1.05	<1.06	<1.10	1.01	<0.868	<0.826	1.01	1.57	<0.909	<0.897	<0.844	2.3	1.06	<1.19	<1.07	<1.07	14.2	<1.00
Total SVOCs	mg/kg	14.4	16.43	7.43	13.48	ND	ND	ND	ND	ND	7.751	ND	ND	4.462	10.394	ND	ND	ND	15.98	7.138	ND	ND	ND	80.01	ND
Classic Chemistry																									
Corrosivity (pH)	S.U.	8.63	6.17	6.28	5.43	4.72	4.12	5.89	6.65	6.82	10.8	10.3	8.99	7.77	7.19	5.45	5.47	9.02	8.32	4.52	3.93	3.67	3.84	6.62	8.12
Conductivity	umhos/cm	438	1320	595	1210	485	3370	1460	2730	690	883	586	121	436	299	1120	130	128	166	1420	1310	1840	15700	680	8400
Flashpoint	°F	>200	>200	>200	>200	--	--	--	--	--	>200	>200	>200	>200	>200	>200	>200	>200	>200	>200	--	--	--	--	--
Reactive Cyanide	mg/kg	<2.0	<2.0	<2.0	<2.0	--	--	--	--	--	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--	--	--	--	--
Reactive Sulfide	mg/kg	<2.0	<2.0	<2.0	<2.0	--	--	--	--	--	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--	--	--	--	--

Table 1
Soil Precharacterization Data

Wynn Resort Casino
Everett, Massachusetts

Analyte	Precharacterization Cell	D17	D18	D18	D18	D18	D18	D18	D18	D18	D18	D19	D19	D19	D19	D19	D19	D19	D19	D20	D20	D20	D20	D20	D20
	Sample ID	D17S12S13	D18S01S02A	D18S02BS04A	D18S04BS05	D18S06	D18S07S08	D18S09	D18S10	D18S11	D18S12S13	D19S01S02A	D19S02BS04A	D19S04BS05	D19S06S07	D19S08	D19S09	D19S10	D19S11S12	D20S01S02A	D20S02BS04A	D20S04BS05	D20S06S07A	D20S07BS09A	D20S09BS10
	Laboratory Work Order	1502103	1412333	1412333	1412333	1412333	1412333	1412333	1412333	1412333	1412333	1412302	1412302	1412302	1412302	1412302	1412302	1412302	1412302	1412284	1412284	1412284	1412284	1412284	1412284
	Soil Distinction	Natural	Fill	Fill	Fill	Natural	Natural	Natural	Natural	Natural	Natural	Fill	Fill	Fill	Fill	Natural	Natural	Natural	Natural	Fill	Fill	Fill	Fill	Fill	Natural
	Soil Type	Clay				Organics	Organics	Organics	Organics	Sand/Gravel	Sand/Gravel					Organics	Organics	Organics	Clay						Organics
	Depth Interval (ft.)	34 - 38	0 - 3.3	3.3 - 6.6	6.6 - 10	10 - 12	12 - 16	19 - 21	24 - 26	29 - 31	34 - 38	0 - 3.3	3.3 - 6.6	6.6 - 10	10 - 14	19 - 21	24 - 26	29 - 31	34 - 38	0 - 3.3	3.3 - 6.6	6.6 - 10	10 - 13.3	13.3 - 16.6	16.6 - 20
	Sampling Date	2/6/2015	12/16/2014	12/16/2014	12/16/2014	12/16/2014	12/16/2014	12/16/2014	12/16/2014	12/16/2014	12/16/2014	12/15/2014	12/15/2014	12/15/2014	12/15/2014	12/15/2014	12/15/2014	12/15/2014	12/15/2014	12/15/2014	12/12/2014	12/12/2014	12/12/2014	12/12/2014	12/12/2014	12/12/2014
Preliminary Disposal Facility Category		Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Uncontaminated	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type B-1
RCRA 8 Metals	**Units**																								
Arsenic	mg/kg	11.1	8.21	6.98	12.4	24.9	10.7	21.6	711	45.4	7.28	7.19	4.35	<1.68	9.21	15.4	16.6	6.57	15.2	5.23	6.27	6.78	3.92	294	20.6
Barium	mg/kg	107	21.7	23.9	89.4	127	16.5	27.4	95.4	30.6	24	22.2	29.7	25.5	176	49.6	11.1	33.3	92.9	17.1	89.4	121	458	466	64.2
Cadmium	mg/kg	<1.53	<0.45	<0.48	<0.49	1.92	<0.54	<0.60	9.79	0.74	<0.49	<0.49	<0.47	<0.34	<0.64	0.69	<1.33	<0.64	<0.49	<0.51	<0.42	<0.41	<0.51	5.85	0.96
Chromium	mg/kg	46.9	22.4	17.8	42.3	64.6	13	23	71.2	21.2	11.5	17.9	13.3	0.69	<1.27	25.6	4.71	33.2	45.3	15.8	18.8	15.1	1.63	14.5	25.7
Lead	mg/kg	<15.3	9.45	9.57	200	220	30.3	62.4	1110	138	6.68	10.9	33.6	14	192	96	20.1	9.49	15.6	10.3	51	67	47.6	545	136
Selenium	mg/kg	<7.65	<9.02	<9.69	<9.81	<13.0	<10.7	<11.9	80.8	<9.03	<9.88	<9.75	<9.32	<6.73	<12.7	<12.9	<8.89	<12.8	<9.76	<10.2	<8.48	<8.24	<10.1	29.2	<12.8
Silver	mg/kg	<1.53	0.76	<0.48	0.95	<0.65	<0.54	<0.60	2.55	0.75	<0.49	<0.49	<0.47	0.48	0.71	<0.65	<1.33	<0.64	0.72	<0.51	0.54	0.76	0.52	1.76	0.71
Mercury	mg/kg	<0.031	<0.035	<0.033	0.625	0.045	0.081	0.975	16.5	0.047	<0.036	0.033	0.156	0.306	2.01	0.235	<0.029	<0.032	<0.036	<0.031	0.146	2.37	2.41	5.2	0.811
Metals by Toxicity Characteristic Leaching Procedure (TCLP)																									
Arsenic	mg/L	--	--	--	--	--	--	--	2.31	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.952	--
Cadmium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead	mg/L	--	--	--	0.221	0.092	--	--	0.06	0.995	--	--	--	--	0.212	--	--	--	--	--	--	--	--	<0.050	<0.050
Selenium	mg/L	--	--	--	--	--	--	--	<0.050	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--	--	--	<0.00050	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.00050	--
Herbicides																									
2,4,5-T	mg/kg	--	<0.053	<0.052	<0.060	<0.077	--	--	--	--	--	<0.049	<0.050	<0.055	--	--	--	--	--	<0.051	<0.055	<0.054	<0.062	<0.065	--
2,4-D	mg/kg	--	<0.053	<0.052	<0.060	<0.077	--	--	--	--	--	<0.049	<0.050	<0.055	--	--	--	--	--	<0.051	<0.055	<0.054	<0.062	<0.065	--
2,4-DB	mg/kg	--	<0.053	<0.052	<0.060	<0.077	--	--	--	--	--	<0.049	<0.050	<0.055	--	--	--	--	--	<0.051	<0.055	<0.054	<0.062	<0.065	--
Dalapon	mg/kg	--	<0.64	<0.63	<0.72	<0.93	--	--	--	--	--	<0.59	<0.61	<0.66	--	--	--	--	--	<0.61	<0.66	<0.66	<0.74	<0.78	--
Dicamba	mg/kg	--	<0.053	<0.052	<0.060	<0.077	--	--	--	--	--	<0.049	<0.050	<0.055	--	--	--	--	--	<0.051	<0.055	<0.054	<0.062	<0.065	--
Dichlorprop	mg/kg	--	<0.053	<0.052	<0.060	<0.077	--	--	--	--	--	<0.049	<0.050	<0.055	--	--	--	--	--	<0.051	<0.055	<0.054	<0.062	<0.065	--
Dinoseb	mg/kg	--	<0.32	<0.31	<0.36	<0.47	--	--	--	--	--	<0.29	<0.30	<0.33	--	--	--	--	--	<0.31	<0.33	<0.33	<0.37	<0.39	--
MCPA	mg/kg	--	<13	<13	<14	<19	--	--	--	--	--	<12	<12	<13	--	--	--	--	--	<12	<13	<13	<15	<16	--
MCPP	mg/kg	--	<13	<13	<14	<19	--	--	--	--	--	<12	<12	<13	--	--	--	--	--	<12	<13	<13	<15	<16	--
Silvex (2,4,5-TP)	mg/kg	--	<0.053	<0.052	<0.060	<0.077	--	--	--	--	--	<0.049	<0.050	<0.055	--	--	--	--	--	<0.051	<0.055	<0.054	<0.062	<0.065	--
Pesticides																									
4,4'-DDD	mg/kg	--	<0.0018	<0.0018	<0.0021	<0.0027	--	--	--	--	--	<0.0018	<0.0019	<0.0021	--	--	--	--	--	<0.0018	<0.0019	<0.0019	<0.0021	<0.0024	--
4,4'-DDE	mg/kg	--	<0.0018	<0.0018	<0.0021	<0.0027	--	--	--	--	--	<0.0018	<0.0019	<0.0021	--	--	--	--	--	<0.0018	<0.0019	<0.0019	<0.0021	<0.0024	--
4,4'-DDT	mg/kg	--	<0.0018	<0.0018	<0.0021	<0.0027	--	--	--	--	--	<0.0018	<0.0019	<0.0021	--	--	--	--	--	<0.0018	<0.0019	<0.0019	<0.0021	<0.0024	--
Aldrin	mg/kg	--	<0.0018	<0.0018	<0.0021	<0.0027	--	--	--	--	--	<0.0018	<0.0019	<0.0021	--	--	--	--	--	<0.0018	<0.0019	<0.0019	<0.0021	<0.0024	--
alpha-BHC	mg/kg	--	<0.0018	<0.0018	<0.0021	<0.0027	--	--	--	--	--	<0.0018	<0.0019	<0.0021	--	--	--	--	--	<0.0018	<0.0019	<0.0019	<0.0021	<0.0024	--
beta-BHC	mg/kg	--	<0.0018	<0.0018	<0.0021	<0.0027	--	--	--	--	--	<0.0018	<0.0019	<0.0021	--	--	--	--	--	<0.0018	<0.0019	<0.0019	<0.0021	<0.0024	--
Chlordane (technical)	mg/kg	--	<0.018	<0.018	<0.021	<0.027	--	--	--	--	--	<0.018	<0.019	<0.021	--	--	--	--	--	<0.018	<0.019	<0.019	<0.021	<0.024	--
delta-BHC	mg/kg	--	<0.0018	<0.0018	<0.0021	<0.0027	--	--	--	--	--	<0.0018	<0.0019	<0.0021	--	--	--	--	--	<0.0018	<0.0019	<0.0019	<0.0021	<0.0024	--
Dieldrin	mg/kg	--	<0.0018	<0.0018	<0.0021	<0.0027	--	--	--	--	--	<0.0018	<0.0019	<0.0021	--	--	--	--	--	<0.0018	<0.0019	<0.0019	<0.0021	<0.0024	--
Endosulfan I	mg/kg	--	<0.0018	<0.0018	<0.0021	<0.0027	--	--	--	--	--	<0.0018	<0.0019	<0.0021	--	--	--	--	--	<0.0018	<0.0019	<0.0019	<0.0021	<0.0024	--
Endosulfan II	mg/kg	--	<0.0018	<0.0018	<0.0021	<0.0027	--	--	--	--	--	<0.0018	<0.0019	<0.0021	--	--	--	--	--	<0.0018	<0.0019	<0.0019	<0.0021	<0.0024	--
Endosulfan sulfate	mg/kg	--	<0.0018	<0.0018	<0.0021	<0.0027	--	--	--	--	--	<0.0018	<0.0019	<0.0021	--	--	--	--	--	<0.0018	<0.0019	<0.0019	<0.0021	<0.0024	--
Endrin	mg/kg	--	<0.0018	<0.0018	<0.0021	<0.0027	--	--	--	--	--	<0.0018	<0.0019	<0.0021	--	--	--	--	--	<0.0018	<0.0019	<0.0019	<0.0021	<0.0024	--
Endrin ketone	mg/kg	--	<0.0018	<0.0018	<0.0021	<0.0027	--	--	--	--	--	<0.0018	<0.0019	<0.0021	--	--	--	--	--	<0.0018	<0.0019	<0.0019	<0.0021	<0.0024	--
gamma-BHC (Lindane)	mg/kg	--	<0.0018	<0.0018	<0.0021	<0.0027	--	--	--	--	--	<0.0018	<0.0019	<0.0021	--	--	--	--	--	<0.0018	<0.0019	<0.0019	<0.0021	<0.0024	--
Heptachlor	mg/kg	--	<0.0018	<0.0018	<0.0021	<0.0027	--	--	--	--	--	<0.0018	<0.0019	<0.0021	--	--	--	--	--	<0.0018	<0.0019	<0.0019	<0.0021	<0.0024	--
Heptachlor epoxide	mg/kg	--	<0.0018	<0.0018	<0.0021	<0.0027	--	--	--	--	--	<0.0018	<0.0019	<0.0021	--	--	--	--	--	<0.0018	<0.0019	<0.0019	<0.0021	<0.0024	--
Hexachlorobenzene	mg/kg	--	<0.0018	<0.0018	<0.0021	<0.0027	--	--	--	--	--	<0.0018	<0.0019	<0.0021	--	--	--	--	--	<0.0018	<0.0019	<0.0019	<0.0021	<0.0024	--
Methoxychlor	mg/kg	--	<0.0018	<0.0018	<0.0021	<0.0027	--	--	--	--	--	<0.0018	<0.0019	<0.0021	--	--	--	--	--	<0.0018	<0.0019	<0.0019	<0.0021	<0.0024	--
Polychlorinated Biphenyls																									
Aroclor 1016	mg/kg	<0.143	<0.119	<0.121	<0.135	<0.160	<0.150	<0.168	<0.181	<0.130	<0.151	<0.122	<0.133	<0.158	<0.171	<0.161	<0.141	<0.161	<0.159	<0.132	<0.133	<0.145	<0.148	<0.184	<0.186
Aroclor 1221	mg/kg	<0.143	<0.119	<0.121	<0.135	<0.160	<0.150	<0.168	<0.181	<0.130	<0.151	<0.122	<0.133	<0.158	<0.171	<0.161	<0.141	<0.161	<0.159	<0.132	<0.133	<0.145	<0.148	<0.184	<0.186
Aroclor 1232	mg/kg	<0.143	<0.119	<0.121	<0.135	<0.160	<0.150	<0.168	<0.181	<0.130	<0.151	<0.122	<0.133	<0.158	<0.171	<0.161	<0.141	<0.161	<0.159	<0.132	<0.133	<0.145	<0.148	<0.184	<0.186
Aroclor 1242	mg/kg	<0.143	<0.119	<0.121	<0.135	<0.160	<0.150	<0.168	<0.181	<0.130	<0.151	<0.122	<0.133	<0.158	<0.171	<0.161	<0.141	<0.161	<0.159	<0.132	<0.133	<0.145	<0.148	<0.184	<0.186
Aroclor 1248	mg/kg	<0.143	<0.119	<0.121	<0.135	<0.160	<0.150	<0.168	<0.181	<0.130	<0.151	<0.122	<0.133	<0.158	<0.171	<0.161	<0.141	<0.161	<0.159	<0.132	<0.133	<0.145	<0.148	<0.184	<0.186
Aroclor 1254	mg/kg	<0.143	<0.119	0.479	1.4	<0.160	<0.150	<0.168	<0.181	<0.130	<0.151	<0.122	0.245	<0.158	<0.171	<0.161	<0.141	<0.161	<0.159	<0.132	1.17	4.49	<0.148	<0.184	<0.186
Aroclor 1260	mg/kg	<0.143	<0.119	<0.121	0.327	<0.160	<0.150	<0.168	<0.181	<0.130	<0.151	<0.122	0.135	<0.158	<0.171	<0.161	<0.141	<0.161	<0.159	<0.132	0.588	2.46	<0.148	<0.184	<0.186
Aroclor 1262	mg/kg	<0.143	<0.119	<0.121	<0.135	<0.160	<0.150	<0.168	<0.181	<0.130	<0.151	<0.122	<0.133	<0.158	<0.171	<0.161	<0.141	<0.161	<0.159	<0.132	<0.133	<0.145	<0.148	<0.184	<0.186
Aroclor 1268	mg/kg	<0.143	<0.119	<0.121	<0.135	<0.160	<0.150	<0.168	<0.181	<0.130	<0.151	<0.122	<0.133	<0.158	<0.171	<0.161	<0.141	<0.161	<0.159	<0.132	<0.133	<0.145	<0.148	<0.184	<0.186
Total PCBs	mg/kg	ND	ND	0.479	1.727	ND	ND	ND	ND	ND	ND	ND	0.38	ND	ND	ND	ND	ND	ND	ND	1.758	6.95	ND	ND	ND
Total Petroleum Hydrocarbons	mg/kg	<46.0	46.5	<36.6	121	63.2	<48.0	82.7	1450	<45.1	<47.5	<38.3	87.7	<49.3	58.4	126	<43.0	<50.6	<51.9	51.4	121	199	79.3	297	454
Volatile Organic Compounds (VOCs)																									
1,1,1,2-Tetrachloroethane	mg/kg	--	--	--	--	<0.152	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	mg/kg	--	--	--	--	<0.0759	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg	--	--	--	--	<0.0759	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	mg/kg	--	--	--	--	<0.0759	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	mg/kg	--	--	--	--	<0.0759	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	mg/kg	--	--	--	--	<0.0759	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloropropene	mg/kg	--	--	--	--	<0.0759	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	mg/kg	--	--	--	--	<0.0759	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	mg/kg	--	--	--	--	<0.0759	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	mg/kg	--	--	--	--	<0.0759	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	mg/kg	--	--	--	--	<0.0759	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-Chloropropane	mg/kg	--	--	--	--	<0.304	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	mg/kg	--	--	--	--	<0.0759	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	mg/kg	--	--	--	--	<0.0759	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	mg/kg	--	--	--	--	<0.0759	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	mg/kg	--	--	--	--	<0.0759	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	mg/kg	--	--	--	--	<0.0759	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	mg/kg	--	--	--	--	<0.0759	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichloropropane	mg/kg	--	--	--	--	<0.0759	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg	--	--	--	--	<0.0759	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane - Screen	mg/kg	--	--	--	--	<7.59	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,2-Dichloropropane	mg/kg	--	--	--	--	<0.152	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Butanone	mg/kg	--	--	--	--	<0.304	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chlorotoluene	mg/kg	--	--	--	--	<0.0759	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	mg/kg	--	--	--	--	<0.304	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Chlorotoluene	mg/kg	--	--	--	--	<0.0759	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Isopropyltoluene	mg/kg	--	--	--	--	<0.0759	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-Pentanone	mg/kg	--	--	--	--	<0.304	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	mg/kg	--	--	--	--	0.465	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzene	mg/kg	--	--	--	--	<0.0759	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromobenzene	mg/kg	--	--	--	--	<0.0759	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	mg/kg	--	--	--	--	<0.0759	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	mg/kg	--	--	--	--	<0.0759	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	mg/kg	--	--	--	--	<0.0759	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	mg/kg	--	--	--	--	<0.152	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Disulfide	mg/kg	--	--	--	--	0.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	mg/kg	--	--	--	--	<0.0759	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	D17 D17S12S13 1502103 Natural Clay 34 - 38 2/6/2015	D18 D18S01S02A 1412333 Fill 0 - 3.3 12/16/2014	D18 D18S02BS04A 1412333 Fill 3.3 - 6.6 12/16/2014	D18 D18S04BS05 1412333 Fill 6.6 - 10 12/16/2014	D18 D18S06 1412333 Natural Organics 10 - 12 12/16/2014	D18 D18S07S08 1412333 Natural Organics 12 - 16 12/16/2014	D18 D18S09 1412333 Natural Organics 19 - 21 12/16/2014	D18 D18S10 1412333 Natural Organics 24 - 26 12/16/2014	D18 D18S11 1412333 Natural Sand/Gravel 29 - 31 12/16/2014	D18 D18S12S13 1412333 Natural Sand/Gravel 34 - 38 12/16/2014	D19 D19S01S02A 1412302 Fill 0 - 3.3 12/15/2014	D19 D19S02BS04A 1412302 Fill 3.3 - 6.6 12/15/2014	D19 D19S04BS05 1412302 Fill 6.6 - 10 12/15/2014	D19 D19S06S07 1412302 Fill 10 - 14 12/15/2014	D19 D19S08 1412302 Natural Organics 19 - 21 12/15/2014	D19 D19S09 1412302 Natural Organics 24 - 26 12/15/2014	D19 D19S10 1412302 Natural Organics 29 - 31 12/15/2014	D19 D19S11S12 1412302 Natural Clay 34 - 38 12/15/2014	D20 D20S01S02A 1412284 Fill 0 - 3.3 12/12/2014	D20 D20S02BS04A 1412284 Fill 3.3 - 6.6 12/12/2014	D20 D20S04BS05 1412284 Fill 6.6 - 10 12/12/2014	D20 D20S06S07A 1412284 Fill 10 - 13.3 12/12/2014	D20 D20S07BS09A 1412284 Fill 13.3 - 16.6 12/12/2014	D20 D20S09BS10 1412284 Natural Organics 16.6 - 20 12/12/2014
Preliminary Disposal Facility Category		Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Uncontaminated	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type B-1
Chlorobenzene	mg/kg	--	--	--	--	<0.0759	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	mg/kg	--	--	--	--	<0.152	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	mg/kg	--	--	--	--	<0.0759	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	mg/kg	--	--	--	--	<0.152	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	mg/kg	--	--	--	--	<0.0759	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	mg/kg	--	--	--	--	<0.0759	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	mg/kg	--	--	--	--	<0.0759	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromomethane	mg/kg	--	--	--	--	<0.0759	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	mg/kg	--	--	--	--	<0.0759	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Diethyl Ether	mg/kg	--	--	--	--	<0.0759	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Di-isopropyl ether	mg/kg	--	--	--	--	<0.0759	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethyl tertiary-butyl ether	mg/kg	--	--	--	--	<0.0759	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	mg/kg	--	--	--	--	<0.0759	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	mg/kg	--	--	--	--	<0.0759	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene	mg/kg	--	--	--	--	<0.0759	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	mg/kg	--	--	--	--	<0.0759	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride	mg/kg	--	--	--	--	<0.304	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	mg/kg	--	--	--	--	<0.0759	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	mg/kg	--	--	--	--	<0.0759	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	mg/kg	--	--	--	--	<0.0759	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	mg/kg	--	--	--	--	<0.0759	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	mg/kg	--	--	--	--	<0.0759	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
tert-Butylbenzene	mg/kg	--	--	--	--	<0.0759	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tertiary-amyl methyl ether	mg/kg	--	--	--	--	<0.0759	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	mg/kg	--	--	--	--	<0.0759	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	mg/kg	--	--	--	--	<0.304	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	mg/kg	--	--	--	--	<0.0759	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	mg/kg	--	--	--	--	<0.0759	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	mg/kg	--	--	--	--	<0.0759	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene	mg/kg	--	--	--	--	<0.0759	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane	mg/kg	--	--	--	--	<0.0759	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	mg/kg	--	--	--	--	<0.0759	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene O	mg/kg	--	--	--	--	<0.0759	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene P,M	mg/kg	--	--	--	--	<0.152	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylenes (Total)	mg/kg	--	--	--	--	<0.152	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total VOCs	mg/kg	--	--	--	--	0.565	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds - Low Level Analysis																									
1,1,1,2-Tetrachloroethane	mg/kg	<0.0039	<0.0044	<0.0044	<0.0044	<0.0066	<0.0041	<0.0044	<0.0054	<0.0036	<0.0035	<0.0041	<0.0038	<0.0045	<0.0047	<0.0051	<0.0039	<0.0032	<0.0030	<0.0053	<0.0041	<0.0057	<0.0045	<0.0047	<0.0049
1,1,1-Trichloroethane	mg/kg	<0.0039	<0.0044	<0.0044	<0.0044	<0.0066	<0.0041	<0.0044	<0.0054	<0.0036	<0.0035	<0.0041	<0.0038	<0.0045	<0.0047	<0.0051	<0.0039	<0.0032	<0.0030	<0.0053	<0.0041	<0.0057	<0.0045	<0.0047	<0.0049
1,1,2,2-Tetrachloroethane	mg/kg	<0.0016	<0.0017	<0.0017	<0.0017	<0.0027	<0.0016	<0.0017	<0.0021	<0.0015	<0.0014	<0.0016	<0.0015	<0.0018	<0.0019	<0.0020	<0.0016	<0.0013	<0.0012	<0.0021	<0.0016	<0.0023	<0.0018	<0.0019	<0.0020
1,1,2-Trichloroethane	mg/kg	<0.0039	<0.0044	<0.0044	<0.0044	<0.0066	<0.0041	<0.0044	<0.0054	<0.0036	<0.0035	<0.0041	<0.0038	<0.0045	<0.0047	<0.0051	<0.0039	<0.0032	<0.0030	<0.0053	<0.0041	<0.0057	<0.0045	<0.0047	<0.0049
1,1-Dichloroethane	mg/kg	<0.0039	<0.0044	<0.0044	<0.0044	<0.0066	<0.0041	<0.0044	<0.0054	<0.0036	<0.0035	<0.0041	<0.0038	<0.0045	<0.0047	<0.0051	<0.0039	<0.0032	<0.0030	<0.0053	<0.0041	<0.0057	<0.0045	<0.0047	<0.0049
1,1-Dichloroethene	mg/kg	<0.0039	<0.0044	<0.0044	<0.0044	<0.0066	<0.0041	<0.0044	<0.0054	<0.0036	<0.0035	<0.0041	<0.0038	<0.0045	<0.0047	<0.0051	<0.0039	<0.0032	<0.0030	<0.0053	<0.0041	<0.0057	<0.0045	<0.0047	<0.0049
1,1-Dichloropropene	mg/kg	<0.0039	<0.0044	<0.0044	<0.0044	<0.0066	<0.0041	<0.0044	<0.0054	<0.0036	<0.0035	<0.0041	<0.0038	<0.0045	<0.0047	<0.0051	<0.0039	<0.0032	<0.0030	<0.0053	<0.0041	<0.0057	<0.0045	<0.0047	<0.0049
1,2,3-Trichlorobenzene	mg/kg	<0.0039	<0.0044	<0.0044	<0.0044	<0.0066	<0.0041	<0.0044	<0.0054	<0.0036	<0.0035	<0.0041	<0.0038	<0.0045	<0.0047	<0.0051	<0.0039	<0.0032	<0.0030	<0.0053	<0.0041	<0.0057	<0.0045	<0.0047	<0.0049
1,2,3-Trichloropropane	mg/kg	<0.0039	<0.0044	<0.0044	<0.0044	<0.0066	<0.0041	<0.0044	<0.0054	<0.0036	<0.0035	<0.0041	<0.0038	<0.0045	<0.0047	<0.0051	<0.0039	<0.0032	<0.0030	<0.0053	<0.0041	<0.0057	<0.0045	<0.0047	<0.0049
1,2,4-Trichlorobenzene	mg/kg	<0.0039	<0.0044	<0.0044	<0.0044	<0.0066	<0.0041	<0.0044	<0.0054	<0.0036	<0.0035	<0.0041	<0.0038	<0.0045	<0.0047	<0.0051	<0.0039	<0.0032	<0.0030	<0.0053	<0.0041	<0.0057	<0.0045	<0.0047	<0.0049
1,2,4-Trimethylbenzene	mg/kg	<0.0039	<0.0044	<0.0044	<0.0044	<0.0066	<0.0041	<0.0044	<0.0054	<0.0036	<0.0035	<0.0041	<0.0038	<0.0045	<0.0047	<0.0051	<0.0039	<0.0032	<0.0030	<0.0053	<0.0041	<0.0057	<0.0045	<0.0047	<0.0049
1,2-Dibromo-3-Chloropropane	mg/kg	<0.0039	<0.0044	<0.0044	<0.0044	<0.0066	<0.0041	<0.0044	<0.0054	<0.0036	<0.0035	<0.0041	<0.0038	<0.0045	<0.0047	<0.0051	<0.0039	<0.0032	<0.0030	<0.0053	<0.0041	<0.0057	<0.0045	<0.0047	<0.0049
1,2-Dibromoethane	mg/kg	<0.0039	<0.0044	<0.0044	<0.0044	<0.0066	<0.0041	<0.0044	<0.0054	<0.0036	<0.0035	<0.0041	<0.0038	<0.0045	<0.0047	<0.0051	<0.0039	<0.0032	<0.0030	<0.0053	<0.0041	<0.0057	<0.0045	<0.0047	<0.0049
1,2-Dichlorobenzene	mg/kg	<0.0039	<0.0044	<0.0044	<0.0044	<0.0066	<0.0041	<0.0044	<0.0054	<0.0036	<0.0035	<0.0041	<0.0038	<0.0045	<0.0047	<0.0051	<0.0039	<0.0032	<0.0030	<0.0053	<0.0041	<0.0057	<0.0045	<0.0047	<0.0049
1,2-Dichloroethane	mg/kg	<0.0039	<0.0044	<0.0044	<0.0044	<0.0066	<0.0041	<0.0044	<0.0054	<0.0036	<0.0035	<0.0041	<0.0038	<0.0045	<0.0047	<0.0051	<0.0039	<0.0032	<0.0030	<0.0053	<0.0041	<0.0057	<0.0045	<0.0047	<0.0049
1,2-Dichloropropane	mg/kg	<0.0039	<0.0044	<0.0044	<0.0044	<0.0066	<0.0041	<0.0044	<0.0054	<0.0036	<0.0035	<0.0041	<0.0038	<0.0045	<0.0047	<0.0051	<0.0039	<0.0032	<0.0030	<0.0053	<0.0041	<0.0057	<0.0045	<0.0047	<0.0049
1,3,5-Trimethylbenzene	mg/kg	<0.0039	<0.0044	<0.0044	<0.0044	<0.0066	<0.0041	<0.0044	<0.0054	<0.0036	<0.0035	<0.0041	<0.0038	<0.0045	<0.0047	<0.0051	<0.0039	<0.0032	<0.0030	<0.0053	<0.0041	<0.0057	<0.0045	<0.0047	<0.0049
1,3-Dichlorobenzene	mg/kg	<0.0039	<0.0044	<0.0044	<0.0044	<0.0066	<0.0041	<0.0044	<0.0054	<0.0036	<0.0035	<0.0041	<0.0038	<0.0045	<0.0047	<0.0051	<0.0039	<0.0032	<0.0030	<0.0053	<0.0041	<0.0057	<0.0045	<0.0047	<0.0049
1,3-Dichloropropane	mg/kg	<0.0039	<0.0044	<0.0044	<0.0044	<0.0066	<0.0041	<0.0044	<0.0054	<0.0036	<0.0035	<0.0041	<0.0038	<0.0045	<0.0047	<0.0051	<0.0039	<0.0032	<0.0030	<0.0053	<0.0041	<0.0057	<0.0045	<0.0047	<0.0049
1,4-Dichlorobenzene	mg/kg	<0.0039	<0.0044	<0.0044	<0.0044	<0.0066	<0.0041	<0.0044	<0.0054	<0.0036	<0.0035	<0.0041	<0.0038	<0.0045	<0.0047	<0.0051	<0.0039	<0.0032	<0.0030	<0.0053	<0.0041	<0.0057	<0.0045	<0.0047	<0.0049
1,4-Dioxane	mg/kg	<0.0784	<0.0872	<0.0875	<0.0872	<0.133	<0.0822	<0.0872	<0.107	<0.0725	<0.0709	<0.0823	<0.0757	<0.0891	<0.0944	<0.101	<0.0776	<0.0633	<0.0596	<0.105	<0.0813	<0.114	<0.0897	<0.0932	<0.0976
2,2-Dichloropropane	mg/kg	<0.0039	<0.0044	<0.0044	<0.0044	<0.0066	<0.0041	<0.0044	<0.0054	<0.0036	<0.0035	<0.0041	<0.0038	<0.0045	<0.0047	<0.0051	<0.0039	<0.0032	<0.0030	<0.0053	<0.0041	<0.0057	<0.0045	<0.0047	<0.0049
2-Butanone	mg/kg	<0.0078	<0.0087	<0.0087	<0.0087	<0.0133	<0.0082	<0.0087	0.0217	<0.0073	<0.0071	<0.0082	<0.0076	<0.0089	<0.0094	0.0492	<0.0078	0.0093	0.0065	<0.0105	<0.0081	<0.0114	<0.0090	<0.0093	<0.0098
2-Chlorotoluene	mg/kg	<0.0039	<0.0044	<0.0044	<0.0044	<0.0066	<0.0041	<0.0044	<0.0054	<0.0036	<0.0035	<0.0041	<0.0038	<0.0045	<0.0047	<0.0051	<0.0039	<0.0032	<0.0030	<0.0053	<0.0041	<0.0057	<0.0045	<0.0047	<0.0049
2-Hexanone	mg/kg	<0.0078	<0.0087	<0.0087	<0.0087	<0.0133	<0.0082	<0.0087	<0.0107	<0.0073	<0.0071	<0.0082	<0.0076	<0.0089	<0.0094	<0.0101	<0.0078	<0.0063	<0.0060	<0.0105	<0.0081	<0.0114	<0.0090	<0.0093	<0.0098
4-Chlorotoluene	mg/kg	<0.0039	<0.0044	<0.0044	<0.0044	<0.0066	<0.0041	<0.0044	<0.0054	<0.0036	<0.0035	<0.0041	<0.0038	<0.0045	<0.0047	<0.0051	<0.0039	<0.0032	<0.0030	<0.0053	<0.0041	<0.0057	<0.0045	<0.0047	<0.0049
4-Isopropyltoluene	mg/kg	<0.0039	<0.0044	<0.0044	<0.0044	<0.0066	<0.0041	<0.0044	<0.0054	<0.0036	<0.0035	<0.0041	<0.0038	<0.0045	<0.0047	0.0086	<0.0039	<0.0032	0.0784	<0.0053	<0.0041	<0.0057	<0.0045	<0.0047	<0.0049
4-Methyl-2-Pentanone	mg/kg	<0.0078	<0.0087	<0.0087	<0.0087	<0.0133	<0.0082	<0.0087	<0.0107	<0.0073	<0.0071	<0.0082	<0.0076	<0.0089	<0.0094	<0.0101	<0.0078	<0.0063	<0.0060	<0.0105	<0.0081	<0.0114	<0.0090	<0.0093	<0.0098
Acetone	mg/kg	<0.0078	<0.0087	<0.0087	0.0187	0.0176	<0.0082	0.0188	0.158	<0.0073	<0.0071	<0.0082	<0.0076	<0.0089	<0.0094	0.318	<0.0078	0.0889	0.0388	<0.0105	<0.0081	<0.0114	<0.0090	<0.0093	0.0362
Benzene	mg/kg	<0.0039	<0.0044	<0.0044	<0.0044	<0.0066	<0.0041	<0.0044	<0.0054	<0.0036	<0.0035	<0.0041	<0.0038	<0.0045	<0.0047	<0.0051	<0.0039	<0.0032	0.0046	<0.0053	<0.0041	<0.0057	<0.0045	<0.0047	<0.0049
Bromobenzene	mg/kg	<0.0039	<0.0044	<0.0044	<0.0044	<0.0066	<0.0041	<0.0044	<0.0054	<0.0036	<0.0035	<0.0041	<0.0038	<0.0045	<0.0047	<0.0051	<0.0039	<0.0032	<0.0030	<0.0053	<0.0041	<0.0057	<0.0045	<0.0047	<0.0049
Bromochloromethane	mg/kg	<0.0039	<0.0044	<0.0044	<0.0044	<0.0066	<0.0041	<0.0044	<0.0054	<0.0036	<0.0035	<0.0041	<0.0038	<0.0045	<0.0047	<0.0051	<0.0039	<0.0032	<0.0030	<0.0053	<0.0041	<0.0057	<0.0045	<0.0047	<0.0049
Bromodichloromethane	mg/kg	<0.0039	<0.0044	<0.0044	<0.0044	<0.0066	<0.0041	<0.0044	<0.0054	<0.0036	<0.0035	<0.0041	<0.0038	<0.0045	<0.0047	<0.0051	<0.0039	<0.0032	<0.0030	<0.0053	<0.0041	<0.0057	<0.0045	<0.0047	<0.0049
Bromoform	mg/kg	<0.0039	<0.0044	<0.0044	<0.0044	<0.0066	<0.0041	<0.0044	<0.0054	<0.0036	<0.0035	<0.0041	<0.0038	<0.0045	<0.0047	<0.0051	<0.0039	<0.0032	<0.0030	<0.0053	<0.0041	<0.0057	<0.0045	<0.0047	<0.0049
Bromomethane	mg/kg	<0.0078	<0.0087	<0.0087	<0.0087	<0.0133	<0.0082	<0.0087	<0.0107	<0.0073	<0.0071	<0.0082	<0.0076	<0.0089	<0.0094	<0.0101	<0.0078	<0.0063	<0.0060	<0.0105	<0.0081	<0.0114	<0.0090	<0.0093	<0.0098
Carbon Disulfide	mg/kg	<0.0039	<0.0044	<0.0044	0.0058	<0.0066	<0.0041	0.0046	0.0073	0.0079	<0.0035	<0.0041	<0.0038	<0.0045	<0.0047	0.053	<0.0039	0.0051	0.0112	<0.0053	<0.0041	<0.0057	<0.0045	<0.0047	0.01
Carbon Tetrachloride	mg/kg	<0.0039	<0.0044	<0.0044	<0.0044	<0.0066	<0.0041	<0.0044	<0.0054	<0.0036	<0.0035	<0.0041	<0.0038	<0.0045	<0.0047	<0.0051	<0.0039	<0.0032	<0.0030	<0.0053	<0.0041	<0.0057	<0.0045	<0.0047	<0.0049
Chlorobenzene	mg/kg	<0.0039	<0.0044	<0.0044	<0.0044	<0.0066	<0.0041	<0.0044	<0.0054	<0.0036	<0.0035	<0.0041	<0.0038	<0.0045	<0.0047	<0.0051	<0.0039	<0.0032	<0.0030	<0.0053	<0.0041	<0.0057	<0.0045	<0.0047	<0.0049
Chloroethane	mg/kg	<0.0039	<0.0044	<0.0044	<0.0044	<0.0066	<0.0041	<0.0044	<0.0054	<0.0036	<0.0035	<0.0041	<0.0038	<0.0045	<0.0047	<0.0051	<0.0039	<0.0032	<0.0030	<0.0053	<0.0041	<0.0057	<0.0045	<0.0047	<0.0049
Chloroform	mg/kg	<0.0039	<0.0044	<0.0044	<0.0044	<0.0066	<0.0041	<0.0044	<0.0054	<0.0036	<0.0035	<0.0041	<0.0038	<0.0045	<0.0047	<0.0051	<0.0039	<0.0032	<0.0030	<0.0053	<0.0041	<0.0057	<0.0045	<0.0047	<0.0049
Chloromethane	mg/kg	<0.0078	<0.0087	<0.0087	<0.0087	<0.0133	<0.0082	<0.0087	<0.0107	<0.0073	<0.0071	<0.0082	<0.0076	<0.0089	<0.0094	<0.0101	<0.0078	<0.0063	<0.0060	<0.0105	<0.0081	<0.0114	<0.0090	<0.0093	<0.0098
cis-1,2-Dichloroethene	mg/kg	<0.0039	<0.0044	<0.0044	<0.0044	<0.0066	<0.0041	<0.0044	<0.0054	<0.0036	<0.0035	<0.0041	<0.0038	<0.0045	<0.0047	<0.0051	<0.0039	<0.0032	<0.0030	<0.0053	<0.0041	<0.0057	<0.0045	<0.0047	<0.0049
cis-1,3-Dichloropropene	mg/kg	<0.0039	<0.0044	<0.0044	<0.0044	<0.0066	<0.0041	<0.0044	<0.0054	<0.0036	<0.0035	<0.0041	<0.0038	<0.0045	<0.0047	<0.0051	<0.0039	<0.0032	<0.0030	<0.0053	<0.0041	<0.0057	<0.0045	<0.0047	<0.0049
Dibromochloromethane	mg/kg	<0.0016	<0.0017	<0.0017	<0.0017	<0.0027	<0.0016	<0.0017	<0.0021	<0.0015	<0.0014	<0.0016	<0.0015	<0.0018	<0.0019	<0.0020	<0.0016	<0.0013	<0.0012	<0.0021	<0.0016	<0.0023	<0.0018	<0.0019	<0.0020
Dibromomethane	mg/kg	<0.0039	<0.0044	<0.0044	<0.0044	<0.0066	<0.0041	<0.0044	<0.0054	<0.0036	<0.0035	<0.0041	<0.0038	<0.0045	<0.0047	<0.0051	<0.0039	<0.0032	<0.0030	<0.0053	<0.0041	<0.0057	<0.0045	<0.0047	<0.0049
Dichlorodifluoromethane	mg/kg	<0.0078	<0.0087	<0.0087	<0.0087	<0.0133	<0.0082	<0.0087	<0.0107	<0.0073	<0.0071	<0.0082	<0.0076	<0.0089	<0.0094	<0.0101	<0.0078	<0.0063	<0.0060	<0.0105	<0.0081	<0.0114	<0.0090	<0.0093	<0.0098
Diethyl Ether	mg/kg	<0.0039	<0.0044	<0.0044	<0.0044	<0.0066	<0.0041	<0.0044	<0.0054	<0.0036	<0.0035	<0.0041	<0.0038	<0.0045	<0.0047	<0.0051	<0.0039	<0.0032	<0.0030	<0.0053	<0.0041	<0.0057	<0.0045	<0.0047	<0.0049
Di-isopropyl ether	mg/kg	<0.0039	<0.0044	<0.0044	<0.0044	<0.0066	<0.0041	<0.0044	<0.0054	<0.0036	<0.0035	<0.0041	<0.0038	<0.0045	<0.0047	<0.0051	<0.0039	<0.0032	<0.0030	<0.0053	<0.0041	<0.0057	<0.0045	<0.0047	<0.0049
Ethyl tertiary-butyl ether	mg/kg	<0.0039	<0.0044	<0.0044	<0.0044	<0.0066	<0.0041	<0.0044	<0.0054	<0.0036	<0.0035	<0.0041	<0.0038	<0.0045	<0.0047	<0.0051	<0.0039	<0.0032	<0.0030	<0.0053	<0.0041	<0.0057	<0.0045	<0.0047	<0.0049
Ethylbenzene	mg/kg	<0.0039	<0.0044	<0.0044	<0.0044	<0.0066	<0.0041	<0.0044	<0.0054	<0.0036	<0.0035	<0.0041	<0.0038	<0.0045	<0.0047	<0.0051	<0.0039	<0.0032	<0.0030	<0.0053	<0.0041	<0.0057	<0.0045	<0.0047	<0.0049
Hexachlorobutadiene	mg/kg	<0.0039	<0.0044	<0.0044	<0.0044	<0.0066	<0.0041	<0.0044	<0.0054	<0.0036	<0.0035	<0.0041	<0.0038	<0.0045	<0.0047	<0.0051	<0.0039	<0.0032	<0.0030	<0.0053	<0.0041	<0.0057	<0.0045	<0.0047	<0.0049
Isopropylbenzene	mg/kg	<0.0039	<0.0044	<0.0044	<0.0044	<0.0066	<0.0041	<0.0044	<0.0054	<0.0036	<0.0035	<0.0041	<0.0038	<0.0045	<0.0047	<0.0051	<0.0039	<0.0032	<0.0030	<0.0053	<0.0041	<0.0057	<0.0045	<0.0047	<0.0049
Methyl tert-Butyl Ether	mg/kg	<0.0039	<0.0044	<0.0044	<0.0044	<0.0066	<0.0041	<0.0044	<0.0054	<0.0036	<0.0035	<0.0041	<0.0038	<0.0045	<0.0047	<0.0051	<0.0039	<0.0032	<0.0030	<0.0053	<0.0041	<0.0057	<0.0045	<0.0047	<0.0049
Methylene Chloride	mg/kg	<0.0078	<0.0087	<0.0087	<0.0087	<0.0133	<0.0082	<0.0087	<0.0107	<0.0073	<0.0071	<0.0082	<0.0076	<0.0089	<0.0094	<0.0101	<0.0078	<0.0063	<0.0060	<0.0105	<0.0081	<0.0114	<0.0090	<0.0093	<0.0098
Naphthalene	mg/kg	<0.0039	<0.0044	<0.0044	<0.0044	<0.0066	<0.0041	<0.0044	0.0142	<0.0036	0.0036	0.0232	0.0075	<0.0045	0.0933	0.0084	0.0048	<0.0032	0.0168	<0.0053	<0.0041	<0.0057	<0.0045	<0.0047	<0.0049
n-Butylbenzene	mg/kg	<0.0039	<0.0044	<0.0044	<0.0044	<0.0066	<0.0041	<0.0044	<0.0054	<0.0036	<0.0035	<0.0041	<0.0038	<0.0045	<0.0047	<0.0051	<0.0039	<0.0032	<0.0030	<0.0053	<0.0041	<0.0057	<0.0045	<0.0047	<0.0049
n-Propylbenzene	mg/kg	<0.0039	<0.0044	<0.0044	<0.0044	<0.0066	<0.0041	<0.0044	<0.0054	<0.0036	<0.0035	<0.0041	<0.0038	<0.0045	<0.0047	<0.0051	<0.0039	<0.0032	<0.0030	<0.0053	<0.0041	<0.0057	<0.0045	<0.0047	<0.0049
sec-Butylbenzene	mg/kg	<0.0039	<0.0044	<0.0044	<0.0044	<0.0066	<0.0041	<0.0044	<0.0054	<0.0036	<0.0035	<0.0041	<0.0038	<0.0045	<0.0047	<0.0051	<0.0039	<0.0032	<0.0030	<0.0053	<0.0041	<0.0057	<0.0045	<0.0047	<0.0049

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Table 1
Soil Precharacterization Data

Wynn Resort Casino
Everett, Massachusetts

Analyte	Precharacterization Cell	D17	D18	D18	D18	D18	D18	D18	D18	D18	D18	D19	D19	D19	D19	D19	D19	D19	D19	D20	D20	D20	D20	D20	D20
	Sample ID	D17S12S13	D18S01S02A	D18S02BS04A	D18S04BS05	D18S06	D18S07S08	D18S09	D18S10	D18S11	D18S12S13	D19S01S02A	D19S02BS04A	D19S04BS05	D19S06S07	D19S08	D19S09	D19S10	D19S11S12	D20S01S02A	D20S02BS04A	D20S04BS05	D20S06S07A	D20S07BS09A	D20S09BS10
	Laboratory Work Order	1502103	1412333	1412333	1412333	1412333	1412333	1412333	1412333	1412333	1412333	1412302	1412302	1412302	1412302	1412302	1412302	1412302	1412302	1412284	1412284	1412284	1412284	1412284	1412284
	Soil Distinction	Natural	Fill	Fill	Fill	Natural	Natural	Natural	Natural	Natural	Natural	Fill	Fill	Fill	Fill	Natural	Natural	Natural	Natural	Fill	Fill	Fill	Fill	Fill	Natural
	Soil Type	Clay				Organics	Organics	Organics	Organics	Sand/Gravel	Sand/Gravel					Organics	Organics	Organics	Clay						Organics
	Depth Interval (ft.)	34 - 38	0 - 3.3	3.3 - 6.6	6.6 - 10	10 - 12	12 - 16	19 - 21	24 - 26	29 - 31	34 - 38	0 - 3.3	3.3 - 6.6	6.6 - 10	10 - 14	19 - 21	24 - 26	29 - 31	34 - 38	0 - 3.3	3.3 - 6.6	6.6 - 10	10 - 13.3	13.3 - 16.6	16.6 - 20
	Sampling Date	2/6/2015	12/16/2014	12/16/2014	12/16/2014	12/16/2014	12/16/2014	12/16/2014	12/16/2014	12/16/2014	12/16/2014	12/15/2014	12/15/2014	12/15/2014	12/15/2014	12/15/2014	12/15/2014	12/15/2014	12/15/2014	12/15/2014	12/12/2014	12/12/2014	12/12/2014	12/12/2014	12/12/2014	12/12/2014
Preliminary Disposal Facility Category		Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Uncontaminated	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type B-1
Styrene	mg/kg	<0.0039	<0.0044	<0.0044	<0.0044	<0.0066	<0.0041	<0.0044	<0.0054	<0.0036	<0.0035	<0.0041	<0.0038	<0.0045	<0.0047	<0.0051	<0.0039	<0.0032	<0.0030	<0.0053	<0.0041	<0.0057	<0.0045	<0.0047	<0.0049
tert-Butylbenzene	mg/kg	<0.0039	<0.0044	<0.0044	<0.0044	<0.0066	<0.0041	<0.0044	<0.0054	<0.0036	<0.0035	<0.0041	<0.0038	<0.0045	<0.0047	<0.0051	<0.0039	<0.0032	<0.0030	<0.0053	<0.0041	<0.0057	<0.0045	<0.0047	<0.0049
Tertiary-amyl methyl ether	mg/kg	<0.0039	<0.0044	<0.0044	<0.0044	<0.0066	<0.0041	<0.0044	<0.0054	<0.0036	<0.0035	<0.0041	<0.0038	<0.0045	<0.0047	<0.0051	<0.0039	<0.0032	<0.0030	<0.0053	<0.0041	<0.0057	<0.0045	<0.0047	<0.0049
Tetrachloroethene	mg/kg	<0.0039	<0.0044	<0.0044	<0.0044	<0.0066	<0.0041	<0.0044	<0.0054	<0.0036	<0.0035	<0.0041	<0.0038	<0.0045	<0.0047	<0.0051	<0.0039	<0.0032	<0.0030	<0.0053	<0.0041	<0.0057	<0.0045	<0.0047	<0.0049
Tetrahydrofuran	mg/kg	<0.0039	<0.0044	<0.0044	<0.0044	<0.0066	<0.0041	<0.0044	<0.0054	<0.0036	<0.0035	<0.0041	<0.0038	<0.0045	<0.0047	<0.0051	<0.0039	<0.0032	<0.0030	<0.0053	<0.0041	<0.0057	<0.0045	<0.0047	<0.0049
Toluene	mg/kg	<0.0039	<0.0044	<0.0044	<0.0044	<0.0066	<0.0041	<0.0044	<0.0054	<0.0036	<0.0035	<0.0041	<0.0038	<0.0045	<0.0047	<0.0051	<0.0039	<0.0032	0.0055	<0.0053	<0.0041	<0.0057	<0.0045	<0.0047	<0.0049
trans-1,2-Dichloroethene	mg/kg	<0.0039	<0.0044	<0.0044	<0.0044	<0.0066	<0.0041	<0.0044	<0.0054	<0.0036	<0.0035	<0.0041	<0.0038	<0.0045	<0.0047	<0.0051	<0.0039	<0.0032	<0.0030	<0.0053	<0.0041	<0.0057	<0.0045	<0.0047	<0.0049
trans-1,3-Dichloropropene	mg/kg	<0.0039	<0.0044	<0.0044	<0.0044	<0.0066	<0.0041	<0.0044	<0.0054	<0.0036	<0.0035	<0.0041	<0.0038	<0.0045	<0.0047	<0.0051	<0.0039	<0.0032	<0.0030	<0.0053	<0.0041	<0.0057	<0.0045	<0.0047	<0.0049
Trichloroethene	mg/kg	<0.0039	<0.0044	<0.0044	<0.0044	<0.0066	<0.0041	<0.0044	<0.0054	<0.0036	<0.0035	<0.0041	<0.0038	<0.0045	<0.0047	<0.0051	<0.0039	<0.0032	<0.0030	<0.0053	<0.0041	<0.0057	<0.0045	<0.0047	<0.0049
Trichlorofluoromethane	mg/kg	<0.0039	<0.0044	<0.0044	<0.0044	<0.0066	<0.0041	<0.0044	<0.0054	<0.0036	<0.0035	<0.0041	<0.0038	<0.0045	<0.0047	<0.0051	<0.0039	<0.0032	<0.0030	<0.0053	<0.0041	<0.0057	<0.0045	<0.0047	<0.0049
Vinyl Chloride	mg/kg	<0.0078	<0.0087	<0.0087	<0.0087	<0.0133	<0.0082	<0.0087	<0.0107	<0.0073	<0.0071	<0.0082	<0.0076	<0.0089	<0.0094	<0.0101	<0.0078	<0.0063	<0.0060	<0.0105	<0.0081	<0.0114	<0.0090	<0.0093	<0.0098
Xylene O	mg/kg	<0.0039	<0.0044	<0.0044	<0.0044	<0.0066	<0.0041	<0.0044	<0.0054	<0.0036	<0.0035	<0.0041	<0.0038	<0.0045	<0.0047	<0.0051	<0.0039	<0.0032	<0.0030	<0.0053	<0.0041	<0.0057	<0.0045	<0.0047	<0.0049
Xylene P,M	mg/kg	<0.0078	<0.0087	<0.0087	<0.0087	<0.0133	<0.0082	<0.0087	<0.0107	<0.0073	<0.0071	<0.0082	<0.0076	<0.0089	<0.0094	<0.0101	<0.0078	<0.0063	<0.0060	<0.0105	<0.0081	<0.0114	<0.0090	<0.0093	<0.0098
Xylenes (Total)	mg/kg	<0.0078	<0.0087	<0.0087	<0.0087	<0.0133	<0.0082	<0.0087	<0.0107	<0.0073	<0.0071	<0.0082	<0.0076	<0.0089	<0.0094	<0.0101	<0.0078	<0.0063	<0.0060	<0.0105	<0.0081	<0.0114	<0.0090	<0.0093	<0.0098
Total VOCs (Low Level)	mg/kg	ND	ND	ND	0.0245	0.0176	ND	0.0234	0.2012	0.0079	0.0036	0.0232	0.0075	ND	0.0933	0.4372	0.0048	0.1033	0.1618	ND	ND	ND	ND	ND	0.0462
Semi-Volatile Organic Compounds																									
1,2,4-Trichlorobenzene	mg/kg	<1.02	<0.886	<0.820	<0.875	<1.13	<0.976	<1.07	<1.20	<0.932	<0.978	<0.774	<0.890	<1.02	<1.14	<1.16	<1.02	<1.04	<1.02	<0.838	<0.825	<1.01	<0.910	<1.17	<1.19
1,2-Dichlorobenzene	mg/kg	<1.02	<0.886	<0.820	<0.875	<1.13	<0.976	<1.07	<1.20	<0.932	<0.978	<0.774	<0.890	<1.02	<1.14	<1.16	<1.02	<1.04	<1.02	<0.838	<0.825	<1.01	<0.910	<1.17	<1.19
1,3-Dichlorobenzene	mg/kg	<1.02	<0.886	<0.820	<0.875	<1.13	<0.976	<1.07	<1.20	<0.932	<0.978	<0.774	<0.890	<1.02	<1.14	<1.16	<1.02	<1.04	<1.02	<0.838	<0.825	<1.01	<0.910	<1.17	<1.19
1,4-Dichlorobenzene	mg/kg	<0.514	<0.444	<0.411	<0.439	<0.565	<0.490	<0.535	<0.604	<0.467	<0.490	<0.388	<0.446	<0.510	<0.571	<0.584	<0.512	<0.521	<0.510	<0.420	<0.414	<0.506	<0.456	<0.587	<0.598
2,4,5-Trichlorophenol	mg/kg	<1.02	<0.886	<0.820	<0.875	<1.13	<0.976	<1.07	<1.20	<0.932	<0.978	<0.774	<0.890	<1.02	<1.14	<1.16	<1.02	<1.04	<1.02	<0.838	<0.825	<1.01	<0.910	<1.17	<1.19
2,4,6-Trichlorophenol	mg/kg	<1.02	<0.886	<0.820	<0.875	<1.13	<0.976	<1.07	<1.20	<0.932	<0.978	<0.774	<0.890	<1.02	<1.14	<1.16	<1.02	<1.04	<1.02	<0.838	<0.825	<1.01	<0.910	<1.17	<1.19
2,4-Dichlorophenol	mg/kg	<1.02	<0.886	<0.820	<0.875	<1.13	<0.976	<1.07	<1.20	<0.932	<0.978	<0.774	<0.890	<1.02	<1.14	<1.16	<1.02	<1.04	<1.02	<0.838	<0.825	<1.01	<0.910	<1.17	<1.19
2,4-Dimethylphenol	mg/kg	<1.02	<0.886	<0.820	<0.875	<1.13	<0.976	<1.07	<1.20	<0.932	<0.978	<0.774	<0.890	<1.02	<1.14	<1.16	<1.02	<1.04	<1.02	<0.838	<0.825	<1.01	<0.910	<1.17	<1.19
2,4-Dinitrophenol	mg/kg	<5.14	<4.44	<4.11	<4.39	<5.65	<4.90	<5.35	<6.04	<4.67	<4.90	<3.88	<4.46	<5.10	<5.71	<5.84	<5.12	<5.21	<5.10	<4.20	<4.14	<5.06	<4.56	<5.87	<5.98
2,4-Dinitrotoluene	mg/kg	<1.02	<0.886	<0.820	<0.875	<1.13	<0.976	<1.07	<1.20	<0.932	<0.978	<0.774	<0.890	<1.02	<1.14	<1.16	<1.02	<1.04	<1.02	<0.838	<0.825	<1.01	<0.910	<1.17	<1.19
2,6-Dinitrotoluene	mg/kg	<1.02	<0.886	<0.820	<0.875	<1.13	<0.976	<1.07	<1.20	<0.932	<0.978	<0.774	<0.890	<1.02	<1.14	<1.16	<1.02	<1.04	<1.02	<0.838	<0.825	<1.01	<0.910	<1.17	<1.19
2-Chloronaphthalene	mg/kg	<1.02	<0.886	<0.820	<0.875	<1.13	<0.976	<1.07	<1.20	<0.932	<0.978	<0.774	<0.890	<1.02	<1.14	<1.16	<1.02	<1.04	<1.02	<0.838	<0.825	<1.01	<0.910	<1.17	<1.19
2-Chlorophenol	mg/kg	<1.02	<0.886	<0.820	<0.875	<1.13	<0.976	<1.07	<1.20	<0.932	<0.978	<0.774	<0.890	<1.02	<1.14	<1.16	<1.02	<1.04	<1.02	<0.838	<0.825	<1.01	<0.910	<1.17	<1.19
2-Methylnaphthalene	mg/kg	<1.02	<0.886	<0.820	<0.875	<1.13	<0.976	<1.07	<1.20	<0.932	<0.978	<0.774	<0.890	<1.02	<1.14	<1.16	<1.02	<1.04	<1.02	<0.838	<0.825	<1.01	<0.910	<1.17	<1.19
2-Methylphenol	mg/kg	<1.02	<0.886	<0.820	<0.875	<1.13	<0.976	<1.07	<1.20	<0.932	<0.978	<0.774	<0.890	<1.02	<1.14	<1.16	<1.02	<1.04	<1.02	<0.838	<0.825	<1.01	<0.910	<1.17	<1.19
2-Nitrophenol	mg/kg	<1.02	<0.886	<0.820	<0.875	<1.13	<0.976	<1.07	<1.20	<0.932	<0.978	<0.774	<0.890	<1.02	<1.14	<1.16	<1.02	<1.04	<1.02	<0.838	<0.825	<1.01	<0.910	<1.17	<1.19
3,3´-Dichlorobenzidine	mg/kg	<2.05	<1.77	<1.64	<1.75	<2.26	<1.96	<2.14	<2.41	<1.87	<1.96	<1.55	<1.78	<2.04	<2.28	<2.33	<2.04	<2.08	<2.04	<1.68	<1.65	<2.02	<1.82	<2.35	<2.39
3+4-Methylphenol	mg/kg	<2.05	<1.77	<1.64	<1.75	<2.26	<1.96	<2.14	<2.41	<1.87	<1.96	<1.55	<1.78	<2.04	<2.28	<2.33	<2.04	<2.08	<2.04	<1.68	<1.65	<2.02	<1.82	<2.35	<2.39
4-Bromophenyl-phenylether	mg/kg	<1.02	<0.886	<0.820	<0.875	<1.13	<0.976	<1.07	<1.20	<0.932	<0.978	<0.774	<0.890	<1.02	<1.14	<1.16	<1.02	<1.04	<1.02	<0.838	<0.825	<1.01	<0.910	<1.17	<1.19
4-Chloroaniline	mg/kg	<2.05	<1.77	<1.64	<1.75	<2.26	<1.96	<2.14	<2.41	<1.87	<1.96	<1.55	<1.78	<2.04	<2.28	<2.33	<2.04	<2.08	<2.04	<1.68	<1.65	<2.02	<1.82	<2.35	<2.39
4-Nitrophenol	mg/kg	<5.14	<4.44	<4.11	<4.39	<5.65	<4.90	<5.35	<6.04	<4.67	<4.90	<3.88	<4.46	<5.10	<5.71	<5.84	<5.12	<5.21	<5.10	<4.20	<4.14	<5.06	<4.56	<5.87	<5.98
Acenaphthene	mg/kg	<1.02	<0.886	<0.820	<0.875	<1.13	<0.976	<1.07	<1.20	<0.932	<0.978	<0.774	<0.890	<1.02	<1.14	<1.16	<1.02	<1.04	<1.02	<0.838	<0.825	<1.01	<0.910	<1.17	<1.19
Acenaphthylene	mg/kg	<1.02	<0.886	<0.820	<0.875	<1.13	<0.976	<1.07	<1.20	<0.932	<0.978	<0.774	<0.890	<1.02	<1.14	<1.16	<1.02	<1.04	<1.02	<0.838	<0.825	<1.01	<0.910	<1.17	<1.19
Acetophenone	mg/kg	<2.05	<1.77	<1.64	<1.75	<2.26	<1.96	<2.14	<2.41	<1.87	<1.96	<1.55	<1.78	<2.04	<2.28	<2.33	<2.04	<2.08	<2.04	<1.68	<1.65	<2.02	<1.82	<2.35	<2.39
Aniline	mg/kg	<5.14	<4.44	<4.11	<4.39	<5.65	<4.90	<5.35	<6.04	<4.67	<4.90	<3.88	<4.46	<5.10	<5.71	<5.84	<5.12	<5.21	<5.10	<4.20	<4.14	<5.06	<4.56	<5.87	<5.98
Anthracene	mg/kg	<1.02	<0.886	<0.820	<0.875	<1.13	<0.976	<1.07	3.28	<0.932	<0.978	<0.774	<0.890	<1.02	<1.14	<1.16	<1.02	<1.04	<1.02	<0.838	<0.825	<1.01	<0.910	<1.17	<1.19
Azobenzene	mg/kg	<1.02	<0.886	<0.820	<0.875	<1.13	<0.976	<1.07	<1.20	<0.932	<0.978	<0.774	<0.890	<1.02	<1.14	<1.16	<1.02	<1.04	<1.02	<0.838	<0.825	<1.01	<0.910	<1.17	<1.19
Benzo(a)anthracene	mg/kg	<1.02	<0.886	<0.820	<0.875	<1.13	<0.976	<1.07	5.76	<0.932	<0.978	<0.774	<0.890	<1.02	<1.14	<1.16	<1.02	<1.04	<1.02	<0.838	<0.825	<1.01	<0.910	<1.17	1.59
Benzo(a)pyrene	mg/kg	<0.514	<0.444	<0.411	<0.439	<0.565	<0.490	<0.535	4.87	<0.467	<0.490	<0.388	<0.446	<0.510	<0.571	<0.584	<0.512	<0.521	<0.510	<0.420	<0.414	<0.506	<0.456	<0.587	1.26
Benzo(b)fluoranthene	mg/kg	<1.02	<0.886	<0.820	<0.875	<1.13	<0.976	<1.07	5.43	<0.932	<0.978	<0.774	<0.890	<1.02	<1.14	<1.16	<1.02	<1.04	<1.02	<0.838	<0.825	<1.01	<0.910	<1.17	1.32
Benzo(g,h,i)perylene	mg/kg	<1.02	<0.886	<0.820	<0.875	<1.13	<0.976	<1.07	1.25	<0.932	<0.978	<0.774	<0.890	<1.02	<1.14	<1.16	<1.02	<1.04	<1.02	<0.838	<0.825	<1.01	<0.910	<1.17	<1.19
Benzo(k)fluoranthene	mg/kg	<1.02	<0.886	<0.820	<0.875	<1.13	<0.976	<1.07	2.08	<0.932	<0.978	<0.774	<0.890	<1.02	<1.14	<1.16	<1.02	<1.04	<1.02	<0.838	<0.825	<1.01	<0.910	<1.17	<1.19
bis(2-Chloroethoxy)methane	mg/kg	<1.02	<0.886	<0.820	<0.875	<1.13	<0.976	<1.07	<1.20	<0.932	<0.978	<0.774	<0.890	<1.02	<1.14	<1.16	<1.02	<1.04	<1.02	<0.838	<0.825	<1.01	<0.910	<1.17	<1.19
bis(2-Chloroethyl)ether	mg/kg	<0.514	<0.444	<0.411	<0.439	<0.565	<0.490	<0.535	<0.604	<0.467	<0.490	<0.388	<0.446	<0.510	<0.571	<0.584	<0.512	<0.521	<0.510	<0.420	<0.414	<0.506	<0.456	<0.587	<0.598
bis(2-chloroisopropyl)Ether	mg/kg	<0.514	<0.444	<0.411	<0.439	<0.565	<0.490	<0.535	<0.604	<0.467	<0.490	<0.388	<0.446	<0.510	<0.571	<0.584	<0.512	<0.521	<0.510	<0.420	<0.414	<0.506	<0.456	<0.587	<0.598
bis(2-Ethylhexyl)phthalate	mg/kg	<1.02	<0.886	<0.820	1.26	<1.13	<0.976	<1.07	<1.20	<0.932	<0.978	<0.774	<0.890	<1.02	<1.14	<1.16	<1.02	<1.04	<1.02	<0.838	29.9	44.1	<0.910	<1.17	<1.19
Butylbenzylphthalate	mg/kg	<1.02	<0.886	<0.820	<0.875	<1.13	<0.976	<1.07	<1.20	<0.932	<0.978	<0.774	<0.890	<1.02	<1.14	<1.16	<1.02	<1.04	<1.02	<0.838	<0.825	<1.01	<0.910	<1.17	<1.19
Chrysene	mg/kg	<0.514	<0.444	<0.411	0.47	<0.565	<0.490	<0.535	6.84	<0.467	<0.490	<0.388	<0.446	<0.510	<0.571	<0.584	<0.512	<0.521	<0.510	<0.420	0.443	<0.506	<0.456	<0.587	1.34
Dibenzo(a,h)Anthracene	mg/kg	<0.514	<0.444	<0.411	<0.439	<0.565	<0.490	<0.535	<0.604	<0.467	<0.490	<0.388	<0.446	<0.510	<0.571	<0.584	<0.512	<0.521	<0.510	<0.420	<0.414	<0.506	<0.456	<0.587	<0.598
Dibenzofuran	mg/kg	<1.02	<0.886	<0.820	<0.875	<1.13	<0.976	<1.07	<1.20	<0.932	<0.978	<0.774	<0.890	<1.02	<1.14	<1.16	<1.02	<1.04	<1.02	<0.838	<0.825	<1.01	<0.910	<1.17	<1.19
Diethylphthalate	mg/kg	<1.02	<0.886	<0.820	<0.875	<1.13	<0.976	<1.07	<1.20	<0.932	<0.978	<0.774	<0.890	<1.02	<1.14	<1.16	<1.02	<1.04	<1.02	<0.838	<0.825	<1.01	<0.910	<1.17	<1.19
Dimethylphthalate	mg/kg	<1.02	<0.886	<0.820	<0.875	<1.13	<0.976	<1.07	<1.20	<0.932	<0.978	<0.774	<0.890	<1.02	<1.14	<1.16	<1.02	<1.04	<1.02	<0.838	<0.825	<1.01	<0.910	<1.17	<1.19
Di-n-butylphthalate	mg/kg	<1.02	<0.886	<0.820	<0.875	<1.13	<0.976	<1.07	<1.20	<0.932	<0.978	<0.774	<0.890	<1.02	<1.14	<1.16	<1.02	<1.04	<1.02	<0.838	<0.825	<1.01	<0.910	<1.17	<1.19
Di-n-octylphthalate	mg/kg	<1.02	<0.886	<0.820	<0.875	<1.13	<0.976	<1.07	<1.20	<0.932	<0.978	<0.774	<0.890	<1.02	<1.14	<1.16	<1.02	<1.04	<1.02	<0.838	<0.825	<1.01	<0.910	<1.17	<1.19
Fluoranthene	mg/kg	<1.02	<0.886	<0.820	<0.875	<1.13	<0.976	<1.07	9.21	<0.932	<0.978	<0.774	<0.890	<1.02	<1.14	<1.16	<1.02	<1.04	<1.02	<0.838	0.953	<1.01	<0.910	<1.17	3.97
Fluorene	mg/kg	<1.02	<0.886	<0.820	<0.875	<1.13	<0.976	<1.07	1.24	<0.932	<0.978	<0.774	<0.890	<1.02	<1.14	<1.16	<1.02	<1.04	<1.02	<0.838	<0.825	<1.01	<0.910	<1.17	<1.19
Hexachlorobenzene	mg/kg	<0.514	<0.444	<0.411	<0.439	<0.565	<0.490	<0.535	<0.604	<0.467	<0.490	<0.388	<0.446	<0.510	<0.571	<0.584	<0.512	<0.521	<0.510	<0.420	<0.414	<0.506	<0.456	<0.587	<0.598
Hexachlorobutadiene	mg/kg	<1.02	<0.886	<0.820	<0.875	<1.13	<0.976	<1.07	<1.20	<0.932	<0.978	<0.774	<0.890	<1.02	<1.14	<1.16	<1.02	<1.04	<1.02	<0.838	<0.825	<1.01	<0.910	<1.17	<1.19
Hexachloroethane	mg/kg	<1.02	<0.886	<0.820	<0.875	<1.13	<0.976	<1.07	<1.20	<0.932	<0.978	<0.774	<0.890	<1.02	<1.14	<1.16	<1.02	<1.04	<1.02	<0.838	<0.825	<1.01	<0.910	<1.17	<1.19
Indeno(1,2,3-cd)Pyrene	mg/kg	<1.02	<0.886	<0.820	<0.875	<1.13	<0.976	<1.07	1.23	<0.932	<0.978	<0.774	<0.890	<1.02	<1.14	<1.16	<1.02	<1.04	<1.02	<0.838	<0.825	<1.01	<0.910	<1.17	<1.19
Isophorone	mg/kg	<1.02	<0.886	<0.820	<0.875	<1.13	<0.976	<1.07	<1.20	<0.932	<0.978	<0.774	<0.890	<1.02	<1.14	<1.16	<1.02	<1.04	<1.02	<0.838	<0.825	<1.01	<0.910	<1.17	<1.19
Naphthalene	mg/kg	<1.02	<0.886	<0.820	<0.875	<1.13	<0.976	<1.07	1.37	<0.932	<0.978	<0.774	<0.890	<1.02	<1.14	<1.16	<1.02	<1.04	<1.02	<0.838	<0.825	<1.01	<0.910	5.05	<1.19
Nitrobenzene	mg/kg	<1.02	<0.886	<0.820	<0.875	<1.13	<0.976	<1.07	<1.20	<0.932	<0.978	<0.774	<0.890	<1.02	<1.14	<1.16	<1.02	<1.04	<1.02	<0.838	<0.825	<1.01	<0.910	<1.17	<1.19
N-Nitrosodimethylamine	mg/kg	<1.02	<0.886	<0.820	<0.875	<1.13	<0.976	<1.07	<1.20	<0.932	<0.978	<0.774	<0.890	<1.02	<1.14	<1.16	<1.02	<1.04	<1.02	<0.838	<0.825	<1.01	<0.910	<1.17	<1.19
Pentachlorophenol	mg/kg	<5.14	<4.44	<4.11	<4.39	<5.65	<4.90	<5.35	<6.04	<4.67	<4.90	<3.88	<4.46	<5.10	<5.71	<5.84	<5.12	<5.21	<5.10	<4.20	<4.14	<5.06	<4.56	<5.87	<5.98
Phenanthrene	mg/kg	<1.02	<0.886	<0.820	<0.875	<1.13	<0.976	<1.07	7.83	<0.932	<0.978	<0.774	<0.890	<1.02	<1.14	<1.16	<1.02	<1.04	<1.02	<0.838	<0.825	<1.01	<0.910	1.42	2.26
Phenol	mg/kg	<1.02	<0.886	<0.820	<0.875	<1.13	<0.976	<1.07	<1.20	<0.932	<0.978	<0.774	<0.890	<1.02	<1.14	<1.16	<1.02	<1.04	<1.02	<0.838	<0.825	<1.01	<0.910	<1.17	<1.19
Pyrene	mg/kg	<1.02	<0.886	<0.820	<0.875	<1.13	<0.976	<1.07	11	<0.932	<0.978	<0.774	<0.890	<1.02	<1.14	<1.16	<1.02	<1.04	<1.02	<0.838	<0.825	<1.01	<0.910	<1.17	2.93
Total SVOCs	mg/kg	ND	ND	ND	1.73	ND	ND	ND	61.39	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	31.296	44.1	ND	6.47	14.67
Classic Chemistry																									
Corrosivity (pH)	S.U.	7.41	8.4	8.18	4.13	4.03	6.19	4.49	7.72	6.39	4.84	8.51	7.86	4.67	3.61	3.81	6.7	4.02	3.81	8.84	8.4	7.65	7.13	4.76	4.94
Conductivity	umhos/cm	9470	895	1560	1640	1270	2740	9550	16100	1120	1500	1000	10400	1430	920	3270	2510	910	8700	231	1170	1190	623	1990	5670
Flashpoint	°F	--	>200	>200	>200	>200	--	--	--	--	--	>200	>200	>200	--	--	--	--	--	>200	>200	>200	>200	>200	--
Reactive Cyanide	mg/kg	--	<2.0	<2.0	<2.0	<2.0	--	--	--	--	--	<2.0	<2.0	<2.0	--	--	--	--	--	<2.0	<2.0	<2.0	<2.0	<2.0	--
Reactive Sulfide	mg/kg	--	<2.0	<2.0	<2.0	<2.0	--	--	--	--	--	<2.0	<2.0	<2.0	--	--	--	--	--	<2.0	<2.0	<2.0	<2.0	<2.0	--

Analyte	Precharacterization Cell	D20	D20	D20	D21	D21	D21	D21	D21	D21	D21	D21	D21	D21	D22	D22	D22	D22	D22	D22	D22	D22	D22	D23	D23
	Sample ID	D20S11	D20S12	D20S13	D21S01S02A	D21S02BS04A	D21S04BS05	D21S06	D21S06S07A	D21S07BS08	D21S09	D21S10	D21S11	D21S12S13	D22S01S02A	D22S02BS04A	D22S04BS05	D22S06S07	D22S08	D22S09	D22S10	D22S11	D22S12S13	D23S01S02A	D23S02BS04A
	Laboratory Work Order	1412284	1412302	1412247	1412247	1412247	1412247	1412247	1412284	1412284	1412284	1412284	1412284	1412284	1412247	1412247	1412247	1412247	1412247	1412247	1412247	1412247	1412247	1412222	1412222
	Soil Distinction	Natural	Natural	Natural	Fill	Fill	Fill	See D21S06S07A	Fill	Fill	Natural	Natural	Natural	Natural	Fill	Fill	Fill	Fill	Natural	Natural	Natural	Natural	Natural	Fill	Fill
	Soil Type	Organics	Organics	Organics							Organics	Organics	Organics	Organics					Organics	Organics	Organics	Organics	Organics		
	Depth Interval (ft.)	24 - 26	29 - 31	34 - 36	0 - 3.3	3.3 - 6.6	6.6 - 10	10 - 12	10 - 13.3	13.3 - 16	19 - 21	24 - 26	29 - 31	34 - 38	0 - 3.3	3.3 - 6.6	6.6 - 10	10 - 14	14 - 16	19 - 21	24 - 26	29 - 31	34 - 38	0 - 3.3	3.3 - 6.6
	Sampling Date	12/12/2014	12/15/2014	12/15/2014	12/11/2014	12/11/2014	12/11/2014	12/11/2014	12/12/2014	12/12/2014	12/12/2014	12/12/2014	12/12/2014	12/12/2014	12/11/2014	12/11/2014	12/11/2014	12/11/2014	12/11/2014	12/11/2014	12/11/2014	12/11/2014	12/11/2014	12/11/2014	12/10/2014	12/10/2014
Preliminary Disposal Facility Category		Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	See D21S06S07A	MCP Regulated Type A	MCP Regulated Type A	Uncontaminated	Uncontaminated	Uncontaminated	Hazardous Material Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A
RCRA 8 Metals	**Units**																								
Arsenic	mg/kg	4.93	11.7	6.72	6.37	5.32	343	--	96.7	12.5	7.58	4.97	5.09	4.79	43.5	6.33	96.7	48.4	318	7.13	13.9	5.32	4.49	7.09	8.34
Barium	mg/kg	15	19.3	43.3	16	16.5	159	--	96.3	32.9	24.4	15.1	13.8	16.5	27.1	16.8	118	190	298	19.9	17.7	19.1	14.7	14.3	34.4
Cadmium	mg/kg	<0.51	<0.59	<0.48	<0.41	<0.38	4.81	--	8.2	<0.59	<0.65	<0.56	<0.67	<0.48	0.69	<0.51	11	1.04	8.98	<0.63	<0.64	<0.63	<0.62	<0.47	<0.52
Chromium	mg/kg	13.2	18.9	25.9	16.8	13.4	20.9	--	68.7	20.6	24.9	15.3	13.8	15.3	19.4	18.1	66.7	6.48	19.3	21	16.2	17.3	13.4	16.1	16.9
Lead	mg/kg	<5.11	8.7	8.6	9.04	12.3	665	--	2660	48.9	12.2	<5.63	<6.69	<4.76	84.9	7.74	556	252	364	6.36	<6.39	<6.27	<6.16	9.07	42.2
Selenium	mg/kg	<10.2	<11.7	<9.62	<8.12	<7.63	<9.03	--	<9.31	<11.7	<12.9	<11.3	<13.4	<9.52	<8.30	<10.2	<9.51	26.1	<12.7	<12.6	<12.8	<12.5	<12.3	<2.37	<2.60
Silver	mg/kg	<0.51	<0.59	<0.48	<0.41	<0.38	4	--	1.03	<0.59	<0.65	<0.56	<0.67	<0.48	0.67	<0.51	1.21	0.74	2.84	<0.63	<0.64	<0.63	<0.62	<0.47	<0.52
Mercury	mg/kg	<0.035	<0.034	<0.030	<0.031	0.043	2.64	--	0.291	0.201	<0.035	<0.033	<0.041	<0.044	0.17	<0.030	9.93	2.34	0.248	<0.049	<0.040	<0.041	<0.045	<0.024	0.499
Metals by Toxicity Characteristic Leaching Procedure (TCLP)																									
Arsenic	mg/L	--	--	--	--	--	<0.050	--	--	--	--	--	--	--	--	--	--	--	3.01	--	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead	mg/L	--	--	--	--	--	<0.050	--	8.96	--	--	--	--	--	--	--	<0.050	0.227	0.179	--	--	--	--	--	--
Selenium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.050	--	--	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.00050	--	--	--	--	--	--	--	--
Herbicides																									
2,4,5-T	mg/kg	--	--	--	<0.048	<0.055	<0.058	--	<0.060	--	--	--	--	--	<0.050	<0.053	<0.055	<0.064	--	--	--	--	--	<0.050	<0.049
2,4-D	mg/kg	--	--	--	<0.048	<0.055	<0.058	--	<0.060	--	--	--	--	--	<0.050	<0.053	<0.055	<0.064	--	--	--	--	--	<0.050	<0.049
2,4-DB	mg/kg	--	--	--	<0.048	<0.055	<0.058	--	<0.060	--	--	--	--	--	<0.050	<0.053	<0.055	<0.064	--	--	--	--	--	<0.050	<0.049
Dalapon	mg/kg	--	--	--	<0.58	<0.67	<0.70	--	<0.72	--	--	--	--	--	<0.60	<0.64	<0.66	<0.77	--	--	--	--	--	<0.60	<0.59
Dicamba	mg/kg	--	--	--	<0.048	<0.055	<0.058	--	<0.060	--	--	--	--	--	<0.050	<0.053	<0.055	<0.064	--	--	--	--	--	<0.050	<0.049
Dichlorprop	mg/kg	--	--	--	<0.048	<0.055	<0.058	--	<0.060	--	--	--	--	--	<0.050	<0.053	<0.055	<0.064	--	--	--	--	--	<0.050	<0.049
Dinoseb	mg/kg	--	--	--	<0.29	<0.33	<0.35	--	<0.36	--	--	--	--	--	<0.30	<0.32	<0.33	<0.38	--	--	--	--	--	<0.30	<0.30
MCPA	mg/kg	--	--	--	<12	<13	<14	--	<14	--	--	--	--	--	<12	<13	<13	<15	--	--	--	--	--	<12	<12
MCPP	mg/kg	--	--	--	<12	<13	<14	--	<14	--	--	--	--	--	<12	<13	<13	<15	--	--	--	--	--	<12	<12
Silvex (2,4,5-TP)	mg/kg	--	--	--	<0.048	<0.055	<0.058	--	<0.060	--	--	--	--	--	<0.050	<0.053	<0.055	<0.064	--	--	--	--	--	<0.050	<0.049
Pesticides																									
4,4'-DDD	mg/kg	--	--	--	<0.0018	<0.0019	<0.0022	--	<0.0020	--	--	--	--	--	<0.0019	<0.0019	<0.0019	<0.0022	--	--	--	--	--	<0.0018	<0.0018
4,4'-DDE	mg/kg	--	--	--	<0.0018	<0.0019	<0.0022	--	<0.0020	--	--	--	--	--	<0.0019	<0.0019	<0.0019	<0.0022	--	--	--	--	--	<0.0018	<0.0018
4,4'-DDT	mg/kg	--	--	--	<0.0018	<0.0019	<0.0022	--	<0.0020	--	--	--	--	--	<0.0019	<0.0019	<0.0019	<0.0022	--	--	--	--	--	<0.0018	<0.0018
Aldrin	mg/kg	--	--	--	<0.0018	<0.0019	<0.0022	--	<0.0020	--	--	--	--	--	<0.0019	<0.0019	<0.0019	<0.0022	--	--	--	--	--	<0.0018	<0.0018
alpha-BHC	mg/kg	--	--	--	<0.0018	<0.0019	<0.0022	--	<0.0020	--	--	--	--	--	<0.0019	<0.0019	<0.0019	<0.0022	--	--	--	--	--	<0.0018	<0.0018
beta-BHC	mg/kg	--	--	--	<0.0018	<0.0019	<0.0022	--	<0.0020	--	--	--	--	--	<0.0019	<0.0019	<0.0019	<0.0022	--	--	--	--	--	<0.0018	<0.0018
Chlordane (technical)	mg/kg	--	--	--	<0.018	<0.019	<0.022	--	<0.020	--	--	--	--	--	<0.019	<0.019	<0.019	<0.022	--	--	--	--	--	<0.018	<0.018
delta-BHC	mg/kg	--	--	--	<0.0018	<0.0019	<0.0022	--	<0.0020	--	--	--	--	--	<0.0019	<0.0019	<0.0019	<0.0022	--	--	--	--	--	<0.0018	<0.0018
Dieldrin	mg/kg	--	--	--	<0.0018	<0.0019	<0.0022	--	<0.0020	--	--	--	--	--	<0.0019	<0.0019	<0.0019	<0.0022	--	--	--	--	--	<0.0018	<0.0018
Endosulfan I	mg/kg	--	--	--	<0.0018	<0.0019	<0.0022	--	<0.0020	--	--	--	--	--	<0.0019	<0.0019	<0.0019	<0.0022	--	--	--	--	--	<0.0018	<0.0018
Endosulfan II	mg/kg	--	--	--	<0.0018	<0.0019	<0.0022	--	<0.0020	--	--	--	--	--	<0.0019	<0.0019	<0.0019	<0.0022	--	--	--	--	--	<0.0018	<0.0018
Endosulfan sulfate	mg/kg	--	--	--	<0.0018	<0.0019	<0.0022	--	<0.0020	--	--	--	--	--	<0.0019	<0.0019	<0.0019	<0.0022	--	--	--	--	--	<0.0018	<0.0018
Endrin	mg/kg	--	--	--	<0.0018	<0.0019	<0.0022	--	<0.0020	--	--	--	--	--	<0.0019	<0.0019	<0.0019	<0.0022	--	--	--	--	--	<0.0018	<0.0018
Endrin ketone	mg/kg	--	--	--	<0.0018	<0.0019	<0.0022	--	<0.0020	--	--	--	--	--	<0.0019	<0.0019	<0.0019	<0.0022	--	--	--	--	--	<0.0018	<0.0018
gamma-BHC (Lindane)	mg/kg	--	--	--	<0.0018	<0.0019	<0.0022	--	<0.0020	--	--	--	--	--	<0.0019	<0.0019	<0.0019	<0.0022	--	--	--	--	--	<0.0018	<0.0018
Heptachlor	mg/kg	--	--	--	<0.0018	<0.0019	<0.0022	--	<0.0020	--	--	--	--	--	<0.0019	<0.0019	<0.0019	<0.0022	--	--	--	--	--	<0.0018	<0.0018
Heptachlor epoxide	mg/kg	--	--	--	<0.0018	<0.0019	<0.0022	--	<0.0020	--	--	--	--	--	<0.0019	<0.0019	<0.0019	<0.0022	--	--	--	--	--	<0.0018	<0.0018
Hexachlorobenzene	mg/kg	--	--	--	<0.0018	<0.0019	<0.0022	--	<0.0020	--	--	--	--	--	<0.0019	<0.0019	<0.0019	<0.0022	--	--	--	--	--	<0.0018	0.0094
Methoxychlor	mg/kg	--	--	--	<0.0018	<0.0019	<0.0022	--	<0.0020	--	--	--	--	--	<0.0019	<0.0019	<0.0019	<0.0022	--	--	--	--	--	<0.0018	<0.0018
Polychlorinated Biphenyls																									
Aroclor 1016	mg/kg	<0.145	<0.139	<0.153	<0.134	<0.125	<0.148	--	<0.147	<0.169	<0.177	<0.156	<0.169	<0.164	<0.135	<0.139	<0.133	<0.189	<0.190	<0.173	<0.160	<0.157	<0.170	<0.133	<0.142
Aroclor 1221	mg/kg	<0.145	<0.139	<0.153	<0.134	<0.125	<0.148	--	<0.147	<0.169	<0.177	<0.156	<0.169	<0.164	<0.135	<0.139	<0.133	<0.189	<0.190	<0.173	<0.160	<0.157	<0.170	<0.133	<0.142
Aroclor 1232	mg/kg	<0.145	<0.139	<0.153	<0.134	<0.125	<0.148	--	<0.147	<0.169	<0.177	<0.156	<0.169	<0.164	<0.135	<0.139	<0.133	<0.189	<0.190	<0.173	<0.160	<0.157	<0.170	<0.133	<0.142
Aroclor 1242	mg/kg	<0.145	<0.139	<0.153	<0.134	<0.125	<0.148	--	<0.147	<0.169	<0.177	<0.156	<0.169	<0.164	<0.135	<0.139	<0.133	<0.189	<0.190	<0.173	<0.160	<0.157	<0.170	<0.133	<0.142
Aroclor 1248	mg/kg	<0.145	<0.139	<0.153	<0.134	<0.125	<0.148	--	<0.147	<0.169	<0.177	<0.156	<0.169	<0.164	<0.135	<0.139	<0.133	<0.189	<0.190	<0.173	<0.160	<0.157	<0.170	<0.133	<0.142
Aroclor 1254	mg/kg	<0.145	<0.139	<0.153	<0.134	1.4	14.7	--	<0.147	<0.169	<0.177	<0.156	<0.169	<0.164	<0.135	<0.139	1.7	<0.189	<0.190	<0.173	<0.160	<0.157	<0.170	<0.133	0.391
Aroclor 1260	mg/kg	<0.145	<0.139	<0.153	<0.134	0.473	<0.148	--	<0.147	<0.169	<0.177	<0.156	<0.169	<0.164	<0.135	<0.139	0.452	<0.189	<0.190	<0.173	<0.160	<0.157	<0.170	<0.133	0.168
Aroclor 1262	mg/kg	<0.145	<0.139	<0.153	0.194	<0.125	<0.148	--	<0.147	<0.169	<0.177	<0.156	<0.169	<0.164	<0.135	<0.139	<0.133	<0.189	<0.190	<0.173	<0.160	<0.157	<0.170	<0.133	<0.142
Aroclor 1268	mg/kg	<0.145	<0.139	<0.153	<0.134	<0.125	3.33	--	<0.147	<0.169	<0.177	<0.156	<0.169	<0.164	<0.135	<0.139	<0.133	<0.189	<0.190	<0.173	<0.160	<0.157	<0.170	<0.133	<0.142
Total PCBs	mg/kg	ND	ND	ND	0.194	1.873	18.03	--	ND	ND	ND	ND	ND	ND	ND	ND	2.152	ND	ND	ND	ND	ND	ND	ND	0.559
Total Petroleum Hydrocarbons	mg/kg	950	305	<49.0	<41.4	45.7	233	--	197	103	61.9	<51.1	<54.9	<50.6	<41.5	<39.5	227	286	108	<53.8	<51.3	<48.1	<52.2	<37.8	46.2
Volatile Organic Compounds (VOCs)																									
1,1,1,2-Tetrachloroethane	mg/kg	<0.116	<0.0831	<0.103	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0661	--
1,1,1-Trichloroethane	mg/kg	<0.0581	<0.0415	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0331	--
1,1,2,2-Tetrachloroethane	mg/kg	<0.0581	<0.0415	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0331	--
1,1,2-Trichloroethane	mg/kg	<0.0581	<0.0415	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0331	--
1,1-Dichloroethane	mg/kg	<0.0581	<0.0415	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0331	--
1,1-Dichloroethene	mg/kg	<0.0581	<0.0415	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0331	--
1,1-Dichloropropene	mg/kg	<0.0581	<0.0415	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0331	--
1,2,3-Trichlorobenzene	mg/kg	<0.0581	<0.0415	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0331	--
1,2,3-Trichloropropane	mg/kg	<0.0581	<0.0415	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0331	--
1,2,4-Trichlorobenzene	mg/kg	<0.0581	<0.0415	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0331	--
1,2,4-Trimethylbenzene	mg/kg	0.365	1.33	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0331	--
1,2-Dibromo-3-Chloropropane	mg/kg	<0.233	<0.166	<0.206	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.132	--
1,2-Dibromoethane	mg/kg	<0.0581	<0.0415	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0331	--
1,2-Dichlorobenzene	mg/kg	<0.0581	<0.0415	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0331	--
1,2-Dichloroethane	mg/kg	<0.0581	<0.0415	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0331	--
1,2-Dichloropropane	mg/kg	<0.0581	<0.0415	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0331	--
1,3,5-Trimethylbenzene	mg/kg	0.195	0.629	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0331	--
1,3-Dichlorobenzene	mg/kg	<0.0581	<0.0415	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0331	--
1,3-Dichloropropane	mg/kg	<0.0581	<0.0415	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0331	--
1,4-Dichlorobenzene	mg/kg	<0.0581	<0.0415	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0331	--
1,4-Dioxane - Screen	mg/kg	<5.81	<4.15	<5.15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<3.31	--
2,2-Dichloropropane	mg/kg	<0.116	<0.0831	<0.103	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0661	--
2-Butanone	mg/kg	<0.233	<0.166	<0.206	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.132	--
2-Chlorotoluene	mg/kg	<0.0581	<0.0415	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0331	--
2-Hexanone	mg/kg	<0.233	<0.166	<0.206	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.132	--
4-Chlorotoluene	mg/kg	<0.0581	<0.0415	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0331	--
4-Isopropyltoluene	mg/kg	<0.0581	0.0839	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0331	--
4-Methyl-2-Pentanone	mg/kg	<0.233	<0.166	<0.206	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.132	--
Acetone	mg/kg	0.651	<0.166	<0.206	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.132	--
Benzene	mg/kg	0.123	0.222	0.152	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0331	--
Bromobenzene	mg/kg	<0.0581	<0.0415	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0331	--
Bromochloromethane	mg/kg	<0.0581	<0.0415	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0331	--
Bromodichloromethane	mg/kg	<0.0581	<0.0415	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0331	--
Bromoform	mg/kg	<0.0581	<0.0415	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0331	--
Bromomethane	mg/kg	<0.116	<0.0831	<0.103	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0661	--
Carbon Disulfide	mg/kg	<0.0581	<0.0415	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0331	--
Carbon Tetrachloride	mg/kg	<0.0581	<0.0415	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0331	--

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	D20 D20S11 1412284 Natural Organics 24 - 26 12/12/2014	D20 D20S12 1412302 Natural Organics 29 - 31 12/15/2014	D20 D20S13 1412302 Natural Organics 34 - 36 12/15/2014	D21 D21S01S02A 1412247 Fill 0 - 3.3 12/11/2014	D21 D21S02BS04A 1412247 Fill 3.3 - 6.6 12/11/2014	D21 D21S04BS05 1412247 Fill 6.6 - 10 12/11/2014	D21 D21S06 1412247 See D21S06S07A 10 - 12 12/11/2014	D21 D21S06S07A 1412284 Fill 10 - 13.3 12/12/2014	D21 D21S07BS08 1412284 Fill 13.3 - 16 12/12/2014	D21 D21S09 1412284 Natural Organics 19 - 21 12/12/2014	D21 D21S10 1412284 Natural Organics 24 - 26 12/12/2014	D21 D21S11 1412284 Natural Organics 29 - 31 12/12/2014	D21 D21S12S13 1412284 Natural Organics 34 - 38 12/12/2014	D22 D22S01S02A 1412247 Fill 0 - 3.3 12/11/2014	D22 D22S02BS04A 1412247 Fill 3.3 - 6.6 12/11/2014	D22 D22S04BS05 1412247 Fill 6.6 - 10 12/11/2014	D22 D22S06S07 1412247 Fill 10 - 14 12/11/2014	D22 D22S08 1412247 Natural Organics 14 - 16 12/11/2014	D22 D22S09 1412247 Natural Organics 19 - 21 12/11/2014	D22 D22S10 1412247 Natural Organics 24 - 26 12/11/2014	D22 D22S11 1412247 Natural Organics 29 - 31 12/11/2014	D22 D22S12S13 1412247 Natural Organics 34 - 38 12/11/2014	D23 D23S01S02A 1412222 Fill 0 - 3.3 12/10/2014	D23 D23S02BS04A 1412222 Fill 3.3 - 6.6 12/10/2014
Preliminary Disposal Facility Category		Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	See D21S06S07A	MCP Regulated Type A	MCP Regulated Type A	Uncontaminated	Uncontaminated	Uncontaminated	Hazardous Material Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A
Chlorobenzene	mg/kg	<0.0581	<0.0415	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0331	--
Chloroethane	mg/kg	<0.116	<0.0831	<0.103	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0661	--
Chloroform	mg/kg	<0.0581	<0.0415	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0331	--
Chloromethane	mg/kg	<0.116	<0.0831	<0.103	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0661	--
cis-1,2-Dichloroethene	mg/kg	<0.0581	<0.0415	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0331	--
cis-1,3-Dichloropropene	mg/kg	<0.0581	<0.0415	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0331	--
Dibromochloromethane	mg/kg	<0.0581	<0.0415	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0331	--
Dibromomethane	mg/kg	<0.0581	<0.0415	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0331	--
Dichlorodifluoromethane	mg/kg	<0.0581	<0.0415	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0331	--
Diethyl Ether	mg/kg	<0.0581	<0.0415	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0331	--
Di-isopropyl ether	mg/kg	<0.0581	<0.0415	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0331	--
Ethyl tertiary-butyl ether	mg/kg	<0.0581	<0.0415	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0331	--
Ethylbenzene	mg/kg	0.112	0.503	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0331	--
Hexachlorobutadiene	mg/kg	<0.0581	<0.0415	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0331	--
Isopropylbenzene	mg/kg	<0.0581	0.0739	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0331	--
Methyl tert-Butyl Ether	mg/kg	<0.0581	<0.0415	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0331	--
Methylene Chloride	mg/kg	<0.233	<0.166	<0.206	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.132	--
Naphthalene	mg/kg	61.1	179	0.345	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0331	--
n-Butylbenzene	mg/kg	0.13	<0.0415	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0331	--
n-Propylbenzene	mg/kg	<0.0581	0.0424	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0331	--
sec-Butylbenzene	mg/kg	<0.0581	<0.0415	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0331	--
Styrene	mg/kg	<0.0581	0.0623	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0331	--
tert-Butylbenzene	mg/kg	<0.0581	<0.0415	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0331	--
Tertiary-amyl methyl ether	mg/kg	<0.0581	<0.0415	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0331	--
Tetrachloroethene	mg/kg	<0.0581	<0.0415	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0331	--
Tetrahydrofuran	mg/kg	<0.233	<0.166	<0.206	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.132	--
Toluene	mg/kg	0.116	0.502	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0331	--
trans-1,2-Dichloroethene	mg/kg	<0.0581	<0.0415	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0331	--
trans-1,3-Dichloropropene	mg/kg	<0.0581	<0.0415	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0331	--
Trichloroethene	mg/kg	<0.0581	<0.0415	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0331	--
Trichlorofluoromethane	mg/kg	<0.0581	<0.0415	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0331	--
Vinyl Chloride	mg/kg	<0.0581	<0.0415	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0331	--
Xylene O	mg/kg	0.177	0.601	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0331	--
Xylene P,M	mg/kg	0.257	1.37	<0.103	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0661	--
Xylenes (Total)	mg/kg	0.434	1.97	<0.103	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0661	--
Total VOCs	mg/kg	63.66	186.3895	0.497	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	ND	--
Volatile Organic Compounds - Low Level Analysis																									
1,1,1,2-Tetrachloroethane	mg/kg	--	--	<0.0034	<0.0035	<0.0047	<0.0057	<0.0046	--	<0.0044	<0.0051	<0.0041	<0.0042	<0.0039	<0.0035	<0.0039	<0.0046	<0.0050	<0.0067	<0.0053	<0.0045	<0.0040	<0.0041	--	<0.0050
1,1,1-Trichloroethane	mg/kg	--	--	<0.0034	<0.0035	<0.0047	<0.0057	<0.0046	--	<0.0044	<0.0051	<0.0041	<0.0042	<0.0039	<0.0035	<0.0039	<0.0046	<0.0050	<0.0067	<0.0053	<0.0045	<0.0040	<0.0041	--	<0.0050
1,1,2,2-Tetrachloroethane	mg/kg	--	--	<0.0014	<0.0014	<0.0019	<0.0023	<0.0018	--	<0.0018	<0.0020	<0.0016	<0.0017	<0.0016	<0.0014	<0.0016	<0.0018	<0.0020	<0.0027	<0.0021	<0.0018	<0.0016	<0.0017	--	<0.0020
1,1,2-Trichloroethane	mg/kg	--	--	<0.0034	<0.0035	<0.0047	<0.0057	<0.0046	--	<0.0044	<0.0051	<0.0041	<0.0042	<0.0039	<0.0035	<0.0039	<0.0046	<0.0050	<0.0067	<0.0053	<0.0045	<0.0040	<0.0041	--	<0.0050
1,1-Dichloroethane	mg/kg	--	--	<0.0034	<0.0035	<0.0047	<0.0057	0.0312	--	<0.0044	<0.0051	<0.0041	<0.0042	<0.0039	<0.0035	<0.0039	<0.0046	<0.0050	<0.0067	<0.0053	<0.0045	<0.0040	<0.0041	--	<0.0050
1,1-Dichloroethene	mg/kg	--	--	<0.0034	<0.0035	<0.0047	<0.0057	<0.0046	--	<0.0044	<0.0051	<0.0041	<0.0042	<0.0039	<0.0035	<0.0039	<0.0046	<0.0050	<0.0067	<0.0053	<0.0045	<0.0040	<0.0041	--	<0.0050
1,1-Dichloropropene	mg/kg	--	--	<0.0034	<0.0035	<0.0047	<0.0057	<0.0046	--	<0.0044	<0.0051	<0.0041	<0.0042	<0.0039	<0.0035	<0.0039	<0.0046	<0.0050	<0.0067	<0.0053	<0.0045	<0.0040	<0.0041	--	<0.0050
1,2,3-Trichlorobenzene	mg/kg	--	--	<0.0034	<0.0035	<0.0047	<0.0057	<0.0046	--	<0.0044	<0.0051	<0.0041	<0.0042	<0.0039	<0.0035	<0.0039	<0.0046	<0.0050	<0.0067	<0.0053	<0.0045	<0.0040	<0.0041	--	<0.0050
1,2,3-Trichloropropane	mg/kg	--	--	<0.0034	<0.0035	<0.0047	<0.0057	<0.0046	--	<0.0044	<0.0051	<0.0041	<0.0042	<0.0039	<0.0035	<0.0039	<0.0046	<0.0050	<0.0067	<0.0053	<0.0045	<0.0040	<0.0041	--	<0.0050
1,2,4-Trichlorobenzene	mg/kg	--	--	<0.0034	<0.0035	<0.0047	<0.0057	<0.0046	--	<0.0044	<0.0051	<0.0041	<0.0042	<0.0039	<0.0035	<0.0039	<0.0046	<0.0050	<0.0067	<0.0053	<0.0045	<0.0040	<0.0041	--	<0.0050
1,2,4-Trimethylbenzene	mg/kg	--	--	<0.0034	<0.0035	<0.0047	<0.0057	<0.0046	--	<0.0044	<0.0051	<0.0041	<0.0042	<0.0039	<0.0035	<0.0039	<0.0046	<0.0050	<0.0067	<0.0053	<0.0045	<0.0040	<0.0041	--	<0.0050
1,2-Dibromo-3-Chloropropane	mg/kg	--	--	<0.0034	<0.0035	<0.0047	<0.0057	<0.0046	--	<0.0044	<0.0051	<0.0041	<0.0042	<0.0039	<0.0035	<0.0039	<0.0046	<0.0050	<0.0067	<0.0053	<0.0045	<0.0040	<0.0041	--	<0.0050
1,2-Dibromoethane	mg/kg	--	--	<0.0034	<0.0035	<0.0047	<0.0057	<0.0046	--	<0.0044	<0.0051	<0.0041	<0.0042	<0.0039	<0.0035	<0.0039	<0.0046	<0.0050	<0.0067	<0.0053	<0.0045	<0.0040	<0.0041	--	<0.0050
1,2-Dichlorobenzene	mg/kg	--	--	<0.0034	<0.0035	<0.0047	<0.0057	<0.0046	--	<0.0044	<0.0051	<0.0041	<0.0042	<0.0039	<0.0035	<0.0039	<0.0046	<0.0050	<0.0067	<0.0053	<0.0045	<0.0040	<0.0041	--	<0.0050
1,2-Dichloroethane	mg/kg	--	--	<0.0034	<0.0035	<0.0047	<0.0057	<0.0046	--	<0.0044	<0.0051	<0.0041	<0.0042	<0.0039	<0.0035	<0.0039	<0.0046	<0.0050	<0.0067	<0.0053	<0.0045	<0.0040	<0.0041	--	<0.0050
1,2-Dichloropropane	mg/kg	--	--	<0.0034	<0.0035	<0.0047	<0.0057	<0.0046	--	<0.0044	<0.0051	<0.0041	<0.0042	<0.0039	<0.0035	<0.0039	<0.0046	<0.0050	<0.0067	<0.0053	<0.0045	<0.0040	<0.0041	--	<0.0050
1,3,5-Trimethylbenzene	mg/kg	--	--	<0.0034	<0.0035	<0.0047	<0.0057	<0.0046	--	<0.0044	<0.0051	<0.0041	<0.0042	<0.0039	<0.0035	<0.0039	<0.0046	<0.0050	<0.0067	<0.0053	<0.0045	<0.0040	<0.0041	--	<0.0050
1,3-Dichlorobenzene	mg/kg	--	--	<0.0034	<0.0035	<0.0047	<0.0057	<0.0046	--	<0.0044	<0.0051	<0.0041	<0.0042	<0.0039	<0.0035	<0.0039	<0.0046	<0.0050	<0.0067	<0.0053	<0.0045	<0.0040	<0.0041	--	<0.0050
1,3-Dichloropropane	mg/kg	--	--	<0.0034	<0.0035	<0.0047	<0.0057	<0.0046	--	<0.0044	<0.0051	<0.0041	<0.0042	<0.0039	<0.0035	<0.0039	<0.0046	<0.0050	<0.0067	<0.0053	<0.0045	<0.0040	<0.0041	--	<0.0050
1,4-Dichlorobenzene	mg/kg	--	--	<0.0034	<0.0035	<0.0047	<0.0057	<0.0046	--	<0.0044	<0.0051	<0.0041	<0.0042	<0.0039	<0.0035	<0.0039	<0.0046	<0.0050	<0.0067	<0.0053	<0.0045	<0.0040	<0.0041	--	<0.0050
1,4-Dioxane	mg/kg	--	--	<0.0689	<0.0708	<0.0934	<0.115	<0.0924	--	<0.0877	<0.102	<0.0810	<0.0836	<0.0789	<0.0705	<0.0782	<0.0921	<0.100	<0.134	<0.106	<0.0902	<0.0806	<0.0827	--	<0.101
2,2-Dichloropropane	mg/kg	--	--	<0.0034	<0.0035	<0.0047	<0.0057	<0.0046	--	<0.0044	<0.0051	<0.0041	<0.0042	<0.0039	<0.0035	<0.0039	<0.0046	<0.0050	<0.0067	<0.0053	<0.0045	<0.0040	<0.0041	--	<0.0050
2-Butanone	mg/kg	--	--	<0.0069	<0.0071	<0.0093	<0.0115	<0.0092	--	<0.0088	<0.0102	<0.0081	<0.0084	<0.0079	<0.0071	<0.0078	<0.0092	<0.0100	<0.0134	<0.0106	<0.0090	<0.0081	<0.0083	--	<0.0101
2-Chlorotoluene	mg/kg	--	--	<0.0034	<0.0035	<0.0047	<0.0057	<0.0046	--	<0.0044	<0.0051	<0.0041	<0.0042	<0.0039	<0.0035	<0.0039	<0.0046	<0.0050	<0.0067	<0.0053	<0.0045	<0.0040	<0.0041	--	<0.0050
2-Hexanone	mg/kg	--	--	<0.0069	<0.0071	<0.0093	<0.0115	<0.0092	--	<0.0088	<0.0102	<0.0081	<0.0084	<0.0079	<0.0071	<0.0078	<0.0092	<0.0100	<0.0134	<0.0106	<0.0090	<0.0081	<0.0083	--	<0.0101
4-Chlorotoluene	mg/kg	--	--	<0.0034	<0.0035	<0.0047	<0.0057	<0.0046	--	<0.0044	<0.0051	<0.0041	<0.0042	<0.0039	<0.0035	<0.0039	<0.0046	<0.0050	<0.0067	<0.0053	<0.0045	<0.0040	<0.0041	--	<0.0050
4-Isopropyltoluene	mg/kg	--	--	<0.0034	<0.0035	<0.0047	<0.0057	<0.0046	--	<0.0044	<0.0051	<0.0041	<0.0042	<0.0039	<0.0035	<0.0039	<0.0046	<0.0050	0.0079	<0.0053	<0.0045	<0.0040	<0.0041	--	<0.0050
4-Methyl-2-Pentanone	mg/kg	--	--	<0.0069	<0.0071	<0.0093	<0.0115	<0.0092	--	<0.0088	<0.0102	<0.0081	<0.0084	<0.0079	<0.0071	<0.0078	<0.0092	<0.0100	<0.0134	<0.0106	<0.0090	<0.0081	<0.0083	--	<0.0101
Acetone	mg/kg	--	--	<0.0069	<0.0071	<0.0093	0.0145	<0.0092	--	0.0256	0.0227	<0.0081	<0.0084	<0.0079	0.072	<0.0078	<0.0092	<0.0100	0.0355	0.0427	0.0531	0.0106	0.0141	--	<0.0101
Benzene	mg/kg	--	--	0.0696	<0.0035	<0.0047	<0.0057	<0.0046	--	<0.0044	<0.0051	<0.0041	<0.0042	<0.0039	<0.0035	<0.0039	<0.0046	<0.0050	<0.0067	<0.0053	<0.0045	<0.0040	<0.0041	--	<0.0050
Bromobenzene	mg/kg	--	--	<0.0034	<0.0035	<0.0047	<0.0057	<0.0046	--	<0.0044	<0.0051	<0.0041	<0.0042	<0.0039	<0.0035	<0.0039	<0.0046	<0.0050	<0.0067	<0.0053	<0.0045	<0.0040	<0.0041	--	<0.0050
Bromochloromethane	mg/kg	--	--	<0.0034	<0.0035	<0.0047	<0.0057	<0.0046	--	<0.0044	<0.0051	<0.0041	<0.0042	<0.0039	<0.0035	<0.0039	<0.0046	<0.0050	<0.0067	<0.0053	<0.0045	<0.0040	<0.0041	--	<0.0050
Bromodichloromethane	mg/kg	--	--	<0.0034	<0.0035	<0.0047	<0.0057	<0.0046	--	<0.0044	<0.0051	<0.0041	<0.0042	<0.0039	<0.0035	<0.0039	<0.0046	<0.0050	<0.0067	<0.0053	<0.0045	<0.0040	<0.0041	--	<0.0050
Bromoform	mg/kg	--	--	<0.0034	<0.0035	<0.0047	<0.0057	<0.0046	--	<0.0044	<0.0051	<0.0041	<0.0042	<0.0039	<0.0035	<0.0039	<0.0046	<0.0050	<0.0067	<0.0053	<0.0045	<0.0040	<0.0041	--	<0.0050
Bromomethane	mg/kg	--	--	<0.0069	<0.0071	<0.0093	<0.0115	<0.0092	--	<0.0088	<0.0102	<0.0081	<0.0084	<0.0079	<0.0071	<0.0078	<0.0092	<0.0100	<0.0134	<0.0106	<0.0090	<0.0081	<0.0083	--	<0.0101
Carbon Disulfide	mg/kg	--	--	<0.0034	<0.0035	<0.0047	<0.0057	0.0107	--	<0.0044	<0.0051	<0.0041	<0.0042	<0.0039	<0.0035	<0.0039	<0.0046	<0.0050	0.0855	<0.0053	<0.0045	<0.0040	<0.0041	--	<0.0050
Carbon Tetrachloride	mg/kg	--	--	<0.0034	<0.0035	<0.0047	<0.0057	<0.0046	--	<0.0044	<0.0051	<0.0041	<0.0042	<0.0039	<0.0035	<0.0039	<0.0046	<0.0050	<0.0067	<0.0053	<0.0045	<0.0040	<0.0041	--	<0.0050
Chlorobenzene	mg/kg	--	--	<0.0034	<0.0035	<0.0047	<0.0057	<0.0046	--	<0.0044	<0.0051	<0.0041	<0.0042	<0.0039	<0.0035	<0.0039	<0.0046	<0.0050	<0.0067	<0.0053	<0.0045	<0.0040	<0.0041	--	<0.0050
Chloroethane	mg/kg	--	--	<0.0069	<0.0071	<0.0093	<0.0115	<0.0092	--	<0.0088	<0.0102	<0.0081	<0.0084	<0.0079	<0.0071	<0.0078	<0.0092	<0.0100	<0.0134	<0.0106	<0.0090	<0.0081	<0.0083	--	<0.0101
Chloroform	mg/kg	--	--	<0.0034	<0.0035	<0.0047	<0.0057	<0.0046	--	<0.0044	<0.0051	<0.0041	<0.0042	<0.0039	<0.0035	<0.0039	<0.0046	<0.0050	<0.0067	<0.0053	<0.0045	<0.0040	<0.0041	--	<0.0050
Chloromethane	mg/kg	--	--	<0.0069	<0.0071	<0.0093	<0.0115	<0.0092	--	<0.0088	<0.0102	<0.0081	<0.0084	<0.0079	<0.0071	<0.0078	<0.0092	<0.0100	<0.0134	<0.0106	<0.0090	<0.0081	<0.0083	--	<0.0101
cis-1,2-Dichloroethene	mg/kg	--	--	<0.0034	<0.0035	<0.0047	<0.0057	<0.0046	--	<0.0044	<0.0051	<0.0041	<0.0042	<0.0039	<0.0035	<0.0039	<0.0046	<0.0050	<0.0067	<0.0053	<0.0045	<0.0040	<0.0041	--	<0.0050
cis-1,3-Dichloropropene	mg/kg	--	--	<0.0034	<0.0035	<0.0047	<0.0057	<0.0046	--	<0.0044	<0.0051	<0.0041	<0.0042	<0.0039	<0.0035	<0.0039	<0.0046	<0.0050	<0.0067	<0.0053	<0.0045	<0.0040	<0.0041	--	<0.0050
Dibromochloromethane	mg/kg	--	--	<0.0014	<0.0014	<0.0019	<0.0023	<0.0018	--	<0.0018	<0.0020	<0.0016	<0.0017	<0.0016	<0.0014	<0.0016	<0.0018	<0.0020	<0.0027	<0.0021	<0.0018	<0.0016	<0.0017	--	<0.0020
Dibromomethane	mg/kg	--	--	<0.0034	<0.0035	<0.0047	<0.0057	<0.0046	--	<0.0044	<0.0051	<0.0041	<0.0042	<0.0039	<0.0035	<0.0039	<0.0046	<0.0050	<0.0067	<0.0053	<0.0045	<0.0040	<0.0041	--	<0.0050
Dichlorodifluoromethane	mg/kg	--	--	<0.0069	<0.0071	<0.0093	<0.0115	<0.0092	--	<0.0088	<0.0102	<0.0081	<0.0084	<0.0079	<0.0071	<0.0078	<0.0092	<0.0100	<0.0134	<0.0106	<0.0090	<0.0081	<0.0083	--	<0.0101
Diethyl Ether	mg/kg	--	--	<0.0034	<0.0035	<0.0047	<0.0057	<0.0046	--	<0.0044	<0.0051	<0.0041	<0.0042	<0.0039	<0.0035	<0.0039	<0.0046	<0.0050	<0.0067	<0.0053	<0.0045	<0.0040	<0.0041	--	<0.0050
Di-isopropyl ether	mg/kg	--	--	<0.0034	<0.0035	<0.0047	<0.0057	<0.0046	--	<0.0044	<0.0051	<0.0041	<0.0042	<0.0039	<0.0035	<0.0039	<0.0046	<0.0050	<0.0067	<0.0053	<0.0045	<0.0040	<0.0041	--	<0.0050
Ethyl tertiary-butyl ether	mg/kg	--	--	<0.0034	<0.0035	<0.0047	<0.0057	<0.0046	--	<0.0044	<0.0051	<0.0041	<0.0042	<0.0039	<0.0035	<0.0039	<0.0046	<0.0050	<0.0067	<0.0053	<0.0045	<0.0040	<0.0041	--	<0.0050
Ethylbenzene	mg/kg	--	--	0.0038	<0.0035	<0.0047	<0.0057	<0.0046	--	<0.0044	<0.0051	<0.0041	<0.0042	<0.0039	<0.0035	<0.0039	<0.0046	<0.0050	<0.0067	<0.0053	<0.0045	<0.0040	<0.0041	--	<0.0050
Hexachlorobutadiene	mg/kg	--	--	<0.0034	<0.0035	<0.0047	<0.0057	<0.0046	--	<0.0044	<0.0051	<0.0041	<0.0042	<0.0039	<0.0035	<0.0039	<0.0046	<0.0050	<0.0067	<0.0053	<0.0045	<0.0040	<0.0041	--	<0.0050
Isopropylbenzene	mg/kg	--	--	<0.0034	<0.0035	<0.0047	<0.0057	<0.0046	--	<0.0044	<0.0051	<0.0041	<0.0042	<0.0039	<0.0035	<0.0039	<0.0046	<0.0050	<0.0067	<0.0053	<0.0045	<0.0040	<0.0041	--	<0.0050
Methyl tert-Butyl Ether	mg/kg	--	--	<0.0034	<0.0035	<0.0047	<0.0057	<0.0046	--	<0.0044	<0.0051	<0.0041	<0.0042	<0.0039	<0.0035	<0.0039	<0.0046	<0.0050	<0.0067	<0.0053	<0.0045	<0.0040	<0.0041	--	<0.0050
Methylene Chloride	mg/kg	--	--	<0.0069	<0.0071	<0.0093	<0.0115	<0.0092	--	<0.0088	<0.0102	<0.0081	<0.0084	<0.0079	<0.0071	<0.0078	<0.0092	<0.0100	<0.0134	<0.0106	<0.0090	<0.0081	<0.0083	--	<0.0101
Naphthalene	mg/kg	--	--	0.33	<0.0035	<0.0047	<0.0057	<0.0046	--	<0.0044	<0.0051	<0.0041	<0.0042	<0.0039	<0.0035	<0.0039	0.0066	<0.0050	<0.0067	<0.0053	<0.0045	<0.0040	<0.0041	--	<0.0050
n-Butylbenzene	mg/kg	--	--	<0.0034	<0.0035	<0.0047	<0.0057	<0.0046	--	<0.0044	<0.0051	<0.0041	<0.0042	<0.0039	<0.0035	<0.0039	<0.0046	<0.0050	<0.0067	<0.0053	<0.0045	<0.0040	<0.0041	--	<0.0050
n-Propylbenzene	mg/kg	--	--	<0.0034	<0.0035	<0.0047	<0.0057	<0.0046	--	<0.0044	<0.0051	<0.0041	<0.0042	<0.0039	<0.0035	<0.0039	<0.0046	<0.0050	<0.0067	<0.0053	<0.0045	<0.0040	<0.0041	--	<0.0050
sec-Butylbenzene	mg/kg	--	--	<0.0034	<0.0035	<0.0047	<0.0057	<0.0046	--	<0.0044	<0.0051	<0.0041	<0.0042	<0.0039	<0.0035	<0.0039	<0.0046	<0.0050	<0.0067	<0.0053	<0.0045	<0.0040	<0.0041	--	<0.0050

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	D20 D20S11 1412284 Natural Organics 24 - 26 12/12/2014	D20 D20S12 1412302 Natural Organics 29 - 31 12/15/2014	D20 D20S13 1412302 Natural Organics 34 - 36 12/15/2014	D21 D21S01S02A 1412247 Fill 0 - 3.3 12/11/2014	D21 D21S02BS04A 1412247 Fill 3.3 - 6.6 12/11/2014	D21 D21S04BS05 1412247 Fill 6.6 - 10 12/11/2014	D21 D21S06 1412247 See D21S06S07A 10 - 12 12/11/2014	D21 D21S06S07A 1412284 Fill 10 - 13.3 12/12/2014	D21 D21S07BS08 1412284 Fill 13.3 - 16 12/12/2014	D21 D21S09 1412284 Natural Organics 19 - 21 12/12/2014	D21 D21S10 1412284 Natural Organics 24 - 26 12/12/2014	D21 D21S11 1412284 Natural Organics 29 - 31 12/12/2014	D21 D21S12S13 1412284 Natural Organics 34 - 38 12/12/2014	D22 D22S01S02A 1412247 Fill 0 - 3.3 12/11/2014	D22 D22S02BS04A 1412247 Fill 3.3 - 6.6 12/11/2014	D22 D22S04BS05 1412247 Fill 6.6 - 10 12/11/2014	D22 D22S06S07 1412247 Fill 10 - 14 12/11/2014	D22 D22S08 1412247 Natural Organics 14 - 16 12/11/2014	D22 D22S09 1412247 Natural Organics 19 - 21 12/11/2014	D22 D22S10 1412247 Natural Organics 24 - 26 12/11/2014	D22 D22S11 1412247 Natural Organics 29 - 31 12/11/2014	D22 D22S12S13 1412247 Natural Organics 34 - 38 12/11/2014	D23 D23S01S02A 1412222 Fill 0 - 3.3 12/10/2014	D23 D23S02BS04A 1412222 Fill 3.3 - 6.6 12/10/2014
Preliminary Disposal Facility Category		Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	See D21S06S07A	MCP Regulated Type A	MCP Regulated Type A	Uncontaminated	Uncontaminated	Uncontaminated	Hazardous Material Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A
Styrene	mg/kg	--	--	<0.0034	<0.0035	<0.0047	<0.0057	<0.0046	--	<0.0044	<0.0051	<0.0041	<0.0042	<0.0039	<0.0035	<0.0039	<0.0046	<0.0050	<0.0067	<0.0053	<0.0045	<0.0040	<0.0041	--	<0.0050
tert-Butylbenzene	mg/kg	--	--	<0.0034	<0.0035	<0.0047	<0.0057	<0.0046	--	<0.0044	<0.0051	<0.0041	<0.0042	<0.0039	<0.0035	<0.0039	<0.0046	<0.0050	<0.0067	<0.0053	<0.0045	<0.0040	<0.0041	--	<0.0050
Tertiary-amyl methyl ether	mg/kg	--	--	<0.0034	<0.0035	<0.0047	<0.0057	<0.0046	--	<0.0044	<0.0051	<0.0041	<0.0042	<0.0039	<0.0035	<0.0039	<0.0046	<0.0050	<0.0067	<0.0053	<0.0045	<0.0040	<0.0041	--	<0.0050
Tetrachloroethene	mg/kg	--	--	<0.0034	<0.0035	<0.0047	<0.0057	<0.0046	--	<0.0044	<0.0051	<0.0041	<0.0042	<0.0039	<0.0035	<0.0039	<0.0046	<0.0050	<0.0067	<0.0053	<0.0045	<0.0040	<0.0041	--	<0.0050
Tetrahydrofuran	mg/kg	--	--	<0.0034	<0.0035	<0.0047	<0.0057	<0.0046	--	<0.0044	<0.0051	<0.0041	<0.0042	<0.0039	<0.0035	<0.0039	<0.0046	<0.0050	<0.0067	<0.0053	<0.0045	<0.0040	<0.0041	--	<0.0050
Toluene	mg/kg	--	--	0.0068	<0.0035	<0.0047	<0.0057	<0.0046	--	<0.0044	<0.0051	<0.0041	<0.0042	<0.0039	<0.0035	<0.0039	<0.0046	<0.0050	<0.0067	<0.0053	<0.0045	<0.0040	<0.0041	--	<0.0050
trans-1,2-Dichloroethene	mg/kg	--	--	<0.0034	<0.0035	<0.0047	<0.0057	<0.0046	--	<0.0044	<0.0051	<0.0041	<0.0042	<0.0039	<0.0035	<0.0039	<0.0046	<0.0050	<0.0067	<0.0053	<0.0045	<0.0040	<0.0041	--	<0.0050
trans-1,3-Dichloropropene	mg/kg	--	--	<0.0034	<0.0035	<0.0047	<0.0057	<0.0046	--	<0.0044	<0.0051	<0.0041	<0.0042	<0.0039	<0.0035	<0.0039	<0.0046	<0.0050	<0.0067	<0.0053	<0.0045	<0.0040	<0.0041	--	<0.0050
Trichloroethene	mg/kg	--	--	<0.0034	<0.0035	<0.0047	<0.0057	<0.0046	--	<0.0044	<0.0051	<0.0041	<0.0042	<0.0039	<0.0035	<0.0039	<0.0046	<0.0050	<0.0067	<0.0053	<0.0045	<0.0040	<0.0041	--	<0.0050
Trichlorofluoromethane	mg/kg	--	--	<0.0034	<0.0035	<0.0047	<0.0057	<0.0046	--	<0.0044	<0.0051	<0.0041	<0.0042	<0.0039	<0.0035	<0.0039	<0.0046	<0.0050	<0.0067	<0.0053	<0.0045	<0.0040	<0.0041	--	<0.0050
Vinyl Chloride	mg/kg	--	--	<0.0069	<0.0071	<0.0093	<0.0115	<0.0092	--	<0.0088	<0.0102	<0.0081	<0.0084	<0.0079	<0.0071	<0.0078	<0.0092	<0.0100	<0.0134	<0.0106	<0.0090	<0.0081	<0.0083	--	<0.0101
Xylene O	mg/kg	--	--	0.0056	<0.0035	<0.0047	<0.0057	<0.0046	--	<0.0044	<0.0051	<0.0041	<0.0042	<0.0039	<0.0035	<0.0039	<0.0046	<0.0050	<0.0067	<0.0053	<0.0045	<0.0040	<0.0041	--	<0.0050
Xylene P,M	mg/kg	--	--	<0.0069	<0.0071	<0.0093	<0.0115	<0.0092	--	<0.0088	<0.0102	<0.0081	<0.0084	<0.0079	<0.0071	<0.0078	<0.0092	<0.0100	<0.0134	<0.0106	<0.0090	<0.0081	<0.0083	--	<0.0101
Xylenes (Total)	mg/kg	--	--	<0.0069	<0.0071	<0.0093	<0.0115	<0.0092	--	<0.0088	<0.0102	<0.0081	<0.0084	<0.0079	<0.0071	<0.0078	<0.0092	<0.0100	<0.0134	<0.0106	<0.0090	<0.0081	<0.0083	--	<0.0101
Total VOCs (Low Level)	mg/kg	--	--	0.4158	ND	ND	0.0145	0.0419	--	0.0256	0.0227	ND	ND	ND	0.072	ND	0.0066	ND	0.1289	0.0427	0.0531	0.0106	0.0141	--	ND
Semi-Volatile Organic Compounds																									
1,2,4-Trichlorobenzene	mg/kg	<1.01	<0.964	<0.901	<0.802	<0.889	<0.937	--	<0.998	<1.09	<1.18	<1.09	<1.04	<1.10	<0.886	<0.879	<0.966	<1.15	<1.26	<1.21	<1.01	<1.08	<1.11	<0.897	<0.856
1,2-Dichlorobenzene	mg/kg	<1.01	<0.964	<0.901	<0.802	<0.889	<0.937	--	<0.998	<1.09	<1.18	<1.09	<1.04	<1.10	<0.886	<0.879	<0.966	<1.15	<1.26	<1.21	<1.01	<1.08	<1.11	<0.897	<0.856
1,3-Dichlorobenzene	mg/kg	<1.01	<0.964	<0.901	<0.802	<0.889	<0.937	--	<0.998	<1.09	<1.18	<1.09	<1.04	<1.10	<0.886	<0.879	<0.966	<1.15	<1.26	<1.21	<1.01	<1.08	<1.11	<0.897	<0.856
1,4-Dichlorobenzene	mg/kg	<0.506	<0.483	<0.452	<0.402	<0.446	<0.470	--	<0.501	<0.546	<0.590	<0.546	<0.521	<0.551	<0.444	<0.441	<0.484	<0.576	<0.630	<0.607	<0.507	<0.543	<0.557	<0.450	<0.429
2,4,5-Trichlorophenol	mg/kg	<1.01	<0.964	<0.901	<0.802	<0.889	<0.937	--	<0.998	<1.09	<1.18	<1.09	<1.04	<1.10	<0.886	<0.879	<0.966	<1.15	<1.26	<1.21	<1.01	<1.08	<1.11	<0.897	<0.856
2,4,6-Trichlorophenol	mg/kg	<1.01	<0.964	<0.901	<0.802	<0.889	<0.937	--	<0.998	<1.09	<1.18	<1.09	<1.04	<1.10	<0.886	<0.879	<0.966	<1.15	<1.26	<1.21	<1.01	<1.08	<1.11	<0.897	<0.856
2,4-Dichlorophenol	mg/kg	<1.01	<0.964	<0.901	<0.802	<0.889	<0.937	--	<0.998	<1.09	<1.18	<1.09	<1.04	<1.10	<0.886	<0.879	<0.966	<1.15	<1.26	<1.21	<1.01	<1.08	<1.11	<0.897	<0.856
2,4-Dimethylphenol	mg/kg	<1.01	<0.964	<0.901	<0.802	<0.889	<0.937	--	<0.998	<1.09	<1.18	<1.09	<1.04	<1.10	<0.886	<0.879	<0.966	<1.15	<1.26	<1.21	<1.01	<1.08	<1.11	<0.897	<0.856
2,4-Dinitrophenol	mg/kg	<5.06	<4.83	<4.52	<4.02	<4.46	<4.70	--	<5.01	<5.46	<5.90	<5.46	<5.21	<5.51	<4.44	<4.41	<4.84	<5.76	<6.30	<6.07	<5.07	<5.43	<5.57	<4.50	<4.29
2,4-Dinitrotoluene	mg/kg	<1.01	<0.964	<0.901	<0.802	<0.889	<0.937	--	<0.998	<1.09	<1.18	<1.09	<1.04	<1.10	<0.886	<0.879	<0.966	<1.15	<1.26	<1.21	<1.01	<1.08	<1.11	<0.897	<0.856
2,6-Dinitrotoluene	mg/kg	<1.01	<0.964	<0.901	<0.802	<0.889	<0.937	--	<0.998	<1.09	<1.18	<1.09	<1.04	<1.10	<0.886	<0.879	<0.966	<1.15	<1.26	<1.21	<1.01	<1.08	<1.11	<0.897	<0.856
2-Chloronaphthalene	mg/kg	<1.01	<0.964	<0.901	<0.802	<0.889	<0.937	--	<0.998	<1.09	<1.18	<1.09	<1.04	<1.10	<0.886	<0.879	<0.966	<1.15	<1.26	<1.21	<1.01	<1.08	<1.11	<0.897	<0.856
2-Chlorophenol	mg/kg	<1.01	<0.964	<0.901	<0.802	<0.889	<0.937	--	<0.998	<1.09	<1.18	<1.09	<1.04	<1.10	<0.886	<0.879	<0.966	<1.15	<1.26	<1.21	<1.01	<1.08	<1.11	<0.897	<0.856
2-Methylnaphthalene	mg/kg	25.1	11.8	<0.901	<0.802	<0.889	<0.937	--	<0.998	<1.09	<1.18	<1.09	<1.04	<1.10	<0.886	<0.879	<0.966	<1.15	<1.26	<1.21	<1.01	<1.08	<1.11	<0.897	<0.856
2-Methylphenol	mg/kg	<1.01	<0.964	<0.901	<0.802	<0.889	<0.937	--	<0.998	<1.09	<1.18	<1.09	<1.04	<1.10	<0.886	<0.879	<0.966	<1.15	<1.26	<1.21	<1.01	<1.08	<1.11	<0.897	<0.856
2-Nitrophenol	mg/kg	<1.01	<0.964	<0.901	<0.802	<0.889	<0.937	--	<0.998	<1.09	<1.18	<1.09	<1.04	<1.10	<0.886	<0.879	<0.966	<1.15	<1.26	<1.21	<1.01	<1.08	<1.11	<0.897	<0.856
3,3´-Dichlorobenzidine	mg/kg	<2.02	<1.93	<1.80	<1.61	<1.78	<1.88	--	<2.00	<2.18	<2.36	<2.18	<2.08	<2.20	<1.77	<1.76	<1.93	<2.30	<2.51	<2.42	<2.02	<2.17	<2.22	<1.80	<1.71
3+4-Methylphenol	mg/kg	<2.02	<1.93	<1.80	<1.61	<1.78	<1.88	--	<2.00	<2.18	<2.36	<2.18	<2.08	<2.20	<1.77	<1.76	<1.93	<2.30	<2.51	<2.42	<2.02	<2.17	<2.22	<1.80	<1.71
4-Bromophenyl-phenylether	mg/kg	<1.01	<0.964	<0.901	<0.802	<0.889	<0.937	--	<0.998	<1.09	<1.18	<1.09	<1.04	<1.10	<0.886	<0.879	<0.966	<1.15	<1.26	<1.21	<1.01	<1.08	<1.11	<0.897	<0.856
4-Chloroaniline	mg/kg	<2.02	<1.93	<1.80	<1.61	<1.78	<1.88	--	<2.00	<2.18	<2.36	<2.18	<2.08	<2.20	<1.77	<1.76	<1.93	<2.30	<2.51	<2.42	<2.02	<2.17	<2.22	<1.80	<1.71
4-Nitrophenol	mg/kg	<5.06	<4.83	<4.52	<4.02	<4.46	<4.70	--	<5.01	<5.46	<5.90	<5.46	<5.21	<5.51	<4.44	<4.41	<4.84	<5.76	<6.30	<6.07	<5.07	<5.43	<5.57	<4.50	<4.29
Acenaphthene	mg/kg	36.5	13.6	<0.901	<0.802	<0.889	<0.937	--	<0.998	<1.09	<1.18	<1.09	<1.04	<1.10	<0.886	<0.879	<0.966	<1.15	<1.26	<1.21	<1.01	<1.08	<1.11	<0.897	<0.856
Acenaphthylene	mg/kg	<1.01	<0.964	<0.901	<0.802	<0.889	<0.937	--	<0.998	<1.09	<1.18	<1.09	<1.04	<1.10	<0.886	<0.879	<0.966	<1.15	<1.26	<1.21	<1.01	<1.08	<1.11	<0.897	<0.856
Acetophenone	mg/kg	<2.02	<1.93	<1.80	<1.61	<1.78	<1.88	--	<2.00	<2.18	<2.36	<2.18	<2.08	<2.20	<1.77	<1.76	<1.93	<2.30	<2.51	<2.42	<2.02	<2.17	<2.22	<1.80	<1.71
Aniline	mg/kg	<5.06	<4.83	<4.52	<4.02	<4.46	<4.70	--	<5.01	<5.46	<5.90	<5.46	<5.21	<5.51	<4.44	<4.41	<4.84	<5.76	<6.30	<6.07	<5.07	<5.43	<5.57	<4.50	<4.29
Anthracene	mg/kg	9.79	3.06	<0.901	<0.802	<0.889	<0.937	--	<0.998	<1.09	<1.18	<1.09	<1.04	<1.10	<0.886	<0.879	<0.966	<1.15	<1.26	<1.21	<1.01	<1.08	<1.11	<0.897	<0.856
Azobenzene	mg/kg	<1.01	<0.964	<0.901	<0.802	<0.889	<0.937	--	<0.998	<1.09	<1.18	<1.09	<1.04	<1.10	<0.886	<0.879	<0.966	<1.15	<1.26	<1.21	<1.01	<1.08	<1.11	<0.897	<0.856
Benzo(a)anthracene	mg/kg	5.94	2.07	<0.901	<0.802	<0.889	<0.937	--	<0.998	<1.09	<1.18	<1.09	<1.04	<1.10	<0.886	<0.879	<0.966	<1.15	<1.26	<1.21	<1.01	<1.08	<1.11	<0.897	<0.856
Benzo(a)pyrene	mg/kg	1.75	0.598	<0.452	<0.402	<0.446	<0.470	--	<0.501	<0.546	<0.590	<0.546	<0.521	<0.551	<0.444	<0.441	<0.484	<0.576	<0.630	<0.607	<0.507	<0.543	<0.557	<0.450	<0.429
Benzo(b)fluoranthene	mg/kg	2.28	0.964	<0.901	<0.802	<0.889	<0.937	--	<0.998	<1.09	<1.18	<1.09	<1.04	<1.10	<0.886	<0.879	<0.966	<1.15	<1.26	<1.21	<1.01	<1.08	<1.11	<0.897	<0.856
Benzo(g,h,i)perylene	mg/kg	<1.01	<0.964	<0.901	<0.802	<0.889	<0.937	--	<0.998	<1.09	<1.18	<1.09	<1.04	<1.10	<0.886	<0.879	<0.966	<1.15	<1.26	<1.21	<1.01	<1.08	<1.11	<0.897	<0.856
Benzo(k)fluoranthene	mg/kg	1.36	<0.964	<0.901	<0.802	<0.889	<0.937	--	<0.998	<1.09	<1.18	<1.09	<1.04	<1.10	<0.886	<0.879	<0.966	<1.15	<1.26	<1.21	<1.01	<1.08	<1.11	<0.897	<0.856
bis(2-Chloroethoxy)methane	mg/kg	<1.01	<0.964	<0.901	<0.802	<0.889	<0.937	--	<0.998	<1.09	<1.18	<1.09	<1.04	<1.10	<0.886	<0.879	<0.966	<1.15	<1.26	<1.21	<1.01	<1.08	<1.11	<0.897	<0.856
bis(2-Chloroethyl)ether	mg/kg	<0.506	<0.483	<0.452	<0.402	<0.446	<0.470	--	<0.501	<0.546	<0.590	<0.546	<0.521	<0.551	<0.444	<0.441	<0.484	<0.576	<0.630	<0.607	<0.507	<0.543	<0.557	<0.450	<0.429
bis(2-chloroisopropyl)Ether	mg/kg	<0.506	<0.483	<0.452	<0.402	<0.446	<0.470	--	<0.501	<0.546	<0.590	<0.546	<0.521	<0.551	<0.444	<0.441	<0.484	<0.576	<0.630	<0.607	<0.507	<0.543	<0.557	<0.450	<0.429
bis(2-Ethylhexyl)phthalate	mg/kg	<1.01	<0.964	<0.901	<0.802	<0.889	5.54	--	<0.998	<1.09	<1.18	<1.09	<1.04	<1.10	<0.886	<0.879	1.08	<1.15	<1.26	<1.21	<1.01	<1.08	<1.11	<0.897	<0.856
Butylbenzylphthalate	mg/kg	<1.01	<0.964	<0.901	<0.802	<0.889	<0.937	--	<0.998	<1.09	<1.18	<1.09	<1.04	<1.10	<0.886	<0.879	<0.966	<1.15	<1.26	<1.21	<1.01	<1.08	<1.11	<0.897	<0.856
Chrysene	mg/kg	5.23	1.57	<0.452	<0.402	<0.446	0.769	--	<0.501	<0.546	<0.590	<0.546	<0.521	<0.551	<0.444	<0.441	<0.484	<0.576	<0.630	<0.607	<0.507	<0.543	<0.557	<0.450	<0.429
Dibenzo(a,h)Anthracene	mg/kg	<0.506	<0.483	<0.452	<0.402	<0.446	<0.470	--	<0.501	<0.546	<0.590	<0.546	<0.521	<0.551	<0.444	<0.441	<0.484	<0.576	<0.630	<0.607	<0.507	<0.543	<0.557	<0.450	<0.429
Dibenzofuran	mg/kg	18.7	7.79	<0.901	<0.802	<0.889	<0.937	--	<0.998	<1.09	<1.18	<1.09	<1.04	<1.10	<0.886	<0.879	<0.966	<1.15	<1.26	<1.21	<1.01	<1.08	<1.11	<0.897	<0.856
Diethylphthalate	mg/kg	<1.01	<0.964	<0.901	<0.802	<0.889	<0.937	--	<0.998	<1.09	<1.18	<1.09	<1.04	<1.10	<0.886	<0.879	<0.966	<1.15	<1.26	<1.21	<1.01	<1.08	<1.11	<0.897	<0.856
Dimethylphthalate	mg/kg	<1.01	<0.964	<0.901	<0.802	<0.889	<0.937	--	<0.998	<1.09	<1.18	<1.09	<1.04	<1.10	<0.886	<0.879	<0.966	<1.15	<1.26	<1.21	<1.01	<1.08	<1.11	<0.897	<0.856
Di-n-butylphthalate	mg/kg	<1.01	<0.964	<0.901	<0.802	<0.889	<0.937	--	<0.998	<1.09	<1.18	<1.09	<1.04	<1.10	<0.886	<0.879	<0.966	<1.15	<1.26	<1.21	<1.01	<1.08	<1.11	<0.897	<0.856
Di-n-octylphthalate	mg/kg	<1.01	<0.964	<0.901	<0.802	<0.889	<0.937	--	<0.998	<1.09	<1.18	<1.09	<1.04	<1.10	<0.886	<0.879	<0.966	<1.15	<1.26	<1.21	<1.01	<1.08	<1.11	<0.897	<0.856
Fluoranthene	mg/kg	43.1	14.4	<0.901	<0.802	<0.889	1.39	--	1.14	<1.09	<1.18	<1.09	<1.04	<1.10	<0.886	<0.879	<0.966	<1.15	<1.26	<1.21	<1.01	<1.08	<1.11	<0.897	<0.856
Fluorene	mg/kg	23.6	9.44	<0.901	<0.802	<0.889	<0.937	--	<0.998	<1.09	<1.18	<1.09	<1.04	<1.10	<0.886	<0.879	<0.966	<1.15	<1.26	<1.21	<1.01	<1.08	<1.11	<0.897	<0.856
Hexachlorobenzene	mg/kg	<0.506	<0.483	<0.452	<0.402	<0.446	<0.470	--	<0.501	<0.546	<0.590	<0.546	<0.521	<0.551	<0.444	<0.441	<0.484	<0.576	<0.630	<0.607	<0.507	<0.543	<0.557	<0.450	<0.429
Hexachlorobutadiene	mg/kg	<1.01	<0.964	<0.901	<0.802	<0.889	<0.937	--	<0.998	<1.09	<1.18	<1.09	<1.04	<1.10	<0.886	<0.879	<0.966	<1.15	<1.26	<1.21	<1.01	<1.08	<1.11	<0.897	<0.856
Hexachloroethane	mg/kg	<1.01	<0.964	<0.901	<0.802	<0.889	<0.937	--	<0.998	<1.09	<1.18	<1.09	<1.04	<1.10	<0.886	<0.879	<0.966	<1.15	<1.26	<1.21	<1.01	<1.08	<1.11	<0.897	<0.856
Indeno(1,2,3-cd)Pyrene	mg/kg	<1.01	<0.964	<0.901	<0.802	<0.889	<0.937	--	<0.998	<1.09	<1.18	<1.09	<1.04	<1.10	<0.886	<0.879	<0.966	<1.15	<1.26	<1.21	<1.01	<1.08	<1.11	<0.897	<0.856
Isophorone	mg/kg	<1.01	<0.964	<0.901	<0.802	<0.889	<0.937	--	<0.998	<1.09	<1.18	<1.09	<1.04	<1.10	<0.886	<0.879	<0.966	<1.15	<1.26	<1.21	<1.01	<1.08	<1.11	<0.897	<0.856
Naphthalene	mg/kg	68.6	49.6	1.34	<0.802	<0.889	<0.937	--	<0.998	<1.09	<1.18	<1.09	<1.04	<1.10	<0.886	<0.879	<0.966	<1.15	<1.26	<1.21	<1.01	<1.08	<1.11	<0.897	<0.856
Nitrobenzene	mg/kg	<1.01	<0.964	<0.901	<0.802	<0.889	<0.937	--	<0.998	<1.09	<1.18	<1.09	<1.04	<1.10	<0.886	<0.879	<0.966	<1.15	<1.26	<1.21	<1.01	<1.08	<1.11	<0.897	<0.856
N-Nitrosodimethylamine	mg/kg	<1.01	<0.964	<0.901	<0.802	<0.889	<0.937	--	<0.998	<1.09	<1.18	<1.09	<1.04	<1.10	<0.886	<0.879	<0.966	<1.15	<1.26	<1.21	<1.01	<1.08	<1.11	<0.897	<0.856
Pentachlorophenol	mg/kg	<5.06	<4.83	<4.52	<4.02	<4.46	<4.70	--	<5.01	<5.46	<5.90	<5.46	<5.21	<5.51	<4.44	<4.41	<4.84	<5.76	<6.30	<6.07	<5.07	<5.43	<5.57	<4.50	<4.29
Phenanthrene	mg/kg	86.7	33.8	<0.901	<0.802	<0.889	<0.937	--	1.17	<1.09	<1.18	<1.09	<1.04	<1.10	<0.886	<0.879	<0.966	<1.15	<1.26	<1.21	<1.01	<1.08	<1.11	<0.897	<0.856
Phenol	mg/kg	<1.01	<0.964	<0.901	<0.802	<0.889	<0.937	--	<0.998	<1.09	<1.18	<1.09	<1.04	<1.10	<0.886	<0.879	<0.966	<1.15	<1.26	<1.21	<1.01	<1.08	<1.11	<0.897	<0.856
Pyrene	mg/kg	24.1	9.14	<0.901	<0.802	<0.889	<0.937	--	<0.998	<1.09	<1.18	<1.09	<1.04	<1.10	<0.886	<0.879	<0.966	<1.15	<1.26	<1.21	<1.01	<1.08	<1.11	<0.897	<0.856
Total SVOCs	mg/kg	352.75	157.832	1.34	ND	ND	7.699	--	2.31	ND	ND	ND	ND	ND	ND	ND	1.08	ND	ND	ND	ND	ND	ND	ND	ND
Classic Chemistry																									
Corrosivity (pH)	S.U.	5.79	6.61	7.06	8.86	9.28	7.33	--	4.88	6.71	7.18	7.09	6.63	6.97	8.48	8.44	7.9	5.72	4.25	4.15	6.69	6.66	6.09	8.74	8.78
Conductivity	umhos/cm	6110	4930	3720	162	1190	1210	--	987	1650	1970	2290	2360	3290	379	1360	1490	1390	1060	3430	1150	1540	2050	138	962
Flashpoint	°F	--	--	--	>200	>200	>200	--	>200	--	--	--	--	--	>200	>200	>200	>200	--	--	--	--	--	>200	>200
Reactive Cyanide	mg/kg	--	--	--	<2.0	<2.0	<2.0	--	<2.0	--	--	--	--	--	<2.0	<2.0	<2.0	<2.0	--	--	--	--	--	<2.0	<2.0
Reactive Sulfide	mg/kg	--	--	--	<2.0	<2.0	<2.0	--	<2.0	--	--	--	--	--	<2.0	<2.0	<2.0	<2.0	--	--	--	--	--	<2.0	<2.0

Analyte	Precharacterization Cell	D23	D23	D23	D23	D23	D23	D23	D23	E02	E02	E02	E02	E02	E02	E02	E02	E03	E03	E03	E03	E03	E03	E03	E03	E04
	Sample ID	D23S04BS05	D23S06	D23S07	D23S08	D23S09	D23S10	D23S11S12	E02S01S02A	E02S02BS03	E02S05	E02S06	E02S07	E02S08	E02S09	E02S10S11	E03S01S02A	E03S02BS03	E03S05	E03S06	E03S07	E03S08	E03S09	E03S10S11	E04S01S02A
	Laboratory Work Order	1412222	1412222	1412222	1412222	1412222	1412222	1412222	1502289	1502289	1502289	1502289	1502289	1502334	1502334	1502334	1502371	1502371	1502371	1502371	1502371	1502371	1502371	1502371	1502408
	Soil Distinction	Fill	Natural	Natural	Natural	Natural	Natural	Natural	Fill	Fill	Natural	Natural	Natural	Natural	Natural	Natural	Fill	Fill	Natural	Natural	Natural	Natural	Natural	Natural	Fill
	Soil Type		Organics	Organics	Organics	Organics	Organics	Organics			Organics	Clay	Clay	Clay	Sand/Gravel	Clay			Organics	Clay	Clay	Sand/Gravel	Sand/Gravel	Clay	
	Depth Interval (ft.)	6.6 - 10	10 - 12	14 - 16	19 - 21	24 - 26	29 - 31	34 - 38	0 - 3.3	3.3 - 6	10 - 12	14 - 16	19 - 21	24 - 26	29 - 31	34 - 38.5	0 - 3.3	3.3 - 6	8 - 10	14 - 16	19 - 21	24 - 26	29 - 31	34 - 38	0 - 3.3
	Sampling Date	12/10/2014	12/10/2014	12/10/2014	12/10/2014	12/10/2014	12/10/2014	12/10/2014	2/19/2015	2/19/2015	2/19/2015	2/19/2015	2/19/2015	2/23/2015	2/23/2015	2/23/2015	2/25/2015	2/25/2015	2/25/2015	2/25/2015	2/25/2015	2/25/2015	2/25/2015	2/25/2015	2/25/2015	2/27/2015
Preliminary Disposal Facility Category		Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	Uncontaminated	MCP Regulated Type B-1	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	Uncontaminated	Uncontaminated	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type B-1	Uncontaminated	MCP Regulated Type A	Uncontaminated	MCP Restricted	Hazardous Material Type A
RCRA 8 Metals	**Units**																								
Arsenic	mg/kg	458	69.7	100	7.8	6.25	4.97	4.63	32.1	67.3	2260	16.6	9.8	8.31	<6.77	<6.62	27.9	152	8.3	18.2	<8.05	10.9	<6.53	15.2	54.8
Barium	mg/kg	97.4	34.7	37.2	22.7	22	12.5	14.6	89.1	143	115	119	93	107	37.3	38.5	85.9	193	24.7	125	39.8	68	<6.53	99.1	52.7
Cadmium	mg/kg	7.7	1.38	1.77	<0.65	<0.39	<0.54	<0.52	<1.35	<1.49	<35.1	<1.72	<1.65	<1.66	<1.35	<1.32	<1.16	<1.55	<1.42	<1.53	<1.61	<1.65	<1.31	<1.63	<1.44
Chromium	mg/kg	12.4	20.1	20.8	21.1	19.7	12.8	13.4	19.9	21.4	34.9	57.3	51.3	52.2	21.7	20.2	58.5	18.4	22.1	72.2	26.1	46.8	<2.61	54.9	29.4
Lead	mg/kg	1060	214	286	7.44	6.31	<5.38	<5.24	341	606	7580	17.8	<16.5	16.8	<13.5	<13.2	400	2330	25.4	23.3	<16.1	<16.5	<13.1	19.8	634
Selenium	mg/kg	7.27	<3.37	<3.47	<3.25	<1.94	<2.69	<2.62	<6.75	<7.47	87.9	<8.60	<8.24	<8.31	<6.77	<6.62	<5.81	<7.74	<7.10	<7.65	<8.05	<8.24	<6.53	<8.17	<7.20
Silver	mg/kg	6.61	1.36	1.97	<0.65	<0.39	<0.54	<0.52	<1.35	<1.49	<3.51	<4.30	<4.12	<1.66	<1.35	<1.32	<1.16	11.5	<1.42	<1.53	<1.61	<1.65	<1.31	<1.63	<1.44
Mercury	mg/kg	5.32	1.29	0.754	<0.039	<0.042	<0.043	<0.040	2.49	4.72	48.7	<0.043	<0.040	<0.039	<0.027	<0.031	0.629	5.06	<0.030	<0.032	<0.032	<0.036	<0.038	<0.038	1.02
Metals by Toxicity Characteristic Leaching Procedure (TCLP)																									
Arsenic	mg/L	0.214	--	<0.050	--	--	--	--	--	--	2.24	--	--	--	--	--	--	0.116	--	--	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead	mg/L	0.329	<0.050	0.108	--	--	--	--	0.561	0.71	0.791	--	--	--	--	--	0.334	0.376	--	--	--	--	--	--	1.49
Selenium	mg/L	--	--	--	--	--	--	--	--	--	<1.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	mg/L	<0.00050	--	--	--	--	--	--	--	<0.00050	<0.00050	--	--	--	--	--	--	<0.00050	--	--	--	--	--	--	--
Herbicides																									
2,4,5-T	mg/kg	<0.052	--	--	--	--	--	--	<0.26	<0.34	--	--	--	--	--	--	<0.054	<0.060	--	--	--	--	--	--	<0.27
2,4-D	mg/kg	<0.052	--	--	--	--	--	--	<0.26	<0.34	--	--	--	--	--	--	<0.054	<0.060	--	--	--	--	--	--	<1.4
2,4-DB	mg/kg	<0.052	--	--	--	--	--	--	<0.26	<0.34	--	--	--	--	--	--	<0.054	<0.060	--	--	--	--	--	--	<0.10
Dalapon	mg/kg	<0.63	--	--	--	--	--	--	<3.2	<4.1	--	--	--	--	--	--	<0.65	<0.72	--	--	--	--	--	--	<8.1
Dicamba	mg/kg	<0.052	--	--	--	--	--	--	<0.26	<0.34	--	--	--	--	--	--	<0.054	<0.060	--	--	--	--	--	--	<0.41
Dichlorprop	mg/kg	<0.052	--	--	--	--	--	--	<0.26	<0.34	--	--	--	--	--	--	<0.054	<0.060	--	--	--	--	--	--	<0.88
Dinoseb	mg/kg	<0.32	--	--	--	--	--	--	<1.6	<2.1	--	--	--	--	--	--	<0.33	<0.36	--	--	--	--	--	--	<1.4
MCPA	mg/kg	<13	--	--	--	--	--	--	<63	<82	--	--	--	--	--	--	<13	<14	--	--	--	--	--	--	<340
MCPP	mg/kg	<13	--	--	--	--	--	--	<63	<82	--	--	--	--	--	--	<13	<14	--	--	--	--	--	--	<340
Silvex (2,4,5-TP)	mg/kg	<0.052	--	--	--	--	--	--	<0.26	<0.34	--	--	--	--	--	--	<0.054	<0.060	--	--	--	--	--	--	<0.27
Pesticides																									
4,4'-DDD	mg/kg	<0.0018	--	--	--	--	--	--	<0.019	<0.0048	--	--	--	--	--	--	<0.0038	<0.0040	--	--	--	--	--	--	<0.011
4,4'-DDE	mg/kg	<0.0018	--	--	--	--	--	--	<0.019	<0.0048	--	--	--	--	--	--	<0.0038	<0.0040	--	--	--	--	--	--	<0.011
4,4'-DDT	mg/kg	<0.0018	--	--	--	--	--	--	<0.019	<0.0048	--	--	--	--	--	--	<0.0038	<0.0040	--	--	--	--	--	--	<0.011
Aldrin	mg/kg	<0.0018	--	--	--	--	--	--	<0.019	<0.0048	--	--	--	--	--	--	<0.0038	<0.0040	--	--	--	--	--	--	<0.011
alpha-BHC	mg/kg	<0.0018	--	--	--	--	--	--	<0.019	<0.0048	--	--	--	--	--	--	<0.0038	<0.0040	--	--	--	--	--	--	<0.011
beta-BHC	mg/kg	<0.0018	--	--	--	--	--	--	<0.019	<0.0048	--	--	--	--	--	--	<0.0038	<0.0040	--	--	--	--	--	--	<0.011
Chlordane (technical)	mg/kg	<0.018	--	--	--	--	--	--	<0.19	<0.048	--	--	--	--	--	--	<0.038	<0.040	--	--	--	--	--	--	<0.11
delta-BHC	mg/kg	<0.0018	--	--	--	--	--	--	<0.019	<0.0048	--	--	--	--	--	--	<0.0038	<0.0040	--	--	--	--	--	--	<0.011
Dieldrin	mg/kg	<0.0018	--	--	--	--	--	--	<0.019	<0.0048	--	--	--	--	--	--	<0.0038	<0.0040	--	--	--	--	--	--	<0.011
Endosulfan I	mg/kg	<0.0018	--	--	--	--	--	--	<0.019	<0.0048	--	--	--	--	--	--	<0.0038	<0.0040	--	--	--	--	--	--	<0.011
Endosulfan II	mg/kg	<0.0018	--	--	--	--	--	--	<0.019	<0.0048	--	--	--	--	--	--	<0.0038	<0.0040	--	--	--	--	--	--	<0.011
Endosulfan sulfate	mg/kg	<0.0018	--	--	--	--	--	--	<0.019	<0.0048	--	--	--	--	--	--	<0.0038	<0.0040	--	--	--	--	--	--	<0.011
Endrin	mg/kg	<0.0018	--	--	--	--	--	--	<0.019	<0.0048	--	--	--	--	--	--	<0.0038	<0.0040	--	--	--	--	--	--	<0.011
Endrin ketone	mg/kg	<0.0018	--	--	--	--	--	--	<0.019	<0.0048	--	--	--	--	--	--	<0.0038	<0.0040	--	--	--	--	--	--	<0.011
gamma-BHC (Lindane)	mg/kg	<0.0018	--	--	--	--	--	--	<0.019	<0.0048	--	--	--	--	--	--	<0.0038	<0.0040	--	--	--	--	--	--	<0.011
Heptachlor	mg/kg	<0.0018	--	--	--	--	--	--	<0.019	<0.0048	--	--	--	--	--	--	<0.0038	<0.0040	--	--	--	--	--	--	<0.011
Heptachlor epoxide	mg/kg	<0.0018	--	--	--	--	--	--	<0.019	<0.0048	--	--	--	--	--	--	<0.0038	<0.0040	--	--	--	--	--	--	<0.011
Hexachlorobenzene	mg/kg	<0.0018	--	--	--	--	--	--	<0.019	<0.0048	--	--	--	--	--	--	<0.0038	<0.0040	--	--	--	--	--	--	<0.011
Methoxychlor	mg/kg	<0.0018	--	--	--	--	--	--	<0.019	<0.0048	--	--	--	--	--	--	<0.0038	<0.0040	--	--	--	--	--	--	<0.011
Polychlorinated Biphenyls																									
Aroclor 1016	mg/kg	<0.148	<0.166	<0.188	<0.175	<0.165	<0.163	<0.162	<0.138	<0.146	<0.354	<0.166	<0.167	<0.162	<0.145	<0.139	<0.130	<0.147	<0.142	<0.160	<0.140	<0.154	<0.145	<0.158	<0.136
Aroclor 1221	mg/kg	<0.148	<0.166	<0.188	<0.175	<0.165	<0.163	<0.162	<0.138	<0.146	<0.354	<0.166	<0.167	<0.162	<0.145	<0.139	<0.130	<0.147	<0.142	<0.160	<0.140	<0.154	<0.145	<0.158	<0.136
Aroclor 1232	mg/kg	<0.148	<0.166	<0.188	<0.175	<0.165	<0.163	<0.162	<0.138	<0.146	<0.354	<0.166	<0.167	<0.162	<0.145	<0.139	<0.130	<0.147	<0.142	<0.160	<0.140	<0.154	<0.145	<0.158	<0.136
Aroclor 1242	mg/kg	<0.148	<0.166	<0.188	<0.175	<0.165	<0.163	<0.162	<0.138	<0.146	<0.354	<0.166	<0.167	<0.162	<0.145	<0.139	<0.130	<0.147	<0.142	<0.160	<0.140	<0.154	<0.145	<0.158	<0.136
Aroclor 1248	mg/kg	<0.148	<0.166	<0.188	<0.175	<0.165	<0.163	<0.162	1.94	16.5	0.489	<0.166	<0.167	<0.162	<0.145	<0.139	<0.130	<0.147	<0.142	<0.160	<0.140	<0.154	<0.145	<0.158	<0.136
Aroclor 1254	mg/kg	<0.148	<0.166	<0.188	<0.175	<0.165	<0.163	<0.162	<0.138	<0.146	<0.354	<0.166	<0.167	<0.162	<0.145	<0.139	<0.130	2.92	<0.142	<0.160	<0.140	<0.154	<0.145	<0.158	0.321
Aroclor 1260	mg/kg	<0.148	<0.166	<0.188	<0.175	<0.165	<0.163	<0.162	<0.138	8.54	<0.354	<0.166	<0.167	<0.162	<0.145	<0.139	<0.130	<0.147	<0.142	<0.160	<0.140	<0.154	<0.145	<0.158	<0.136
Aroclor 1262	mg/kg	<0.148	<0.166	<0.188	<0.175	<0.165	<0.163	<0.162	<0.138	<0.146	<0.354	<0.166	<0.167	<0.162	<0.145	<0.139	<0.130	<0.147	<0.142	<0.160	<0.140	<0.154	<0.145	<0.158	<0.136
Aroclor 1268	mg/kg	<0.148	<0.166	<0.188	<0.175	<0.165	<0.163	<0.162	<0.138	<0.146	<0.354	<0.166	<0.167	<0.162	<0.145	<0.139	<0.130	<0.147	<0.142	<0.160	<0.140	<0.154	<0.145	<0.158	<0.136
Total PCBs	mg/kg	ND	ND	ND	ND	ND	ND	ND	1.94	25.04	0.489	ND	ND	ND	ND	ND	ND	2.92	ND	ND	ND	ND	ND	ND	0.321
Total Petroleum Hydrocarbons	mg/kg	88.6	88.2	70	<55.3	<44.1	<44.9	<50.2	933	966	623	<52.6	<50.8	<51.4	<44.8	<41.6	590	1390	238	<51.6	<48.0	<42.4	<46.0	<50.5	399
Volatile Organic Compounds (VOCs)																									
1,1,1,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0990	--	--	--	--	--	--	--
1,1,1-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0495	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0495	--	--	--	--	--	--	--
1,1,2-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0495	--	--	--	--	--	--	--
1,1-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0495	--	--	--	--	--	--	--
1,1-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0495	--	--	--	--	--	--	--
1,1-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0495	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0495	--	--	--	--	--	--	--
1,2,3-Trichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0495	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0495	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0495	--	--	--	--	--	--	--
1,2-Dibromo-3-Chloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.198	--	--	--	--	--	--	--
1,2-Dibromoethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0495	--	--	--	--	--	--	--
1,2-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0495	--	--	--	--	--	--	--
1,2-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0495	--	--	--	--	--	--	--
1,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0495	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0495	--	--	--	--	--	--	--
1,3-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0495	--	--	--	--	--	--	--
1,3-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0495	--	--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0495	--	--	--	--	--	--	--
1,4-Dioxane - Screen	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<4.95	--	--	--	--	--	--	--
2,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0990	--	--	--	--	--	--	--
2-Butanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.198	--	--	--	--	--	--	--
2-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0495	--	--	--	--	--	--	--
2-Hexanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.198	--	--	--	--	--	--	--
4-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0495	--	--	--	--	--	--	--
4-Isopropyltoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0495	--	--	--	--	--	--	--
4-Methyl-2-Pentanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.198	--	--	--	--	--	--	--
Acetone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.307	--	--	--	--	--	--	--
Benzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0495	--	--	--	--	--	--	--
Bromobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0495	--	--	--	--	--	--	--
Bromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0495	--	--	--	--	--	--	--
Bromodichloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0495	--	--	--	--	--	--	--
Bromoform	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0495	--	--	--	--	--	--	--
Bromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0990	--	--	--	--	--	--	--
Carbon Disulfide	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0495	--	--	--	--	--	--	--
Carbon Tetrachloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0495	--	--	--	--	--	--	--

Analyte	Precharacterization Cell	D23	D23	D23	D23	D23	D23	D23	D23	E02	E02	E02	E02	E02	E02	E02	E02	E03	E03	E03	E03	E03	E03	E03	E03	E04
	Sample ID	D23S04BS05	D23S06	D23S07	D23S08	D23S09	D23S10	D23S11S12	E02S01S02A	E02S02BS03	E02S05	E02S06	E02S07	E02S08	E02S09	E02S10S11	E03S01S02A	E03S02BS03	E03S05	E03S06	E03S07	E03S08	E03S09	E03S10S11	E04S01S02A
	Laboratory Work Order	1412222	1412222	1412222	1412222	1412222	1412222	1412222	1502289	1502289	1502289	1502289	1502289	1502334	1502334	1502334	1502371	1502371	1502371	1502371	1502371	1502371	1502371	1502371	1502408
	Soil Distinction	Fill	Natural	Natural	Natural	Natural	Natural	Natural	Fill	Fill	Natural	Natural	Natural	Natural	Natural	Natural	Fill	Fill	Natural	Natural	Natural	Natural	Natural	Natural	Fill
	Soil Type		Organics	Organics	Organics	Organics	Organics	Organics			Organics	Clay	Clay	Clay	Sand/Gravel	Clay			Organics	Clay	Clay	Sand/Gravel	Sand/Gravel	Clay	
	Depth Interval (ft.)	6.6 - 10	10 - 12	14 - 16	19 - 21	24 - 26	29 - 31	34 - 38	0 - 3.3	3.3 - 6	10 - 12	14 - 16	19 - 21	24 - 26	29 - 31	34 - 38.5	0 - 3.3	3.3 - 6	8 - 10	14 - 16	19 - 21	24 - 26	29 - 31	34 - 38	0 - 3.3
	Sampling Date	12/10/2014	12/10/2014	12/10/2014	12/10/2014	12/10/2014	12/10/2014	12/10/2014	2/19/2015	2/19/2015	2/19/2015	2/19/2015	2/19/2015	2/23/2015	2/23/2015	2/23/2015	2/25/2015	2/25/2015	2/25/2015	2/25/2015	2/25/2015	2/25/2015	2/25/2015	2/25/2015	2/25/2015	2/27/2015
Preliminary Disposal Facility Category		Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	Uncontaminated	MCP Regulated Type B-1	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	Uncontaminated	Uncontaminated	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type B-1	Uncontaminated	MCP Regulated Type A	Uncontaminated	MCP Restricted	Hazardous Material Type A
Chlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0495	--	--	--	--	--	--	--
Chloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0990	--	--	--	--	--	--	--
Chloroform	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0495	--	--	--	--	--	--	--
Chloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0990	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0495	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0495	--	--	--	--	--	--	--
Dibromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0495	--	--	--	--	--	--	--
Dibromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0495	--	--	--	--	--	--	--
Dichlorodifluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0495	--	--	--	--	--	--	--
Diethyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0495	--	--	--	--	--	--	--
Di-isopropyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0495	--	--	--	--	--	--	--
Ethyl tertiary-butyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0495	--	--	--	--	--	--	--
Ethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0495	--	--	--	--	--	--	--
Hexachlorobutadiene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0495	--	--	--	--	--	--	--
Isopropylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0495	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0495	--	--	--	--	--	--	--
Methylene Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.198	--	--	--	--	--	--	--
Naphthalene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.33	--	--	--	--	--	--	--
n-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0495	--	--	--	--	--	--	--
n-Propylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0495	--	--	--	--	--	--	--
sec-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0495	--	--	--	--	--	--	--
Styrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0495	--	--	--	--	--	--	--
tert-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0495	--	--	--	--	--	--	--
Tertiary-amyl methyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0495	--	--	--	--	--	--	--
Tetrachloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0495	--	--	--	--	--	--	--
Tetrahydrofuran	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.198	--	--	--	--	--	--	--
Toluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0495	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0495	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0495	--	--	--	--	--	--	--
Trichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0891	--	--	--	--	--	--	--
Trichlorofluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0495	--	--	--	--	--	--	--
Vinyl Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0495	--	--	--	--	--	--	--
Xylene O	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0495	--	--	--	--	--	--	--
Xylene P,M	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0990	--	--	--	--	--	--	--
Xylenes (Total)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0990	--	--	--	--	--	--	--
Total VOCs	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.7261	--	--	--	--	--	--	--
Volatile Organic Compounds - Low Level Analysis																									
1,1,1,2-Tetrachloroethane	mg/kg	<0.0041	<0.0044	<0.0052	<0.0048	<0.0042	<0.0040	<0.0039	<0.0057	<0.0043	<0.0123	<0.0046	<0.0033	<0.0046	<0.0032	<0.0038	<0.0048	<0.0057	<0.0042	<0.0043	<0.0038	<0.0039	<0.0039	<0.0039	<0.0053
1,1,1-Trichloroethane	mg/kg	<0.0041	<0.0044	<0.0052	<0.0048	<0.0042	<0.0040	<0.0039	<0.0057	<0.0043	<0.0123	<0.0046	<0.0033	<0.0046	<0.0032	<0.0038	<0.0048	<0.0057	<0.0042	<0.0043	<0.0038	<0.0039	<0.0039	<0.0039	<0.0053
1,1,2,2-Tetrachloroethane	mg/kg	<0.0016	<0.0018	<0.0021	<0.0019	<0.0017	<0.0016	<0.0016	<0.0023	<0.0017	<0.0049	<0.0018	<0.0013	<0.0019	<0.0013	<0.0015	<0.0019	<0.0023	<0.0017	<0.0017	<0.0015	<0.0016	<0.0016	<0.0015	<0.0021
1,1,2-Trichloroethane	mg/kg	<0.0041	<0.0044	<0.0052	<0.0048	<0.0042	<0.0040	<0.0039	<0.0057	<0.0043	<0.0123	<0.0046	<0.0033	<0.0046	<0.0032	<0.0038	<0.0048	<0.0057	<0.0042	<0.0043	<0.0038	<0.0039	<0.0039	<0.0039	<0.0053
1,1-Dichloroethane	mg/kg	<0.0041	<0.0044	<0.0052	<0.0048	<0.0042	<0.0040	<0.0039	<0.0057	<0.0043	<0.0123	<0.0046	<0.0033	<0.0046	<0.0032	<0.0038	<0.0048	<0.0057	<0.0042	<0.0043	<0.0038	<0.0039	<0.0039	<0.0039	<0.0053
1,1-Dichloroethene	mg/kg	<0.0041	<0.0044	<0.0052	<0.0048	<0.0042	<0.0040	<0.0039	<0.0057	<0.0043	<0.0123	<0.0046	<0.0033	<0.0046	<0.0032	<0.0038	<0.0048	<0.0057	<0.0042	<0.0043	<0.0038	<0.0039	<0.0039	<0.0039	<0.0053
1,1-Dichloropropene	mg/kg	<0.0041	<0.0044	<0.0052	<0.0048	<0.0042	<0.0040	<0.0039	<0.0057	<0.0043	<0.0123	<0.0046	<0.0033	<0.0046	<0.0032	<0.0038	<0.0048	<0.0057	<0.0042	<0.0043	<0.0038	<0.0039	<0.0039	<0.0039	<0.0053
1,2,3-Trichlorobenzene	mg/kg	<0.0041	<0.0044	<0.0052	<0.0048	<0.0042	<0.0040	<0.0039	<0.0057	<0.0043	<0.0123	<0.0046	<0.0033	<0.0046	<0.0032	<0.0038	<0.0048	<0.0057	<0.0042	<0.0043	<0.0038	<0.0039	<0.0039	<0.0039	<0.0053
1,2,3-Trichloropropane	mg/kg	<0.0041	<0.0044	<0.0052	<0.0048	<0.0042	<0.0040	<0.0039	<0.0057	<0.0043	<0.0123	<0.0046	<0.0033	<0.0046	<0.0032	<0.0038	<0.0048	<0.0057	<0.0042	<0.0043	<0.0038	<0.0039	<0.0039	<0.0039	<0.0053
1,2,4-Trichlorobenzene	mg/kg	<0.0041	<0.0044	<0.0052	<0.0048	<0.0042	<0.0040	<0.0039	<0.0057	<0.0043	<0.0123	<0.0046	<0.0033	<0.0046	<0.0032	<0.0038	<0.0048	<0.0057	<0.0042	<0.0043	<0.0038	<0.0039	<0.0039	<0.0039	<0.0053
1,2,4-Trimethylbenzene	mg/kg	<0.0041	<0.0044	<0.0052	<0.0048	<0.0042	<0.0040	<0.0039	<0.0057	<0.0043	<0.0123	<0.0046	<0.0033	<0.0046	<0.0032	<0.0038	<0.0048	<0.0057	<0.0042	<0.0043	<0.0038	<0.0039	<0.0039	<0.0039	<0.0053
1,2-Dibromo-3-Chloropropane	mg/kg	<0.0041	<0.0044	<0.0052	<0.0048	<0.0042	<0.0040	<0.0039	<0.0057	<0.0043	<0.0123	<0.0046	<0.0033	<0.0046	<0.0032	<0.0038	<0.0048	<0.0057	<0.0042	<0.0043	<0.0038	<0.0039	<0.0039	<0.0039	<0.0053
1,2-Dibromoethane	mg/kg	<0.0041	<0.0044	<0.0052	<0.0048	<0.0042	<0.0040	<0.0039	<0.0057	<0.0043	<0.0123	<0.0046	<0.0033	<0.0046	<0.0032	<0.0038	<0.0048	<0.0057	<0.0042	<0.0043	<0.0038	<0.0039	<0.0039	<0.0039	<0.0053
1,2-Dichlorobenzene	mg/kg	<0.0041	<0.0044	<0.0052	<0.0048	<0.0042	<0.0040	<0.0039	<0.0057	<0.0043	<0.0123	<0.0046	<0.0033	<0.0046	<0.0032	<0.0038	<0.0048	<0.0057	<0.0042	<0.0043	<0.0038	<0.0039	<0.0039	<0.0039	<0.0053
1,2-Dichloroethane	mg/kg	<0.0041	<0.0044	<0.0052	<0.0048	<0.0042	<0.0040	<0.0039	<0.0057	<0.0043	<0.0123	<0.0046	<0.0033	<0.0046	<0.0032	<0.0038	<0.0048	<0.0057	<0.0042	<0.0043	<0.0038	<0.0039	<0.0039	<0.0039	<0.0053
1,2-Dichloropropane	mg/kg	<0.0041	<0.0044	<0.0052	<0.0048	<0.0042	<0.0040	<0.0039	<0.0057	<0.0043	<0.0123	<0.0046	<0.0033	<0.0046	<0.0032	<0.0038	<0.0048	<0.0057	<0.0042	<0.0043	<0.0038	<0.0039	<0.0039	<0.0039	<0.0053
1,3,5-Trimethylbenzene	mg/kg	<0.0041	<0.0044	<0.0052	<0.0048	<0.0042	<0.0040	<0.0039	<0.0057	<0.0043	<0.0123	<0.0046	<0.0033	<0.0046	<0.0032	<0.0038	<0.0048	<0.0057	<0.0042	<0.0043	<0.0038	<0.0039	<0.0039	<0.0039	<0.0053
1,3-Dichlorobenzene	mg/kg	<0.0041	<0.0044	<0.0052	<0.0048	<0.0042	<0.0040	<0.0039	<0.0057	<0.0043	<0.0123	<0.0046	<0.0033	<0.0046	<0.0032	<0.0038	<0.0048	<0.0057	<0.0042	<0.0043	<0.0038	<0.0039	<0.0039	<0.0039	<0.0053
1,3-Dichloropropane	mg/kg	<0.0041	<0.0044	<0.0052	<0.0048	<0.0042	<0.0040	<0.0039	<0.0057	<0.0043	<0.0123	<0.0046	<0.0033	<0.0046	<0.0032	<0.0038	<0.0048	<0.0057	<0.0042	<0.0043	<0.0038	<0.0039	<0.0039	<0.0039	<0.0053
1,4-Dichlorobenzene	mg/kg	<0.0041	<0.0044	<0.0052	<0.0048	<0.0042	<0.0040	<0.0039	<0.0057	<0.0043	<0.0123	<0.0046	<0.0033	<0.0046	<0.0032	<0.0038	<0.0048	<0.0057	<0.0042	<0.0043	<0.0038	<0.0039	<0.0039	<0.0039	<0.0053
1,4-Dioxane	mg/kg	<0.0825	<0.0887	<0.104	<0.0953	<0.0837	<0.0807	<0.0786	<0.114	<0.0855	<0.246	<0.0916	<0.0667	<0.0927	<0.0632	<0.0764	<0.0957	<0.113	<0.0846	<0.0864	<0.0758	<0.0788	<0.0773	<0.0783	<0.106
2,2-Dichloropropane	mg/kg	<0.0041	<0.0044	<0.0052	<0.0048	<0.0042	<0.0040	<0.0039	<0.0057	<0.0043	<0.0123	<0.0046	<0.0033	<0.0046	<0.0032	<0.0038	<0.0048	<0.0057	<0.0042	<0.0043	<0.0038	<0.0039	<0.0039	<0.0039	<0.0053
2-Butanone	mg/kg	<0.0082	<0.0089	<0.0104	<0.0095	<0.0084	<0.0081	<0.0079	<0.0114	<0.0085	0.0548	<0.0092	<0.0067	<0.0093	<0.0063	<0.0076	<0.0096	<0.0113	<0.0085	<0.0086	<0.0076	<0.0079	<0.0077	<0.0078	<0.0106
2-Chlorotoluene	mg/kg	<0.0041	<0.0044	<0.0052	<0.0048	<0.0042	<0.0040	<0.0039	<0.0057	<0.0043	<0.0123	<0.0046	<0.0033	<0.0046	<0.0032	<0.0038	<0.0048	<0.0057	<0.0042	<0.0043	<0.0038	<0.0039	<0.0039	<0.0039	<0.0053
2-Hexanone	mg/kg	<0.0082	<0.0089	<0.0104	<0.0095	<0.0084	<0.0081	<0.0079	<0.0114	<0.0085	<0.0246	<0.0092	<0.0067	<0.0093	<0.0063	<0.0076	<0.0096	<0.0113	<0.0085	<0.0086	<0.0076	<0.0079	<0.0077	<0.0078	<0.0106
4-Chlorotoluene	mg/kg	<0.0041	<0.0044	<0.0052	<0.0048	<0.0042	<0.0040	<0.0039	<0.0057	<0.0043	<0.0123	<0.0046	<0.0033	<0.0046	<0.0032	<0.0038	<0.0048	<0.0057	<0.0042	<0.0043	<0.0038	<0.0039	<0.0039	<0.0039	<0.0053
4-Isopropyltoluene	mg/kg	<0.0041	<0.0044	<0.0052	<0.0048	<0.0042	<0.0040	<0.0039	<0.0057	<0.0043	<0.0123	<0.0046	<0.0033	<0.0046	<0.0032	<0.0038	<0.0048	<0.0057	<0.0042	<0.0043	<0.0038	<0.0039	<0.0039	<0.0039	<0.0053
4-Methyl-2-Pentanone	mg/kg	<0.0082	<0.0089	<0.0104	<0.0095	<0.0084	<0.0081	<0.0079	<0.0114	<0.0085	<0.0246	<0.0092	<0.0067	<0.0093	<0.0063	<0.0076	<0.0096	<0.0113	<0.0085	<0.0086	<0.0076	<0.0079	<0.0077	<0.0078	<0.0106
Acetone	mg/kg	<0.0082	<0.0089	<0.0104	<0.0095	<0.0084	<0.0081	<0.0079	0.0271	0.0415	0.374	<0.0092	<0.0067	<0.0093	<0.0063	<0.0076	0.0243	0.0599	<0.0085	<0.0086	<0.0076	<0.0079	<0.0077	<0.0078	0.0237
Benzene	mg/kg	<0.0041	<0.0044	<0.0052	<0.0048	<0.0042	<0.0040	<0.0039	<0.0057	<0.0043	<0.0123	<0.0046	<0.0033	<0.0046	<0.0032	<0.0038	<0.0048	<0.0057	<0.0042	<0.0043	<0.0038	<0.0039	<0.0039	<0.0039	<0.0053
Bromobenzene	mg/kg	<0.0041	<0.0044	<0.0052	<0.0048	<0.0042	<0.0040	<0.0039	<0.0057	<0.0043	<0.0123	<0.0046	<0.0033	<0.0046	<0.0032	<0.0038	<0.0048	<0.0057	<0.0042	<0.0043	<0.0038	<0.0039	<0.0039	<0.0039	<0.0053
Bromochloromethane	mg/kg	<0.0041	<0.0044	<0.0052	<0.0048	<0.0042	<0.0040	<0.0039	<0.0057	<0.0043	<0.0123	<0.0046	<0.0033	<0.0046	<0.0032	<0.0038	<0.0048	<0.0057	<0.0042	<0.0043	<0.0038	<0.0039	<0.0039	<0.0039	<0.0053
Bromodichloromethane	mg/kg	<0.0041	<0.0044	<0.0052	<0.0048	<0.0042	<0.0040	<0.0039	<0.0057	<0.0043	<0.0123	<0.0046	<0.0033	<0.0046	<0.0032	<0.0038	<0.0048	<0.0057	<0.0042	<0.0043	<0.0038	<0.0039	<0.0039	<0.0039	<0.0053
Bromoform	mg/kg	<0.0041	<0.0044	<0.0052	<0.0048	<0.0042	<0.0040	<0.0039	<0.0057	<0.0043	<0.0123	<0.0046	<0.0033	<0.0046	<0.0032	<0.0038	<0.0048	<0.0057	<0.0042	<0.0043	<0.0038	<0.0039	<0.0039	<0.0039	<0.0053
Bromomethane	mg/kg	<0.0082	<0.0089	<0.0104	<0.0095	<0.0084	<0.0081	<0.0079	<0.0114	<0.0085	<0.0246	<0.0092	<0.0067	<0.0093	<0.0063	<0.0076	<0.0096	<0.0113	<0.0085	<0.0086	<0.0076	<0.0079	<0.0077	<0.0078	<0.0106
Carbon Disulfide	mg/kg	<0.0041	<0.0044	0.0068	0.005	0.0048	<0.0040	0.0041	<0.0057	<0.0043	<0.0123	<0.0046	<0.0033	<0.0046	<0.0032	<0.0038	<0.0048	<0.0057	<0.0042	<0.0043	<0.0038	<0.0039	<0.0039	<0.0039	<0.0053
Carbon Tetrachloride	mg/kg	<0.0041	<0.0044	<0.0052	<0.0048	<0.0042	<0.0040	<0.0039	<0.0057	<0.0043	<0.0123	<0.0046	<0.0033	<0.0046	<0.0032	<0.0038	<0.0048	<0.0057	<0.0042	<0.0043	<0.0038	<0.0039	<0.0039	<0.0039	<0.0053
Chlorobenzene	mg/kg	<0.0041	<0.0044	<0.0052	<0.0048	<0.0042	<0.0040	<0.0039	<0.0057	<0.0043	<0.0123	<0.0046	<0.0033	<0.0046	<0.0032	<0.0038	<0.0048	<0.0057	<0.0042	<0.0043	<0.0038	<0.0039	<0.0039	<0.0039	<0.0053
Chloroethane	mg/kg	<0.0082	<0.0089	<0.0104	<0.0095	<0.0084	<0.0081	<0.0079	<0.0114	<0.0085	<0.0246	<0.0092	<0.0067	<0.0093	<0.0063	<0.0076	<0.0096	<0.0113	<0.0085	<0.0086	<0.0076	<0.0079	<0.0077	<0.0078	<0.0106
Chloroform	mg/kg	<0.0041	<0.0044	<0.0052	<0.0048	<0.0042	<0.0040	<0.0039	<0.0057	<0.0043	<0.0123	<0.0046	<0.0033	<0.0046	<0.0032	<0.0038	<0.0048	<0.0057	<0.0042	<0.0043	<0.0038	<0.0039	<0.0039	<0.0039	<0.0053
Chloromethane	mg/kg	<0.0082	<0.0089	<0.0104	<0.0095	<0.0084	<0.0081	<0.0079	<0.0114	<0.0085	<0.0246	<0.0092	<0.0067	<0.0093	<0.0063	<0.0076	<0.0096	<0.0113	<0.0085	<0.0086	<0.0076	<0.0079	<0.0077	<0.0078	<0.0106
cis-1,2-Dichloroethene	mg/kg	<0.0041	<0.0044	<0.0052	<0.0048	<0.0042	<0.0040	<0.0039	<0.0057	<0.0043	<0.0123	<0.0046	<0.0033	<0.0046	<0.0032	<0.0038	<0.0048	<0.0057	<0.0042	<0.0043	<0.0038	<0.0039	<0.0039	<0.0039	<0.0053
cis-1,3-Dichloropropene	mg/kg	<0.0041	<0.0044	<0.0052	<0.0048	<0.0042	<0.0040	<0.0039	<0.0057	<0.0043	<0.0123	<0.0046	<0.0033	<0.0046	<0.0032	<0.0038	<0.0048	<0.0057	<0.0042	<0.0043	<0.0038	<0.0039	<0.0039	<0.0039	<0.0053
Dibromochloromethane	mg/kg	<0.0016	<0.0018	<0.0021	<0.0019	<0.0017	<0.0016	<0.0016	<0.0023	<0.0017	<0.0049	<0.0018	<0.0013	<0.0019	<0.0013	<0.0015	<0.0019	<0.0023	<0.0017	<0.0017	<0.0015	<0.0016	<0.0016	<0.0015	<0.0021
Dibromomethane	mg/kg	<0.0041	<0.0044	<0.0052	<0.0048	<0.0042	<0.0040	<0.0039	<0.0057	<0.0043	<0.0123	<0.0046	<0.0033	<0.0046	<0.0032	<0.0038	<0.0048	<0.0057	<0.0042	<0.0043	<0.0038	<0.0039	<0.0039	<0.0039	<0.0053
Dichlorodifluoromethane	mg/kg	<0.0082	<0.0089	<0.0104	<0.0095	<0.0084	<0.0081	<0.0079	<0.0114	<0.0085	<0.0246	<0.0092	<0.0067	<0.0093	<0.0063	<0.0076	<0.0096	<0.0113	<0.0085	<0.0086	<0.0076	<0.0079	<0.0077	<0.0078	<0.0106
Diethyl Ether	mg/kg	<0.0041	<0.0044	<0.0052	<0.0048	<0.0042	<0.0040	<0.0039	<0.0057	<0.0043	<0.0123	<0.0046	<0.0033	<0.0046	<0.0032	<0.0038	<0.0048	<0.0057	0.0078	<0.0043	<0.0038	<0.0039	<0.0039	<0.0039	<0.0053
Di-isopropyl ether	mg/kg	<0.0041	<0.0044	<0.0052	<0.0048	<0.0042	<0.0040	<0.0039	<0.0057	<0.0043	<0.0123	<0.0046	<0.0033	<0.0046	<0.0032	<0.0038	<0.0048	<0.0057	<0.0042	<0.0043	<0.0038	<0.0039	<0.0039	<0.0039	<0.0053
Ethyl tertiary-butyl ether	mg/kg	<0.0041	<0.0044	<0.0052	<0.0048	<0.0042	<0.0040	<0.0039	<0.0057	<0.0043	<0.0123	<0.0046	<0.0033	<0.0046	<0.0032	<0.0038	<0.0048	<0.0057	<0.0042	<0.0043	<0.0038	<0.0039	<0.0039	<0.0039	<0.0053
Ethylbenzene	mg/kg	<0.0041	<0.0044	<0.0052	<0.0048	<0.0042	<0.0040	<0.0039	<0.0057	<0.0043	<0.0123	<0.0046	<0.0033	<0.0046	<0.0032	<0.0038	<0.0048	<0.0057	<0.0042	<0.0043	<0.0038	<0.0039	<0.0039	<0.0039	<0.0053
Hexachlorobutadiene	mg/kg	<0.0041	<0.0044	<0.0052	<0.0048	<0.0042	<0.0040	<0.0039	<0.0057	<0.0043	<0.0123	<0.0046	<0.0033	<0.0046	<0.0032	<0.0038	<0.0048	<0.0057	<0.0042	<0.0043	<0.0038	<0.0039	<0.0039	<0.0039	<0.0053
Isopropylbenzene	mg/kg	<0.0041	<0.0044	<0.0052	<0.0048	<0.0042	<0.0040	<0.0039	<0.0057	<0.0043	<0.0123	<0.0046	<0.0033	<0.0046	<0.0032	<0.0038	<0.0048	<0.0057	<0.0042	<0.0043	<0.0038	<0.0039	<0.0039	<0.0039	<0.0053
Methyl tert-Butyl Ether	mg/kg	<0.0041	<0.0044	<0.0052	<0.0048	<0.0042	<0.0040	<0.0039	<0.0057	<0.0043	<0.0123	<0.0046	<0.0033	<0.0046	<0.0032	<0.0038	<0.0048	<0.0057	<0.0042	<0.0043	<0.0038	<0.0039	<0.0039	<0.0039	<0.0053
Methylene Chloride	mg/kg	<0.0082	<0.0089	<0.0104	<0.0095	<0.0084	<0.0081	<0.0079	<0.0114	<0.0085	<0.0246	<0.0092	<0.0067	<0.0093	<0.0063	<0.0076	<0.0096	<0.0113	<0.0085	<0.0086	<0.0076	<0.0079	<0.0077	<0.0078	<0.0106
Naphthalene	mg/kg	<0.0041	<0.0044	<0.0052	<0.0048	<0.0042	<0.0040	<0.0039	<0.0057	<0.0043	0.0746	<0.0046	<0.0033	<0.0046	<0.0032	<0.0038	<0.0048	0.231	0.0058	<0.0043	<0.0038	<0.0039	<0.0039	<0.0039	<0.0053
n-Butylbenzene	mg/kg	<0.0041	<0.0044	<0.0052	<0.0048	<0.0042	<0.0040	<0.0039	<0.0057	<0.0043	<0.0123	<0.0046	<0.0033	<0.0046	<0.0032	<0.0038	<0.0048	<0.0057	<0.0042	<0.0043	<0.0038	<0.0039	<0.0039	<0.0039	<0.0053
n-Propylbenzene	mg/kg	<0.0041	<0.0044	<0.0052	<0.0048	<0.0042	<0.0040	<0.0039	<0.0057	<0.0043	<0.0123	<0.0046	<0.0033	<0.0046	<0.0032	<0.0038	<0.0048	<0.0057	<0.0042	<0.0043	<0.0038	<0.0039	<0.0039	<0.0039	<0.0053
sec-Butylbenzene	mg/kg	<0.0041	<0.0044	<0.0052	<0.0048	<0.0042	<0.0040	<0.0039	<0.0057	<0.0043	<0.0123	<0.0046	<0.0033	<0.0046	<0.0032	<0.0038	<0.0048	<0.0057	<0.0042	<0.0043	<0.0038	<0.0039	<0.0039	<0.0039	<0.0053

Analyte	Precharacterization Cell	D23	D23	D23	D23	D23	D23	D23	D23	E02	E02	E02	E02	E02	E02	E02	E02	E03	E03	E03	E03	E03	E03	E03	E03	E04
	Sample ID	D23S04BS05	D23S06	D23S07	D23S08	D23S09	D23S10	D23S11S12	E02S01S02A	E02S02BS03	E02S05	E02S06	E02S07	E02S08	E02S09	E02S10S11	E03S01S02A	E03S02BS03	E03S05	E03S06	E03S07	E03S08	E03S09	E03S10S11	E04S01S02A
	Laboratory Work Order	1412222	1412222	1412222	1412222	1412222	1412222	1412222	1502289	1502289	1502289	1502289	1502289	1502334	1502334	1502334	1502371	1502371	1502371	1502371	1502371	1502371	1502371	1502371	1502408
	Soil Distinction	Fill	Natural	Natural	Natural	Natural	Natural	Natural	Fill	Fill	Natural	Natural	Natural	Natural	Natural	Natural	Fill	Fill	Natural	Natural	Natural	Natural	Natural	Natural	Fill
	Soil Type		Organics	Organics	Organics	Organics	Organics	Organics			Organics	Clay	Clay	Clay	Sand/Gravel	Clay			Organics	Clay	Clay	Sand/Gravel	Sand/Gravel	Clay	
	Depth Interval (ft.)	6.6 - 10	10 - 12	14 - 16	19 - 21	24 - 26	29 - 31	34 - 38	0 - 3.3	3.3 - 6	10 - 12	14 - 16	19 - 21	24 - 26	29 - 31	34 - 38.5	0 - 3.3	3.3 - 6	8 - 10	14 - 16	19 - 21	24 - 26	29 - 31	34 - 38	0 - 3.3
	Sampling Date	12/10/2014	12/10/2014	12/10/2014	12/10/2014	12/10/2014	12/10/2014	12/10/2014	2/19/2015	2/19/2015	2/19/2015	2/19/2015	2/19/2015	2/23/2015	2/23/2015	2/23/2015	2/25/2015	2/25/2015	2/25/2015	2/25/2015	2/25/2015	2/25/2015	2/25/2015	2/25/2015	2/25/2015	2/27/2015
Preliminary Disposal Facility Category		Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	Uncontaminated	MCP Regulated Type B-1	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	Uncontaminated	Uncontaminated	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type B-1	Uncontaminated	MCP Regulated Type A	Uncontaminated	MCP Restricted	Hazardous Material Type A
Styrene	mg/kg	<0.0041	<0.0044	<0.0052	<0.0048	<0.0042	<0.0040	<0.0039	<0.0057	<0.0043	<0.0123	<0.0046	<0.0033	<0.0046	<0.0032	<0.0038	<0.0048	<0.0057	<0.0042	<0.0043	<0.0038	<0.0039	<0.0039	<0.0039	<0.0053
tert-Butylbenzene	mg/kg	<0.0041	<0.0044	<0.0052	<0.0048	<0.0042	<0.0040	<0.0039	<0.0057	<0.0043	<0.0123	<0.0046	<0.0033	<0.0046	<0.0032	<0.0038	<0.0048	<0.0057	<0.0042	<0.0043	<0.0038	<0.0039	<0.0039	<0.0039	<0.0053
Tertiary-amyl methyl ether	mg/kg	<0.0041	<0.0044	<0.0052	<0.0048	<0.0042	<0.0040	<0.0039	<0.0057	<0.0043	<0.0123	<0.0046	<0.0033	<0.0046	<0.0032	<0.0038	<0.0048	<0.0057	<0.0042	<0.0043	<0.0038	<0.0039	<0.0039	<0.0039	<0.0053
Tetrachloroethene	mg/kg	<0.0041	<0.0044	<0.0052	<0.0048	<0.0042	<0.0040	<0.0039	<0.0057	<0.0043	<0.0123	<0.0046	<0.0033	<0.0046	<0.0032	<0.0038	<0.0048	<0.0057	<0.0042	<0.0043	<0.0038	<0.0039	<0.0039	<0.0039	<0.0053
Tetrahydrofuran	mg/kg	<0.0041	<0.0044	<0.0052	<0.0048	<0.0042	<0.0040	<0.0039	<0.0057	<0.0043	<0.0123	<0.0046	<0.0033	<0.0046	<0.0032	<0.0038	<0.0048	<0.0057	<0.0042	<0.0043	<0.0038	<0.0039	<0.0039	<0.0039	<0.0053
Toluene	mg/kg	<0.0041	<0.0044	<0.0052	<0.0048	<0.0042	<0.0040	<0.0039	<0.0057	<0.0043	<0.0123	<0.0046	<0.0033	<0.0046	<0.0032	<0.0038	<0.0048	<0.0057	<0.0042	<0.0043	<0.0038	<0.0039	<0.0039	<0.0039	<0.0053
trans-1,2-Dichloroethene	mg/kg	<0.0041	<0.0044	<0.0052	<0.0048	<0.0042	<0.0040	<0.0039	<0.0057	<0.0043	<0.0123	<0.0046	<0.0033	<0.0046	<0.0032	<0.0038	<0.0048	<0.0057	<0.0042	<0.0043	<0.0038	<0.0039	<0.0039	<0.0039	<0.0053
trans-1,3-Dichloropropene	mg/kg	<0.0041	<0.0044	<0.0052	<0.0048	<0.0042	<0.0040	<0.0039	<0.0057	<0.0043	<0.0123	<0.0046	<0.0033	<0.0046	<0.0032	<0.0038	<0.0048	<0.0057	<0.0042	<0.0043	<0.0038	<0.0039	<0.0039	<0.0039	<0.0053
Trichloroethene	mg/kg	<0.0041	<0.0044	<0.0052	<0.0048	<0.0042	<0.0040	<0.0039	<0.0057	<0.0043	<0.0123	<0.0046	<0.0033	<0.0046	<0.0032	<0.0038	<0.0048	<0.0057	<0.0042	<0.0043	<0.0038	<0.0039	<0.0039	<0.0039	<0.0053
Trichlorofluoromethane	mg/kg	<0.0041	<0.0044	<0.0052	<0.0048	<0.0042	<0.0040	<0.0039	<0.0057	<0.0043	<0.0123	<0.0046	<0.0033	<0.0046	<0.0032	<0.0038	<0.0048	<0.0057	<0.0042	<0.0043	<0.0038	<0.0039	<0.0039	<0.0039	<0.0053
Vinyl Chloride	mg/kg	<0.0082	<0.0089	<0.0104	<0.0095	<0.0084	<0.0081	<0.0079	<0.0114	<0.0085	<0.0246	<0.0092	<0.0067	<0.0093	<0.0063	<0.0076	<0.0096	<0.0113	<0.0085	<0.0086	<0.0076	<0.0079	<0.0077	<0.0078	<0.0106
Xylene O	mg/kg	<0.0041	<0.0044	<0.0052	<0.0048	<0.0042	<0.0040	<0.0039	<0.0057	<0.0043	<0.0123	<0.0046	<0.0033	<0.0046	<0.0032	<0.0038	<0.0048	<0.0057	<0.0042	<0.0043	<0.0038	<0.0039	<0.0039	<0.0039	<0.0053
Xylene P,M	mg/kg	<0.0082	<0.0089	<0.0104	<0.0095	<0.0084	<0.0081	<0.0079	<0.0114	<0.0085	<0.0246	<0.0092	<0.0067	<0.0093	<0.0063	<0.0076	<0.0096	<0.0113	<0.0085	<0.0086	<0.0076	<0.0079	<0.0077	<0.0078	<0.0106
Xylenes (Total)	mg/kg	<0.0082	<0.0089	<0.0104	<0.0095	<0.0084	<0.0081	<0.0079	<0.0114	<0.0085	<0.0246	<0.0092	<0.0067	<0.0093	<0.0063	<0.0076	<0.0096	<0.0113	<0.0085	<0.0086	<0.0076	<0.0079	<0.0077	<0.0078	<0.0106
Total VOCs (Low Level)	mg/kg	ND	ND	0.0068	0.005	0.0048	ND	0.0041	0.0271	0.0415	0.5034	ND	ND	ND	ND	ND	0.0243	0.2909	0.0136	ND	ND	ND	ND	ND	0.0237
Semi-Volatile Organic Compounds																									
1,2,4-Trichlorobenzene	mg/kg	<0.926	<1.15	<1.22	<1.08	<1.02	<1.10	<0.958	<3.63	<3.62	<4.80	<1.11	<1.11	<1.06	<0.981	<0.859	<0.898	<0.988	<0.938	<1.06	<0.994	<1.02	<0.974	<1.06	<0.923
1,2-Dichlorobenzene	mg/kg	<0.926	<1.15	<1.22	<1.08	<1.02	<1.10	<0.958	<3.63	<3.62	<4.80	<1.11	<1.11	<1.06	<0.981	<0.859	<0.898	<0.988	<0.938	<1.06	<0.994	<1.02	<0.974	<1.06	<0.923
1,3-Dichlorobenzene	mg/kg	<0.926	<1.15	<1.22	<1.08	<1.02	<1.10	<0.958	<3.63	<3.62	<4.80	<1.11	<1.11	<1.06	<0.981	<0.859	<0.898	<0.988	<0.938	<1.06	<0.994	<1.02	<0.974	<1.06	<0.923
1,4-Dichlorobenzene	mg/kg	<0.464	<0.578	<0.609	<0.544	<0.510	<0.553	<0.481	<1.82	<1.81	<2.41	<0.556	<0.558	<0.533	<0.492	<0.431	<0.450	<0.495	<0.470	<0.532	<0.498	<0.513	<0.489	<0.530	<0.463
2,4,5-Trichlorophenol	mg/kg	<0.926	<1.15	<1.22	<1.08	<1.02	<1.10	<0.958	<3.63	<3.62	<4.80	<1.11	<1.11	<1.06	<0.981	<0.859	<0.898	<0.988	<0.938	<1.06	<0.994	<1.02	<0.974	<1.06	<0.923
2,4,6-Trichlorophenol	mg/kg	<0.926	<1.15	<1.22	<1.08	<1.02	<1.10	<0.958	<3.63	<3.62	<4.80	<1.11	<1.11	<1.06	<0.981	<0.859	<0.898	<0.988	<0.938	<1.06	<0.994	<1.02	<0.974	<1.06	<0.923
2,4-Dichlorophenol	mg/kg	<0.926	<1.15	<1.22	<1.08	<1.02	<1.10	<0.958	<3.63	<3.62	<4.80	<1.11	<1.11	<1.06	<0.981	<0.859	<0.898	<0.988	<0.938	<1.06	<0.994	<1.02	<0.974	<1.06	<0.923
2,4-Dimethylphenol	mg/kg	<0.926	<1.15	<1.22	<1.08	<1.02	<1.10	<0.958	<3.63	<3.62	<4.80	<1.11	<1.11	<1.06	<0.981	<0.859	<0.898	<0.988	<0.938	<1.06	<0.994	<1.02	<0.974	<1.06	<0.923
2,4-Dinitrophenol	mg/kg	<4.64	<5.78	<6.09	<5.44	<5.10	<5.53	<4.81	<18.2	<18.1	<24.1	<5.56	<5.58	<5.33	<4.92	<4.31	<4.50	<4.95	<4.70	<5.32	<4.98	<5.13	<4.89	<5.30	<4.63
2,4-Dinitrotoluene	mg/kg	<0.926	<1.15	<1.22	<1.08	<1.02	<1.10	<0.958	<0.911	<0.907	<1.20	<1.11	<1.11	<1.06	<0.981	<0.859	<0.898	<0.988	<0.938	<1.06	<0.994	<1.02	<0.974	<1.06	<0.923
2,6-Dinitrotoluene	mg/kg	<0.926	<1.15	<1.22	<1.08	<1.02	<1.10	<0.958	<3.63	<3.62	<4.80	<1.11	<1.11	<1.06	<0.981	<0.859	<0.898	<0.988	<0.938	<1.06	<0.994	<1.02	<0.974	<1.06	<0.923
2-Chloronaphthalene	mg/kg	<0.926	<1.15	<1.22	<1.08	<1.02	<1.10	<0.958	<3.63	<3.62	<4.80	<1.11	<1.11	<1.06	<0.981	<0.859	<0.898	<0.988	<0.938	<1.06	<0.994	<1.02	<0.974	<1.06	<0.923
2-Chlorophenol	mg/kg	<0.926	<1.15	<1.22	<1.08	<1.02	<1.10	<0.958	<3.63	<3.62	<4.80	<1.11	<1.11	<1.06	<0.981	<0.859	<0.898	<0.988	<0.938	<1.06	<0.994	<1.02	<0.974	<1.06	<0.923
2-Methylnaphthalene	mg/kg	<0.926	<1.15	<1.22	<1.08	<1.02	<1.10	<0.958	<3.63	<3.62	<4.80	<1.11	<1.11	<1.06	<0.981	<0.859	<0.898	1.66	<0.938	<1.06	<0.994	<1.02	<0.974	<1.06	1.27
2-Methylphenol	mg/kg	<0.926	<1.15	<1.22	<1.08	<1.02	<1.10	<0.958	<3.63	<3.62	<4.80	<1.11	<1.11	<1.06	<0.981	<0.859	<0.898	<0.988	<0.938	<1.06	<0.994	<1.02	<0.974	<1.06	<0.923
2-Nitrophenol	mg/kg	<0.926	<1.15	<1.22	<1.08	<1.02	<1.10	<0.958	<3.63	<3.62	<4.80	<1.11	<1.11	<1.06	<0.981	<0.859	<0.898	<0.988	<0.938	<1.06	<0.994	<1.02	<0.974	<1.06	<0.923
3,3´-Dichlorobenzidine	mg/kg	<1.85	<2.31	<2.43	<2.17	<2.04	<2.21	<1.92	<7.28	<7.24	<9.62	<2.22	<2.23	<2.13	<1.97	<1.72	<1.80	<1.98	<1.88	<2.12	<1.99	<2.05	<1.95	<2.12	2.8
3+4-Methylphenol	mg/kg	<1.85	<2.31	<2.43	<2.17	<2.04	<2.21	<1.92	<7.28	<7.24	<9.62	<2.22	<2.23	<2.13	<1.97	<1.72	<1.80	<1.98	<1.88	<2.12	<1.99	<2.05	<1.95	<2.12	<1.85
4-Bromophenyl-phenylether	mg/kg	<0.926	<1.15	<1.22	<1.08	<1.02	<1.10	<0.958	<3.63	<3.62	<4.80	<1.11	<1.11	<1.06	<0.981	<0.859	<0.898	<0.988	<0.938	<1.06	<0.994	<1.02	<0.974	<1.06	<0.923
4-Chloroaniline	mg/kg	<1.85	<2.31	<2.43	<2.17	<2.04	<2.21	<1.92	<1.82	<1.81	<2.41	<2.22	<2.23	<2.13	<1.97	<1.72	<1.80	<1.98	<1.88	<2.12	<1.99	<2.05	<1.95	<2.12	<1.85
4-Nitrophenol	mg/kg	<4.64	<5.78	<6.09	<5.44	<5.10	<5.53	<4.81	<18.2	<18.1	<24.1	<5.56	<5.58	<5.33	<4.92	<4.31	<4.50	<4.95	<4.70	<5.32	<4.98	<5.13	<4.89	<5.30	<4.63
Acenaphthene	mg/kg	<0.926	<1.15	<1.22	<1.08	<1.02	<1.10	<0.958	<3.63	<3.62	<4.80	<1.11	<1.11	<1.06	<0.981	<0.859	<0.898	5.43	<0.938	<1.06	<0.994	<1.02	<0.974	<1.06	2.48
Acenaphthylene	mg/kg	<0.926	<1.15	<1.22	<1.08	<1.02	<1.10	<0.958	<3.63	<3.62	<4.80	<1.11	<1.11	<1.06	<0.981	<0.859	<0.898	2.13	<0.938	<1.06	<0.994	<1.02	<0.974	<1.06	<0.923
Acetophenone	mg/kg	<1.85	<2.31	<2.43	<2.17	<2.04	<2.21	<1.92	<7.28	<7.24	<9.62	<2.22	<2.23	<2.13	<1.97	<1.72	<1.80	<1.98	<1.88	<2.12	<1.99	<2.05	<1.95	<2.12	<1.85
Aniline	mg/kg	<4.64	<5.78	<6.09	<5.44	<5.10	<5.53	<4.81	<18.2	<18.1	<24.1	<5.56	<5.58	<5.33	<4.92	<4.31	<4.50	<4.95	<4.70	<5.32	<4.98	<5.13	<4.89	<5.30	<4.63
Anthracene	mg/kg	<0.926	<1.15	<1.22	<1.08	<1.02	<1.10	<0.958	<3.63	6.09	<4.80	<1.11	<1.11	<1.06	<0.981	<0.859	<0.898	15.1	<0.938	<1.06	<0.994	<1.02	<0.974	<1.06	7.18
Azobenzene	mg/kg	<0.926	<1.15	<1.22	<1.08	<1.02	<1.10	<0.958	<3.63	<3.62	<4.80	<1.11	<1.11	<1.06	<0.981	<0.859	<0.898	<0.988	<0.938	<1.06	<0.994	<1.02	<0.974	<1.06	<0.923
Benzo(a)anthracene	mg/kg	<0.926	<1.15	<1.22	<1.08	<1.02	<1.10	<0.958	<3.63	13.5	<4.80	<1.11	<1.11	<1.06	<0.981	<0.859	2.24	31.9	<0.938	<1.06	<0.994	<1.02	<0.974	<1.06	13.7
Benzo(a)pyrene	mg/kg	<0.464	<0.578	<0.609	<0.544	<0.510	<0.553	<0.481	2.65	11.7	<2.41	<0.556	<0.558	<0.533	<0.492	<0.431	2.12	24.1	0.549	<0.532	<0.498	<0.513	<0.489	<0.530	9.62
Benzo(b)fluoranthene	mg/kg	<0.926	<1.15	<1.22	<1.08	<1.02	<1.10	<0.958	<3.63	15	<4.80	<1.11	<1.11	<1.06	<0.981	<0.859	2.41	32.1	<0.938	<1.06	<0.994	<1.02	<0.974	<1.06	12.7
Benzo(g,h,i)perylene	mg/kg	<0.926	<1.15	<1.22	<1.08	<1.02	<1.10	<0.958	<3.63	<3.62	<4.80	<1.11	<1.11	<1.06	<0.981	<0.859	<0.898	7.35	<0.938	<1.06	<0.994	<1.02	<0.974	<1.06	2.23
Benzo(k)fluoranthene	mg/kg	<0.926	<1.15	<1.22	<1.08	<1.02	<1.10	<0.958	<3.63	8.05	<4.80	<1.11	<1.11	<1.06	<0.981	<0.859	1.56	13.6	<0.938	<1.06	<0.994	<1.02	<0.974	<1.06	5.91
bis(2-Chloroethoxy)methane	mg/kg	<0.926	<1.15	<1.22	<1.08	<1.02	<1.10	<0.958	<3.63	<3.62	<4.80	<1.11	<1.11	<1.06	<0.981	<0.859	<0.898	<0.988	<0.938	<1.06	<0.994	<1.02	<0.974	<1.06	<0.923
bis(2-Chloroethyl)ether	mg/kg	<0.464	<0.578	<0.609	<0.544	<0.510	<0.553	<0.481	<0.360	<0.358	<0.476	<0.556	<0.558	<0.533	<0.492	<0.431	<0.450	<0.495	<0.470	<0.532	<0.498	<0.513	<0.489	<0.530	<0.463
bis(2-chloroisopropyl)Ether	mg/kg	<0.464	<0.578	<0.609	<0.544	<0.510	<0.553	<0.481	<0.360	<0.358	<0.476	<0.556	<0.558	<0.533	<0.492	<0.431	<0.450	<0.495	<0.470	<0.532	<0.498	<0.513	<0.489	<0.530	<0.463
bis(2-Ethylhexyl)phthalate	mg/kg	<0.926	<1.15	<1.22	<1.08	<1.02	<1.10	<0.958	<3.63	<3.62	<4.80	<1.11	<1.11	<1.06	<0.981	<0.859	<0.898	<0.988	<0.938	<1.06	<0.994	<1.02	<0.974	<1.06	<0.923
Butylbenzylphthalate	mg/kg	<0.926	<1.15	<1.22	<1.08	<1.02	<1.10	<0.958	<3.63	<3.62	<4.80	<1.11	<1.11	<1.06	<0.981	<0.859	<0.898	<0.988	<0.938	<1.06	<0.994	<1.02	<0.974	<1.06	<0.923
Chrysene	mg/kg	<0.464	<0.578	<0.609	<0.544	<0.510	<0.553	<0.481	3.35	13.5	<2.41	<0.556	<0.558	<0.533	<0.492	<0.431	2.15	29.7	<0.470	<0.532	<0.498	<0.513	<0.489	<0.530	12.6
Dibenzo(a,h)Anthracene	mg/kg	<0.464	<0.578	<0.609	<0.544	<0.510	<0.553	<0.481	<1.82	<1.81	<2.41	<0.556	<0.558	<0.533	<0.492	<0.431	0.464	4.8	<0.470	<0.532	<0.498	<0.513	<0.489	<0.530	<0.463
Dibenzofuran	mg/kg	<0.926	<1.15	<1.22	<1.08	<1.02	<1.10	<0.958	<3.63	<3.62	<4.80	<1.11	<1.11	<1.06	<0.981	<0.859	<0.898	4.17	<0.938	<1.06	<0.994	<1.02	<0.974	<1.06	2.47
Diethylphthalate	mg/kg	<0.926	<1.15	<1.22	<1.08	<1.02	<1.10	<0.958	<3.63	<3.62	<4.80	<1.11	<1.11	<1.06	<0.981	<0.859	<0.898	<0.988	<0.938	<1.06	<0.994	<1.02	<0.974	<1.06	<0.923
Dimethylphthalate	mg/kg	<0.926	<1.15	<1.22	<1.08	<1.02	<1.10	<0.958	<3.63	<3.62	<4.80	<1.11	<1.11	<1.06	<0.981	<0.859	<0.898	<0.988	<0.938	<1.06	<0.994	<1.02	<0.974	<1.06	<0.923
Di-n-butylphthalate	mg/kg	<0.926	<1.15	<1.22	<1.08	<1.02	<1.10	<0.958	<3.63	<3.62	<4.80	<1.11	<1.11	<1.06	<0.981	<0.859	<0.898	<0.988	<0.938	<1.06	<0.994	<1.02	<0.974	<1.06	<0.923
Di-n-octylphthalate	mg/kg	<0.926	<1.15	<1.22	<1.08	<1.02	<1.10	<0.958	<3.63	<3.62	<4.80	<1.11	<1.11	<1.06	<0.981	<0.859	<0.898	<0.988	<0.938	<1.06	<0.994	<1.02	<0.974	<1.06	<0.923
Fluoranthene	mg/kg	<0.926	<1.15	<1.22	<1.08	<1.02	<1.10	<0.958	6.35	29.2	<4.80	<1.11	<1.11	<1.06	<0.981	<0.859	4.68	71	<0.938	<1.06	<0.994	<1.02	<0.974	<1.06	22.2
Fluorene	mg/kg	<0.926	<1.15	<1.22	<1.08	<1.02	<1.10	<0.958	<3.63	4.17	<4.80	<1.11	<1.11	<1.06	<0.981	<0.859	<0.898	7	<0.938	<1.06	<0.994	<1.02	<0.974	<1.06	2.92
Hexachlorobenzene	mg/kg	<0.464	<0.578	<0.609	<0.544	<0.510	<0.553	<0.481	<0.911	<0.907	<1.20	<0.556	<0.558	<0.533	<0.492	<0.431	<0.450	<0.495	<0.470	<0.532	<0.498	<0.513	<0.489	<0.530	<0.463
Hexachlorobutadiene	mg/kg	<0.926	<1.15	<1.22	<1.08	<1.02	<1.10	<0.958	<3.63	<3.62	<4.80	<1.11	<1.11	<1.06	<0.981	<0.859	<0.898	<0.988	<0.938	<1.06	<0.994	<1.02	<0.974	<1.06	<0.923
Hexachloroethane	mg/kg	<0.926	<1.15	<1.22	<1.08	<1.02	<1.10	<0.958	<1.82	<1.81	<2.41	<1.11	<1.11	<1.06	<0.981	<0.859	<0.898	<0.988	<0.938	<1.06	<0.994	<1.02	<0.974	<1.06	<0.923
Indeno(1,2,3-cd)Pyrene	mg/kg	<0.926	<1.15	<1.22	<1.08	<1.02	<1.10	<0.958	<3.63	<3.62	<4.80	<1.11	<1.11	<1.06	<0.981	<0.859	<0.898	7.49	<0.938	<1.06	<0.994	<1.02	<0.974	<1.06	2.47
Isophorone	mg/kg	<0.926	<1.15	<1.22	<1.08	<1.02	<1.10	<0.958	<3.63	<3.62	<4.80	<1.11	<1.11	<1.06	<0.981	<0.859	<0.898	<0.988	<0.938	<1.06	<0.994	<1.02	<0.974	<1.06	<0.923
Naphthalene	mg/kg	<0.926	<1.15	<1.22	<1.08	<1.02	<1.10	<0.958	<3.63	<3.62	<4.80	<1.11	<1.11	<1.06	<0.981	<0.859	<0.898	2.45	<0.938	<1.06	<0.994	<1.02	<0.974	<1.06	1.26
Nitrobenzene	mg/kg	<0.926	<1.15	<1.22	<1.08	<1.02	<1.10	<0.958	<3.63	<3.62	<4.80	<1.11	<1.11	<1.06	<0.981	<0.859	<0.898	<0.988	<0.938	<1.06	<0.994	<1.02	<0.974	<1.06	<0.923
N-Nitrosodimethylamine	mg/kg	<0.926	<1.15	<1.22	<1.08	<1.02	<1.10	<0.958	<3.63	<3.62	<4.80	<1.11	<1.11	<1.06	<0.981	<0.859	<0.898	<0.988	<0.938	<1.06	<0.994	<1.02	<0.974	<1.06	<0.923
Pentachlorophenol	mg/kg	<4.64	<5.78	<6.09	<5.44	<5.10	<5.53	<4.81	<18.2	<18.1	<24.1	<5.56	<5.58	<5.33	<4.92	<4.31	<4.50	<4.95	<4.70	<5.32	<4.98	<5.13	<4.89	<5.30	<4.63
Phenanthrene	mg/kg	<0.926	<1.15	<1.22	<1.08	<1.02	<1.10	<0.958	4.69	20.9	<4.80	<1.11	<1.11	<1.06	<0.981	<0.859	2.68	59	<0.938	<1.06	<0.994	<1.02	<0.974	<1.06	21.1
Phenol	mg/kg	<0.926	<1.15	<1.22	<1.08	<1.02	<1.10	<0.958	<3.63	<3.62	<4.80	<1.11	<1.11	<1.06	<0.981	<0.859	<0.898	<0.988	<0.938	<1.06	<0.994	<1.02	<0.974	<1.06	<0.923
Pyrene	mg/kg	<0.926	<1.15	<1.22	<1.08	<1.02	<1.10	<0.958	4.97	21.6	<4.80	<1.11	<1.11	<1.06	<0.981	<0.859	2.77	55.7	<0.938	<1.06	<0.994	<1.02	<0.974	<1.06	21.2
Total SVOCs	mg/kg	ND	ND	ND	ND	ND	ND	ND	22.01	143.71	ND	ND	ND	ND	ND	ND	21.074	374.68	0.549	ND	ND	ND	ND	ND	144.11
Classic Chemistry																									
Corrosivity (pH)	S.U.	8.43	8.3	8.46	7.99	8.18	8.37	8.37	7.75	7.26	6.56	6.89	6.66	6.67	7.27	7.85	8.08	7.56	8.22	7.17	7.1	7.19	7.78	7.74	8.38
Conductivity	umhos/cm	1310	1890	4610	7570	5130	6040	5030	231	503	1860	3540	5690	5140	3200	1060	290	827	753	4240	4740	3220	2710	1830	714
Flashpoint	°F	>200	--	--	--	--	--	--	>200	>200	--	--	--	--	--	--	>200	>200	--	--	--	--	--	--	>200
Reactive Cyanide	mg/kg	<2.0	--	--	--	--	--	--	<2.0	<2.0	--	--	--	--	--	--	<2.0	<2.0	--	--	--	--	--	--	<2.0
Reactive Sulfide	mg/kg	<2.0	--	--	--	--	--	--	<2.0	<2.0	--	--	--	--	--	--	<2.0	<2.0	--	--	--	--	--	--	<2.0

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	E04 E04S02BS04A 1502408 Fill 3.3 - 6.6 2/27/2015	E04 E04S05 1502408 Natural Organics 8 - 10 2/27/2015	E04 E04S06 1502408 Natural Clay 14 - 16 2/27/2015	E04 E04S07 1503022 Natural Clay 19 - 21 3/2/2015	E04 E04S08 1503022 Natural Clay 24 - 26 3/2/2015	E04 E04S09 1503022 Natural Sand/Gravel 29 - 31 3/2/2015	E04 E04S11 1503022 Natural Sand/Gravel 36 - 38 3/2/2015	E08 E08S01S02A 1502206 Fill 0 - 3.3 2/13/2015	E08 E08S02BS04A 1502206 Fill 3.3 - 6.6 2/13/2015	E08 E08S04BS05 1502206 Fill 6.6 - 10 2/13/2015	E08 E08S06 1502206 Natural Sand/Gravel 10 - 12 2/13/2015	E08 E08S07 1502206 Natural Clay 14 - 16 2/13/2015	E08 E08S08 1502206 Natural Clay 19 - 21 2/13/2015	E08 E08S09 1502206 Natural Clay 24 - 26 2/13/2015	E08 E08S10 1502206 Natural Sand/Gravel 29 - 31 2/13/2015	E08 E08S11S12 1502206 Natural Sand/Gravel 34 - 38 2/13/2015	E09 E09S01S02A 1502229 Fill 0 - 3.3 2/17/2015	E09 E09S02BS04A 1502229 Fill 3.3 - 6.6 2/17/2015	E09 E09S04B 1502229 Fill 6.6 - 8 2/17/2015	E09 E09S05 1502229 Natural Clay 8 - 10 2/17/2015	E09 E09S06 1502229 Natural Clay 14 - 16 2/17/2015	E09 E09S07 1502229 Natural Clay 19 - 21 2/17/2015	E09 E09S08 1502229 Natural Clay 24 - 26 2/17/2015	E09 E09S09 1502229 Natural Sand/Gravel 29 - 31 2/17/2015
Preliminary Disposal Facility Category		Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	Uncontaminated	MCP Restricted	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Restricted	MCP Restricted	MCP Restricted	Uncontaminated	Uncontaminated	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Restricted	MCP Restricted	MCP Regulated Type A	MCP Regulated Type A
RCRA 8 Metals	**Units**																								
Arsenic	mg/kg	13.6	<14.0	14.5	10.2	9.69	<7.78	9.17	10.6	<6.79	<7.33	8.93	16.2	14.1	8.28	<6.72	<6.72	<5.76	34.4	62.4	14.8	17.2	16.7	13.5	<8.53
Barium	mg/kg	52.7	42.6	90.1	80	59.2	9.35	54.7	44.6	25.2	32.8	42.3	107	121	54.3	16.2	8.27	15.4	73.8	81	101	132	81.5	99.1	13.2
Cadmium	mg/kg	1.41	<2.80	<1.58	<1.49	<1.50	<1.56	<1.41	<1.47	<1.36	<1.47	17.7	<1.39	<1.69	<1.58	<1.34	<1.34	<1.15	1.34	1.93	2.38	<1.63	<1.70	<1.57	<1.71
Chromium	mg/kg	22.5	36.6	50.2	38.3	37.4	8.98	31.7	18.6	11.2	9.51	15	60.5	59.5	30.4	12.2	6.44	10.8	9.9	43.8	52	57.8	47.9	47.3	12.5
Lead	mg/kg	334	<28.0	16	<14.9	<15.0	<15.6	<14.1	154	99.4	14.8	43.7	14.9	<16.9	<15.8	<13.4	<13.4	21.5	246	634	<15.7	<16.3	<17.0	<15.7	<17.1
Selenium	mg/kg	<6.31	<14.0	<7.89	<7.46	<7.48	<7.78	<7.04	<7.36	<6.79	<7.33	<7.92	<6.94	<8.47	<7.88	<6.72	<6.72	<5.76	<6.50	<6.56	<7.87	<8.13	<8.52	<7.86	<8.53
Silver	mg/kg	<1.26	<2.80	<1.58	<1.49	<1.50	<1.56	<1.41	<1.47	<1.36	<1.47	<1.58	<1.39	<1.69	<1.58	<1.34	<1.34	<1.15	<1.30	5.04	<1.57	<1.63	<1.70	<1.57	<1.71
Mercury	mg/kg	0.711	<0.076	<0.038	<0.035	<0.035	<0.035	<0.031	0.054	3.84	0.048	0.057	<0.039	<0.035	<0.035	<0.029	<0.027	0.044	1.48	3.71	<0.035	<0.043	<0.039	<0.043	<0.039
Metals by Toxicity Characteristic Leaching Procedure (TCLP)																									
Arsenic	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead	mg/L	0.803	--	--	--	--	--	--	0.182	0.232	--	--	--	--	--	--	--	--	<0.100	<0.100	--	--	--	--	--
Selenium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Herbicides																									
2,4,5-T	mg/kg	<0.23	--	--	--	--	--	--	<0.069	<0.054	<0.057	--	--	--	--	--	--	<0.25	<0.056	<0.070	<0.065	--	--	--	--
2,4-D	mg/kg	<1.2	--	--	--	--	--	--	<0.069	<0.054	<0.057	--	--	--	--	--	--	<0.25	<0.056	<0.070	<0.065	--	--	--	--
2,4-DB	mg/kg	<0.087	--	--	--	--	--	--	<0.069	<0.054	<0.057	--	--	--	--	--	--	<0.25	<0.056	<0.070	<0.065	--	--	--	--
Dalapon	mg/kg	<7.0	--	--	--	--	--	--	<0.83	<0.65	<0.69	--	--	--	--	--	--	<3.0	<0.68	<0.84	<0.79	--	--	--	--
Dicamba	mg/kg	<0.35	--	--	--	--	--	--	<0.069	<0.054	<0.057	--	--	--	--	--	--	<0.25	<0.056	<0.070	<0.065	--	--	--	--
Dichlorprop	mg/kg	<0.75	--	--	--	--	--	--	<0.069	<0.054	<0.057	--	--	--	--	--	--	<0.25	<0.056	<0.070	<0.065	--	--	--	--
Dinoseb	mg/kg	<1.2	--	--	--	--	--	--	<0.42	<0.33	<0.34	--	--	--	--	--	--	<1.5	<0.34	<0.42	<0.39	--	--	--	--
MCPA	mg/kg	<290	--	--	--	--	--	--	<17	<13	<14	--	--	--	--	--	--	<61	<14	<17	<16	--	--	--	--
MCPP	mg/kg	<290	--	--	--	--	--	--	<17	<13	<14	--	--	--	--	--	--	<61	<14	<17	<16	--	--	--	--
Silvex (2,4,5-TP)	mg/kg	<0.23	--	--	--	--	--	--	<0.069	<0.054	<0.057	--	--	--	--	--	--	<0.25	<0.056	<0.070	<0.065	--	--	--	--
Pesticides																									
4,4'-DDD	mg/kg	<0.0039	--	--	--	--	--	--	<0.012	<0.0094	<0.0039	--	--	--	--	--	--	<0.019	<0.010	<0.0052	<0.0022	--	--	--	--
4,4'-DDE	mg/kg	<0.0039	--	--	--	--	--	--	<0.012	<0.0094	<0.0039	--	--	--	--	--	--	<0.019	<0.010	<0.0052	<0.0022	--	--	--	--
4,4'-DDT	mg/kg	<0.0039	--	--	--	--	--	--	<0.012	<0.0094	<0.0039	--	--	--	--	--	--	<0.019	<0.010	<0.0052	<0.0022	--	--	--	--
Aldrin	mg/kg	<0.0039	--	--	--	--	--	--	<0.012	<0.0094	<0.0039	--	--	--	--	--	--	<0.019	<0.010	<0.0052	<0.0022	--	--	--	--
alpha-BHC	mg/kg	<0.0039	--	--	--	--	--	--	<0.012	<0.0094	<0.0039	--	--	--	--	--	--	<0.019	<0.010	<0.0052	<0.0022	--	--	--	--
beta-BHC	mg/kg	<0.0039	--	--	--	--	--	--	<0.012	<0.0094	<0.0039	--	--	--	--	--	--	<0.019	<0.010	<0.0052	<0.0022	--	--	--	--
Chlordane (technical)	mg/kg	<0.039	--	--	--	--	--	--	<0.12	<0.094	<0.039	--	--	--	--	--	--	<0.19	<0.10	<0.052	<0.022	--	--	--	--
delta-BHC	mg/kg	<0.0039	--	--	--	--	--	--	<0.012	<0.0094	<0.0039	--	--	--	--	--	--	<0.019	<0.010	<0.0052	<0.0022	--	--	--	--
Dieldrin	mg/kg	<0.0039	--	--	--	--	--	--	<0.012	<0.0094	<0.0039	--	--	--	--	--	--	<0.019	<0.010	<0.0052	<0.0022	--	--	--	--
Endosulfan I	mg/kg	<0.0039	--	--	--	--	--	--	<0.012	<0.0094	<0.0039	--	--	--	--	--	--	<0.019	<0.010	<0.0052	<0.0022	--	--	--	--
Endosulfan II	mg/kg	<0.0039	--	--	--	--	--	--	<0.012	<0.0094	<0.0039	--	--	--	--	--	--	<0.019	<0.010	<0.0052	<0.0022	--	--	--	--
Endosulfan sulfate	mg/kg	<0.0039	--	--	--	--	--	--	<0.012	<0.0094	<0.0039	--	--	--	--	--	--	<0.019	<0.010	<0.0052	<0.0022	--	--	--	--
Endrin	mg/kg	<0.0039	--	--	--	--	--	--	<0.012	<0.0094	<0.0039	--	--	--	--	--	--	<0.019	<0.010	<0.0052	<0.0022	--	--	--	--
Endrin ketone	mg/kg	<0.0039	--	--	--	--	--	--	<0.012	<0.0094	<0.0039	--	--	--	--	--	--	<0.019	<0.010	<0.0052	<0.0022	--	--	--	--
gamma-BHC (Lindane)	mg/kg	<0.0039	--	--	--	--	--	--	<0.012	<0.0094	<0.0039	--	--	--	--	--	--	<0.019	<0.010	<0.0052	<0.0022	--	--	--	--
Heptachlor	mg/kg	<0.0039	--	--	--	--	--	--	<0.012	<0.0094	<0.0039	--	--	--	--	--	--	<0.019	<0.010	<0.0052	<0.0022	--	--	--	--
Heptachlor epoxide	mg/kg	<0.0039	--	--	--	--	--	--	<0.012	<0.0094	<0.0039	--	--	--	--	--	--	<0.019	<0.010	<0.0052	<0.0022	--	--	--	--
Hexachlorobenzene	mg/kg	<0.0039	--	--	--	--	--	--	<0.012	<0.0094	<0.0039	--	--	--	--	--	--	<0.019	<0.010	0.013	<0.0022	--	--	--	--
Methoxychlor	mg/kg	<0.0039	--	--	--	--	--	--	<0.012	<0.0094	<0.0039	--	--	--	--	--	--	<0.019	<0.010	<0.0052	<0.0022	--	--	--	--
Polychlorinated Biphenyls																									
Aroclor 1016	mg/kg	<0.141	<0.282	<0.153	<0.143	<0.150	<0.149	<0.135	<0.130	<0.127	<0.136	<0.141	<0.154	<0.159	<0.143	<0.146	<0.142	<0.128	<0.149	<0.151	<0.154	<0.162	<0.163	<0.161	<0.155
Aroclor 1221	mg/kg	<0.141	<0.282	<0.153	<0.143	<0.150	<0.149	<0.135	<0.130	<0.127	<0.136	<0.141	<0.154	<0.159	<0.143	<0.146	<0.142	<0.128	<0.149	<0.151	<0.154	<0.162	<0.163	<0.161	<0.155
Aroclor 1232	mg/kg	<0.141	<0.282	<0.153	<0.143	<0.150	<0.149	<0.135	<0.130	<0.127	<0.136	<0.141	<0.154	<0.159	<0.143	<0.146	<0.142	<0.128	<0.149	<0.151	<0.154	<0.162	<0.163	<0.161	<0.155
Aroclor 1242	mg/kg	<0.141	<0.282	<0.153	<0.143	<0.150	<0.149	<0.135	<0.130	<0.127	<0.136	<0.141	<0.154	<0.159	<0.143	<0.146	<0.142	<0.128	<0.149	<0.151	<0.154	<0.162	<0.163	<0.161	<0.155
Aroclor 1248	mg/kg	<0.141	<0.282	<0.153	<0.143	<0.150	<0.149	<0.135	<0.130	<0.127	<0.136	<0.141	<0.154	<0.159	<0.143	<0.146	<0.142	<0.128	<0.149	<0.151	<0.154	<0.162	<0.163	<0.161	<0.155
Aroclor 1254	mg/kg	0.168	<0.282	<0.153	<0.143	<0.150	<0.149	<0.135	<0.130	<0.127	<0.136	<0.141	<0.154	<0.159	<0.143	<0.146	<0.142	<0.128	1.56	<0.151	<0.154	<0.162	<0.163	<0.161	<0.155
Aroclor 1260	mg/kg	<0.141	<0.282	<0.153	<0.143	<0.150	<0.149	<0.135	<0.130	<0.127	<0.136	<0.141	<0.154	<0.159	<0.143	<0.146	<0.142	<0.128	0.236	<0.151	<0.154	<0.162	<0.163	<0.161	<0.155
Aroclor 1262	mg/kg	<0.141	<0.282	<0.153	<0.143	<0.150	<0.149	<0.135	<0.130	2	<0.136	<0.141	<0.154	<0.159	<0.143	<0.146	<0.142	<0.128	<0.149	<0.151	<0.154	<0.162	<0.163	<0.161	<0.155
Aroclor 1268	mg/kg	<0.141	<0.282	<0.153	<0.143	<0.150	<0.149	<0.135	<0.130	<0.127	<0.136	<0.141	<0.154	<0.159	<0.143	<0.146	<0.142	<0.128	<0.149	<0.151	<0.154	<0.162	<0.163	<0.161	<0.155
Total PCBs	mg/kg	0.168	ND	ND	ND	ND	ND	ND	ND	2	ND	ND	ND	ND	ND	ND	ND	ND	1.796	ND	ND	ND	ND	ND	ND
Total Petroleum Hydrocarbons	mg/kg	679	537	<50.2	<45.6	<49.2	<47.8	<40.0	276	105	<45.6	197	55.1	<53.1	<43.0	<40.9	<44.1	395	97.7	96.7	<48.0	<52.0	<52.3	<49.4	<49.6
Volatile Organic Compounds (VOCs)																									
1,1,1,2-Tetrachloroethane	mg/kg	<0.0869	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	mg/kg	<0.0435	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg	<0.0435	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	mg/kg	<0.0435	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	mg/kg	<0.0435	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	mg/kg	<0.0435	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloropropene	mg/kg	<0.0435	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	mg/kg	<0.0435	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	mg/kg	<0.0435	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	mg/kg	<0.0435	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	mg/kg	<0.0435	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-Chloropropane	mg/kg	<0.174	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	mg/kg	<0.0435	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	mg/kg	<0.0435	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	mg/kg	<0.0435	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	mg/kg	<0.0435	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	mg/kg	<0.0435	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	mg/kg	<0.0435	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichloropropane	mg/kg	<0.0435	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg	<0.0435	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane - Screen	mg/kg	<4.35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,2-Dichloropropane	mg/kg	<0.0869	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Butanone	mg/kg	<0.174	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chlorotoluene	mg/kg	<0.0435	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	mg/kg	<0.174	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Chlorotoluene	mg/kg	<0.0435	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Isopropyltoluene	mg/kg	<0.0435	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-Pentanone	mg/kg	<0.174	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	mg/kg	0.381	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzene	mg/kg	<0.0435	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromobenzene	mg/kg	<0.0435	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	mg/kg	<0.0435	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	mg/kg	<0.0435	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	mg/kg	<0.0435	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	mg/kg	<0.0869	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Disulfide	mg/kg	<0.0435	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	mg/kg	<0.0435	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	E04 E04S02BS04A 1502408 Fill 3.3 - 6.6 2/27/2015	E04 E04S05 1502408 Natural Organics 8 - 10 2/27/2015	E04 E04S06 1502408 Natural Clay 14 - 16 2/27/2015	E04 E04S07 1503022 Natural Clay 19 - 21 3/2/2015	E04 E04S08 1503022 Natural Clay 24 - 26 3/2/2015	E04 E04S09 1503022 Natural Sand/Gravel 29 - 31 3/2/2015	E04 E04S11 1503022 Natural Sand/Gravel 36 - 38 3/2/2015	E08 E08S01S02A 1502206 Fill 0 - 3.3 2/13/2015	E08 E08S02BS04A 1502206 Fill 3.3 - 6.6 2/13/2015	E08 E08S04BS05 1502206 Fill 6.6 - 10 2/13/2015	E08 E08S06 1502206 Natural Sand/Gravel 10 - 12 2/13/2015	E08 E08S07 1502206 Natural Clay 14 - 16 2/13/2015	E08 E08S08 1502206 Natural Clay 19 - 21 2/13/2015	E08 E08S09 1502206 Natural Clay 24 - 26 2/13/2015	E08 E08S10 1502206 Natural Sand/Gravel 29 - 31 2/13/2015	E08 E08S11S12 1502206 Natural Sand/Gravel 34 - 38 2/13/2015	E09 E09S01S02A 1502229 Fill 0 - 3.3 2/17/2015	E09 E09S02BS04A 1502229 Fill 3.3 - 6.6 2/17/2015	E09 E09S04B 1502229 Fill 6.6 - 8 2/17/2015	E09 E09S05 1502229 Natural Clay 8 - 10 2/17/2015	E09 E09S06 1502229 Natural Clay 14 - 16 2/17/2015	E09 E09S07 1502229 Natural Clay 19 - 21 2/17/2015	E09 E09S08 1502229 Natural Clay 24 - 26 2/17/2015	E09 E09S09 1502229 Natural Sand/Gravel 29 - 31 2/17/2015
Preliminary Disposal Facility Category		Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	Uncontaminated	MCP Restricted	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Restricted	MCP Restricted	MCP Restricted	Uncontaminated	Uncontaminated	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Restricted	MCP Restricted	MCP Regulated Type A	MCP Regulated Type A
Chlorobenzene	mg/kg	<0.0435	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	mg/kg	<0.0869	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	mg/kg	0.124	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	mg/kg	<0.0869	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	mg/kg	0.776	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	mg/kg	<0.0435	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	mg/kg	<0.0435	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromomethane	mg/kg	<0.0435	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	mg/kg	<0.0435	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Diethyl Ether	mg/kg	<0.0435	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Di-isopropyl ether	mg/kg	<0.0435	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethyl tertiary-butyl ether	mg/kg	<0.0435	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	mg/kg	<0.0435	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	mg/kg	<0.0435	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene	mg/kg	<0.0435	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	mg/kg	<0.0435	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride	mg/kg	<0.174	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	mg/kg	0.116	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	mg/kg	<0.0435	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	mg/kg	<0.0435	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	mg/kg	<0.0435	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	mg/kg	<0.0435	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
tert-Butylbenzene	mg/kg	<0.0435	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tertiary-amyl methyl ether	mg/kg	<0.0435	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	mg/kg	<0.0435	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	mg/kg	<0.174	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	mg/kg	0.0635	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	mg/kg	<0.0435	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	mg/kg	<0.0435	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene	mg/kg	4.29	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane	mg/kg	<0.0435	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	mg/kg	<0.0435	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene O	mg/kg	<0.0435	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene P,M	mg/kg	<0.0869	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylenes (Total)	mg/kg	<0.0869	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total VOCs	mg/kg	5.7505	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds - Low Level Analysis																									
1,1,1,2-Tetrachloroethane	mg/kg	<0.0081	<0.0175	<0.0042	<0.0034	<0.0036	<0.0036	<0.0034	<0.0050	<0.0050	<0.0027	<0.0041	<0.0048	<0.0042	<0.0030	<0.0028	<0.0029	<0.0073	<0.0054	<0.0037	<0.0043	<0.0039	<0.0035	<0.0027	<0.0037
1,1,1-Trichloroethane	mg/kg	<0.0081	<0.0175	<0.0042	<0.0034	<0.0036	<0.0036	<0.0034	<0.0050	<0.0050	<0.0027	<0.0041	<0.0048	<0.0042	<0.0030	<0.0028	<0.0029	<0.0073	<0.0054	<0.0037	<0.0043	<0.0039	<0.0035	<0.0027	<0.0037
1,1,2,2-Tetrachloroethane	mg/kg	<0.0032	<0.0070	<0.0017	<0.0014	<0.0015	<0.0015	<0.0014	<0.0020	<0.0020	<0.0011	<0.0017	<0.0019	<0.0017	<0.0012	<0.0011	<0.0011	<0.0029	<0.0021	<0.0015	<0.0017	<0.0016	<0.0014	<0.0011	<0.0015
1,1,2-Trichloroethane	mg/kg	<0.0081	<0.0175	<0.0042	<0.0034	<0.0036	<0.0036	<0.0034	<0.0050	<0.0050	<0.0027	<0.0041	<0.0048	<0.0042	<0.0030	<0.0028	<0.0029	<0.0073	<0.0054	<0.0037	<0.0043	<0.0039	<0.0035	<0.0027	<0.0037
1,1-Dichloroethane	mg/kg	<0.0081	<0.0175	<0.0042	<0.0034	<0.0036	<0.0036	<0.0034	<0.0050	<0.0050	<0.0027	<0.0041	<0.0048	<0.0042	<0.0030	<0.0028	<0.0029	<0.0073	<0.0054	<0.0037	<0.0043	<0.0039	<0.0035	<0.0027	<0.0037
1,1-Dichloroethene	mg/kg	<0.0081	<0.0175	<0.0042	<0.0034	<0.0036	<0.0036	<0.0034	<0.0050	<0.0050	<0.0027	<0.0041	<0.0048	<0.0042	<0.0030	<0.0028	<0.0029	<0.0073	<0.0054	<0.0037	<0.0043	<0.0039	<0.0035	<0.0027	<0.0037
1,1-Dichloropropene	mg/kg	<0.0081	<0.0175	<0.0042	<0.0034	<0.0036	<0.0036	<0.0034	<0.0050	<0.0050	<0.0027	<0.0041	<0.0048	<0.0042	<0.0030	<0.0028	<0.0029	<0.0073	<0.0054	<0.0037	<0.0043	<0.0039	<0.0035	<0.0027	<0.0037
1,2,3-Trichlorobenzene	mg/kg	<0.0081	<0.0175	<0.0042	<0.0034	<0.0036	<0.0036	<0.0034	<0.0050	<0.0050	<0.0027	<0.0041	<0.0048	<0.0042	<0.0030	<0.0028	<0.0029	<0.0073	<0.0054	<0.0037	<0.0043	<0.0039	<0.0035	<0.0027	<0.0037
1,2,3-Trichloropropane	mg/kg	<0.0081	<0.0175	<0.0042	<0.0034	<0.0036	<0.0036	<0.0034	<0.0050	<0.0050	<0.0027	<0.0041	<0.0048	<0.0042	<0.0030	<0.0028	<0.0029	<0.0073	<0.0054	<0.0037	<0.0043	<0.0039	<0.0035	<0.0027	<0.0037
1,2,4-Trichlorobenzene	mg/kg	<0.0081	<0.0175	<0.0042	<0.0034	<0.0036	<0.0036	<0.0034	<0.0050	<0.0050	<0.0027	<0.0041	<0.0048	<0.0042	<0.0030	<0.0028	<0.0029	<0.0073	<0.0054	<0.0037	<0.0043	<0.0039	<0.0035	<0.0027	<0.0037
1,2,4-Trimethylbenzene	mg/kg	<0.0081	<0.0175	<0.0042	<0.0034	<0.0036	<0.0036	<0.0034	<0.0050	<0.0050	<0.0027	<0.0041	<0.0048	<0.0042	<0.0030	<0.0028	<0.0029	<0.0073	<0.0054	<0.0037	<0.0043	<0.0039	<0.0035	<0.0027	<0.0037
1,2-Dibromo-3-Chloropropane	mg/kg	<0.0081	<0.0175	<0.0042	<0.0034	<0.0036	<0.0036	<0.0034	<0.0050	<0.0050	<0.0027	<0.0041	<0.0048	<0.0042	<0.0030	<0.0028	<0.0029	<0.0073	<0.0054	<0.0037	<0.0043	<0.0039	<0.0035	<0.0027	<0.0037
1,2-Dibromoethane	mg/kg	<0.0081	<0.0175	<0.0042	<0.0034	<0.0036	<0.0036	<0.0034	<0.0050	<0.0050	<0.0027	<0.0041	<0.0048	<0.0042	<0.0030	<0.0028	<0.0029	<0.0073	<0.0054	<0.0037	<0.0043	<0.0039	<0.0035	<0.0027	<0.0037
1,2-Dichlorobenzene	mg/kg	<0.0081	<0.0175	<0.0042	<0.0034	<0.0036	<0.0036	<0.0034	<0.0050	<0.0050	<0.0027	<0.0041	<0.0048	<0.0042	<0.0030	<0.0028	<0.0029	<0.0073	<0.0054	<0.0037	<0.0043	<0.0039	<0.0035	<0.0027	<0.0037
1,2-Dichloroethane	mg/kg	<0.0081	<0.0175	<0.0042	<0.0034	<0.0036	<0.0036	<0.0034	<0.0050	<0.0050	<0.0027	<0.0041	<0.0048	<0.0042	<0.0030	<0.0028	<0.0029	<0.0073	<0.0054	<0.0037	<0.0043	<0.0039	<0.0035	<0.0027	<0.0037
1,2-Dichloropropane	mg/kg	<0.0081	<0.0175	<0.0042	<0.0034	<0.0036	<0.0036	<0.0034	<0.0050	<0.0050	<0.0027	<0.0041	<0.0048	<0.0042	<0.0030	<0.0028	<0.0029	<0.0073	<0.0054	<0.0037	<0.0043	<0.0039	<0.0035	<0.0027	<0.0037
1,3,5-Trimethylbenzene	mg/kg	<0.0081	<0.0175	<0.0042	<0.0034	<0.0036	<0.0036	<0.0034	<0.0050	<0.0050	<0.0027	<0.0041	<0.0048	<0.0042	<0.0030	<0.0028	<0.0029	<0.0073	<0.0054	<0.0037	<0.0043	<0.0039	<0.0035	<0.0027	<0.0037
1,3-Dichlorobenzene	mg/kg	<0.0081	<0.0175	<0.0042	<0.0034	<0.0036	<0.0036	<0.0034	<0.0050	<0.0050	<0.0027	<0.0041	<0.0048	<0.0042	<0.0030	<0.0028	<0.0029	<0.0073	<0.0054	<0.0037	<0.0043	<0.0039	<0.0035	<0.0027	<0.0037
1,3-Dichloropropane	mg/kg	<0.0081	<0.0175	<0.0042	<0.0034	<0.0036	<0.0036	<0.0034	<0.0050	<0.0050	<0.0027	<0.0041	<0.0048	<0.0042	<0.0030	<0.0028	<0.0029	<0.0073	<0.0054	<0.0037	<0.0043	<0.0039	<0.0035	<0.0027	<0.0037
1,4-Dichlorobenzene	mg/kg	<0.0081	<0.0175	<0.0042	<0.0034	<0.0036	<0.0036	<0.0034	<0.0050	<0.0050	<0.0027	<0.0041	<0.0048	<0.0042	<0.0030	<0.0028	<0.0029	<0.0073	<0.0054	<0.0037	<0.0043	<0.0039	<0.0035	<0.0027	<0.0037
1,4-Dioxane	mg/kg	<0.161	<0.350	<0.0832	<0.0678	<0.0727	<0.0725	<0.0685	<0.101	<0.101	<0.0543	<0.0828	<0.0950	<0.0850	<0.0597	<0.0566	<0.0575	<0.147	<0.107	<0.0742	<0.0859	<0.0781	<0.0710	<0.0542	<0.0749
2,2-Dichloropropane	mg/kg	<0.0081	<0.0175	<0.0042	<0.0034	<0.0036	<0.0036	<0.0034	<0.0050	<0.0050	<0.0027	<0.0041	<0.0048	<0.0042	<0.0030	<0.0028	<0.0029	<0.0073	<0.0054	<0.0037	<0.0043	<0.0039	<0.0035	<0.0027	<0.0037
2-Butanone	mg/kg	<0.0161	<0.0350	<0.0083	<0.0068	<0.0073	<0.0073	<0.0068	<0.0101	<0.0101	<0.0054	<0.0083	<0.0095	<0.0085	<0.0060	<0.0057	<0.0057	<0.0147	<0.0107	<0.0074	<0.0086	<0.0078	<0.0071	<0.0054	<0.0075
2-Chlorotoluene	mg/kg	<0.0081	<0.0175	<0.0042	<0.0034	<0.0036	<0.0036	<0.0034	<0.0050	<0.0050	<0.0027	<0.0041	<0.0048	<0.0042	<0.0030	<0.0028	<0.0029	<0.0073	<0.0054	<0.0037	<0.0043	<0.0039	<0.0035	<0.0027	<0.0037
2-Hexanone	mg/kg	<0.0161	<0.0350	<0.0083	<0.0068	<0.0073	<0.0073	<0.0068	<0.0101	<0.0101	<0.0054	<0.0083	<0.0095	<0.0085	<0.0060	<0.0057	<0.0057	<0.0147	<0.0107	<0.0074	<0.0086	<0.0078	<0.0071	<0.0054	<0.0075
4-Chlorotoluene	mg/kg	<0.0081	<0.0175	<0.0042	<0.0034	<0.0036	<0.0036	<0.0034	<0.0050	<0.0050	<0.0027	<0.0041	<0.0048	<0.0042	<0.0030	<0.0028	<0.0029	<0.0073	<0.0054	<0.0037	<0.0043	<0.0039	<0.0035	<0.0027	<0.0037
4-Isopropyltoluene	mg/kg	<0.0081	<0.0175	<0.0042	<0.0034	<0.0036	<0.0036	<0.0034	<0.0050	<0.0050	<0.0027	<0.0041	<0.0048	<0.0042	<0.0030	<0.0028	<0.0029	<0.0073	<0.0054	<0.0037	<0.0043	<0.0039	<0.0035	<0.0027	<0.0037
4-Methyl-2-Pentanone	mg/kg	<0.0161	<0.0350	<0.0083	<0.0068	<0.0073	<0.0073	<0.0068	<0.0101	<0.0101	<0.0054	<0.0083	<0.0095	<0.0085	<0.0060	<0.0057	<0.0057	<0.0147	<0.0107	<0.0074	<0.0086	<0.0078	<0.0071	<0.0054	<0.0075
Acetone	mg/kg	0.0523	0.177	<0.0083	<0.0068	<0.0073	<0.0073	<0.0068	<0.0101	0.0112	0.0097	0.0606	<0.0095	<0.0085	<0.0060	<0.0057	<0.0057	<0.0147	0.0263	0.0231	0.0133	<0.0078	<0.0071	0.0088	0.0094
Benzene	mg/kg	<0.0081	<0.0175	<0.0042	<0.0034	<0.0036	<0.0036	<0.0034	<0.0050	<0.0050	<0.0027	<0.0041	<0.0048	<0.0042	<0.0030	<0.0028	<0.0029	<0.0073	<0.0054	<0.0037	<0.0043	<0.0039	<0.0035	<0.0027	<0.0037
Bromobenzene	mg/kg	<0.0081	<0.0175	<0.0042	<0.0034	<0.0036	<0.0036	<0.0034	<0.0050	<0.0050	<0.0027	<0.0041	<0.0048	<0.0042	<0.0030	<0.0028	<0.0029	<0.0073	<0.0054	<0.0037	<0.0043	<0.0039	<0.0035	<0.0027	<0.0037
Bromochloromethane	mg/kg	<0.0081	<0.0175	<0.0042	<0.0034	<0.0036	<0.0036	<0.0034	<0.0050	<0.0050	<0.0027	<0.0041	<0.0048	<0.0042	<0.0030	<0.0028	<0.0029	<0.0073	<0.0054	<0.0037	<0.0043	<0.0039	<0.0035	<0.0027	<0.0037
Bromodichloromethane	mg/kg	<0.0081	<0.0175	<0.0042	<0.0034	<0.0036	<0.0036	<0.0034	<0.0050	<0.0050	<0.0027	<0.0041	<0.0048	<0.0042	<0.0030	<0.0028	<0.0029	<0.0073	<0.0054	<0.0037	<0.0043	<0.0039	<0.0035	<0.0027	<0.0037
Bromoform	mg/kg	<0.0081	<0.0175	<0.0042	<0.0034	<0.0036	<0.0036	<0.0034	<0.0050	<0.0050	<0.0027	<0.0041	<0.0048	<0.0042	<0.0030	<0.0028	<0.0029	<0.0073	<0.0054	<0.0037	<0.0043	<0.0039	<0.0035	<0.0027	<0.0037
Bromomethane	mg/kg	<0.0161	<0.0350	<0.0083	<0.0068	<0.0073	<0.0073	<0.0068	<0.0101	<0.0101	<0.0054	<0.0083	<0.0095	<0.0085	<0.0060	<0.0057	<0.0057	<0.0147	<0.0107	<0.0074	<0.0086	<0.0078	<0.0071	<0.0054	<0.0075
Carbon Disulfide	mg/kg	<0.0081	0.0283	<0.0042	<0.0034	<0.0036	<0.0036	<0.0034	<0.0050	<0.0050	<0.0027	<0.0041	<0.0048	<0.0042	<0.0030	<0.0028	<0.0029	<0.0073	<0.0054	<0.0037	<0.0043	<0.0039	<0.0035	<0.0027	<0.0037
Carbon Tetrachloride	mg/kg	<0.0081	<0.0175	<0.0042	<0.0034	<0.0036	<0.0036	<0.0034	<0.0050	<0.0050	<0.0027	<0.0041	<0.0048	<0.0042	<0.0030	<0.0028	<0.0029	<0.0073	<0.0054	<0.0037	<0.0043	<0.0039	<0.0035	<0.0027	<0.0037
Chlorobenzene	mg/kg	<0.0081	<0.0175	<0.0042	<0.0034	<0.0036	<0.0036	<0.0034	<0.0050	<0.0050	<0.0027	<0.0041	<0.0048	<0.0042	<0.0030	<0.0028	<0.0029	<0.0073	<0.0054	<0.0037	<0.0043	<0.0039	<0.0035	<0.0027	<0.0037
Chloroethane	mg/kg	<0.0161	<0.0350	<0.0083	<0.0068	<0.0073	<0.0073	<0.0068	<0.0101	<0.0101	<0.0054	<0.0083	<0.0095	<0.0085	<0.0060	<0.0057	<0.0057	<0.0147	<0.0107	<0.0074	<0.0086	<0.0078	<0.0071	<0.0054	<0.0075
Chloroform	mg/kg	<0.0081	<0.0175	<0.0042	<0.0034	<0.0036	<0.0036	<0.0034	<0.0050	<0.0050	<0.0027	<0.0041	<0.0048	<0.0042	<0.0030	<0.0028	<0.0029	<0.0073	<0.0054	<0.0037	<0.0043	<0.0039	<0.0035	<0.0027	<0.0037
Chloromethane	mg/kg	<0.0161	<0.0350	<0.0083	<0.0068	<0.0073	<0.0073	<0.0068	<0.0101	<0.0101	<0.0054	<0.0083	<0.0095	<0.0085	<0.0060	<0.0057	<0.0057	<0.0147	<0.0107	<0.0074	<0.0086	<0.0078	<0.0071	<0.0054	<0.0075
cis-1,2-Dichloroethene	mg/kg	0.0939	<0.0175	<0.0042	<0.0034	<0.0036	<0.0036	<0.0034	<0.0050	<0.0050	<0.0027	<0.0041	<0.0048	<0.0042	<0.0030	<0.0028	<0.0029	<0.0073	<0.0054	<0.0037	<0.0043	<0.0039	<0.0035	<0.0027	<0.0037
cis-1,3-Dichloropropene	mg/kg	<0.0081	<0.0175	<0.0042	<0.0034	<0.0036	<0.0036	<0.0034	<0.0050	<0.0050	<0.0027	<0.0041	<0.0048	<0.0042	<0.0030	<0.0028	<0.0029	<0.0073	<0.0054	<0.0037	<0.0043	<0.0039	<0.0035	<0.0027	<0.0037
Dibromochloromethane	mg/kg	<0.0032	<0.0070	<0.0017	<0.0014	<0.0015	<0.0015	<0.0014	<0.0020	<0.0020	<0.0011	<0.0017	<0.0019	<0.0017	<0.0012	<0.0011	<0.0011	<0.0029	<0.0021	<0.0015	<0.0017	<0.0016	<0.0014	<0.0011	<0.0015
Dibromomethane	mg/kg	<0.0081	<0.0175	<0.0042	<0.0034	<0.0036	<0.0036	<0.0034	<0.0050	<0.0050	<0.0027	<0.0041	<0.0048	<0.0042	<0.0030	<0.0028	<0.0029	<0.0073	<0.0054	<0.0037	<0.0043	<0.0039	<0.0035	<0.0027	<0.0037
Dichlorodifluoromethane	mg/kg	<0.0161	<0.0350	<0.0083	<0.0068	<0.0073	<0.0073	<0.0068	<0.0101	<0.0101	<0.0054	<0.0083	<0.0095	<0.0085	<0.0060	<0.0057	<0.0057	<0.0147	<0.0107	<0.0074	<0.0086	<0.0078	<0.0071	<0.0054	<0.0075
Diethyl Ether	mg/kg	<0.0081	<0.0175	<0.0042	<0.0034	<0.0036	<0.0036	<0.0034	<0.0050	<0.0050	<0.0027	<0.0041	<0.0048	<0.0042	<0.0030	<0.0028	<0.0029	<0.0073	<0.0054	<0.0037	<0.0043	<0.0039	<0.0035	<0.0027	<0.0037
Di-isopropyl ether	mg/kg	<0.0081	<0.0175	<0.0042	<0.0034	<0.0036	<0.0036	<0.0034	<0.0050	<0.0050	<0.0027	<0.0041	<0.0048	<0.0042	<0.0030	<0.0028	<0.0029	<0.0073	<0.0054	<0.0037	<0.0043	<0.0039	<0.0035	<0.0027	<0.0037
Ethyl tertiary-butyl ether	mg/kg	<0.0081	<0.0175	<0.0042	<0.0034	<0.0036	<0.0036	<0.0034	<0.0050	<0.0050	<0.0027	<0.0041	<0.0048	<0.0042	<0.0030	<0.0028	<0.0029	<0.0073	<0.0054	<0.0037	<0.0043	<0.0039	<0.0035	<0.0027	<0.0037
Ethylbenzene	mg/kg	<0.0081	<0.0175	<0.0042	<0.0034	<0.0036	<0.0036	<0.0034	<0.0050	<0.0050	<0.0027	<0.0041	<0.0048	<0.0042	<0.0030	<0.0028	<0.0029	<0.0073	<0.0054	<0.0037	<0.0043	<0.0039	<0.0035	<0.0027	<0.0037
Hexachlorobutadiene	mg/kg	<0.0081	<0.0175	<0.0042	<0.0034	<0.0036	<0.0036	<0.0034	<0.0050	<0.0050	<0.0027	<0.0041	<0.0048	<0.0042	<0.0030	<0.0028	<0.0029	<0.0073	<0.0054	<0.0037	<0.0043	<0.0039	<0.0035	<0.0027	<0.0037
Isopropylbenzene	mg/kg	<0.0081	<0.0175	<0.0042	<0.0034	<0.0036	<0.0036	<0.0034	<0.0050	<0.0050	<0.0027	<0.0041	<0.0048	<0.0042	<0.0030	<0.0028	<0.0029	<0.0073	<0.0054	<0.0037	<0.0043	<0.0039	<0.0035	<0.0027	<0.0037
Methyl tert-Butyl Ether	mg/kg	<0.0081	<0.0175	<0.0042	<0.0034	<0.0036	<0.0036	<0.0034	<0.0050	<0.0050	<0.0027	<0.0041	<0.0048	<0.0042	<0.0030	<0.0028	<0.0029	<0.0073	<0.0054	<0.0037	<0.0043	<0.0039	<0.0035	<0.0027	<0.0037
Methylene Chloride	mg/kg	<0.0161	<0.0350	<0.0083	<0.0068	<0.0073	<0.0073	<0.0068	<0.0101	<0.0101	<0.0054	<0.0083	<0.0095	<0.0085	<0.0060	<0.0057	<0.0057	<0.0147	<0.0107	<0.0074	<0.0086	<0.0078	<0.0071	<0.0054	<0.0075
Naphthalene	mg/kg	0.471	<0.0175	<0.0042	<0.0034	<0.0036	<0.0036	<0.0034	<0.0050	<0.0050	<0.0027	<0.0041	<0.0048	<0.0042	<0.0030	<0.0028	<0.0029	<0.0073	<0.0054	<0.0037	<0.0043	<0.0039	<0.0035	<0.0027	<0.0037
n-Butylbenzene	mg/kg	<0.0081	<0.0175	<0.0042	<0.0034	<0.0036	<0.0036	<0.0034	<0.0050	<0.0050	<0.0027	<0.0041	<0.0048	<0.0042	<0.0030	<0.0028	<0.0029	<0.0073	<0.0054	<0.0037	<0.0043	<0.0039	<0.0035	<0.0027	<0.0037
n-Propylbenzene	mg/kg	<0.0081	<0.0175	<0.0042	<0.0034	<0.0036	<0.0036	<0.0034	<0.0050	<0.0050	<0.0027	<0.0041	<0.0048	<0.0042	<0.0030	<0.0028	<0.0029	<0.0073	<0.0054	<0.0037	<0.0043	<0.0039	<0.0035	<0.0027	<0.0037
sec-Butylbenzene	mg/kg	<0.0081	<0.0175	<0.0042	<0.0034	<0.0036	<0.0036	<0.0034	<0.0050	<0.0050	<0.0027	<0.0041	<0.0048	<0.0042	<0.0030	<0.0028	<0.0029	<0.0073	<0.0054	<0.0037	<0.0043	<0.0039	<0.0035	<0.0027	<0.0037

J:\170,000-179,999\171521\171521-02.DEL\Supplemental Phase II\

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	E04 E04S02BS04A 1502408 Fill 3.3 - 6.6 2/27/2015	E04 E04S05 1502408 Natural Organics 8 - 10 2/27/2015	E04 E04S06 1502408 Natural Clay 14 - 16 2/27/2015	E04 E04S07 1503022 Natural Clay 19 - 21 3/2/2015	E04 E04S08 1503022 Natural Clay 24 - 26 3/2/2015	E04 E04S09 1503022 Natural Sand/Gravel 29 - 31 3/2/2015	E04 E04S11 1503022 Natural Sand/Gravel 36 - 38 3/2/2015	E08 E08S01S02A 1502206 Fill 0 - 3.3 2/13/2015	E08 E08S02BS04A 1502206 Fill 3.3 - 6.6 2/13/2015	E08 E08S04BS05 1502206 Fill 6.6 - 10 2/13/2015	E08 E08S06 1502206 Natural Sand/Gravel 10 - 12 2/13/2015	E08 E08S07 1502206 Natural Clay 14 - 16 2/13/2015	E08 E08S08 1502206 Natural Clay 19 - 21 2/13/2015	E08 E08S09 1502206 Natural Clay 24 - 26 2/13/2015	E08 E08S10 1502206 Natural Sand/Gravel 29 - 31 2/13/2015	E08 E08S11S12 1502206 Natural Sand/Gravel 34 - 38 2/13/2015	E09 E09S01S02A 1502229 Fill 0 - 3.3 2/17/2015	E09 E09S02BS04A 1502229 Fill 3.3 - 6.6 2/17/2015	E09 E09S04B 1502229 Fill 6.6 - 8 2/17/2015	E09 E09S05 1502229 Natural Clay 8 - 10 2/17/2015	E09 E09S06 1502229 Natural Clay 14 - 16 2/17/2015	E09 E09S07 1502229 Natural Clay 19 - 21 2/17/2015	E09 E09S08 1502229 Natural Clay 24 - 26 2/17/2015	E09 E09S09 1502229 Natural Sand/Gravel 29 - 31 2/17/2015
Preliminary Disposal Facility Category		Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	Uncontaminated	MCP Restricted	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Restricted	MCP Restricted	MCP Restricted	Uncontaminated	Uncontaminated	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Restricted	MCP Restricted	MCP Regulated Type A	MCP Regulated Type A
Styrene	mg/kg	<0.0081	<0.0175	<0.0042	<0.0034	<0.0036	<0.0036	<0.0034	<0.0050	<0.0050	<0.0027	<0.0041	<0.0048	<0.0042	<0.0030	<0.0028	<0.0029	<0.0073	<0.0054	<0.0037	<0.0043	<0.0039	<0.0035	<0.0027	<0.0037
tert-Butylbenzene	mg/kg	<0.0081	<0.0175	<0.0042	<0.0034	<0.0036	<0.0036	<0.0034	<0.0050	<0.0050	<0.0027	<0.0041	<0.0048	<0.0042	<0.0030	<0.0028	<0.0029	<0.0073	<0.0054	<0.0037	<0.0043	<0.0039	<0.0035	<0.0027	<0.0037
Tertiary-amyl methyl ether	mg/kg	<0.0081	<0.0175	<0.0042	<0.0034	<0.0036	<0.0036	<0.0034	<0.0050	<0.0050	<0.0027	<0.0041	<0.0048	<0.0042	<0.0030	<0.0028	<0.0029	<0.0073	<0.0054	<0.0037	<0.0043	<0.0039	<0.0035	<0.0027	<0.0037
Tetrachloroethene	mg/kg	<0.0081	<0.0175	<0.0042	<0.0034	<0.0036	<0.0036	<0.0034	<0.0050	<0.0050	<0.0027	<0.0041	<0.0048	<0.0042	<0.0030	<0.0028	<0.0029	<0.0073	<0.0054	<0.0037	<0.0043	<0.0039	<0.0035	<0.0027	<0.0037
Tetrahydrofuran	mg/kg	<0.0081	<0.0175	<0.0042	<0.0034	<0.0036	<0.0036	<0.0034	<0.0050	<0.0050	<0.0027	<0.0041	<0.0048	<0.0042	<0.0030	<0.0028	<0.0029	<0.0073	<0.0054	<0.0037	<0.0043	<0.0039	<0.0035	<0.0027	<0.0037
Toluene	mg/kg	<0.0081	<0.0175	<0.0042	<0.0034	<0.0036	<0.0036	<0.0034	<0.0050	<0.0050	<0.0027	<0.0041	<0.0048	<0.0042	<0.0030	<0.0028	<0.0029	<0.0073	<0.0054	<0.0037	<0.0043	<0.0039	<0.0035	<0.0027	<0.0037
trans-1,2-Dichloroethene	mg/kg	<0.0081	<0.0175	<0.0042	<0.0034	<0.0036	<0.0036	<0.0034	<0.0050	<0.0050	<0.0027	<0.0041	<0.0048	<0.0042	<0.0030	<0.0028	<0.0029	<0.0073	<0.0054	<0.0037	<0.0043	<0.0039	<0.0035	<0.0027	<0.0037
trans-1,3-Dichloropropene	mg/kg	<0.0081	<0.0175	<0.0042	<0.0034	<0.0036	<0.0036	<0.0034	<0.0050	<0.0050	<0.0027	<0.0041	<0.0048	<0.0042	<0.0030	<0.0028	<0.0029	<0.0073	<0.0054	<0.0037	<0.0043	<0.0039	<0.0035	<0.0027	<0.0037
Trichloroethene	mg/kg	0.0948	<0.0175	<0.0042	<0.0034	<0.0036	<0.0036	<0.0034	<0.0050	<0.0050	<0.0027	<0.0041	<0.0048	<0.0042	<0.0030	<0.0028	<0.0029	<0.0073	<0.0054	<0.0037	<0.0043	<0.0039	<0.0035	<0.0027	<0.0037
Trichlorofluoromethane	mg/kg	<0.0081	<0.0175	<0.0042	<0.0034	<0.0036	<0.0036	<0.0034	<0.0050	<0.0050	<0.0027	<0.0041	<0.0048	<0.0042	<0.0030	<0.0028	<0.0029	<0.0073	<0.0054	<0.0037	<0.0043	<0.0039	<0.0035	<0.0027	<0.0037
Vinyl Chloride	mg/kg	<0.0161	<0.0350	<0.0083	<0.0068	<0.0073	<0.0073	<0.0068	<0.0101	<0.0101	<0.0054	<0.0083	<0.0095	<0.0085	<0.0060	<0.0057	<0.0057	<0.0147	<0.0107	<0.0074	<0.0086	<0.0078	<0.0071	<0.0054	<0.0075
Xylene O	mg/kg	<0.0081	<0.0175	<0.0042	<0.0034	<0.0036	<0.0036	<0.0034	<0.0050	<0.0050	<0.0027	<0.0041	<0.0048	<0.0042	<0.0030	<0.0028	<0.0029	<0.0073	<0.0054	<0.0037	<0.0043	<0.0039	<0.0035	<0.0027	<0.0037
Xylene P,M	mg/kg	<0.0161	<0.0350	<0.0083	<0.0068	<0.0073	<0.0073	<0.0068	<0.0101	<0.0101	<0.0054	<0.0083	<0.0095	<0.0085	<0.0060	<0.0057	<0.0057	<0.0147	<0.0107	<0.0074	<0.0086	<0.0078	<0.0071	<0.0054	<0.0075
Xylenes (Total)	mg/kg	<0.0161	<0.0350	<0.0083	<0.0068	<0.0073	<0.0073	<0.0068	<0.0101	<0.0101	<0.0054	<0.0083	<0.0095	<0.0085	<0.0060	<0.0057	<0.0057	<0.0147	<0.0107	<0.0074	<0.0086	<0.0078	<0.0071	<0.0054	<0.0075
Total VOCs (Low Level)	mg/kg	0.712	0.2053	ND	ND	ND	ND	ND	ND	0.0112	0.0097	0.0606	ND	ND	ND	ND	ND	ND	0.0263	0.0231	0.0133	ND	ND	0.0088	0.0094
Semi-Volatile Organic Compounds																									
1,2,4-Trichlorobenzene	mg/kg	<0.942	<3.80	<1.06	<0.970	<1.03	<0.961	<0.885	<0.867	<0.856	<0.954	<0.875	<1.09	<1.12	<1.00	<0.890	<0.900	<0.844	<1.02	<1.03	<1.02	<1.06	<1.09	<1.04	<1.03
1,2-Dichlorobenzene	mg/kg	<0.942	<3.80	<1.06	<0.970	<1.03	<0.961	<0.885	<0.867	<0.856	<0.954	<0.875	<1.09	<1.12	<1.00	<0.890	<0.900	<0.844	<1.02	<1.03	<1.02	<1.06	<1.09	<1.04	<1.03
1,3-Dichlorobenzene	mg/kg	<0.942	<3.80	<1.06	<0.970	<1.03	<0.961	<0.885	<0.867	<0.856	<0.954	<0.875	<1.09	<1.12	<1.00	<0.890	<0.900	<0.844	<1.02	<1.03	<1.02	<1.06	<1.09	<1.04	<1.03
1,4-Dichlorobenzene	mg/kg	<0.472	<1.91	<0.533	<0.486	<0.518	<0.482	<0.444	<0.435	<0.429	<0.479	<0.439	<0.546	<0.563	<0.503	<0.447	<0.451	<0.423	<0.513	<0.515	<0.512	<0.534	<0.546	<0.521	<0.519
2,4,5-Trichlorophenol	mg/kg	<0.942	<3.80	<1.06	<0.970	<1.03	<0.961	<0.885	<0.867	<0.856	<0.954	<0.875	<1.09	<1.12	<1.00	<0.890	<0.900	<0.844	<1.02	<1.03	<1.02	<1.06	<1.09	<1.04	<1.03
2,4,6-Trichlorophenol	mg/kg	<0.942	<3.80	<1.06	<0.970	<1.03	<0.961	<0.885	<0.867	<0.856	<0.954	<0.875	<1.09	<1.12	<1.00	<0.890	<0.900	<0.844	<1.02	<1.03	<1.02	<1.06	<1.09	<1.04	<1.03
2,4-Dichlorophenol	mg/kg	<0.942	<3.80	<1.06	<0.970	<1.03	<0.961	<0.885	<0.867	<0.856	<0.954	<0.875	<1.09	<1.12	<1.00	<0.890	<0.900	<0.844	<1.02	<1.03	<1.02	<1.06	<1.09	<1.04	<1.03
2,4-Dimethylphenol	mg/kg	<0.942	<3.80	<1.06	<0.970	<1.03	<0.961	<0.885	<0.867	<0.856	<0.954	<0.875	<1.09	<1.12	<1.00	<0.890	<0.900	<0.844	<1.02	<1.03	<1.02	<1.06	<1.09	<1.04	<1.03
2,4-Dinitrophenol	mg/kg	<4.72	<19.1	<5.33	<4.86	<5.18	<4.82	<4.44	<4.35	<4.29	<4.79	<4.39	<5.46	<5.63	<5.03	<4.47	<4.51	<4.23	<5.13	<5.15	<5.12	<5.34	<5.46	<5.21	<5.19
2,4-Dinitrotoluene	mg/kg	<0.942	<0.953	<1.06	<0.970	<1.03	<0.961	<0.885	<0.867	<0.856	<0.954	<0.875	<1.09	<1.12	<1.00	<0.890	<0.900	<0.844	<1.02	<1.03	<1.02	<1.06	<1.09	<1.04	<1.03
2,6-Dinitrotoluene	mg/kg	<0.942	<3.80	<1.06	<0.970	<1.03	<0.961	<0.885	<0.867	<0.856	<0.954	<0.875	<1.09	<1.12	<1.00	<0.890	<0.900	<0.844	<1.02	<1.03	<1.02	<1.06	<1.09	<1.04	<1.03
2-Chloronaphthalene	mg/kg	<0.942	<3.80	<1.06	<0.970	<1.03	<0.961	<0.885	<0.867	<0.856	<0.954	<0.875	<1.09	<1.12	<1.00	<0.890	<0.900	<0.844	<1.02	<1.03	<1.02	<1.06	<1.09	<1.04	<1.03
2-Chlorophenol	mg/kg	<0.942	<3.80	<1.06	<0.970	<1.03	<0.961	<0.885	<0.867	<0.856	<0.954	<0.875	<1.09	<1.12	<1.00	<0.890	<0.900	<0.844	<1.02	<1.03	<1.02	<1.06	<1.09	<1.04	<1.03
2-Methylnaphthalene	mg/kg	2.11	<3.80	<1.06	<0.970	<1.03	<0.961	<0.885	<0.867	<0.856	<0.954	<0.875	<1.09	<1.12	<1.00	<0.890	<0.900	<0.844	<1.02	<1.03	<1.02	<1.06	<1.09	<1.04	<1.03
2-Methylphenol	mg/kg	<0.942	<3.80	<1.06	<0.970	<1.03	<0.961	<0.885	<0.867	<0.856	<0.954	<0.875	<1.09	<1.12	<1.00	<0.890	<0.900	<0.844	<1.02	<1.03	<1.02	<1.06	<1.09	<1.04	<1.03
2-Nitrophenol	mg/kg	<0.942	<3.80	<1.06	<0.970	<1.03	<0.961	<0.885	<0.867	<0.856	<0.954	<0.875	<1.09	<1.12	<1.00	<0.890	<0.900	<0.844	<1.02	<1.03	<1.02	<1.06	<1.09	<1.04	<1.03
3,3´-Dichlorobenzidine	mg/kg	<1.89	<7.61	<2.13	<1.94	<2.07	<1.92	<1.77	<1.74	<1.71	<1.91	<1.75	<2.18	<2.25	<2.01	<1.78	<1.80	<1.69	<2.05	<2.06	<2.04	<2.13	<2.18	<2.08	<2.07
3+4-Methylphenol	mg/kg	<1.89	<7.61	<2.13	<1.94	<2.07	<1.92	<1.77	<1.74	<1.71	<1.91	<1.75	<2.18	<2.25	<2.01	<1.78	<1.80	<1.69	<2.05	<2.06	<2.04	<2.13	<2.18	<2.08	<2.07
4-Bromophenyl-phenylether	mg/kg	<0.942	<3.80	<1.06	<0.970	<1.03	<0.961	<0.885	<0.867	<0.856	<0.954	<0.875	<1.09	<1.12	<1.00	<0.890	<0.900	<0.844	<1.02	<1.03	<1.02	<1.06	<1.09	<1.04	<1.03
4-Chloroaniline	mg/kg	<1.89	<1.91	<2.13	<1.94	<2.07	<1.92	<1.77	<1.74	<1.71	<1.91	<1.75	<2.18	<2.25	<2.01	<1.78	<1.80	<1.69	<2.05	<2.06	<2.04	<2.13	<2.18	<2.08	<2.07
4-Nitrophenol	mg/kg	<4.72	<19.1	<5.33	<4.86	<5.18	<4.82	<4.44	<4.35	<4.29	<4.79	<4.39	<5.46	<5.63	<5.03	<4.47	<4.51	<4.23	<5.13	<5.15	<5.12	<5.34	<5.46	<5.21	<5.19
Acenaphthene	mg/kg	3.91	<3.80	<1.06	<0.970	<1.03	<0.961	<0.885	<0.867	<0.856	<0.954	<0.875	<1.09	<1.12	<1.00	<0.890	<0.900	<0.844	<1.02	<1.03	<1.02	<1.06	<1.09	<1.04	<1.03
Acenaphthylene	mg/kg	<0.942	<3.80	<1.06	<0.970	<1.03	<0.961	<0.885	<0.867	<0.856	<0.954	<0.875	<1.09	<1.12	<1.00	<0.890	<0.900	<0.844	<1.02	<1.03	<1.02	<1.06	<1.09	<1.04	<1.03
Acetophenone	mg/kg	<1.89	<7.61	<2.13	<1.94	<2.07	<1.92	<1.77	<1.74	<1.71	<1.91	<1.75	<2.18	<2.25	<2.01	<1.78	<1.80	<1.69	<2.05	<2.06	<2.04	<2.13	<2.18	<2.08	<2.07
Aniline	mg/kg	<4.72	<19.1	<5.33	<4.86	<5.18	<4.82	<4.44	<4.35	<4.29	<4.79	<4.39	<5.46	<5.63	<5.03	<4.47	<4.51	<4.23	<5.13	<5.15	<5.12	<5.34	<5.46	<5.21	<5.19
Anthracene	mg/kg	11.3	<3.80	<1.06	<0.970	<1.03	<0.961	<0.885	<0.867	<0.856	<0.954	<0.875	<1.09	<1.12	<1.00	<0.890	<0.900	<0.844	<1.02	<1.03	<1.02	<1.06	<1.09	<1.04	<1.03
Azobenzene	mg/kg	<0.942	<3.80	<1.06	<0.970	<1.03	<0.961	<0.885	<0.867	<0.856	<0.954	<0.875	<1.09	<1.12	<1.00	<0.890	<0.900	<0.844	<1.02	<1.03	<1.02	<1.06	<1.09	<1.04	<1.03
Benzo(a)anthracene	mg/kg	15.3	<3.80	<1.06	<0.970	<1.03	<0.961	<0.885	<0.867	0.957	<0.954	<0.875	<1.09	<1.12	<1.00	<0.890	<0.900	<0.844	<1.02	<1.03	<1.02	<1.06	<1.09	<1.04	<1.03
Benzo(a)pyrene	mg/kg	10.9	<1.91	<0.533	<0.486	<0.518	<0.482	<0.444	0.508	0.958	<0.479	<0.439	<0.546	<0.563	<0.503	<0.447	<0.451	0.561	<0.513	<0.515	<0.512	<0.534	<0.546	<0.521	<0.519
Benzo(b)fluoranthene	mg/kg	14.1	<3.80	<1.06	<0.970	<1.03	<0.961	<0.885	<0.867	1.16	<0.954	<0.875	<1.09	<1.12	<1.00	<0.890	<0.900	<0.844	<1.02	<1.03	<1.02	<1.06	<1.09	<1.04	<1.03
Benzo(g,h,i)perylene	mg/kg	2.72	<3.80	<1.06	<0.970	<1.03	<0.961	<0.885	<0.867	<0.856	<0.954	<0.875	<1.09	<1.12	<1.00	<0.890	<0.900	<0.844	<1.02	<1.03	<1.02	<1.06	<1.09	<1.04	<1.03
Benzo(k)fluoranthene	mg/kg	6.04	<3.80	<1.06	<0.970	<1.03	<0.961	<0.885	<0.867	0.875	<0.954	<0.875	<1.09	<1.12	<1.00	<0.890	<0.900	<0.844	<1.02	<1.03	<1.02	<1.06	<1.09	<1.04	<1.03
bis(2-Chloroethoxy)methane	mg/kg	<0.942	<3.80	<1.06	<0.970	<1.03	<0.961	<0.885	<0.867	<0.856	<0.954	<0.875	<1.09	<1.12	<1.00	<0.890	<0.900	<0.844	<1.02	<1.03	<1.02	<1.06	<1.09	<1.04	<1.03
bis(2-Chloroethyl)ether	mg/kg	<0.472	<0.377	<0.533	<0.486	<0.518	<0.482	<0.444	<0.435	<0.429	<0.479	<0.439	<0.546	<0.563	<0.503	<0.447	<0.451	<0.423	<0.513	<0.515	<0.512	<0.534	<0.546	<0.521	<0.519
bis(2-chloroisopropyl)Ether	mg/kg	<0.472	<0.377	<0.533	<0.486	<0.518	<0.482	<0.444	<0.435	<0.429	<0.479	<0.439	<0.546	<0.563	<0.503	<0.447	<0.451	<0.423	<0.513	<0.515	<0.512	<0.534	<0.546	<0.521	<0.519
bis(2-Ethylhexyl)phthalate	mg/kg	<0.942	<3.80	<1.06	<0.970	<1.03	<0.961	<0.885	<0.867	1.73	<0.954	<0.875	<1.09	<1.12	<1.00	<0.890	<0.900	<0.844	<1.02	<1.03	<1.02	<1.06	<1.09	<1.04	<1.03
Butylbenzylphthalate	mg/kg	<0.942	<3.80	<1.06	<0.970	<1.03	<0.961	<0.885	<0.867	<0.856	<0.954	<0.875	<1.09	<1.12	<1.00	<0.890	<0.900	<0.844	<1.02	<1.03	<1.02	<1.06	<1.09	<1.04	<1.03
Chrysene	mg/kg	12.4	<1.91	<0.533	<0.486	<0.518	<0.482	<0.444	0.504	0.987	<0.479	<0.439	<0.546	<0.563	<0.503	<0.447	<0.451	0.526	<0.513	<0.515	<0.512	<0.534	<0.546	<0.521	<0.519
Dibenzo(a,h)Anthracene	mg/kg	<0.472	<1.91	<0.533	<0.486	<0.518	<0.482	<0.444	<0.435	<0.429	<0.479	<0.439	<0.546	<0.563	<0.503	<0.447	<0.451	<0.423	<0.513	<0.515	<0.512	<0.534	<0.546	<0.521	<0.519
Dibenzofuran	mg/kg	4.14	<3.80	<1.06	<0.970	<1.03	<0.961	<0.885	<0.867	<0.856	<0.954	<0.875	<1.09	<1.12	<1.00	<0.890	<0.900	<0.844	<1.02	<1.03	<1.02	<1.06	<1.09	<1.04	<1.03
Diethylphthalate	mg/kg	<0.942	<3.80	<1.06	<0.970	<1.03	<0.961	<0.885	<0.867	<0.856	<0.954	<0.875	<1.09	<1.12	<1.00	<0.890	<0.900	<0.844	<1.02	<1.03	<1.02	<1.06	<1.09	<1.04	<1.03
Dimethylphthalate	mg/kg	<0.942	<3.80	<1.06	<0.970	<1.03	<0.961	<0.885	<0.867	<0.856	<0.954	<0.875	<1.09	<1.12	<1.00	<0.890	<0.900	<0.844	<1.02	<1.03	<1.02	<1.06	<1.09	<1.04	<1.03
Di-n-butylphthalate	mg/kg	<0.942	<3.80	<1.06	<0.970	<1.03	<0.961	<0.885	<0.867	<0.856	<0.954	<0.875	<1.09	<1.12	<1.00	<0.890	<0.900	<0.844	<1.02	<1.03	<1.02	<1.06	<1.09	<1.04	<1.03
Di-n-octylphthalate	mg/kg	<0.942	<3.80	<1.06	<0.970	<1.03	<0.961	<0.885	<0.867	<0.856	<0.954	<0.875	<1.09	<1.12	<1.00	<0.890	<0.900	<0.844	<1.02	<1.03	<1.02	<1.06	<1.09	<1.04	<1.03
Fluoranthene	mg/kg	39.6	<3.80	<1.06	<0.970	<1.03	<0.961	<0.885	0.985	1.8	<0.954	<0.875	<1.09	<1.12	<1.00	<0.890	<0.900	1.1	<1.02	<1.03	<1.02	<1.06	<1.09	<1.04	<1.03
Fluorene	mg/kg	4.38	<3.80	<1.06	<0.970	<1.03	<0.961	<0.885	<0.867	<0.856	<0.954	<0.875	<1.09	<1.12	<1.00	<0.890	<0.900	<0.844	<1.02	<1.03	<1.02	<1.06	<1.09	<1.04	<1.03
Hexachlorobenzene	mg/kg	<0.472	<0.953	<0.533	<0.486	<0.518	<0.482	<0.444	<0.435	<0.429	<0.479	<0.439	<0.546	<0.563	<0.503	<0.447	<0.451	<0.423	<0.513	<0.515	<0.512	<0.534	<0.546	<0.521	<0.519
Hexachlorobutadiene	mg/kg	<0.942	<3.80	<1.06	<0.970	<1.03	<0.961	<0.885	<0.867	<0.856	<0.954	<0.875	<1.09	<1.12	<1.00	<0.890	<0.900	<0.844	<1.02	<1.03	<1.02	<1.06	<1.09	<1.04	<1.03
Hexachloroethane	mg/kg	<0.942	<1.91	<1.06	<0.970	<1.03	<0.961	<0.885	<0.867	<0.856	<0.954	<0.875	<1.09	<1.12	<1.00	<0.890	<0.900	<0.844	<1.02	<1.03	<1.02	<1.06	<1.09	<1.04	<1.03
Indeno(1,2,3-cd)Pyrene	mg/kg	3.04	<3.80	<1.06	<0.970	<1.03	<0.961	<0.885	<0.867	<0.856	<0.954	<0.875	<1.09	<1.12	<1.00	<0.890	<0.900	<0.844	<1.02	<1.03	<1.02	<1.06	<1.09	<1.04	<1.03
Isophorone	mg/kg	<0.942	<3.80	<1.06	<0.970	<1.03	<0.961	<0.885	<0.867	<0.856	<0.954	<0.875	<1.09	<1.12	<1.00	<0.890	<0.900	<0.844	<1.02	<1.03	<1.02	<1.06	<1.09	<1.04	<1.03
Naphthalene	mg/kg	2.08	<3.80	<1.06	<0.970	<1.03	<0.961	<0.885	<0.867	<0.856	<0.954	<0.875	<1.09	<1.12	<1.00	<0.890	<0.900	<0.844	<1.02	<1.03	<1.02	<1.06	<1.09	<1.04	<1.03
Nitrobenzene	mg/kg	<0.942	<3.80	<1.06	<0.970	<1.03	<0.961	<0.885	<0.867	<0.856	<0.954	<0.875	<1.09	<1.12	<1.00	<0.890	<0.900	<0.844	<1.02	<1.03	<1.02	<1.06	<1.09	<1.04	<1.03
N-Nitrosodimethylamine	mg/kg	<0.942	<3.80	<1.06	<0.970	<1.03	<0.961	<0.885	<0.867	<0.856	<0.954	<0.875	<1.09	<1.12	<1.00	<0.890	<0.900	<0.844	<1.02	<1.03	<1.02	<1.06	<1.09	<1.04	<1.03
Pentachlorophenol	mg/kg	<4.72	<3.80	<5.33	<4.86	<5.18	<4.82	<4.44	<4.35	<4.29	<4.79	<4.39	<5.46	<5.63	<5.03	<4.47	<4.51	<4.23	<5.13	<5.15	<5.12	<5.34	<5.46	<5.21	<5.19
Phenanthrene	mg/kg	37.7	<3.80	<1.06	<0.970	<1.03	<0.961	<0.885	<0.867	0.911	<0.954	<0.875	<1.09	<1.12	<1.00	<0.890	<0.900	<0.844	<1.02	<1.03	<1.02	<1.06	<1.09	<1.04	<1.03
Phenol	mg/kg	<0.942	<3.80	<1.06	<0.970	<1.03	<0.961	<0.885	<0.867	<0.856	<0.954	<0.875	<1.09	<1.12	<1.00	<0.890	<0.900	<0.844	<1.02	<1.03	<1.02	<1.06	<1.09	<1.04	<1.03
Pyrene	mg/kg	26.6	<3.80	<1.06	<0.970	<1.03	<0.961	<0.885	<0.867	1.06	<0.954	<0.875	<1.09	<1.12	<1.00	<0.890	<0.900	<0.844	<1.02	<1.03	<1.02	<1.06	<1.09	<1.04	<1.03
Total SVOCs	mg/kg	196.32	ND	ND	ND	ND	ND	ND	1.997	10.438	ND	ND	ND	ND	ND	ND	ND	2.187	ND	ND	ND	ND	ND	ND	ND
Classic Chemistry																									
Corrosivity (pH)	S.U.	8.49	7.4	6.79	7.13	7.12	7.31	8.1	7.82	8.76	8.73	6.73	6.63	6.56	6.58	6.38	5.77	8.43	9.92	7.33	5.02	6.58	6.74	4.54	5.3
Conductivity	umhos/cm	527	1280	4550	3090	2650	1510	1310	158	284	262	457	1390	900	1030	974	1400	333	801	1060	815	1010	771	1310	457
Flashpoint	°F	>200	--	--	--	--	--	--	>200	>200	>200	--	--	--	--	--	--	>200	>200	>200	--	--	--	--	--
Reactive Cyanide	mg/kg	<2.0	--	--	--	--	--	--	<2.0	<2.0	<2.0	--	--	--	--	--	--	<2.0	<2.0	<2.0	--	--	--	--	--
Reactive Sulfide	mg/kg	<2.0	--	--	--	--	--	--	<2.0	<2.0	<2.0	--	--	--	--	--	--	<2.0	<2.0	<2.0	--	--	--	--	--

Table 1
Soil Precharacterization Data

Wynn Resort Casino
Everett, Massachusetts

Analyte	Precharacterization Cell	E09	E10	E10	E10	E10	E10	E10	E10	E11	E11	E11	E11	E11	E11	E11	E11	E11	E12	E12	E12	E12	E12	E12	E12	E12
	Sample ID	E09S10S11	E10S01	GZ013S01S02	GZ013S03S05	GZ013S07S08A	GZ013S09S10	GZ013S11S12	GZ013S13S14	E11S01S02A	E11S02BS04A	E11S04BS05	E11S06	E11S07	E11S08	E11S09	E11S10	E11S11S12	E12S01S02A	E12S02BS04A	E12S04BS05	E12S06S07A	E12S07BS08	E12S09	E12S10
	Laboratory Work Order	1502229	1503115	1411486	1411486	1411486	1411488	1411488	1411488	1501271	1501271	1501271	1501271	1501271	1501271	1501271	1501271	1501271	1502258	1502258	1502290	1502290	1502290	1502290	1502290	1502290
	Soil Distinction	Natural	Fill	Fill	Fill	Fill	Natural	Natural	Natural	Fill	Fill	Fill	Fill	Natural	Natural	Natural	Natural	Natural	Fill	Fill	Fill	Fill	Natural	Natural	Natural	Natural
	Soil Type	Sand/Gravel					Clay	Sand/Gravel	Sand/Gravel					Sand/Gravel	Sand/Gravel	Sand/Gravel	Sand/Gravel	Sand/Gravel					Clay	Sand/Gravel	Sand/Gravel	Sand/Gravel
	Depth Interval (ft.)	34 - 38	4 - 6	0 - 4	4 - 11	13 - 15.3	19 - 26	29 - 36	39 - 46	0 - 3.33	3.33 - 6.66	6.66 - 10	11 - 13	13 - 15	19 - 21	24 - 26	29 - 31	34 - 38	0 - 3.3	3.3 - 6.6	6.6 - 10	10 - 13	13 - 16	19 - 21	24 - 26
	Sampling Date	2/17/2015	3/6/2015	11/20/2014	11/20/2014	11/20/2014	11/21/2014	11/21/2014	11/21/2014	1/14/2015	1/14/2015	1/14/2015	1/14/2015	1/14/2015	1/14/2015	1/14/2015	1/14/2015	1/14/2015	2/18/2015	2/18/2015	2/19/2015	2/19/2015	2/19/2015	2/19/2015	2/19/2015	2/19/2015
Preliminary Disposal Facility Category		Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	Uncontaminated	Uncontaminated	Uncontaminated	MCP Regulated Type A	Hazardous Material Type A	TSCA Material	TSCA Material	TSCA Material	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type B	Hazardous Material Type B	MCP Regulated Material Type B-2	MCP Restricted	Uncontaminated	Uncontaminated
RCRA 8 Metals	**Units**																								
Arsenic	mg/kg	190	12	8.1	14.4	9.63	5.59	11.3	7.47	<6.84	9.27	36.8	13.1	25.8	49.3	63.1	38.1	32.6	6.94	18.9	53.4	<6.87	8.36	<7.93	8.89
Barium	mg/kg	34.4	71	21.2	61	69.5	29.1	24.4	13.3	36.8	42.5	177	149	52.4	11.7	13.3	10.6	12.2	27.7	60	95.5	96.7	84	14	13
Cadmium	mg/kg	2.96	<1.38	<0.51	4.5	0.96	<0.54	<0.50	<0.52	<1.37	<1.47	2.48	<1.69	<1.63	<1.48	<1.54	<1.57	<1.42	<1.35	<1.32	<1.44	1.4	<1.61	<1.59	<1.49
Chromium	mg/kg	26.5	21	24.6	51.9	31.7	22.2	21.9	16.4	19.3	23.5	21.7	15.5	32.1	8.32	6.53	15	16.7	29.8	12.2	18.3	60	43	8.87	12.9
Lead	mg/kg	<16.9	564	16.6	596	69.5	12.1	11.7	7.3	23.2	115	1150	1120	<16.3	104	101	<15.7	<14.2	19.1	3820	3570	1820	<16.1	<15.9	<14.9
Selenium	mg/kg	<8.44	<6.91	<15.2	<10.1	<17.5	<16.1	<15.1	<15.7	<6.84	<7.37	<8.86	<13.5	<13.0	<11.8	<12.3	<12.6	<11.3	<6.74	<6.59	<7.20	<6.87	<8.05	<7.93	<7.47
Silver	mg/kg	<1.69	<1.38	<0.51	3.71	<0.58	<0.54	<0.50	<0.52	<1.37	<1.47	3.14	2.19	<1.63	<1.48	<1.54	<1.57	<1.42	<1.35	<1.32	<1.44	<1.37	<1.61	<1.59	<1.49
Mercury	mg/kg	<0.040	4.04	<0.033	15.5	0.038	<0.034	<0.034	<0.037	<0.031	0.144	4.39	3.3	<0.038	<0.034	<0.038	<0.035	<0.035	<0.023	2.54	1.64	1.45	<0.036	<0.035	<0.036
Metals by Toxicity Characteristic Leaching Procedure (TCLP)																									
Arsenic	mg/L	<0.050	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead	mg/L	--	<0.500	--	1.06	--	--	--	--	--	0.208	1.05	3.83	--	<0.050	<0.050	--	--	--	48.9	21.8	48.5	--	--	--
Selenium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	mg/L	--	<0.00050	--	<0.00050	--	--	--	--	--	--	<0.00050	--	--	--	--	--	--	--	--	--	--	--	--	--
Herbicides																									
2,4,5-T	mg/kg	--	<0.092	<0.059	<0.057	<0.052	<0.066	<0.057	<0.057	<0.051	<0.058	<0.31	<0.29	--	--	<0.057	--	--	<0.052	<0.27	<0.65	<0.25	--	--	--
2,4-D	mg/kg	--	<0.46	<0.059	<0.057	<0.052	<0.066	<0.057	<0.057	<0.051	<0.058	<0.31	<0.29	--	--	<0.057	--	--	<0.052	<0.27	<0.65	<0.25	--	--	--
2,4-DB	mg/kg	--	<0.035	<0.059	<0.057	<0.052	<0.066	<0.057	<0.057	<0.051	<0.058	<0.31	<0.29	--	--	<0.057	--	--	<0.052	<0.27	<0.65	<0.25	--	--	--
Dalapon	mg/kg	--	<2.8	<0.71	<0.69	<0.63	<0.79	<0.68	<0.68	<0.61	<0.70	<3.8	<3.5	--	--	<0.69	--	--	<0.62	<3.2	<7.8	<3.0	--	--	--
Dicamba	mg/kg	--	<0.14	<0.059	<0.057	<0.052	<0.066	<0.057	<0.057	<0.051	<0.058	<0.31	<0.29	--	--	<0.057	--	--	<0.052	<0.27	<0.65	<0.25	--	--	--
Dichlorprop	mg/kg	--	<0.30	<0.059	<0.057	<0.052	<0.066	<0.057	<0.057	<0.051	<0.058	<0.31	<0.29	--	--	<0.057	--	--	<0.052	<0.27	<0.65	<0.25	--	--	--
Dinoseb	mg/kg	--	<0.46	<0.36	<0.35	<0.32	<0.39	<0.34	<0.34	<0.31	<0.35	<1.9	<1.7	--	--	<0.34	--	--	<0.31	<1.6	<3.9	<1.5	--	--	--
MCPA	mg/kg	--	<120	<14	<14	<13	<16	<14	<14	<12	<14	<75	<70	--	--	<14	--	--	<12	<64	<160	<61	--	--	--
MCPP	mg/kg	--	<120	<14	<14	<13	<16	<14	<14	<12	<14	<75	<70	--	--	<14	--	--	<12	<64	<160	<61	--	--	--
Silvex (2,4,5-TP)	mg/kg	--	<0.092	<0.059	<0.057	<0.052	<0.066	<0.057	<0.057	<0.051	<0.058	<0.31	<0.29	--	--	<0.057	--	--	<0.052	<0.27	<0.65	<0.25	--	--	--
Pesticides																									
4,4'-DDD	mg/kg	--	<0.0039	<0.0041	<0.0041	<0.0018	<0.0022	<0.0020	<0.0020	<0.0093	<0.0020	<0.033	<0.021	--	--	<0.0020	--	--	<0.0018	<0.018	<0.0046	<0.0018	--	--	--
4,4'-DDE	mg/kg	--	<0.0039	<0.0041	<0.0041	<0.0018	<0.0022	<0.0020	<0.0020	<0.0093	<0.0020	<0.033	<0.021	--	--	<0.0020	--	--	<0.0018	<0.018	<0.0046	<0.0018	--	--	--
4,4'-DDT	mg/kg	--	<0.0039	<0.0041	<0.0041	<0.0018	<0.0022	<0.0020	<0.0020	<0.0093	<0.0020	<0.033	<0.021	--	--	<0.0020	--	--	<0.0018	<0.018	<0.0046	<0.0018	--	--	--
Aldrin	mg/kg	--	<0.0039	<0.0041	<0.0041	<0.0018	<0.0022	<0.0020	<0.0020	<0.0093	<0.0020	<0.033	<0.021	--	--	<0.0020	--	--	<0.0018	<0.018	<0.0046	<0.0018	--	--	--
alpha-BHC	mg/kg	--	<0.0039	<0.0041	<0.0041	<0.0018	<0.0022	<0.0020	<0.0020	<0.0093	<0.0020	<0.033	<0.021	--	--	<0.0020	--	--	<0.0018	<0.018	<0.0046	<0.0018	--	--	--
beta-BHC	mg/kg	--	<0.0039	<0.0041	<0.0041	<0.0018	<0.0022	<0.0020	<0.0020	<0.0093	<0.0020	<0.033	<0.021	--	--	<0.0020	--	--	<0.0018	<0.018	<0.0046	<0.0018	--	--	--
Chlordane (technical)	mg/kg	--	<0.039	<0.041	<0.041	<0.018	<0.022	<0.020	<0.020	<0.093	<0.020	<0.33	<0.21	--	--	<0.020	--	--	<0.018	<0.18	<0.046	<0.018	--	--	--
delta-BHC	mg/kg	--	<0.0039	<0.0041	<0.0041	<0.0018	<0.0022	<0.0020	<0.0020	<0.0093	<0.0020	<0.033	<0.021	--	--	<0.0020	--	--	<0.0018	<0.018	<0.0046	<0.0018	--	--	--
Dieldrin	mg/kg	--	<0.0039	<0.0041	<0.0041	<0.0018	<0.0022	<0.0020	<0.0020	<0.0093	<0.0020	<0.033	<0.021	--	--	<0.0020	--	--	<0.0018	<0.018	<0.0046	<0.0018	--	--	--
Endosulfan I	mg/kg	--	<0.0039	<0.0041	<0.0041	<0.0018	<0.0022	<0.0020	<0.0020	<0.0093	<0.0020	<0.033	<0.021	--	--	<0.0020	--	--	<0.0018	<0.018	<0.0046	<0.0018	--	--	--
Endosulfan II	mg/kg	--	<0.0039	<0.0041	<0.0041	<0.0018	<0.0022	<0.0020	<0.0020	<0.0093	<0.0020	<0.033	<0.021	--	--	<0.0020	--	--	<0.0018	<0.018	<0.0046	<0.0018	--	--	--
Endosulfan sulfate	mg/kg	--	<0.0039	<0.0041	<0.0041	<0.0018	<0.0022	<0.0020	<0.0020	<0.0093	<0.0020	<0.033	<0.021	--	--	<0.0020	--	--	<0.0018	<0.018	<0.0046	<0.0018	--	--	--
Endrin	mg/kg	--	<0.0039	<0.0041	<0.0041	<0.0018	<0.0022	<0.0020	<0.0020	<0.0093	<0.0020	<0.033	<0.021	--	--	<0.0020	--	--	<0.0018	<0.018	<0.0046	<0.0018	--	--	--
Endrin ketone	mg/kg	--	<0.0039	<0.0041	<0.0041	<0.0018	<0.0022	<0.0020	<0.0020	<0.0093	<0.0020	<0.033	<0.021	--	--	<0.0020	--	--	<0.0018	<0.018	<0.0046	<0.0018	--	--	--
gamma-BHC (Lindane)	mg/kg	--	<0.0039	<0.0041	<0.0041	<0.0018	<0.0022	<0.0020	<0.0020	<0.0093	<0.0020	<0.033	<0.021	--	--	<0.0020	--	--	<0.0018	<0.018	<0.0046	<0.0018	--	--	--
Heptachlor	mg/kg	--	<0.0039	<0.0041	<0.0041	<0.0018	<0.0022	<0.0020	<0.0020	<0.0093	<0.0020	<0.033	<0.021	--	--	<0.0020	--	--	<0.0018	<0.018	<0.0046	<0.0018	--	--	--
Heptachlor epoxide	mg/kg	--	<0.0039	<0.0041	<0.0041	<0.0018	<0.0022	<0.0020	<0.0020	<0.0093	<0.0020	<0.033	<0.021	--	--	<0.0020	--	--	<0.0018	<0.018	<0.0046	<0.0018	--	--	--
Hexachlorobenzene	mg/kg	--	<0.0039	<0.0041	<0.0041	<0.0018	<0.0022	<0.0020	<0.0020	<0.0093	<0.0020	<0.033	<0.021	--	--	<0.0020	--	--	<0.0018	<0.018	<0.0046	<0.0018	--	--	--
Methoxychlor	mg/kg	--	<0.0039	<0.0041	<0.0041	<0.0018	<0.0022	<0.0020	<0.0020	<0.0093	<0.0020	<0.033	<0.021	--	--	<0.0020	--	--	<0.0018	<0.018	<0.0046	<0.0018	--	--	--
Polychlorinated Biphenyls																									
Aroclor 1016	mg/kg	<0.157	<0.135	<0.202	<0.209	<0.229	<0.233	<0.217	<0.222	<0.137	<0.141	<43.3	<165	<7.71	<0.147	<0.145	<0.135	<0.134	<0.132	<0.133	<0.145	<0.141	<0.162	<0.148	<0.131
Aroclor 1221	mg/kg	<0.157	<0.135	<0.202	<0.209	<0.229	<0.233	<0.217	<0.222	<0.137	<0.141	<43.3	<165	<7.71	<0.147	<0.145	<0.135	<0.134	<0.132	<0.133	<0.145	<0.141	<0.162	<0.148	<0.131
Aroclor 1232	mg/kg	<0.157	<0.135	<0.202	<0.209	<0.229	<0.233	<0.217	<0.222	<0.137	<0.141	<43.3	<165	<7.71	<0.147	<0.145	<0.135	<0.134	<0.132	<0.133	<0.145	<0.141	<0.162	<0.148	<0.131
Aroclor 1242	mg/kg	<0.157	<0.135	<0.202	<0.209	<0.229	<0.233	<0.217	<0.222	<0.137	<0.141	<43.3	<165	<7.71	<0.147	<0.145	<0.135	<0.134	<0.132	<0.133	<0.145	<0.141	<0.162	<0.148	<0.131
Aroclor 1248	mg/kg	<0.157	<0.135	<0.202	<0.209	<0.229	<0.233	<0.217	<0.222	0.141	<0.141	<43.3	<165	<7.71	<0.147	<0.145	<0.135	<0.134	<0.132	<0.133	<0.145	<0.141	<0.162	<0.148	<0.131
Aroclor 1254	mg/kg	<0.157	1.25	<0.202	<0.209	<0.229	<0.233	<0.217	<0.222	<0.137	<0.141	<43.3	<165	<7.71	<0.147	<0.145	<0.135	<0.134	<0.132	<0.133	1.5	<0.141	<0.162	<0.148	<0.131
Aroclor 1260	mg/kg	<0.157	0.397	<0.202	<0.209	<0.229	<0.233	<0.217	<0.222	<0.137	3.24	822	2890	73	0.869	0.954	0.36	0.184	<0.132	<0.133	<0.145	<0.141	<0.162	<0.148	<0.131
Aroclor 1262	mg/kg	<0.157	<0.135	<0.202	<0.209	<0.229	<0.233	<0.217	<0.222	<0.137	<0.141	<43.3	<165	<7.71	<0.147	<0.145	<0.135	<0.134	<0.132	1.33	0.957	<0.141	<0.162	<0.148	<0.131
Aroclor 1268	mg/kg	<0.157	<0.135	<0.202	2.92	<0.229	<0.233	<0.217	<0.222	<0.137	<0.141	<43.3	<165	<7.71	<0.147	<0.145	<0.135	<0.134	<0.132	<0.133	<0.145	<0.141	<0.162	<0.148	<0.131
Total PCBs	mg/kg	ND	1.647	ND	2.92	ND	ND	ND	ND	0.141	3.24	822	2890	73	0.869	0.954	0.36	0.184	ND	1.33	2.457	ND	ND	ND	ND
Total Petroleum Hydrocarbons	mg/kg	<49.4	264	50.8	1730	61.7	<46.5	<45.6	<43.9	63.6	131	8780	13700	210	<47.5	<41.9	<48.3	<46.1	<42.3	577	1800	1890	<51.3	<46.0	<40.8
Volatile Organic Compounds (VOCs)																									
1,1,1,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.147	<0.160	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	0.13	<0.0802	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.0736	<0.0802	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.0736	<0.0802	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	0.177	0.109	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.0736	<0.0802	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.0736	<0.0802	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	1.99	32.9	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.0736	<0.0802	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	2.33	258	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.0736	0.154	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-Chloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.294	<0.321	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.0736	<0.0802	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	0.149	3.58	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.0736	<0.0802	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.0736	<0.0802	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.0736	<0.0802	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	0.207	4.93	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.0736	<0.0802	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	0.196	5.53	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane - Screen	mg/kg	--	--	--	--	--	--	--	--	--	--	<7.36	<8.02	--	--	--	--	--	--	--	--	--	--	--	--
2,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.147	<0.160	--	--	--	--	--	--	--	--	--	--	--	--
2-Butanone	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.294	<0.321	--	--	--	--	--	--	--	--	--	--	--	--
2-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.0736	<0.0802	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.294	<0.321	--	--	--	--	--	--	--	--	--	--	--	--
4-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.0736	<0.0802	--	--	--	--	--	--	--	--	--	--	--	--
4-Isopropyltoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.0736	0.0914	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-Pentanone	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.294	<0.321	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	mg/kg	--	--	--	--	--	--	--	--	--	--	1.31	0.805	--	--	--	--	--	--	--	--	--	--	--	--
Benzene	mg/kg	--	--	--	--	--	--	--	--	--	--	0.215	<0.0802	--	--	--	--	--	--	--	--	--	--	--	--
Bromobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.0736	<0.0802	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.0736	<0.0802	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.0736	<0.0802	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.0736	<0.0802	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.147	<0.160	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Disulfide	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.0736	<0.0802	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.0736	<0.0802	--	--	--	--	--	--	--	--	--	--	--	--

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	E09 E09S10S11 1502229 Natural Sand/Gravel 34 - 38 2/17/2015	E10 E10S01 1503115 Fill 4 - 6 3/6/2015	E10 GZ013S01S02 1411486 Fill 0 - 4 11/20/2014	E10 GZ013S03S05 1411486 Fill 4 - 11 11/20/2014	E10 GZ013S07S08A 1411486 Fill 13 - 15.3 11/20/2014	E10 GZ013S09S10 1411488 Natural Clay 19 - 26 11/21/2014	E10 GZ013S11S12 1411488 Natural Sand/Gravel 29 - 36 11/21/2014	E10 GZ013S13S14 1411488 Natural Sand/Gravel 39 - 46 11/21/2014	E11 E11S01S02A 1501271 Fill 0 - 3.33 1/14/2015	E11 E11S02BS04A 1501271 Fill 3.33 - 6.66 1/14/2015	E11 E11S04BS05 1501271 Fill 6.66 - 10 1/14/2015	E11 E11S06 1501271 Fill 11 - 13 1/14/2015	E11 E11S07 1501271 Natural Sand/Gravel 13 - 15 1/14/2015	E11 E11S08 1501271 Natural Sand/Gravel 19 - 21 1/14/2015	E11 E11S09 1501271 Natural Sand/Gravel 24 - 26 1/14/2015	E11 E11S10 1501271 Natural Sand/Gravel 29 - 31 1/14/2015	E11 E11S11S12 1501271 Natural Sand/Gravel 34 - 38 1/14/2015	E12 E12S01S02A 1502258 Fill 0 - 3.3 2/18/2015	E12 E12S02BS04A 1502258 Fill 3.3 - 6.6 2/18/2015	E12 E12S04BS05 1502290 Fill 6.6 - 10 2/19/2015	E12 E12S06S07A 1502290 Fill 10 - 13 2/19/2015	E12 E12S07BS08 1502290 Natural Clay 13 - 16 2/19/2015	E12 E12S09 1502290 Natural Sand/Gravel 19 - 21 2/19/2015	E12 E12S10 1502290 Natural Sand/Gravel 24 - 26 2/19/2015
Preliminary Disposal Facility Category		Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	Uncontaminated	Uncontaminated	Uncontaminated	MCP Regulated Type A	Hazardous Material Type A	TSCA Material	TSCA Material	TSCA Material	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type B	Hazardous Material Type B	MCP Regulated Material Type B-2	MCP Restricted	Uncontaminated	Uncontaminated
Chlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.0736	<0.0802	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.147	<0.160	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.0736	<0.0802	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.147	<0.160	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.0736	<0.0802	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.0736	<0.0802	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.0736	<0.0802	--	--	--	--	--	--	--	--	--	--	--	--
Dibromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.0736	<0.0802	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.0736	<0.0802	--	--	--	--	--	--	--	--	--	--	--	--
Diethyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.0736	<0.0802	--	--	--	--	--	--	--	--	--	--	--	--
Di-isopropyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.0736	<0.0802	--	--	--	--	--	--	--	--	--	--	--	--
Ethyl tertiary-butyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.0736	<0.0802	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	0.162	0.0914	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.0736	<0.0802	--	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.0736	<0.0802	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.0736	<0.0802	--	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.294	<0.321	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.0736	0.216	--	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.0736	<0.0802	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.0736	<0.0802	--	--	--	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.0736	<0.0802	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	mg/kg	--	--	--	--	--	--	--	--	--	--	0.131	<0.0802	--	--	--	--	--	--	--	--	--	--	--	--
tert-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.0736	<0.0802	--	--	--	--	--	--	--	--	--	--	--	--
Tertiary-amyl methyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.0736	<0.0802	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.0736	<0.0802	--	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.294	<0.321	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.0736	<0.0802	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.0736	<0.0802	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.0736	<0.0802	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.0736	<0.0802	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.0736	<0.0802	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.0736	<0.0802	--	--	--	--	--	--	--	--	--	--	--	--
Xylene O	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.0736	<0.0802	--	--	--	--	--	--	--	--	--	--	--	--
Xylene P,M	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.147	<0.160	--	--	--	--	--	--	--	--	--	--	--	--
Xylenes (Total)	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.147	<0.160	--	--	--	--	--	--	--	--	--	--	--	--
Total VOCs	mg/kg	--	--	--	--	--	--	--	--	--	--	6.997	306.4068	--	--	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds - Low Level Analysis																									
1,1,1,2-Tetrachloroethane	mg/kg	<0.0027	<0.0053	<0.0033	<0.0035	<0.0054	<0.0031	<0.0046	<0.0033	<0.0043	<0.0054	<0.0062	--	<0.0032	<0.0048	<0.0042	<0.0043	<0.0042	<0.0062	<0.0059	<0.0065	<0.0049	<0.0058	<0.0043	<0.0041
1,1,1-Trichloroethane	mg/kg	<0.0027	<0.0053	<0.0033	<0.0035	<0.0054	<0.0031	<0.0046	<0.0033	<0.0043	<0.0054	<0.0062	--	<0.0032	<0.0048	<0.0042	<0.0043	<0.0042	<0.0062	<0.0059	<0.0065	<0.0049	<0.0058	<0.0043	<0.0041
1,1,2,2-Tetrachloroethane	mg/kg	<0.0011	<0.0021	<0.0013	<0.0014	<0.0022	<0.0012	<0.0018	<0.0013	<0.0017	<0.0022	<0.0025	--	<0.0013	<0.0019	<0.0017	<0.0017	<0.0017	<0.0025	<0.0024	<0.0026	<0.0020	<0.0023	<0.0017	<0.0017
1,1,2-Trichloroethane	mg/kg	<0.0027	<0.0053	<0.0033	<0.0035	<0.0054	<0.0031	<0.0046	<0.0033	<0.0043	<0.0054	<0.0062	--	<0.0032	<0.0048	<0.0042	<0.0043	<0.0042	<0.0062	<0.0059	<0.0065	<0.0049	<0.0058	<0.0043	<0.0041
1,1-Dichloroethane	mg/kg	<0.0027	<0.0053	<0.0033	<0.0035	<0.0054	<0.0031	<0.0046	<0.0033	<0.0043	<0.0054	0.0164	--	0.0054	<0.0048	<0.0042	<0.0043	<0.0042	<0.0062	<0.0059	<0.0065	<0.0049	<0.0058	<0.0043	<0.0041
1,1-Dichloroethene	mg/kg	<0.0027	<0.0053	<0.0033	<0.0035	<0.0054	<0.0031	<0.0046	<0.0033	<0.0043	<0.0054	<0.0062	--	<0.0032	<0.0048	<0.0042	<0.0043	<0.0042	<0.0062	<0.0059	<0.0065	<0.0049	<0.0058	<0.0043	<0.0041
1,1-Dichloropropene	mg/kg	<0.0027	<0.0053	<0.0033	<0.0035	<0.0054	<0.0031	<0.0046	<0.0033	<0.0043	<0.0054	<0.0062	--	<0.0032	<0.0048	<0.0042	<0.0043	<0.0042	<0.0062	<0.0059	<0.0065	<0.0049	<0.0058	<0.0043	<0.0041
1,2,3-Trichlorobenzene	mg/kg	<0.0027	<0.0053	<0.0033	<0.0035	<0.0054	<0.0031	<0.0046	<0.0033	<0.0043	<0.0054	0.0483	--	0.0069	<0.0048	0.0195	0.0231	<0.0042	<0.0062	<0.0059	<0.0065	<0.0049	<0.0058	<0.0043	<0.0041
1,2,3-Trichloropropane	mg/kg	<0.0027	<0.0053	<0.0033	<0.0035	<0.0054	<0.0031	<0.0046	<0.0033	<0.0043	<0.0054	<0.0062	--	<0.0032	<0.0048	<0.0042	<0.0043	<0.0042	<0.0062	<0.0059	<0.0065	<0.0049	<0.0058	<0.0043	<0.0041
1,2,4-Trichlorobenzene	mg/kg	<0.0027	<0.0053	<0.0033	<0.0035	<0.0054	<0.0031	<0.0046	<0.0033	<0.0043	<0.0054	0.0319	--	0.0315	0.0115	0.114	0.151	0.0053	<0.0062	<0.0059	<0.0065	<0.0049	<0.0058	<0.0043	<0.0041
1,2,4-Trimethylbenzene	mg/kg	<0.0027	<0.0053	<0.0033	<0.0035	<0.0054	<0.0031	<0.0046	<0.0033	<0.0043	<0.0054	<0.0062	--	<0.0032	<0.0048	<0.0042	<0.0043	<0.0042	<0.0062	<0.0059	<0.0065	<0.0049	<0.0058	<0.0043	<0.0041
1,2-Dibromo-3-Chloropropane	mg/kg	<0.0027	<0.0053	<0.0033	<0.0035	<0.0054	<0.0031	<0.0046	<0.0033	<0.0043	<0.0054	<0.0062	--	<0.0032	<0.0048	<0.0042	<0.0043	<0.0042	<0.0062	<0.0059	<0.0065	<0.0049	<0.0058	<0.0043	<0.0041
1,2-Dibromoethane	mg/kg	<0.0027	<0.0053	<0.0033	<0.0035	<0.0054	<0.0031	<0.0046	<0.0033	<0.0043	<0.0054	<0.0062	--	<0.0032	<0.0048	<0.0042	<0.0043	<0.0042	<0.0062	<0.0059	<0.0065	<0.0049	<0.0058	<0.0043	<0.0041
1,2-Dichlorobenzene	mg/kg	<0.0027	<0.0053	<0.0033	<0.0035	<0.0054	<0.0031	<0.0046	<0.0033	<0.0043	<0.0054	<0.0062	--	0.0066	<0.0048	<0.0042	<0.0043	<0.0042	<0.0062	<0.0059	<0.0065	<0.0049	<0.0058	<0.0043	<0.0041
1,2-Dichloroethane	mg/kg	<0.0027	<0.0053	<0.0033	<0.0035	<0.0054	<0.0031	<0.0046	<0.0033	<0.0043	<0.0054	<0.0062	--	<0.0032	<0.0048	<0.0042	<0.0043	<0.0042	<0.0062	<0.0059	<0.0065	<0.0049	<0.0058	<0.0043	<0.0041
1,2-Dichloropropane	mg/kg	<0.0027	<0.0053	<0.0033	<0.0035	<0.0054	<0.0031	<0.0046	<0.0033	<0.0043	<0.0054	<0.0062	--	<0.0032	<0.0048	<0.0042	<0.0043	<0.0042	<0.0062	<0.0059	<0.0065	<0.0049	<0.0058	<0.0043	<0.0041
1,3,5-Trimethylbenzene	mg/kg	<0.0027	<0.0053	<0.0033	<0.0035	<0.0054	<0.0031	<0.0046	<0.0033	<0.0043	<0.0054	<0.0062	--	<0.0032	<0.0048	<0.0042	<0.0043	<0.0042	<0.0062	<0.0059	<0.0065	<0.0049	<0.0058	<0.0043	<0.0041
1,3-Dichlorobenzene	mg/kg	<0.0027	<0.0053	<0.0033	<0.0035	<0.0054	<0.0031	<0.0046	<0.0033	<0.0043	<0.0054	<0.0062	--	<0.0032	<0.0048	<0.0042	0.0049	<0.0042	<0.0062	<0.0059	<0.0065	<0.0049	<0.0058	<0.0043	<0.0041
1,3-Dichloropropane	mg/kg	<0.0027	<0.0053	<0.0033	<0.0035	<0.0054	<0.0031	<0.0046	<0.0033	<0.0043	<0.0054	<0.0062	--	<0.0032	<0.0048	<0.0042	<0.0043	<0.0042	<0.0062	<0.0059	<0.0065	<0.0049	<0.0058	<0.0043	<0.0041
1,4-Dichlorobenzene	mg/kg	<0.0027	<0.0053	<0.0033	<0.0035	<0.0054	<0.0031	<0.0046	<0.0033	<0.0043	<0.0054	<0.0062	--	<0.0032	<0.0048	<0.0042	0.0061	<0.0042	<0.0062	<0.0059	<0.0065	<0.0049	<0.0058	<0.0043	<0.0041
1,4-Dioxane	mg/kg	<0.0536	<0.105	<0.0651	<0.0695	<0.108	<0.0613	<0.0921	<0.0653	<0.0855	<0.108	<0.123	--	<0.0634	<0.0963	<0.0840	<0.0864	<0.0838	<0.124	<0.118	<0.130	<0.0978	<0.116	<0.0866	<0.0826
2,2-Dichloropropane	mg/kg	<0.0027	<0.0053	<0.0033	<0.0035	<0.0054	<0.0031	<0.0046	<0.0033	<0.0043	<0.0054	<0.0062	--	<0.0032	<0.0048	<0.0042	<0.0043	<0.0042	<0.0062	<0.0059	<0.0065	<0.0049	<0.0058	<0.0043	<0.0041
2-Butanone	mg/kg	<0.0054	<0.0105	<0.0065	<0.0069	<0.0108	<0.0061	<0.0092	<0.0065	<0.0086	<0.0108	<0.0123	--	<0.0063	<0.0096	<0.0084	<0.0086	<0.0084	<0.0124	<0.0118	<0.0130	<0.0098	<0.0116	<0.0087	<0.0083
2-Chlorotoluene	mg/kg	<0.0027	<0.0053	<0.0033	<0.0035	<0.0054	<0.0031	<0.0046	<0.0033	<0.0043	<0.0054	<0.0062	--	<0.0032	<0.0048	<0.0042	<0.0043	<0.0042	<0.0062	<0.0059	<0.0065	<0.0049	<0.0058	<0.0043	<0.0041
2-Hexanone	mg/kg	<0.0054	<0.0105	<0.0065	<0.0069	<0.0108	<0.0061	<0.0092	<0.0065	<0.0086	<0.0108	<0.0123	--	<0.0063	<0.0096	<0.0084	<0.0086	<0.0084	<0.0124	<0.0118	<0.0130	<0.0098	<0.0116	<0.0087	<0.0083
4-Chlorotoluene	mg/kg	<0.0027	<0.0053	<0.0033	<0.0035	<0.0054	<0.0031	<0.0046	<0.0033	<0.0043	<0.0054	<0.0062	--	<0.0032	<0.0048	<0.0042	<0.0043	<0.0042	<0.0062	<0.0059	<0.0065	<0.0049	<0.0058	<0.0043	<0.0041
4-Isopropyltoluene	mg/kg	<0.0027	<0.0053	<0.0033	<0.0035	<0.0054	<0.0031	<0.0046	<0.0033	<0.0043	<0.0054	<0.0062	--	<0.0032	<0.0048	<0.0042	<0.0043	<0.0042	<0.0062	<0.0059	<0.0065	<0.0049	<0.0058	<0.0043	<0.0041
4-Methyl-2-Pentanone	mg/kg	<0.0054	<0.0105	<0.0065	<0.0069	<0.0108	<0.0061	<0.0092	<0.0065	<0.0086	<0.0108	<0.0123	--	<0.0063	<0.0096	<0.0084	<0.0086	<0.0084	<0.0124	<0.0118	<0.0130	<0.0098	<0.0116	<0.0087	<0.0083
Acetone	mg/kg	<0.0054	<0.0105	<0.0065	0.0197	<0.0108	<0.0061	<0.0092	<0.0065	0.0534	0.0339	0.0371	--	0.0132	<0.0096	<0.0084	<0.0086	<0.0084	0.021	<0.0118	<0.0130	<0.0098	<0.0116	<0.0087	<0.0083
Benzene	mg/kg	<0.0027	<0.0053	<0.0033	<0.0035	<0.0054	<0.0031	<0.0046	<0.0033	<0.0043	<0.0054	0.018	--	<0.0032	<0.0048	<0.0042	<0.0043	<0.0042	<0.0062	<0.0059	<0.0065	<0.0049	<0.0058	<0.0043	<0.0041
Bromobenzene	mg/kg	<0.0027	<0.0053	<0.0033	<0.0035	<0.0054	<0.0031	<0.0046	<0.0033	<0.0043	<0.0054	<0.0062	--	<0.0032	<0.0048	<0.0042	<0.0043	<0.0042	<0.0062	<0.0059	<0.0065	<0.0049	<0.0058	<0.0043	<0.0041
Bromochloromethane	mg/kg	<0.0027	<0.0053	<0.0033	<0.0035	<0.0054	<0.0031	<0.0046	<0.0033	<0.0043	<0.0054	<0.0062	--	<0.0032	<0.0048	<0.0042	<0.0043	<0.0042	<0.0062	<0.0059	<0.0065	<0.0049	<0.0058	<0.0043	<0.0041
Bromodichloromethane	mg/kg	<0.0027	<0.0053	<0.0033	<0.0035	<0.0054	<0.0031	<0.0046	<0.0033	<0.0043	<0.0054	<0.0062	--	<0.0032	<0.0048	<0.0042	<0.0043	<0.0042	<0.0062	<0.0059	<0.0065	<0.0049	<0.0058	<0.0043	<0.0041
Bromoform	mg/kg	<0.0027	<0.0053	<0.0033	<0.0035	<0.0054	<0.0031	<0.0046	<0.0033	<0.0043	<0.0054	<0.0062	--	<0.0032	<0.0048	<0.0042	<0.0043	<0.0042	<0.0062	<0.0059	<0.0065	<0.0049	<0.0058	<0.0043	<0.0041
Bromomethane	mg/kg	<0.0054	<0.0105	<0.0065	<0.0069	<0.0108	<0.0061	<0.0092	<0.0065	<0.0086	<0.0108	<0.0123	--	<0.0063	<0.0096	<0.0084	<0.0086	<0.0084	<0.0124	<0.0118	<0.0130	<0.0098	<0.0116	<0.0087	<0.0083
Carbon Disulfide	mg/kg	<0.0027	<0.0053	<0.0033	<0.0035	0.0252	<0.0031	<0.0046	<0.0033	<0.0043	<0.0054	<0.0062	--	<0.0032	<0.0048	<0.0042	<0.0043	<0.0042	<0.0062	<0.0059	<0.0065	<0.0049	<0.0058	<0.0043	<0.0041
Carbon Tetrachloride	mg/kg	<0.0027	<0.0053	<0.0033	<0.0035	<0.0054	<0.0031	<0.0046	<0.0033	<0.0043	<0.0054	<0.0062	--	<0.0032	<0.0048	<0.0042	<0.0043	<0.0042	<0.0062	<0.0059	<0.0065	<0.0049	<0.0058	<0.0043	<0.0041
Chlorobenzene	mg/kg	<0.0027	<0.0053	<0.0033	<0.0035	<0.0054	<0.0031	<0.0046	<0.0033	<0.0043	<0.0054	<0.0062	--	<0.0032	<0.0048	<0.0042	<0.0043	<0.0042	<0.0062	<0.0059	<0.0065	<0.0049	<0.0058	<0.0043	<0.0041
Chloroethane	mg/kg	<0.0054	<0.0105	<0.0065	<0.0069	<0.0108	<0.0061	<0.0092	<0.0065	<0.0086	<0.0108	<0.0123	--	<0.0063	<0.0096	<0.0084	<0.0086	<0.0084	<0.0124	<0.0118	<0.0130	<0.0098	<0.0116	<0.0087	<0.0083
Chloroform	mg/kg	<0.0027	<0.0053	<0.0033	<0.0035	<0.0054	<0.0031	<0.0046	<0.0033	<0.0043	<0.0054	<0.0062	--	<0.0032	<0.0048	<0.0042	<0.0043	<0.0042	<0.0062	<0.0059	<0.0065	<0.0049	<0.0058	<0.0043	<0.0041
Chloromethane	mg/kg	<0.0054	<0.0105	<0.0065	<0.0069	<0.0108	<0.0061	<0.0092	<0.0065	<0.0086	<0.0108	<0.0123	--	<0.0063	<0.0096	<0.0084	<0.0086	<0.0084	<0.0124	<0.0118	<0.0130	<0.0098	<0.0116	<0.0087	<0.0083
cis-1,2-Dichloroethene	mg/kg	<0.0027	<0.0053	<0.0033	<0.0035	<0.0054	<0.0031	<0.0046	<0.0033	<0.0043	<0.0054	<0.0062	--	<0.0032	<0.0048	<0.0042	<0.0043	<0.0042	<0.0062	<0.0059	<0.0065	<0.0049	<0.0058	<0.0043	<0.0041
cis-1,3-Dichloropropene	mg/kg	<0.0027	<0.0053	<0.0033	<0.0035	<0.0054	<0.0031	<0.0046	<0.0033	<0.0043	<0.0054	<0.0062	--	<0.0032	<0.0048	<0.0042	<0.0043	<0.0042	<0.0062	<0.0059	<0.0065	<0.0049	<0.0058	<0.0043	<0.0041
Dibromochloromethane	mg/kg	<0.0011	<0.0021	<0.0013	<0.0014	<0.0022	<0.0012	<0.0018	<0.0013	<0.0017	<0.0022	<0.0025	--	<0.0013	<0.0019	<0.0017	<0.0017	<0.0017	<0.0025	<0.0024	<0.0026	<0.0020	<0.0023	<0.0017	<0.0017
Dibromomethane	mg/kg	<0.0027	<0.0053	<0.0033	<0.0035	<0.0054	<0.0031	<0.0046	<0.0033	<0.0043	<0.0054	<0.0062	--	<0.0032	<0.0048	<0.0042	<0.0043	<0.0042	<0.0062	<0.0059	<0.0065	<0.0049	<0.0058	<0.0043	<0.0041
Dichlorodifluoromethane	mg/kg	<0.0054	<0.0105	<0.0065	<0.0069	<0.0108	<0.0061	<0.0092	<0.0065	<0.0086	<0.0108	<0.0123	--	<0.0063	<0.0096	<0.0084	<0.0086	<0.0084	<0.0124	<0.0118	<0.0130	<0.0098	<0.0116	<0.0087	<0.0083
Diethyl Ether	mg/kg	<0.0027	<0.0053	<0.0033	<0.0035	<0.0054	<0.0031	<0.0046	<0.0033	<0.0043	<0.0054	<0.0062	--	<0.0032	<0.0048	<0.0042	<0.0043	<0.0042	<0.0062	<0.0059	<0.0065	<0.0049	<0.0058	<0.0043	<0.0041
Di-isopropyl ether	mg/kg	<0.0027	<0.0053	<0.0033	<0.0035	<0.0054	<0.0031	<0.0046	<0.0033	<0.0043	<0.0054	<0.0062	--	<0.0032	<0.0048	<0.0042	<0.0043	<0.0042	<0.0062	<0.0059	<0.0065	<0.0049	<0.0058	<0.0043	<0.0041
Ethyl tertiary-butyl ether	mg/kg	<0.0027	<0.0053	<0.0033	<0.0035	<0.0054	<0.0031	<0.0046	<0.0033	<0.0043	<0.0054	<0.0062	--	<0.0032	<0.0048	<0.0042	<0.0043	<0.0042	<0.0062	<0.0059	<0.0065	<0.0049	<0.0058	<0.0043	<0.0041
Ethylbenzene	mg/kg	<0.0027	<0.0053	<0.0033	<0.0035	<0.0054	<0.0031	<0.0046	<0.0033	<0.0043	<0.0054	0.0063	--	<0.0032	<0.0048	<0.0042	<0.0043	<0.0042	<0.0062	<0.0059	<0.0065	<0.0049	<0.0058	<0.0043	<0.0041
Hexachlorobutadiene	mg/kg	<0.0027	<0.0053	<0.0033	<0.0035	<0.0054	<0.0031	<0.0046	<0.0033	<0.0043	<0.0054	<0.0062	--	<0.0032	<0.0048	<0.0042	<0.0043	<0.0042	<0.0062	<0.0059	<0.0065	<0.0049	<0.0058	<0.0043	<0.0041
Isopropylbenzene	mg/kg	<0.0027	<0.0053	<0.0033	<0.0035	<0.0054	<0.0031	<0.0046	<0.0033	<0.0043	<0.0054	<0.0062	--	<0.0032	<0.0048	<0.0042	<0.0043	<0.0042	<0.0062	<0.0059	<0.0065	<0.0049	<0.0058	<0.0043	<0.0041
Methyl tert-Butyl Ether	mg/kg	<0.0027	<0.0053	<0.0033	<0.0035	<0.0054	<0.0031	<0.0046	<0.0033	<0.0043	<0.0054	<0.0062	--	<0.0032	<0.0048	<0.0042	<0.0043	<0.0042	<0.0062	<0.0059	<0.0065	<0.0049	<0.0058	<0.0043	<0.0041
Methylene Chloride	mg/kg	<0.0054	<0.0105	<0.0065	<0.0069	<0.0108	<0.0061	<0.0092	<0.0065	<0.0086	<0.0108	<0.0123	--	<0.0063	<0.0096	<0.0084	<0.0086	<0.0084	<0.0124	<0.0118	<0.0130	<0.0098	<0.0116	<0.0087	<0.0083
Naphthalene	mg/kg	<0.0027	<0.0053	<0.0033	<0.0035	<0.0054	<0.0031	<0.0046	<0.0033	0.0063	<0.0054	<0.0062	--	0.006	<0.0048	<0.0042	<0.0043	<0.0042	<0.0062	<0.0059	<0.0065	<0.0049	<0.0058	<0.0043	<0.0041
n-Butylbenzene	mg/kg	<0.0027	<0.0053	<0.0033	<0.0035	<0.0054	<0.0031	<0.0046	<0.0033	<0.0043	<0.0054	<0.0062	--	<0.0032	<0.0048	<0.0042	<0.0043	<0.0042	<0.0062	<0.0059	<0.0065	<0.0049	<0.0058	<0.0043	<0.0041
n-Propylbenzene	mg/kg	<0.0027	<0.0053	<0.0033	<0.0035	<0.0054	<0.0031	<0.0046	<0.0033	<0.0043	<0.0054	<0.0062	--	<0.0032	<0.0048	<0.0042	<0.0043	<0.0042	<0.0062	<0.0059	<0.0065	<0.0049	<0.0058	<0.0043	<0.0041
sec-Butylbenzene	mg/kg	<0.0027	<0.0053	<0.0033	<0.0035	<0.0054	<0.0031	<0.0046	<0.0033	<0.0043	<0.0054	<0.0062	--	<0.0032	<0.0048	<0.0042	<0.0043	<0.0042	<0.0062	<0.0059	<0.0065	<0.0049	<0.0058	<0.0043	<0.0041

Table 1
Soil Precharacterization Data

Wynn Resort Casino
Everett, Massachusetts

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	E09 E09S10S11 1502229 Natural Sand/Gravel 34 - 38 2/17/2015	E10 E10S01 1503115 Fill 4 - 6 3/6/2015	E10 GZ013S01S02 1411486 Fill 0 - 4 11/20/2014	E10 GZ013S03S05 1411486 Fill 4 - 11 11/20/2014	E10 GZ013S07S08A 1411486 Fill 13 - 15.3 11/20/2014	E10 GZ013S09S10 1411488 Natural Clay 19 - 26 11/21/2014	E10 GZ013S11S12 1411488 Natural Sand/Gravel 29 - 36 11/21/2014	E10 GZ013S13S14 1411488 Natural Sand/Gravel 39 - 46 11/21/2014	E11 E11S01S02A 1501271 Fill 0 - 3.33 1/14/2015	E11 E11S02BS04A 1501271 Fill 3.33 - 6.66 1/14/2015	E11 E11S04BS05 1501271 Fill 6.66 - 10 1/14/2015	E11 E11S06 1501271 Fill 11 - 13 1/14/2015	E11 E11S07 1501271 Natural Sand/Gravel 13 - 15 1/14/2015	E11 E11S08 1501271 Natural Sand/Gravel 19 - 21 1/14/2015	E11 E11S09 1501271 Natural Sand/Gravel 24 - 26 1/14/2015	E11 E11S10 1501271 Natural Sand/Gravel 29 - 31 1/14/2015	E11 E11S11S12 1501271 Natural Sand/Gravel 34 - 38 1/14/2015	E12 E12S01S02A 1502258 Fill 0 - 3.3 2/18/2015	E12 E12S02BS04A 1502258 Fill 3.3 - 6.6 2/18/2015	E12 E12S04BS05 1502290 Fill 6.6 - 10 2/19/2015	E12 E12S06S07A 1502290 Fill 10 - 13 2/19/2015	E12 E12S07BS08 1502290 Natural Clay 13 - 16 2/19/2015	E12 E12S09 1502290 Natural Sand/Gravel 19 - 21 2/19/2015	E12 E12S10 1502290 Natural Sand/Gravel 24 - 26 2/19/2015
Preliminary Disposal Facility Category		Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	Uncontaminated	Uncontaminated	Uncontaminated	MCP Regulated Type A	Hazardous Material Type A	TSCA Material	TSCA Material	TSCA Material	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type B	Hazardous Material Type B	MCP Regulated Material Type B-2	MCP Restricted	Uncontaminated	Uncontaminated
Styrene	mg/kg	<0.0027	<0.0053	<0.0033	<0.0035	<0.0054	<0.0031	<0.0046	<0.0033	<0.0043	<0.0054	0.0289	--	<0.0032	<0.0048	<0.0042	<0.0043	<0.0042	<0.0062	<0.0059	<0.0065	<0.0049	<0.0058	<0.0043	<0.0041
tert-Butylbenzene	mg/kg	<0.0027	<0.0053	<0.0033	<0.0035	<0.0054	<0.0031	<0.0046	<0.0033	<0.0043	<0.0054	<0.0062	--	<0.0032	<0.0048	<0.0042	<0.0043	<0.0042	<0.0062	<0.0059	<0.0065	<0.0049	<0.0058	<0.0043	<0.0041
Tertiary-amyl methyl ether	mg/kg	<0.0027	<0.0053	<0.0033	<0.0035	<0.0054	<0.0031	<0.0046	<0.0033	<0.0043	<0.0054	<0.0062	--	<0.0032	<0.0048	<0.0042	<0.0043	<0.0042	<0.0062	<0.0059	<0.0065	<0.0049	<0.0058	<0.0043	<0.0041
Tetrachloroethene	mg/kg	<0.0027	<0.0053	<0.0033	<0.0035	<0.0054	<0.0031	<0.0046	<0.0033	<0.0043	<0.0054	<0.0062	--	<0.0032	<0.0048	<0.0042	<0.0043	<0.0042	<0.0062	<0.0059	<0.0065	<0.0049	<0.0058	<0.0043	<0.0041
Tetrahydrofuran	mg/kg	<0.0027	<0.0053	<0.0033	<0.0035	<0.0054	<0.0031	<0.0046	<0.0033	<0.0043	<0.0054	<0.0062	--	<0.0032	<0.0048	<0.0042	<0.0043	<0.0042	<0.0062	<0.0059	<0.0065	<0.0049	<0.0058	<0.0043	<0.0041
Toluene	mg/kg	<0.0027	<0.0053	<0.0033	<0.0035	<0.0054	<0.0031	<0.0046	<0.0033	<0.0043	<0.0054	<0.0062	--	<0.0032	<0.0048	<0.0042	<0.0043	<0.0042	<0.0062	<0.0059	<0.0065	<0.0049	<0.0058	<0.0043	<0.0041
trans-1,2-Dichloroethene	mg/kg	<0.0027	<0.0053	<0.0033	<0.0035	<0.0054	<0.0031	<0.0046	<0.0033	<0.0043	<0.0054	<0.0062	--	<0.0032	<0.0048	<0.0042	<0.0043	<0.0042	<0.0062	<0.0059	<0.0065	<0.0049	<0.0058	<0.0043	<0.0041
trans-1,3-Dichloropropene	mg/kg	<0.0027	<0.0053	<0.0033	<0.0035	<0.0054	<0.0031	<0.0046	<0.0033	<0.0043	<0.0054	<0.0062	--	<0.0032	<0.0048	<0.0042	<0.0043	<0.0042	<0.0062	<0.0059	<0.0065	<0.0049	<0.0058	<0.0043	<0.0041
Trichloroethene	mg/kg	<0.0027	<0.0053	<0.0033	<0.0035	<0.0054	<0.0031	<0.0046	<0.0033	<0.0043	<0.0054	<0.0062	--	<0.0032	<0.0048	<0.0042	<0.0043	<0.0042	<0.0062	<0.0059	<0.0065	<0.0049	<0.0058	<0.0043	<0.0041
Trichlorofluoromethane	mg/kg	<0.0027	<0.0053	<0.0033	<0.0035	<0.0054	<0.0031	<0.0046	<0.0033	<0.0043	<0.0054	<0.0062	--	<0.0032	<0.0048	<0.0042	<0.0043	<0.0042	<0.0062	<0.0059	<0.0065	<0.0049	<0.0058	<0.0043	<0.0041
Vinyl Chloride	mg/kg	<0.0054	<0.0105	<0.0065	<0.0069	<0.0108	<0.0061	<0.0092	<0.0065	<0.0086	<0.0108	<0.0123	--	<0.0063	<0.0096	<0.0084	<0.0086	<0.0084	<0.0124	<0.0118	<0.0130	<0.0098	<0.0116	<0.0087	<0.0083
Xylene O	mg/kg	<0.0027	<0.0053	<0.0033	<0.0035	<0.0054	<0.0031	<0.0046	<0.0033	<0.0043	<0.0054	<0.0062	--	<0.0032	<0.0048	<0.0042	<0.0043	<0.0042	<0.0062	<0.0059	<0.0065	<0.0049	<0.0058	<0.0043	<0.0041
Xylene P,M	mg/kg	<0.0054	<0.0105	<0.0065	<0.0069	<0.0108	<0.0061	<0.0092	<0.0065	<0.0086	<0.0108	<0.0123	--	<0.0063	<0.0096	<0.0084	<0.0086	<0.0084	<0.0124	<0.0118	<0.0130	<0.0098	<0.0116	<0.0087	<0.0083
Xylenes (Total)	mg/kg	<0.0054	<0.0105	<0.0065	<0.0069	<0.0108	<0.0061	<0.0092	<0.0065	<0.0086	<0.0108	<0.0123	--	<0.0063	<0.0096	<0.0084	<0.0086	<0.0084	<0.0124	<0.0118	<0.0130	<0.0098	<0.0116	<0.0087	<0.0083
Total VOCs (Low Level)	mg/kg	ND	ND	ND	0.0197	0.0252	ND	ND	ND	0.0597	0.0339	0.1869	--	0.0696	0.0115	0.1335	0.1851	0.0053	0.021	ND	ND	ND	ND	ND	ND
Semi-Volatile Organic Compounds																									
1,2,4-Trichlorobenzene	mg/kg	<1.03	<0.884	<0.855	<0.885	<0.986	<0.920	<0.993	<0.898	<0.887	<0.898	135	205	12.3	<0.953	<0.934	<0.902	<0.908	<0.896	<0.886	<3.67	<3.31	<1.04	<0.958	<0.909
1,2-Dichlorobenzene	mg/kg	<1.03	<0.884	<0.855	<0.885	<0.986	<0.920	<0.993	<0.898	<0.887	<0.898	1.51	3.32	<0.942	<0.953	<0.934	<0.902	<0.908	<0.896	<0.886	<3.67	<3.31	<1.04	<0.958	<0.909
1,3-Dichlorobenzene	mg/kg	<1.03	<0.884	<0.855	<0.885	<0.986	<0.920	<0.993	<0.898	<0.887	<0.898	<1.15	1.63	<0.942	<0.953	<0.934	<0.902	<0.908	<0.896	<0.886	<3.67	<3.31	<1.04	<0.958	<0.909
1,4-Dichlorobenzene	mg/kg	<0.515	<0.443	<0.429	<0.444	<0.494	<0.461	<0.498	<0.451	<0.445	<0.450	2.25	5.72	<0.473	<0.478	<0.468	<0.452	<0.455	<0.449	<0.444	<1.84	<1.66	<0.523	<0.481	<0.456
2,4,5-Trichlorophenol	mg/kg	<1.03	<0.884	<0.855	<0.885	<0.986	<0.920	<0.993	<0.898	<0.887	<0.898	<1.15	<1.09	<0.942	<0.953	<0.934	<0.902	<0.908	<0.896	<0.886	<3.67	<3.31	<1.04	<0.958	<0.909
2,4,6-Trichlorophenol	mg/kg	<1.03	<0.884	<0.855	<0.885	<0.986	<0.920	<0.993	<0.898	<0.887	<0.898	<1.15	<1.09	<0.942	<0.953	<0.934	<0.902	<0.908	<0.896	<0.886	<3.67	<3.31	<1.04	<0.958	<0.909
2,4-Dichlorophenol	mg/kg	<1.03	<0.884	<0.855	<0.885	<0.986	<0.920	<0.993	<0.898	<0.887	<0.898	<1.15	<1.09	<0.942	<0.953	<0.934	<0.902	<0.908	<0.896	<0.886	<3.67	<3.31	<1.04	<0.958	<0.909
2,4-Dimethylphenol	mg/kg	<1.03	<0.884	<0.855	<0.885	<0.986	<0.920	<0.993	<0.898	<0.887	<0.898	<1.15	<1.09	<0.942	<0.953	<0.934	<0.902	<0.908	<0.896	<0.886	<3.67	<3.31	<1.04	<0.958	<0.909
2,4-Dinitrophenol	mg/kg	<5.15	<4.43	<4.29	<4.44	<4.94	<4.61	<4.98	<4.51	<4.45	<4.50	<5.77	<5.48	<4.73	<4.78	<4.68	<4.52	<4.55	<4.49	<4.44	<18.4	<16.6	<5.23	<4.81	<4.56
2,4-Dinitrotoluene	mg/kg	<1.03	<0.884	<0.855	<0.885	<0.986	<0.920	<0.993	<0.898	<0.887	<0.898	<1.15	<1.09	<0.942	<0.953	<0.934	<0.902	<0.908	<0.896	<0.886	<0.953	<0.829	<1.04	<0.958	<0.909
2,6-Dinitrotoluene	mg/kg	<1.03	<0.884	<0.855	<0.885	<0.986	<0.920	<0.993	<0.898	<0.887	<0.898	<1.15	<1.09	<0.942	<0.953	<0.934	<0.902	<0.908	<0.896	<0.886	<3.67	<3.31	<1.04	<0.958	<0.909
2-Chloronaphthalene	mg/kg	<1.03	<0.884	<0.855	<0.885	<0.986	<0.920	<0.993	<0.898	<0.887	<0.898	<1.15	<1.09	<0.942	<0.953	<0.934	<0.902	<0.908	<0.896	<0.886	<3.67	<3.31	<1.04	<0.958	<0.909
2-Chlorophenol	mg/kg	<1.03	<0.884	<0.855	<0.885	<0.986	<0.920	<0.993	<0.898	<0.887	<0.898	<1.15	<1.09	<0.942	<0.953	<0.934	<0.902	<0.908	<0.896	<0.886	<3.67	<3.31	<1.04	<0.958	<0.909
2-Methylnaphthalene	mg/kg	<1.03	<0.884	<0.855	<0.885	<0.986	<0.920	<0.993	<0.898	<0.887	<0.898	<1.15	5.75	<0.942	<0.953	<0.934	<0.902	<0.908	<0.896	<0.886	<3.67	<3.31	<1.04	<0.958	<0.909
2-Methylphenol	mg/kg	<1.03	<0.884	<0.855	<0.885	<0.986	<0.920	<0.993	<0.898	<0.887	<0.898	<1.15	<1.09	<0.942	<0.953	<0.934	<0.902	<0.908	<0.896	<0.886	<3.67	<3.31	<1.04	<0.958	<0.909
2-Nitrophenol	mg/kg	<1.03	<0.884	<0.855	<0.885	<0.986	<0.920	<0.993	<0.898	<0.887	<0.898	<1.15	<1.09	<0.942	<0.953	<0.934	<0.902	<0.908	<0.896	<0.886	<3.67	<3.31	<1.04	<0.958	<0.909
3,3´-Dichlorobenzidine	mg/kg	<2.06	<1.77	<1.71	<1.77	<1.97	<1.84	<1.99	<1.80	<1.78	<1.80	<2.30	<2.19	<1.89	<1.91	<1.87	<1.81	<1.82	<1.80	<1.77	<7.35	<6.62	<2.09	<1.92	<1.82
3+4-Methylphenol	mg/kg	<2.06	<1.77	<1.71	<1.77	<1.97	<1.84	<1.99	<1.80	<1.78	<1.80	<2.30	<2.19	<1.89	<1.91	<1.87	<1.81	<1.82	<1.80	<1.77	<7.35	<6.62	<2.09	<1.92	<1.82
4-Bromophenyl-phenylether	mg/kg	<1.03	<0.884	<0.855	<0.885	<0.986	<0.920	<0.993	<0.898	<0.887	<0.898	<1.15	<1.09	<0.942	<0.953	<0.934	<0.902	<0.908	<0.896	<0.886	<3.67	<3.31	<1.04	<0.958	<0.909
4-Chloroaniline	mg/kg	<2.06	<1.77	<1.71	<1.77	<1.97	<1.84	<1.99	<1.80	<1.78	<1.80	<2.30	<2.19	<1.89	<1.91	<1.87	<1.81	<1.82	<1.80	<1.77	<1.84	<1.66	<2.09	<1.92	<1.82
4-Nitrophenol	mg/kg	<5.15	<4.43	<4.29	<4.44	<4.94	<4.61	<4.98	<4.51	<4.45	<4.50	<5.77	<5.48	<4.73	<4.78	<4.68	<4.52	<4.55	<4.49	<4.44	<18.4	<16.6	<5.23	<4.81	<4.56
Acenaphthene	mg/kg	<1.03	<0.884	<0.855	<0.885	<0.986	<0.920	<0.993	<0.898	<0.887	<0.898	<1.15	3.64	<0.942	<0.953	<0.934	<0.902	<0.908	<0.896	<0.886	<3.67	<3.31	<1.04	<0.958	<0.909
Acenaphthylene	mg/kg	<1.03	<0.884	<0.855	<0.885	<0.986	<0.920	<0.993	<0.898	<0.887	<0.898	2.06	<1.09	<0.942	<0.953	<0.934	<0.902	<0.908	<0.896	<0.886	<3.67	<3.31	<1.04	<0.958	<0.909
Acetophenone	mg/kg	<2.06	<1.77	<1.71	<1.77	<1.97	<1.84	<1.99	<1.80	<1.78	<1.80	<2.30	<2.19	<1.89	<1.91	<1.87	<1.81	<1.82	<1.80	<1.77	<7.35	<6.62	<2.09	<1.92	<1.82
Aniline	mg/kg	<5.15	<4.43	<4.29	<4.44	<4.94	<4.61	<4.98	<4.51	<4.45	<4.50	<5.77	<5.48	<4.73	<4.78	<4.68	<4.52	<4.55	<4.49	<4.44	<18.4	<16.6	<5.23	<4.81	<4.56
Anthracene	mg/kg	<1.03	1.05	<0.855	<0.885	<0.986	<0.920	<0.993	<0.898	<0.887	<0.898	<1.15	10.2	<0.942	<0.953	<0.934	<0.902	<0.908	<0.896	<0.886	<3.67	<3.31	<1.04	<0.958	<0.909
Azobenzene	mg/kg	<1.03	<0.884	<0.855	<0.885	<0.986	<0.920	<0.993	<0.898	<0.887	<0.898	<1.15	<1.09	<0.942	<0.953	<0.934	<0.902	<0.908	<0.896	<0.886	<3.67	<3.31	<1.04	<0.958	<0.909
Benzo(a)anthracene	mg/kg	<1.03	3.05	<0.855	<0.885	<0.986	<0.920	<0.993	<0.898	<0.887	<0.898	3.52	21.2	<0.942	<0.953	<0.934	<0.902	<0.908	<0.896	1.09	<3.67	<3.31	<1.04	<0.958	<0.909
Benzo(a)pyrene	mg/kg	<0.515	2.51	<0.429	0.616	<0.494	<0.461	<0.498	<0.451	<0.445	<0.450	2.77	19.2	<0.473	<0.478	<0.468	<0.452	<0.455	<0.449	0.883	<1.84	<1.66	<0.523	<0.481	<0.456
Benzo(b)fluoranthene	mg/kg	<1.03	2.62	<0.855	<0.885	<0.986	<0.920	<0.993	<0.898	<0.887	<0.898	11.1	21	<0.942	<0.953	<0.934	<0.902	<0.908	<0.896	1.19	<3.67	<3.31	<1.04	<0.958	<0.909
Benzo(g,h,i)perylene	mg/kg	<1.03	<0.884	<0.855	<0.885	<0.986	<0.920	<0.993	<0.898	<0.887	<0.898	1.35	4.59	<0.942	<0.953	<0.934	<0.902	<0.908	<0.896	<0.886	<3.67	<3.31	<1.04	<0.958	<0.909
Benzo(k)fluoranthene	mg/kg	<1.03	2.52	<0.855	<0.885	<0.986	<0.920	<0.993	<0.898	<0.887	<0.898	3.87	8.81	<0.942	<0.953	<0.934	<0.902	<0.908	<0.896	1.01	<3.67	<3.31	<1.04	<0.958	<0.909
bis(2-Chloroethoxy)methane	mg/kg	<1.03	<0.884	<0.855	<0.885	<0.986	<0.920	<0.993	<0.898	<0.887	<0.898	<1.15	<1.09	<0.942	<0.953	<0.934	<0.902	<0.908	<0.896	<0.886	<3.67	<3.31	<1.04	<0.958	<0.909
bis(2-Chloroethyl)ether	mg/kg	<0.515	<0.443	<0.429	<0.444	<0.494	<0.461	<0.498	<0.451	<0.445	<0.450	<0.577	<0.548	<0.473	<0.478	<0.468	<0.452	<0.455	<0.449	<0.444	<0.364	<0.328	<0.523	<0.481	<0.456
bis(2-chloroisopropyl)Ether	mg/kg	<0.515	<0.443	<0.429	<0.444	<0.494	<0.461	<0.498	<0.451	<0.445	<0.450	<0.577	<0.548	<0.473	<0.478	<0.468	<0.452	<0.455	<0.449	<0.444	<0.364	<0.328	<0.523	<0.481	<0.456
bis(2-Ethylhexyl)phthalate	mg/kg	<1.03	<0.884	<0.855	<0.885	<0.986	<0.920	<0.993	<0.898	<0.887	<0.898	3.58	1.1	0.965	<0.953	<0.934	<0.902	<0.908	<0.896	<0.886	<3.67	<3.31	<1.04	<0.958	<0.909
Butylbenzylphthalate	mg/kg	<1.03	<0.884	<0.855	<0.885	<0.986	<0.920	<0.993	<0.898	<0.887	<0.898	<1.15	<1.09	<0.942	<0.953	<0.934	<0.902	<0.908	<0.896	<0.886	<3.67	<3.31	<1.04	<0.958	<0.909
Chrysene	mg/kg	<0.515	2.72	<0.429	0.906	<0.494	<0.461	<0.498	<0.451	<0.445	<0.450	4.6	16.2	<0.473	<0.478	<0.468	<0.452	<0.455	<0.449	1.08	1.98	<1.66	<0.523	<0.481	<0.456
Dibenzo(a,h)Anthracene	mg/kg	<0.515	0.542	<0.429	<0.444	<0.494	<0.461	<0.498	<0.451	<0.445	<0.450	<0.577	<0.548	<0.473	<0.478	<0.468	<0.452	<0.455	<0.449	<0.444	<1.84	<1.66	<0.523	<0.481	<0.456
Dibenzofuran	mg/kg	<1.03	<0.884	<0.855	<0.885	<0.986	<0.920	<0.993	<0.898	<0.887	<0.898	<1.15	2.84	<0.942	<0.953	<0.934	<0.902	<0.908	<0.896	<0.886	<3.67	<3.31	<1.04	<0.958	<0.909
Diethylphthalate	mg/kg	<1.03	<0.884	<0.855	<0.885	<0.986	<0.920	<0.993	<0.898	<0.887	<0.898	<1.15	<1.09	<0.942	<0.953	<0.934	<0.902	<0.908	<0.896	<0.886	<3.67	<3.31	<1.04	<0.958	<0.909
Dimethylphthalate	mg/kg	<1.03	<0.884	<0.855	<0.885	<0.986	<0.920	<0.993	<0.898	<0.887	<0.898	<1.15	<1.09	<0.942	<0.953	<0.934	<0.902	<0.908	<0.896	<0.886	<3.67	<3.31	<1.04	<0.958	<0.909
Di-n-butylphthalate	mg/kg	<1.03	<0.884	<0.855	<0.885	<0.986	<0.920	<0.993	<0.898	<0.887	<0.898	<1.15	<1.09	<0.942	<0.953	<0.934	<0.902	<0.908	<0.896	<0.886	<3.67	<3.31	<1.04	<0.958	<0.909
Di-n-octylphthalate	mg/kg	<1.03	<0.884	<0.855	<0.885	<0.986	<0.920	<0.993	<0.898	<0.887	<0.898	<1.15	<1.09	<0.942	<0.953	<0.934	<0.902	<0.908	<0.896	<0.886	<3.67	<3.31	<1.04	<0.958	<0.909
Fluoranthene	mg/kg	<1.03	5.87	<0.855	1.56	<0.986	<0.920	<0.993	<0.898	1.09	<0.898	3.81	39.2	<0.942	<0.953	<0.934	<0.902	<0.908	<0.896	1.93	<3.67	<3.31	<1.04	<0.958	<0.909
Fluorene	mg/kg	<1.03	<0.884	<0.855	<0.885	<0.986	<0.920	<0.993	<0.898	<0.887	<0.898	<1.15	6.09	<0.942	<0.953	<0.934	<0.902	<0.908	<0.896	<0.886	<3.67	<3.31	<1.04	<0.958	<0.909
Hexachlorobenzene	mg/kg	<0.515	<0.443	<0.429	<0.444	<0.494	<0.461	<0.498	<0.451	<0.445	<0.450	<0.577	<0.548	<0.473	<0.478	<0.468	<0.452	<0.455	<0.449	<0.444	<0.920	<1.66	<0.523	<0.481	<0.456
Hexachlorobutadiene	mg/kg	<1.03	<0.884	<0.855	<0.885	<0.986	<0.920	<0.993	<0.898	<0.887	<0.898	<1.15	<1.09	<0.942	<0.953	<0.934	<0.902	<0.908	<0.896	<0.886	<3.67	<3.31	<1.04	<0.958	<0.909
Hexachloroethane	mg/kg	<1.03	<0.884	<0.855	<0.885	<0.986	<0.920	<0.993	<0.898	<0.887	<0.898	<1.15	<1.09	<0.942	<0.953	<0.934	<0.902	<0.908	<0.896	<0.886	<1.84	<1.66	<1.04	<0.958	<0.909
Indeno(1,2,3-cd)Pyrene	mg/kg	<1.03	0.909	<0.855	<0.885	<0.986	<0.920	<0.993	<0.898	<0.887	<0.898	1.64	4.62	<0.942	<0.953	<0.934	<0.902	<0.908	<0.896	<0.886	<3.67	<3.31	<1.04	<0.958	<0.909
Isophorone	mg/kg	<1.03	<0.884	<0.855	<0.885	<0.986	<0.920	<0.993	<0.898	<0.887	<0.898	<1.15	<1.09	<0.942	<0.953	<0.934	<0.902	<0.908	<0.896	<0.886	<3.67	<3.31	<1.04	<0.958	<0.909
Naphthalene	mg/kg	<1.03	<0.884	<0.855	0.921	<0.986	<0.920	<0.993	<0.898	<0.887	<0.898	3.95	3.2	<0.942	<0.953	<0.934	<0.902	<0.908	<0.896	<0.886	<3.67	<3.31	<1.04	<0.958	<0.909
Nitrobenzene	mg/kg	<1.03	<0.884	<0.855	<0.885	<0.986	<0.920	<0.993	<0.898	<0.887	<0.898	<1.15	<1.09	<0.942	<0.953	<0.934	<0.902	<0.908	<0.896	<0.886	<3.67	<3.31	<1.04	<0.958	<0.909
N-Nitrosodimethylamine	mg/kg	<1.03	<0.884	<0.855	<0.885	<0.986	<0.920	<0.993	<0.898	<0.887	<0.898	<1.15	<1.09	<0.942	<0.953	<0.934	<0.902	<0.908	<0.896	<0.886	<3.67	<3.31	<1.04	<0.958	<0.909
Pentachlorophenol	mg/kg	<5.15	<4.43	<4.29	<4.44	<4.94	<4.61	<4.98	<4.51	<4.45	<4.50	<5.77	<5.48	<4.73	<4.78	<4.68	<4.52	<4.55	<4.49	<4.44	<3.67	<3.31	<5.23	<4.81	<4.56
Phenanthrene	mg/kg	<1.03	4.01	<0.855	1.06	<0.986	<0.920	<0.993	<0.898	1.03	<0.898	2.06	43.5	<0.942	<0.953	<0.934	<0.902	<0.908	<0.896	0.901	<3.67	<3.31	<1.04	<0.958	<0.909
Phenol	mg/kg	<1.03	<0.884	<0.855	<0.885	<0.986	<0.920	<0.993	<0.898	<0.887	<0.898	<1.15	<1.09	<0.942	<0.953	<0.934	<0.902	<0.908	<0.896	<0.886	<3.67	<3.31	<1.04	<0.958	<0.909
Pyrene	mg/kg	<1.03	3.67	<0.855	1.2	<0.986	<0.920	<0.993	<0.898	<0.887	<0.898	6.14	34.5	<0.942	<0.953	<0.934	<0.902	<0.908	<0.896	1.15	<3.67	<3.31	<1.04	<0.958	<0.909
Total SVOCs	mg/kg	ND	29.471	ND	6.263	ND	ND	ND	ND	2.12	ND	189.21	461.31	13.265	ND	ND	ND	ND	ND	9.234	1.98	ND	ND	ND	ND
Classic Chemistry																									
Corrosivity (pH)	S.U.	4.74	8	8.13	12	9.72	6.26	4.81	5.64	11.1	8.7	7.73	6.71	5.33	4.52	4.55	4.36	4.72	9.19	7.02	6.64	6.14	4.71	4.98	5.18
Conductivity	umhos/cm	806	669	784	7760	2410	2770	1980	5280	815	541	847	698	879	626	759	1780	408	418	308	403	184	1540	334	158
Flashpoint	°F	--	>200	>200	>200	>200	>200	>200	>200	>200	>200	>200	>200	--	--	--	--	--	>200	>200	>200	>200	--	--	--
Reactive Cyanide	mg/kg	--	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--	--	--	--	--	<2.0	<2.0	<2.0	<2.0	--	--	--
Reactive Sulfide	mg/kg	--	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--	--	--	--	--	<2.0	<2.0	<2.0	<2.0	--	--	--

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	E12 E12S11 1502290 Natural Sand/Gravel 29 - 31 2/19/2015	E12 E12S12S13 1502290 Natural Sand/Gravel 34 - 38 2/19/2015	E13 E13S01S02A 1501299 Fill 0 - 3.33 1/15/2015	E13 E13S02BS04A 1501299 Fill 3.33 - 6.66 1/15/2015	E13 E13S04BS05 1501299 Fill 6.66 - 10 1/15/2015	E13 E13S06 1501299 Natural Sand/Gravel 10 - 12 1/15/2015	E13 E13S07 1501299 Natural Clay 17 - 19 1/15/2015	E13 E13S08 1501299 Natural Clay 24 - 26 1/15/2015	E13 E13S09 1501299 Natural Sand/Gravel 29 - 31 1/15/2015	E13 E13S10 1501299 Natural Sand/Gravel 34 - 36 1/15/2015	E13 E13S11 1501299 Natural Sand/Gravel 36 - 38 1/15/2015	E14 E14S01S02A 1502394 Fill 0 - 3.3 2/26/2015	E14 E14S02BS04A 1502394 Fill 3.3 - 6.6 2/26/2015	E14 E14S04BS05 1502394 Fill 6.6 - 8.7 2/26/2015	E14 E14S06 1502407 Natural Organics 10 - 12 2/27/2015	E14 E14S07 1502407 Natural Organics 12 - 14 2/27/2015	E14 E14S08 1502407 Natural Sand/Gravel 14 - 16 2/27/2015	E14 E14S09 1502407 Natural Sand/Gravel 19 - 21 2/27/2015	E14 E14S10 1502407 Natural Sand/Gravel 24 - 26 2/27/2015	E14 E14S11 1502407 Natural Clay 29 - 31 2/27/2015	E14 E14S12S13 1502407 Natural Clay 34 - 38 2/27/2015	E15 E15S01S02A 1501299 Fill 0 - 3.33 1/15/2015	E15 E15S02BS04A 1501328 Fill 3.33 - 6.66 1/16/2015	E15 E15S04BS05 1501328 Fill 6.66 - 10 1/16/2015
Preliminary Disposal Facility Category		Uncontaminated	Uncontaminated	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	Uncontaminated	Uncontaminated	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A
RCRA 8 Metals	**Units**																								
Arsenic	mg/kg	<7.37	<7.30	<7.28	<6.56	110	62.2	10.9	17.3	<7.79	<7.30	<7.18	<6.68	<6.90	18.3	14.8	28.8	8	69	345	10.9	12.8	<7.03	<6.86	741
Barium	mg/kg	10.4	12.5	15.9	25.3	225	86.6	40.3	106	9.24	17.8	25.2	23.2	24.1	50.1	32.8	25	<7.13	<6.96	16.7	91.2	95.6	20.4	17.1	164
Cadmium	mg/kg	<1.47	<1.46	<1.46	<1.31	3.75	<1.51	<1.66	<1.73	<1.56	<1.46	<1.44	<1.34	<1.38	<1.17	<1.55	<1.62	<1.43	<1.39	<3.16	<1.61	<1.71	<1.41	<1.37	12.1
Chromium	mg/kg	10.8	17.1	31.7	20	14.1	17.1	26.9	55.2	10.4	12.1	14.5	26.1	23.8	22.9	34.8	27.4	8.69	3.75	8.73	58.2	53.2	22.3	21.9	3.67
Lead	mg/kg	<14.7	<14.6	26.3	46.9	1840	1110	<16.6	<17.3	<15.6	<14.6	<14.4	21.9	26.6	322	22.8	23.9	<14.3	138	<12.6	17.3	18.2	69.5	<13.7	2520
Selenium	mg/kg	<7.37	<7.30	<7.28	<6.56	<7.12	<12.1	<8.31	<8.63	<12.5	<11.7	<11.5	<6.68	<6.90	<5.87	<7.74	<8.10	<7.13	<6.96	<6.32	<8.03	<8.57	<7.03	<6.86	16.5
Silver	mg/kg	<1.47	<1.46	<1.46	<1.31	3.76	<1.51	<1.66	<1.73	<1.56	<1.46	<1.44	<1.34	<1.38	<1.17	<1.55	<1.62	<1.43	<1.39	<1.26	<1.61	<1.71	<1.41	<1.37	16.1
Mercury	mg/kg	<0.039	<0.038	<0.033	0.086	0.936	0.621	<0.038	<0.044	<0.036	<0.035	<0.035	<0.033	<0.030	0.187	<0.038	0.228	<0.031	0.56	0.347	<0.039	<0.036	<0.035	<0.034	0.573
Metals by Toxicity Characteristic Leaching Procedure (TCLP)																									
Arsenic	mg/L	--	--	--	--	0.103	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.500	--	--	--	--	<0.050
Cadmium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead	mg/L	--	--	--	--	2.95	0.092	--	--	--	--	--	--	--	<0.500	--	--	--	<0.500	<0.500	--	--	--	--	0.076
Selenium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Herbicides																									
2,4,5-T	mg/kg	--	--	<0.052	<0.25	<0.28	--	<0.061	--	--	--	--	<0.049	<0.054	<0.052	<0.055	--	--	--	--	--	--	<0.053	<0.054	<0.33
2,4-D	mg/kg	--	--	<0.052	<0.25	<0.28	--	<0.061	--	--	--	--	<0.049	<0.054	<0.052	<0.28	--	--	--	--	--	--	<0.053	<0.054	<0.33
2,4-DB	mg/kg	--	--	<0.052	<0.25	<0.28	--	<0.061	--	--	--	--	<0.049	<0.054	<0.052	<0.021	--	--	--	--	--	--	<0.053	<0.054	<0.33
Dalapon	mg/kg	--	--	<0.63	<3.0	<3.3	--	<0.74	--	--	--	--	<0.59	<0.65	<0.63	<1.7	--	--	--	--	--	--	<0.64	<0.65	<4.0
Dicamba	mg/kg	--	--	<0.052	<0.25	<0.28	--	<0.061	--	--	--	--	<0.049	<0.054	<0.052	<0.083	--	--	--	--	--	--	<0.053	<0.054	<0.33
Dichlorprop	mg/kg	--	--	<0.052	<0.25	<0.28	--	<0.061	--	--	--	--	<0.049	<0.054	<0.052	<0.18	--	--	--	--	--	--	<0.053	<0.054	<0.33
Dinoseb	mg/kg	--	--	<0.31	<1.5	<1.7	--	<0.37	--	--	--	--	<0.29	<0.33	<0.32	<0.28	--	--	--	--	--	--	<0.32	<0.33	<2.0
MCPA	mg/kg	--	--	<13	<61	<66	--	<15	--	--	--	--	<12	<13	<13	<69	--	--	--	--	--	--	<13	<13	<79
MCPP	mg/kg	--	--	<13	<61	<66	--	<15	--	--	--	--	<12	<13	<13	<69	--	--	--	--	--	--	<13	<13	<79
Silvex (2,4,5-TP)	mg/kg	--	--	<0.052	<0.25	<0.28	--	<0.061	--	--	--	--	<0.049	<0.054	<0.052	<0.055	--	--	--	--	--	--	<0.053	<0.054	<0.33
Pesticides																									
4,4'-DDD	mg/kg	--	--	<0.0092	<0.037	<0.019	--	<0.0020	--	--	--	--	<0.0035	<0.0018	<0.0038	<0.0023	--	--	--	--	--	--	<0.0018	<0.0019	<0.011
4,4'-DDE	mg/kg	--	--	<0.0092	<0.037	<0.019	--	<0.0020	--	--	--	--	<0.0035	<0.0018	<0.0038	<0.0023	--	--	--	--	--	--	<0.0018	<0.0019	<0.011
4,4'-DDT	mg/kg	--	--	<0.0092	<0.037	<0.019	--	<0.0020	--	--	--	--	<0.0035	<0.0018	<0.0038	<0.0023	--	--	--	--	--	--	<0.0018	<0.0019	<0.011
Aldrin	mg/kg	--	--	<0.0092	<0.037	<0.019	--	<0.0020	--	--	--	--	<0.0035	<0.0018	<0.0038	<0.0023	--	--	--	--	--	--	<0.0018	<0.0019	<0.011
alpha-BHC	mg/kg	--	--	<0.0092	<0.037	<0.019	--	<0.0020	--	--	--	--	<0.0035	<0.0018	<0.0038	<0.0023	--	--	--	--	--	--	<0.0018	<0.0019	<0.011
beta-BHC	mg/kg	--	--	<0.0092	<0.037	<0.019	--	<0.0020	--	--	--	--	<0.0035	<0.0018	<0.0038	<0.0023	--	--	--	--	--	--	<0.0018	<0.0019	<0.011
Chlordane (technical)	mg/kg	--	--	<0.092	<0.37	<0.19	--	<0.020	--	--	--	--	<0.035	<0.018	<0.038	<0.023	--	--	--	--	--	--	<0.018	<0.019	<0.11
delta-BHC	mg/kg	--	--	<0.0092	<0.037	<0.019	--	<0.0020	--	--	--	--	<0.0035	<0.0018	<0.0038	<0.0023	--	--	--	--	--	--	<0.0018	<0.0019	<0.011
Dieldrin	mg/kg	--	--	<0.0092	<0.037	<0.019	--	<0.0020	--	--	--	--	<0.0035	<0.0018	<0.0038	<0.0023	--	--	--	--	--	--	<0.0018	<0.0019	<0.011
Endosulfan I	mg/kg	--	--	<0.0092	<0.037	<0.019	--	<0.0020	--	--	--	--	<0.0035	<0.0018	<0.0038	<0.0023	--	--	--	--	--	--	<0.0018	<0.0019	<0.011
Endosulfan II	mg/kg	--	--	<0.0092	<0.037	<0.019	--	<0.0020	--	--	--	--	<0.0035	<0.0018	<0.0038	<0.0023	--	--	--	--	--	--	<0.0018	<0.0019	<0.011
Endosulfan sulfate	mg/kg	--	--	<0.0092	<0.037	<0.019	--	<0.0020	--	--	--	--	<0.0035	<0.0018	<0.0038	<0.0023	--	--	--	--	--	--	<0.0018	<0.0019	<0.011
Endrin	mg/kg	--	--	<0.0092	<0.037	<0.019	--	<0.0020	--	--	--	--	<0.0035	<0.0018	<0.0038	<0.0023	--	--	--	--	--	--	<0.0018	<0.0019	<0.011
Endrin ketone	mg/kg	--	--	<0.0092	<0.037	<0.019	--	<0.0020	--	--	--	--	<0.0035	<0.0018	<0.0038	<0.0023	--	--	--	--	--	--	<0.0018	<0.0019	<0.011
gamma-BHC (Lindane)	mg/kg	--	--	<0.0092	<0.037	<0.019	--	<0.0020	--	--	--	--	<0.0035	<0.0018	<0.0038	<0.0023	--	--	--	--	--	--	<0.0018	<0.0019	<0.011
Heptachlor	mg/kg	--	--	<0.0092	<0.037	<0.019	--	<0.0020	--	--	--	--	<0.0035	<0.0018	<0.0038	<0.0023	--	--	--	--	--	--	<0.0018	<0.0019	<0.011
Heptachlor epoxide	mg/kg	--	--	<0.0092	<0.037	<0.019	--	<0.0020	--	--	--	--	<0.0035	<0.0018	<0.0038	<0.0023	--	--	--	--	--	--	<0.0018	<0.0019	<0.011
Hexachlorobenzene	mg/kg	--	--	<0.0092	<0.037	<0.019	--	<0.0020	--	--	--	--	<0.0035	<0.0018	<0.0038	<0.0023	--	--	--	--	--	--	<0.0018	<0.0019	<0.011
Methoxychlor	mg/kg	--	--	<0.0092	<0.037	<0.019	--	<0.0020	--	--	--	--	<0.0035	<0.0018	<0.0038	<0.0023	--	--	--	--	--	--	<0.0018	<0.0019	<0.011
Polychlorinated Biphenyls																									
Aroclor 1016	mg/kg	<0.144	<0.142	<0.201	<0.124	<0.139	<0.151	<0.153	<0.167	<0.146	<0.144	<0.146	<0.129	<0.132	<0.130	<0.154	<0.146	<0.140	<0.140	<0.150	<0.150	<0.160	<0.124	<0.134	<0.151
Aroclor 1221	mg/kg	<0.144	<0.142	<0.201	<0.124	<0.139	<0.151	<0.153	<0.167	<0.146	<0.144	<0.146	<0.129	<0.132	<0.130	<0.154	<0.146	<0.140	<0.140	<0.150	<0.150	<0.160	<0.124	<0.134	<0.151
Aroclor 1232	mg/kg	<0.144	<0.142	<0.201	<0.124	<0.139	<0.151	<0.153	<0.167	<0.146	<0.144	<0.146	<0.129	<0.132	<0.130	<0.154	<0.146	<0.140	<0.140	<0.150	<0.150	<0.160	<0.124	<0.134	<0.151
Aroclor 1242	mg/kg	<0.144	<0.142	<0.201	<0.124	<0.139	<0.151	<0.153	<0.167	<0.146	<0.144	<0.146	<0.129	<0.132	<0.130	<0.154	<0.146	<0.140	<0.140	<0.150	<0.150	<0.160	<0.124	<0.134	<0.151
Aroclor 1248	mg/kg	<0.144	<0.142	<0.201	<0.124	<0.139	<0.151	<0.153	<0.167	<0.146	<0.144	<0.146	<0.129	<0.132	<0.130	<0.154	<0.146	<0.140	<0.140	<0.150	<0.150	<0.160	<0.124	<0.134	<0.151
Aroclor 1254	mg/kg	<0.144	<0.142	<0.201	<0.124	<0.139	<0.151	<0.153	<0.167	<0.146	<0.144	<0.146	<0.129	<0.132	0.322	<0.154	<0.146	<0.140	<0.140	<0.150	<0.150	<0.160	<0.124	<0.134	<0.151
Aroclor 1260	mg/kg	<0.144	<0.142	1.11	0.367	<0.139	<0.151	<0.153	<0.167	<0.146	<0.144	<0.146	<0.129	<0.132	<0.130	<0.154	<0.146	<0.140	<0.140	<0.150	<0.150	<0.160	<0.124	<0.134	<0.151
Aroclor 1262	mg/kg	<0.144	<0.142	<0.201	<0.124	<0.139	<0.151	<0.153	<0.167	<0.146	<0.144	<0.146	<0.129	<0.132	0.286	<0.154	<0.146	<0.140	<0.140	<0.150	<0.150	<0.160	<0.124	<0.134	<0.151
Aroclor 1268	mg/kg	<0.144	<0.142	<0.201	<0.124	<0.139	<0.151	<0.153	<0.167	<0.146	<0.144	<0.146	<0.129	<0.132	<0.130	<0.154	<0.146	<0.140	<0.140	<0.150	<0.150	<0.160	<0.124	<0.134	<0.151
Total PCBs	mg/kg	ND	ND	1.11	0.367	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.608	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Petroleum Hydrocarbons	mg/kg	<42.5	<46.9	<43.1	1510	1100	158	<50.4	<52.1	<47.4	<43.3	<43.8	67.6	<42.0	171	<52.4	<48.7	<45.4	<43.1	<47.8	<48.0	<51.5	<38.0	<38.7	138
Volatile Organic Compounds (VOCs)																									
1,1,1,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0821	--	--	--	--	<0.0962	--	--	--	--	--
1,1,1-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0411	--	--	--	--	<0.0481	--	--	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0411	--	--	--	--	<0.0481	--	--	--	--	--
1,1,2-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0411	--	--	--	--	<0.0481	--	--	--	--	--
1,1-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0411	--	--	--	--	<0.0481	--	--	--	--	--
1,1-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0411	--	--	--	--	<0.0481	--	--	--	--	--
1,1-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0411	--	--	--	--	<0.0481	--	--	--	--	--
1,2,3-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0411	--	--	--	--	<0.0481	--	--	--	--	--
1,2,3-Trichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0411	--	--	--	--	<0.0481	--	--	--	--	--
1,2,4-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0411	--	--	--	--	<0.0481	--	--	--	--	--
1,2,4-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	0.046	--	--	--	--	<0.0481	--	--	--	--	--
1,2-Dibromo-3-Chloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.164	--	--	--	--	<0.192	--	--	--	--	--
1,2-Dibromoethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0411	--	--	--	--	<0.0481	--	--	--	--	--
1,2-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0411	--	--	--	--	<0.0481	--	--	--	--	--
1,2-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0411	--	--	--	--	<0.0481	--	--	--	--	--
1,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0411	--	--	--	--	<0.0481	--	--	--	--	--
1,3,5-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0411	--	--	--	--	<0.0481	--	--	--	--	--
1,3-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0411	--	--	--	--	<0.0481	--	--	--	--	--
1,3-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0411	--	--	--	--	<0.0481	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0411	--	--	--	--	<0.0481	--	--	--	--	--
1,4-Dioxane - Screen	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<4.11	--	--	--	--	<4.81	--	--	--	--	--
2,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0821	--	--	--	--	<0.0962	--	--	--	--	--
2-Butanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.164	--	--	--	--	0.196	--	--	--	--	--
2-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0411	--	--	--	--	<0.0481	--	--	--	--	--
2-Hexanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.164	--	--	--	--	<0.192	--	--	--	--	--
4-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0411	--	--	--	--	<0.0481	--	--	--	--	--
4-Isopropyltoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0411	--	--	--	--	<0.0481	--	--	--	--	--
4-Methyl-2-Pentanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.164	--	--	--	--	<0.192	--	--	--	--	--
Acetone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	0.322	--	--	--	--	1.35	--	--	--	--	--
Benzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	0.352	--	--	--	--	<0.0481	--	--	--	--	--
Bromobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0411	--	--	--	--	<0.0481	--	--	--	--	--
Bromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0411	--	--	--	--	<0.0481	--	--	--	--	--
Bromodichloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0411	--	--	--	--	<0.0481	--	--	--	--	--
Bromoform	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0411	--	--	--	--	<0.0481	--	--	--	--	--
Bromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0821	--	--	--	--	<0.0962	--	--	--	--	--
Carbon Disulfide	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0411	--	--	--	--	<0.0481	--	--	--	--	--
Carbon Tetrachloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0411	--	--	--	--	<0.0481	--	--	--	--	--

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	E12 E12S11 1502290 Natural Sand/Gravel 29 - 31 2/19/2015	E12 E12S12S13 1502290 Natural Sand/Gravel 34 - 38 2/19/2015	E13 E13S01S02A 1501299 Fill 0 - 3.33 1/15/2015	E13 E13S02BS04A 1501299 Fill 3.33 - 6.66 1/15/2015	E13 E13S04BS05 1501299 Fill 6.66 - 10 1/15/2015	E13 E13S06 1501299 Natural Sand/Gravel 10 - 12 1/15/2015	E13 E13S07 1501299 Natural Clay 17 - 19 1/15/2015	E13 E13S08 1501299 Natural Clay 24 - 26 1/15/2015	E13 E13S09 1501299 Natural Sand/Gravel 29 - 31 1/15/2015	E13 E13S10 1501299 Natural Sand/Gravel 34 - 36 1/15/2015	E13 E13S11 1501299 Natural Sand/Gravel 36 - 38 1/15/2015	E14 E14S01S02A 1502394 Fill 0 - 3.3 2/26/2015	E14 E14S02BS04A 1502394 Fill 3.3 - 6.6 2/26/2015	E14 E14S04BS05 1502394 Fill 6.6 - 8.7 2/26/2015	E14 E14S06 1502407 Natural Organics 10 - 12 2/27/2015	E14 E14S07 1502407 Natural Organics 12 - 14 2/27/2015	E14 E14S08 1502407 Natural Sand/Gravel 14 - 16 2/27/2015	E14 E14S09 1502407 Natural Sand/Gravel 19 - 21 2/27/2015	E14 E14S10 1502407 Natural Sand/Gravel 24 - 26 2/27/2015	E14 E14S11 1502407 Natural Clay 29 - 31 2/27/2015	E14 E14S12S13 1502407 Natural Clay 34 - 38 2/27/2015	E15 E15S01S02A 1501299 Fill 0 - 3.33 1/15/2015	E15 E15S02BS04A 1501328 Fill 3.33 - 6.66 1/16/2015	E15 E15S04BS05 1501328 Fill 6.66 - 10 1/16/2015
Preliminary Disposal Facility Category		Uncontaminated	Uncontaminated	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	Uncontaminated	Uncontaminated	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A
Chlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0411	--	--	--	--	<0.0481	--	--	--	--	--
Chloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0821	--	--	--	--	<0.0962	--	--	--	--	--
Chloroform	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0411	--	--	--	--	<0.0481	--	--	--	--	--
Chloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0821	--	--	--	--	<0.0962	--	--	--	--	--
cis-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0411	--	--	--	--	<0.0481	--	--	--	--	--
cis-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0411	--	--	--	--	<0.0481	--	--	--	--	--
Dibromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0411	--	--	--	--	<0.0481	--	--	--	--	--
Dibromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0411	--	--	--	--	<0.0481	--	--	--	--	--
Dichlorodifluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0411	--	--	--	--	<0.0481	--	--	--	--	--
Diethyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0411	--	--	--	--	<0.0481	--	--	--	--	--
Di-isopropyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0411	--	--	--	--	<0.0481	--	--	--	--	--
Ethyl tertiary-butyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0411	--	--	--	--	<0.0481	--	--	--	--	--
Ethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0452	--	--	--	--	<0.0481	--	--	--	--	--
Hexachlorobutadiene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0411	--	--	--	--	<0.0481	--	--	--	--	--
Isopropylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	0.046	--	--	--	--	<0.0481	--	--	--	--	--
Methyl tert-Butyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0411	--	--	--	--	<0.0481	--	--	--	--	--
Methylene Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.164	--	--	--	--	<0.192	--	--	--	--	--
Naphthalene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	0.104	--	--	--	--	<0.0481	--	--	--	--	--
n-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0411	--	--	--	--	<0.0481	--	--	--	--	--
n-Propylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0411	--	--	--	--	<0.0481	--	--	--	--	--
sec-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0411	--	--	--	--	<0.0481	--	--	--	--	--
Styrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0411	--	--	--	--	<0.0481	--	--	--	--	--
tert-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0411	--	--	--	--	<0.0481	--	--	--	--	--
Tertiary-amyl methyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0411	--	--	--	--	<0.0481	--	--	--	--	--
Tetrachloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0411	--	--	--	--	<0.0481	--	--	--	--	--
Tetrahydrofuran	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.164	--	--	--	--	<0.192	--	--	--	--	--
Toluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0411	--	--	--	--	<0.0481	--	--	--	--	--
trans-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0411	--	--	--	--	<0.0481	--	--	--	--	--
trans-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0411	--	--	--	--	<0.0481	--	--	--	--	--
Trichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0411	--	--	--	--	<0.0481	--	--	--	--	--
Trichlorofluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0411	--	--	--	--	<0.0481	--	--	--	--	--
Vinyl Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0411	--	--	--	--	<0.0481	--	--	--	--	--
Xylene O	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0411	--	--	--	--	<0.0481	--	--	--	--	--
Xylene P,M	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0821	--	--	--	--	<0.0962	--	--	--	--	--
Xylenes (Total)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0821	--	--	--	--	<0.0962	--	--	--	--	--
Total VOCs	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	0.9152	--	--	--	--	1.546	--	--	--	--	--
Volatile Organic Compounds - Low Level Analysis																									
1,1,1,2-Tetrachloroethane	mg/kg	<0.0040	<0.0040	<0.0071	<0.0076	<0.0049	<0.0040	<0.0042	<0.0055	<0.0043	<0.0038	<0.0041	<0.0204	<0.0061	<0.0071	<0.0049	<0.0045	<0.0050	<0.0056	<0.0036	<0.0038	<0.0062	<0.0066	<0.0071	<0.0051
1,1,1-Trichloroethane	mg/kg	<0.0040	<0.0040	<0.0071	<0.0076	<0.0049	<0.0040	<0.0042	<0.0055	<0.0043	<0.0038	<0.0041	<0.0204	<0.0061	<0.0071	<0.0049	<0.0045	<0.0050	<0.0056	<0.0036	<0.0038	<0.0062	<0.0066	<0.0071	<0.0051
1,1,2,2-Tetrachloroethane	mg/kg	<0.0016	<0.0016	<0.0029	<0.0030	<0.0020	<0.0016	<0.0017	<0.0022	<0.0017	<0.0015	<0.0016	<0.0082	<0.0024	<0.0028	<0.0020	<0.0018	<0.0020	<0.0022	<0.0014	<0.0015	<0.0025	<0.0026	<0.0029	<0.0020
1,1,2-Trichloroethane	mg/kg	<0.0040	<0.0040	<0.0071	<0.0076	<0.0049	<0.0040	<0.0042	<0.0055	<0.0043	<0.0038	<0.0041	<0.0204	<0.0061	<0.0071	<0.0049	<0.0045	<0.0050	<0.0056	<0.0036	<0.0038	<0.0062	<0.0066	<0.0071	<0.0051
1,1-Dichloroethane	mg/kg	<0.0040	<0.0040	<0.0071	<0.0076	<0.0049	<0.0040	<0.0042	<0.0055	<0.0043	<0.0038	<0.0041	<0.0204	<0.0061	<0.0071	<0.0049	<0.0045	<0.0050	<0.0056	<0.0036	<0.0038	<0.0062	<0.0066	<0.0071	<0.0051
1,1-Dichloroethene	mg/kg	<0.0040	<0.0040	<0.0071	<0.0076	<0.0049	<0.0040	<0.0042	<0.0055	<0.0043	<0.0038	<0.0041	<0.0204	<0.0061	<0.0071	<0.0049	<0.0045	<0.0050	<0.0056	<0.0036	<0.0038	<0.0062	<0.0066	<0.0071	<0.0051
1,1-Dichloropropene	mg/kg	<0.0040	<0.0040	<0.0071	<0.0076	<0.0049	<0.0040	<0.0042	<0.0055	<0.0043	<0.0038	<0.0041	<0.0204	<0.0061	<0.0071	<0.0049	<0.0045	<0.0050	<0.0056	<0.0036	<0.0038	<0.0062	<0.0066	<0.0071	<0.0051
1,2,3-Trichlorobenzene	mg/kg	<0.0040	<0.0040	<0.0071	<0.0076	<0.0049	<0.0040	<0.0042	<0.0055	<0.0043	<0.0038	<0.0041	<0.0204	<0.0061	<0.0071	<0.0049	<0.0045	<0.0050	<0.0056	<0.0036	<0.0038	<0.0062	<0.0066	<0.0071	<0.0051
1,2,3-Trichloropropane	mg/kg	<0.0040	<0.0040	<0.0071	<0.0076	<0.0049	<0.0040	<0.0042	<0.0055	<0.0043	<0.0038	<0.0041	<0.0204	<0.0061	<0.0071	<0.0049	<0.0045	<0.0050	<0.0056	<0.0036	<0.0038	<0.0062	<0.0066	<0.0071	<0.0051
1,2,4-Trichlorobenzene	mg/kg	<0.0040	<0.0040	<0.0071	<0.0076	<0.0049	<0.0040	<0.0042	<0.0055	<0.0043	<0.0038	<0.0041	<0.0204	<0.0061	<0.0071	<0.0049	<0.0045	<0.0050	<0.0056	<0.0036	<0.0038	<0.0062	<0.0066	<0.0071	<0.0051
1,2,4-Trimethylbenzene	mg/kg	<0.0040	<0.0040	<0.0071	<0.0076	<0.0049	<0.0040	<0.0042	<0.0055	<0.0043	<0.0038	<0.0041	<0.0204	<0.0061	<0.0071	<0.0049	<0.0045	<0.0050	<0.0056	<0.0036	<0.0038	<0.0062	<0.0066	<0.0071	<0.0051
1,2-Dibromo-3-Chloropropane	mg/kg	<0.0040	<0.0040	<0.0071	<0.0076	<0.0049	<0.0040	<0.0042	<0.0055	<0.0043	<0.0038	<0.0041	<0.0204	<0.0061	<0.0071	<0.0049	<0.0045	<0.0050	<0.0056	<0.0036	<0.0038	<0.0062	<0.0066	<0.0071	<0.0051
1,2-Dibromoethane	mg/kg	<0.0040	<0.0040	<0.0071	<0.0076	<0.0049	<0.0040	<0.0042	<0.0055	<0.0043	<0.0038	<0.0041	<0.0204	<0.0061	<0.0071	<0.0049	<0.0045	<0.0050	<0.0056	<0.0036	<0.0038	<0.0062	<0.0066	<0.0071	<0.0051
1,2-Dichlorobenzene	mg/kg	<0.0040	<0.0040	<0.0071	<0.0076	<0.0049	<0.0040	<0.0042	<0.0055	<0.0043	<0.0038	<0.0041	<0.0204	<0.0061	<0.0071	<0.0049	<0.0045	<0.0050	<0.0056	<0.0036	<0.0038	<0.0062	<0.0066	<0.0071	<0.0051
1,2-Dichloroethane	mg/kg	<0.0040	<0.0040	<0.0071	<0.0076	<0.0049	<0.0040	<0.0042	<0.0055	<0.0043	<0.0038	<0.0041	<0.0204	<0.0061	<0.0071	<0.0049	<0.0045	<0.0050	<0.0056	<0.0036	<0.0038	<0.0062	<0.0066	<0.0071	<0.0051
1,2-Dichloropropane	mg/kg	<0.0040	<0.0040	<0.0071	<0.0076	<0.0049	<0.0040	<0.0042	<0.0055	<0.0043	<0.0038	<0.0041	<0.0204	<0.0061	<0.0071	<0.0049	<0.0045	<0.0050	<0.0056	<0.0036	<0.0038	<0.0062	<0.0066	<0.0071	<0.0051
1,3,5-Trimethylbenzene	mg/kg	<0.0040	<0.0040	<0.0071	<0.0076	<0.0049	<0.0040	<0.0042	<0.0055	<0.0043	<0.0038	<0.0041	<0.0204	<0.0061	<0.0071	<0.0049	<0.0045	<0.0050	<0.0056	<0.0036	<0.0038	<0.0062	<0.0066	<0.0071	<0.0051
1,3-Dichlorobenzene	mg/kg	<0.0040	<0.0040	<0.0071	<0.0076	<0.0049	<0.0040	<0.0042	<0.0055	<0.0043	<0.0038	<0.0041	<0.0204	<0.0061	<0.0071	<0.0049	<0.0045	<0.0050	<0.0056	<0.0036	<0.0038	<0.0062	<0.0066	<0.0071	<0.0051
1,3-Dichloropropane	mg/kg	<0.0040	<0.0040	<0.0071	<0.0076	<0.0049	<0.0040	<0.0042	<0.0055	<0.0043	<0.0038	<0.0041	<0.0204	<0.0061	<0.0071	<0.0049	<0.0045	<0.0050	<0.0056	<0.0036	<0.0038	<0.0062	<0.0066	<0.0071	<0.0051
1,4-Dichlorobenzene	mg/kg	<0.0040	<0.0040	<0.0071	<0.0076	<0.0049	<0.0040	<0.0042	<0.0055	<0.0043	<0.0038	<0.0041	<0.0204	<0.0061	<0.0071	<0.0049	<0.0045	<0.0050	<0.0056	<0.0036	<0.0038	<0.0062	<0.0066	<0.0071	<0.0051
1,4-Dioxane	mg/kg	<0.0794	<0.0799	<0.143	<0.152	<0.0986	<0.0791	<0.0831	<0.110	<0.0865	<0.0765	<0.0812	<0.408	<0.122	<0.142	<0.0982	<0.0892	<0.0993	<0.112	<0.0725	<0.0757	<0.124	<0.132	<0.143	<0.102
2,2-Dichloropropane	mg/kg	<0.0040	<0.0040	<0.0071	<0.0076	<0.0049	<0.0040	<0.0042	<0.0055	<0.0043	<0.0038	<0.0041	<0.0204	<0.0061	<0.0071	<0.0049	<0.0045	<0.0050	<0.0056	<0.0036	<0.0038	<0.0062	<0.0066	<0.0071	<0.0051
2-Butanone	mg/kg	<0.0079	<0.0080	<0.0143	<0.0152	<0.0099	<0.0079	<0.0083	<0.0110	<0.0087	<0.0076	<0.0081	<0.0408	<0.0122	<0.0142	<0.0098	<0.0089	<0.0099	0.015	0.0849	0.0224	0.0183	<0.0132	<0.0143	<0.0102
2-Chlorotoluene	mg/kg	<0.0040	<0.0040	<0.0071	<0.0076	<0.0049	<0.0040	<0.0042	<0.0055	<0.0043	<0.0038	<0.0041	<0.0204	<0.0061	<0.0071	<0.0049	<0.0045	<0.0050	<0.0056	<0.0036	<0.0038	<0.0062	<0.0066	<0.0071	<0.0051
2-Hexanone	mg/kg	<0.0079	<0.0080	<0.0143	<0.0152	<0.0099	<0.0079	<0.0083	<0.0110	<0.0087	<0.0076	<0.0081	<0.0408	<0.0122	<0.0142	<0.0098	<0.0089	<0.0099	<0.0112	<0.0072	<0.0076	<0.0124	<0.0132	<0.0143	<0.0102
4-Chlorotoluene	mg/kg	<0.0040	<0.0040	<0.0071	<0.0076	<0.0049	<0.0040	<0.0042	<0.0055	<0.0043	<0.0038	<0.0041	<0.0204	<0.0061	<0.0071	<0.0049	<0.0045	<0.0050	<0.0056	<0.0036	<0.0038	<0.0062	<0.0066	<0.0071	<0.0051
4-Isopropyltoluene	mg/kg	<0.0040	<0.0040	<0.0071	<0.0076	<0.0049	<0.0040	<0.0042	<0.0055	<0.0043	<0.0038	<0.0041	<0.0204	<0.0061	<0.0071	<0.0049	<0.0045	<0.0050	<0.0056	<0.0036	<0.0038	<0.0062	<0.0066	<0.0071	<0.0051
4-Methyl-2-Pentanone	mg/kg	<0.0079	<0.0080	<0.0143	<0.0152	<0.0099	<0.0079	<0.0083	<0.0110	<0.0087	<0.0076	<0.0081	<0.0408	<0.0122	<0.0142	<0.0098	<0.0089	<0.0099	<0.0112	<0.0072	<0.0076	<0.0124	<0.0132	<0.0143	<0.0102
Acetone	mg/kg	<0.0079	<0.0080	0.0351	<0.0152	0.015	0.0259	0.0151	0.0118	<0.0087	<0.0076	0.0102	<0.0408	<0.0122	0.105	0.0595	0.0237	0.023	0.122	1.16	0.49	0.246	<0.0132	<0.0143	0.0506
Benzene	mg/kg	<0.0040	<0.0040	<0.0071	<0.0076	<0.0049	<0.0040	<0.0042	<0.0055	<0.0043	<0.0038	<0.0041	<0.0204	<0.0061	0.0227	<0.0049	<0.0045	<0.0050	<0.0056	<0.0036	<0.0038	<0.0062	<0.0066	<0.0071	<0.0051
Bromobenzene	mg/kg	<0.0040	<0.0040	<0.0071	<0.0076	<0.0049	<0.0040	<0.0042	<0.0055	<0.0043	<0.0038	<0.0041	<0.0204	<0.0061	<0.0071	<0.0049	<0.0045	<0.0050	<0.0056	<0.0036	<0.0038	<0.0062	<0.0066	<0.0071	<0.0051
Bromochloromethane	mg/kg	<0.0040	<0.0040	<0.0071	<0.0076	<0.0049	<0.0040	<0.0042	<0.0055	<0.0043	<0.0038	<0.0041	<0.0204	<0.0061	<0.0071	<0.0049	<0.0045	<0.0050	<0.0056	<0.0036	<0.0038	<0.0062	<0.0066	<0.0071	<0.0051
Bromodichloromethane	mg/kg	<0.0040	<0.0040	<0.0071	<0.0076	<0.0049	<0.0040	<0.0042	<0.0055	<0.0043	<0.0038	<0.0041	<0.0204	<0.0061	<0.0071	<0.0049	<0.0045	<0.0050	<0.0056	<0.0036	<0.0038	<0.0062	<0.0066	<0.0071	<0.0051
Bromoform	mg/kg	<0.0040	<0.0040	<0.0071	<0.0076	<0.0049	<0.0040	<0.0042	<0.0055	<0.0043	<0.0038	<0.0041	<0.0204	<0.0061	<0.0071	<0.0049	<0.0045	<0.0050	<0.0056	<0.0036	<0.0038	<0.0062	<0.0066	<0.0071	<0.0051
Bromomethane	mg/kg	<0.0079	<0.0080	<0.0143	<0.0152	<0.0099	<0.0079	<0.0083	<0.0110	<0.0087	<0.0076	<0.0081	<0.0408	<0.0122	<0.0142	<0.0098	<0.0089	<0.0099	<0.0112	<0.0072	<0.0076	<0.0124	<0.0132	<0.0143	<0.0102
Carbon Disulfide	mg/kg	<0.0040	<0.0040	<0.0071	<0.0076	<0.0049	<0.0040	<0.0042	<0.0055	<0.0043	<0.0038	<0.0041	<0.0204	<0.0061	<0.0071	<0.0049	<0.0045	<0.0050	<0.0056	0.0181	<0.0038	<0.0062	<0.0066	<0.0071	<0.0051
Carbon Tetrachloride	mg/kg	<0.0040	<0.0040	<0.0071	<0.0076	<0.0049	<0.0040	<0.0042	<0.0055	<0.0043	<0.0038	<0.0041	<0.0204	<0.0061	<0.0071	<0.0049	<0.0045	<0.0050	<0.0056	<0.0036	<0.0038	<0.0062	<0.0066	<0.0071	<0.0051
Chlorobenzene	mg/kg	<0.0040	<0.0040	<0.0071	<0.0076	<0.0049	<0.0040	<0.0042	<0.0055	<0.0043	<0.0038	<0.0041	<0.0204	<0.0061	<0.0071	<0.0049	<0.0045	<0.0050	<0.0056	<0.0036	<0.0038	<0.0062	<0.0066	<0.0071	<0.0051
Chloroethane	mg/kg	<0.0079	<0.0080	<0.0143	<0.0152	<0.0099	<0.0079	<0.0083	<0.0110	<0.0087	<0.0076	<0.0081	<0.0408	<0.0122	<0.0142	<0.0098	<0.0089	<0.0099	<0.0112	<0.0072	<0.0076	<0.0124	<0.0132	<0.0143	<0.0102
Chloroform	mg/kg	<0.0040	<0.0040	<0.0071	<0.0076	<0.0049	<0.0040	<0.0042	<0.0055	<0.0043	<0.0038	<0.0041	<0.0204	<0.0061	<0.0071	<0.0049	<0.0045	<0.0050	<0.0056	<0.0036	<0.0038	<0.0062	<0.0066	<0.0071	<0.0051
Chloromethane	mg/kg	<0.0079	<0.0080	<0.0143	<0.0152	<0.0099	<0.0079	<0.0083	<0.0110	<0.0087	<0.0076	<0.0081	<0.0408	<0.0122	<0.0142	<0.0098	<0.0089	<0.0099	<0.0112	<0.0072	<0.0076	<0.0124	<0.0132	<0.0143	<0.0102
cis-1,2-Dichloroethene	mg/kg	<0.0040	<0.0040	<0.0071	<0.0076	<0.0049	<0.0040	<0.0042	<0.0055	<0.0043	<0.0038	<0.0041	<0.0204	<0.0061	<0.0071	<0.0049	<0.0045	<0.0050	<0.0056	<0.0036	<0.0038	<0.0062	<0.0066	<0.0071	<0.0051
cis-1,3-Dichloropropene	mg/kg	<0.0040	<0.0040	<0.0071	<0.0076	<0.0049	<0.0040	<0.0042	<0.0055	<0.0043	<0.0038	<0.0041	<0.0204	<0.0061	<0.0071	<0.0049	<0.0045	<0.0050	<0.0056	<0.0036	<0.0038	<0.0062	<0.0066	<0.0071	<0.0051
Dibromochloromethane	mg/kg	<0.0016	<0.0016	<0.0029	<0.0030	<0.0020	<0.0016	<0.0017	<0.0022	<0.0017	<0.0015	<0.0016	<0.0082	<0.0024	<0.0028	<0.0020	<0.0018	<0.0020	<0.0022	<0.0014	<0.0015	<0.0025	<0.0026	<0.0029	<0.0020
Dibromomethane	mg/kg	<0.0040	<0.0040	<0.0071	<0.0076	<0.0049	<0.0040	<0.0042	<0.0055	<0.0043	<0.0038	<0.0041	<0.0204	<0.0061	<0.0071	<0.0049	<0.0045	<0.0050	<0.0056	<0.0036	<0.0038	<0.0062	<0.0066	<0.0071	<0.0051
Dichlorodifluoromethane	mg/kg	<0.0079	<0.0080	<0.0143	<0.0152	<0.0099	<0.0079	<0.0083	<0.0110	<0.0087	<0.0076	<0.0081	<0.0408	<0.0122	<0.0142	<0.0098	<0.0089	<0.0099	<0.0112	<0.0072	<0.0076	<0.0124	<0.0132	<0.0143	<0.0102
Diethyl Ether	mg/kg	<0.0040	<0.0040	<0.0071	<0.0076	<0.0049	<0.0040	<0.0042	<0.0055	<0.0043	<0.0038	<0.0041	<0.0204	<0.0061	<0.0071	<0.0049	<0.0045	<0.0050	<0.0056	<0.0036	<0.0038	<0.0062	<0.0066	<0.0071	<0.0051
Di-isopropyl ether	mg/kg	<0.0040	<0.0040	<0.0071	<0.0076	<0.0049	<0.0040	<0.0042	<0.0055	<0.0043	<0.0038	<0.0041	<0.0204	<0.0061	<0.0071	<0.0049	<0.0045	<0.0050	<0.0056	<0.0036	<0.0038	<0.0062	<0.0066	<0.0071	<0.0051
Ethyl tertiary-butyl ether	mg/kg	<0.0040	<0.0040	<0.0071	<0.0076	<0.0049	<0.0040	<0.0042	<0.0055	<0.0043	<0.0038	<0.0041	<0.0204	<0.0061	<0.0071	<0.0049	<0.0045	<0.0050	<0.0056	<0.0036	<0.0038	<0.0062	<0.0066	<0.0071	<0.0051
Ethylbenzene	mg/kg	<0.0040	<0.0040	<0.0071	<0.0076	<0.0049	<0.0040	<0.0042	<0.0055	<0.0043	<0.0038	<0.0041	<0.0204	<0.0061	<0.0071	<0.0049	<0.0045	<0.0050	<0.0056	<0.0036	<0.0038	<0.0062	<0.0066	<0.0071	<0.0051
Hexachlorobutadiene	mg/kg	<0.0040	<0.0040	<0.0071	<0.0076	<0.0049	<0.0040	<0.0042	<0.0055	<0.0043	<0.0038	<0.0041	<0.0204	<0.0061	<0.0071	<0.0049	<0.0045	<0.0050	<0.0056	<0.0036	<0.0038	<0.0062	<0.0066	<0.0071	<0.0051
Isopropylbenzene	mg/kg	<0.0040	<0.0040	<0.0071	<0.0076	<0.0049	<0.0040	<0.0042	<0.0055	<0.0043	<0.0038	<0.0041	<0.0204	<0.0061	<0.0071	<0.0049	<0.0045	<0.0050	<0.0056	<0.0036	<0.0038	<0.0062	<0.0066	<0.0071	<0.0051
Methyl tert-Butyl Ether	mg/kg	<0.0040	<0.0040	<0.0071	<0.0076	<0.0049	<0.0040	<0.0042	<0.0055	<0.0043	<0.0038	<0.0041	<0.0204	<0.0061	<0.0071	<0.0049	<0.0045	<0.0050	<0.0056	<0.0036	<0.0038	<0.0062	<0.0066	<0.0071	<0.0051
Methylene Chloride	mg/kg	<0.0079	<0.0080	<0.0143	<0.0152	<0.0099	<0.0079	<0.0083	<0.0110	<0.0087	<0.0076	<0.0081	<0.0408	<0.0122	<0.0142	<0.0098	<0.0089	<0.0099	<0.0112	<0.0072	<0.0076	<0.0124	<0.0132	<0.0143	<0.0102
Naphthalene	mg/kg	<0.0040	<0.0040	<0.0071	<0.0076	0.125	<0.0040	<0.0042	<0.0055	<0.0043	<0.0038	<0.0041	<0.0204	<0.0061	<0.0071	0.0133	0.007	<0.0050	<0.0056	<0.0036	<0.0038	<0.0062	<0.0066	<0.0071	<0.0051
n-Butylbenzene	mg/kg	<0.0040	<0.0040	<0.0071	<0.0076	<0.0049	<0.0040	<0.0042	<0.0055	<0.0043	<0.0038	<0.0041	<0.0204	<0.0061	<0.0071	<0.0049	<0.0045	<0.0050	<0.0056	<0.0036	<0.0038	<0.0062	<0.0066	<0.0071	<0.0051
n-Propylbenzene	mg/kg	<0.0040	<0.0040	<0.0071	<0.0076	<0.0049	<0.0040	<0.0042	<0.0055	<0.0043	<0.0038	<0.0041	<0.0204	<0.0061	<0.0071	<0.0049	<0.0045	<0.0050	<0.0056	<0.0036	<0.0038	<0.0062	<0.0066	<0.0071	<0.0051
sec-Butylbenzene	mg/kg	<0.0040	<0.0040	<0.0071	<0.0076	<0.0049	<0.0040	<0.0042	<0.

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	E12 E12S11 1502290 Natural Sand/Gravel 29 - 31 2/19/2015	E12 E12S12S13 1502290 Natural Sand/Gravel 34 - 38 2/19/2015	E13 E13S01S02A 1501299 Fill 0 - 3.33 1/15/2015	E13 E13S02BS04A 1501299 Fill 3.33 - 6.66 1/15/2015	E13 E13S04BS05 1501299 Fill 6.66 - 10 1/15/2015	E13 E13S06 1501299 Natural Sand/Gravel 10 - 12 1/15/2015	E13 E13S07 1501299 Natural Clay 17 - 19 1/15/2015	E13 E13S08 1501299 Natural Clay 24 - 26 1/15/2015	E13 E13S09 1501299 Natural Sand/Gravel 29 - 31 1/15/2015	E13 E13S10 1501299 Natural Sand/Gravel 34 - 36 1/15/2015	E13 E13S11 1501299 Natural Sand/Gravel 36 - 38 1/15/2015	E14 E14S01S02A 1502394 Fill 0 - 3.3 2/26/2015	E14 E14S02BS04A 1502394 Fill 3.3 - 6.6 2/26/2015	E14 E14S04BS05 1502394 Fill 6.6 - 8.7 2/26/2015	E14 E14S06 1502407 Natural Organics 10 - 12 2/27/2015	E14 E14S07 1502407 Natural Organics 12 - 14 2/27/2015	E14 E14S08 1502407 Natural Sand/Gravel 14 - 16 2/27/2015	E14 E14S09 1502407 Natural Sand/Gravel 19 - 21 2/27/2015	E14 E14S10 1502407 Natural Sand/Gravel 24 - 26 2/27/2015	E14 E14S11 1502407 Natural Clay 29 - 31 2/27/2015	E14 E14S12S13 1502407 Natural Clay 34 - 38 2/27/2015	E15 E15S01S02A 1501299 Fill 0 - 3.33 1/15/2015	E15 E15S02BS04A 1501328 Fill 3.33 - 6.66 1/16/2015	E15 E15S04BS05 1501328 Fill 6.66 - 10 1/16/2015
Preliminary Disposal Facility Category		Uncontaminated	Uncontaminated	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	Uncontaminated	Uncontaminated	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A
Styrene	mg/kg	<0.0040	<0.0040	<0.0071	<0.0076	<0.0049	<0.0040	<0.0042	<0.0055	<0.0043	<0.0038	<0.0041	<0.0204	<0.0061	<0.0071	<0.0049	<0.0045	<0.0050	<0.0056	<0.0036	<0.0038	<0.0062	<0.0066	<0.0071	<0.0051
tert-Butylbenzene	mg/kg	<0.0040	<0.0040	<0.0071	<0.0076	<0.0049	<0.0040	<0.0042	<0.0055	<0.0043	<0.0038	<0.0041	<0.0204	<0.0061	<0.0071	<0.0049	<0.0045	<0.0050	<0.0056	<0.0036	<0.0038	<0.0062	<0.0066	<0.0071	<0.0051
Tertiary-amyl methyl ether	mg/kg	<0.0040	<0.0040	<0.0071	<0.0076	<0.0049	<0.0040	<0.0042	<0.0055	<0.0043	<0.0038	<0.0041	<0.0204	<0.0061	<0.0071	<0.0049	<0.0045	<0.0050	<0.0056	<0.0036	<0.0038	<0.0062	<0.0066	<0.0071	<0.0051
Tetrachloroethene	mg/kg	<0.0040	<0.0040	<0.0071	<0.0076	<0.0049	<0.0040	<0.0042	<0.0055	<0.0043	<0.0038	<0.0041	<0.0204	<0.0061	<0.0071	<0.0049	<0.0045	<0.0050	<0.0056	<0.0036	<0.0038	<0.0062	<0.0066	<0.0071	<0.0051
Tetrahydrofuran	mg/kg	<0.0040	<0.0040	<0.0071	<0.0076	<0.0049	<0.0040	<0.0042	<0.0055	<0.0043	<0.0038	<0.0041	<0.0204	<0.0061	<0.0071	<0.0049	<0.0045	<0.0050	<0.0056	<0.0036	<0.0038	<0.0062	<0.0066	<0.0071	<0.0051
Toluene	mg/kg	<0.0040	<0.0040	<0.0071	<0.0076	<0.0049	<0.0040	<0.0042	<0.0055	<0.0043	<0.0038	<0.0041	<0.0204	<0.0061	<0.0071	<0.0049	<0.0045	<0.0050	<0.0056	<0.0036	<0.0038	<0.0062	<0.0066	<0.0071	<0.0051
trans-1,2-Dichloroethene	mg/kg	<0.0040	<0.0040	<0.0071	<0.0076	<0.0049	<0.0040	<0.0042	<0.0055	<0.0043	<0.0038	<0.0041	<0.0204	<0.0061	<0.0071	<0.0049	<0.0045	<0.0050	<0.0056	<0.0036	<0.0038	<0.0062	<0.0066	<0.0071	<0.0051
trans-1,3-Dichloropropene	mg/kg	<0.0040	<0.0040	<0.0071	<0.0076	<0.0049	<0.0040	<0.0042	<0.0055	<0.0043	<0.0038	<0.0041	<0.0204	<0.0061	<0.0071	<0.0049	<0.0045	<0.0050	<0.0056	<0.0036	<0.0038	<0.0062	<0.0066	<0.0071	<0.0051
Trichloroethene	mg/kg	<0.0040	<0.0040	<0.0071	<0.0076	<0.0049	<0.0040	<0.0042	<0.0055	<0.0043	<0.0038	<0.0041	<0.0204	<0.0061	<0.0071	<0.0049	<0.0045	<0.0050	<0.0056	<0.0036	<0.0038	<0.0062	<0.0066	<0.0071	<0.0051
Trichlorofluoromethane	mg/kg	<0.0040	<0.0040	<0.0071	<0.0076	<0.0049	<0.0040	<0.0042	<0.0055	<0.0043	<0.0038	<0.0041	<0.0204	<0.0061	<0.0071	<0.0049	<0.0045	<0.0050	<0.0056	<0.0036	<0.0038	<0.0062	<0.0066	<0.0071	<0.0051
Vinyl Chloride	mg/kg	<0.0079	<0.0080	<0.0143	<0.0152	<0.0099	<0.0079	<0.0083	<0.0110	<0.0087	<0.0076	<0.0081	<0.0408	<0.0122	<0.0142	<0.0098	<0.0089	<0.0099	<0.0112	<0.0072	<0.0076	<0.0124	<0.0132	<0.0143	<0.0102
Xylene O	mg/kg	<0.0040	<0.0040	<0.0071	<0.0076	<0.0049	<0.0040	<0.0042	<0.0055	<0.0043	<0.0038	<0.0041	<0.0204	<0.0061	<0.0071	<0.0049	<0.0045	<0.0050	<0.0056	<0.0036	<0.0038	<0.0062	<0.0066	<0.0071	<0.0051
Xylene P,M	mg/kg	<0.0079	<0.0080	<0.0143	<0.0152	<0.0099	<0.0079	<0.0083	<0.0110	<0.0087	<0.0076	<0.0081	<0.0408	<0.0122	<0.0142	<0.0098	<0.0089	<0.0099	<0.0112	<0.0072	<0.0076	<0.0124	<0.0132	<0.0143	<0.0102
Xylenes (Total)	mg/kg	<0.0079	<0.0080	<0.0143	<0.0152	<0.0099	<0.0079	<0.0083	<0.0110	<0.0087	<0.0076	<0.0081	<0.0408	<0.0122	<0.0142	<0.0098	<0.0089	<0.0099	<0.0112	<0.0072	<0.0076	<0.0124	<0.0132	<0.0143	<0.0102
Total VOCs (Low Level)	mg/kg	ND	ND	0.0351	ND	0.14	0.0259	0.0151	0.0118	ND	ND	0.0102	ND	ND	0.1277	0.0728	0.0307	0.023	0.137	1.263	0.5124	0.2643	ND	ND	0.0506
Semi-Volatile Organic Compounds																									
1,2,4-Trichlorobenzene	mg/kg	<0.988	<0.973	<0.882	<0.824	<0.965	<0.996	<1.05	<1.08	<0.996	<0.994	<0.964	<0.854	<0.866	<0.898	<1.05	<1.00	<0.910	<0.956	<0.966	<1.03	<1.09	<0.847	<0.854	<0.940
1,2-Dichlorobenzene	mg/kg	<0.988	<0.973	<0.882	<0.824	<0.965	<0.996	<1.05	<1.08	<0.996	<0.994	<0.964	<0.854	<0.866	<0.898	<1.05	<1.00	<0.910	<0.956	<0.966	<1.03	<1.09	<0.847	<0.854	<0.940
1,3-Dichlorobenzene	mg/kg	<0.988	<0.973	<0.882	<0.824	<0.965	<0.996	<1.05	<1.08	<0.996	<0.994	<0.964	<0.854	<0.866	<0.898	<1.05	<1.00	<0.910	<0.956	<0.966	<1.03	<1.09	<0.847	<0.854	<0.940
1,4-Dichlorobenzene	mg/kg	<0.496	<0.488	<0.442	<0.413	<0.484	<0.500	<0.528	<0.540	<0.499	<0.499	<0.483	<0.428	<0.434	<0.451	<0.528	<0.503	<0.457	<0.479	<0.485	<0.515	<0.548	<0.425	<0.428	<0.471
2,4,5-Trichlorophenol	mg/kg	<0.988	<0.973	<0.882	<0.824	<0.965	<0.996	<1.05	<1.08	<0.996	<0.994	<0.964	<0.854	<0.866	<0.898	<1.05	<1.00	<0.910	<0.956	<0.966	<1.03	<1.09	<0.847	<0.854	<0.940
2,4,6-Trichlorophenol	mg/kg	<0.988	<0.973	<0.882	<0.824	<0.965	<0.996	<1.05	<1.08	<0.996	<0.994	<0.964	<0.854	<0.866	<0.898	<1.05	<1.00	<0.910	<0.956	<0.966	<1.03	<1.09	<0.847	<0.854	<0.940
2,4-Dichlorophenol	mg/kg	<0.988	<0.973	<0.882	<0.824	<0.965	<0.996	<1.05	<1.08	<0.996	<0.994	<0.964	<0.854	<0.866	<0.898	<1.05	<1.00	<0.910	<0.956	<0.966	<1.03	<1.09	<0.847	<0.854	<0.940
2,4-Dimethylphenol	mg/kg	<0.988	<0.973	<0.882	<0.824	<0.965	<0.996	<1.05	<1.08	<0.996	<0.994	<0.964	<0.854	<0.866	<0.898	<1.05	<1.00	<0.910	<0.956	<0.966	<1.03	<1.09	<0.847	<0.854	<0.940
2,4-Dinitrophenol	mg/kg	<4.96	<4.88	<4.42	<4.13	<4.84	<5.00	<5.28	<5.40	<4.99	<4.99	<4.83	<4.28	<4.34	<4.51	<5.28	<5.03	<4.57	<4.79	<4.85	<5.15	<5.48	<4.25	<4.28	<4.71
2,4-Dinitrotoluene	mg/kg	<0.988	<0.973	<0.882	<0.824	<0.965	<0.996	<1.05	<1.08	<0.996	<0.994	<0.964	<0.854	<0.866	<0.898	<1.05	<1.00	<0.910	<0.956	<0.966	<1.03	<1.09	<0.847	<0.854	<0.940
2,6-Dinitrotoluene	mg/kg	<0.988	<0.973	<0.882	<0.824	<0.965	<0.996	<1.05	<1.08	<0.996	<0.994	<0.964	<0.854	<0.866	<0.898	<1.05	<1.00	<0.910	<0.956	<0.966	<1.03	<1.09	<0.847	<0.854	<0.940
2-Chloronaphthalene	mg/kg	<0.988	<0.973	<0.882	<0.824	<0.965	<0.996	<1.05	<1.08	<0.996	<0.994	<0.964	<0.854	<0.866	<0.898	<1.05	<1.00	<0.910	<0.956	<0.966	<1.03	<1.09	<0.847	<0.854	<0.940
2-Chlorophenol	mg/kg	<0.988	<0.973	<0.882	<0.824	<0.965	<0.996	<1.05	<1.08	<0.996	<0.994	<0.964	<0.854	<0.866	<0.898	<1.05	<1.00	<0.910	<0.956	<0.966	<1.03	<1.09	<0.847	<0.854	<0.940
2-Methylnaphthalene	mg/kg	<0.988	<0.973	<0.882	<0.824	11.5	<0.996	<1.05	<1.08	<0.996	<0.994	<0.964	<0.854	<0.866	<0.898	<1.05	<1.00	<0.910	<0.956	<0.966	<1.03	<1.09	<0.847	<0.854	<0.940
2-Methylphenol	mg/kg	<0.988	<0.973	<0.882	<0.824	<0.965	<0.996	<1.05	<1.08	<0.996	<0.994	<0.964	<0.854	<0.866	<0.898	<1.05	<1.00	<0.910	<0.956	<0.966	<1.03	<1.09	<0.847	<0.854	<0.940
2-Nitrophenol	mg/kg	<0.988	<0.973	<0.882	<0.824	<0.965	<0.996	<1.05	<1.08	<0.996	<0.994	<0.964	<0.854	<0.866	<0.898	<1.05	<1.00	<0.910	<0.956	<0.966	<1.03	<1.09	<0.847	<0.854	<0.940
3,3´-Dichlorobenzidine	mg/kg	<1.98	<1.95	<1.77	<1.65	<1.93	<2.00	<2.11	<2.16	<1.99	<1.99	<1.93	<1.71	<1.73	<1.80	<2.11	<2.01	<1.82	<1.91	<1.94	<2.06	<2.19	<1.70	<1.71	<1.88
3+4-Methylphenol	mg/kg	<1.98	<1.95	<1.77	<1.65	<1.93	<2.00	<2.11	<2.16	<1.99	<1.99	<1.93	<1.71	<1.73	<1.80	<2.11	<2.01	<1.82	<1.91	<1.94	<2.06	<2.19	<1.70	<1.71	<1.88
4-Bromophenyl-phenylether	mg/kg	<0.988	<0.973	<0.882	<0.824	<0.965	<0.996	<1.05	<1.08	<0.996	<0.994	<0.964	<0.854	<0.866	<0.898	<1.05	<1.00	<0.910	<0.956	<0.966	<1.03	<1.09	<0.847	<0.854	<0.940
4-Chloroaniline	mg/kg	<1.98	<1.95	<1.77	<1.65	<1.93	<2.00	<2.11	<2.16	<1.99	<1.99	<1.93	<1.71	<1.73	<1.80	<2.11	<2.01	<1.82	<1.91	<1.94	<2.06	<2.19	<1.70	<1.71	<1.88
4-Nitrophenol	mg/kg	<4.96	<4.88	<4.42	<4.13	<4.84	<5.00	<5.28	<5.40	<4.99	<4.99	<4.83	<4.28	<4.34	<4.51	<5.28	<5.03	<4.57	<4.79	<4.85	<5.15	<5.48	<4.25	<4.28	<4.71
Acenaphthene	mg/kg	<0.988	<0.973	<0.882	<0.824	9.33	<0.996	<1.05	<1.08	<0.996	<0.994	<0.964	<0.854	<0.866	<0.898	<1.05	<1.00	<0.910	<0.956	<0.966	<1.03	<1.09	<0.847	<0.854	<0.940
Acenaphthylene	mg/kg	<0.988	<0.973	<0.882	<0.824	9.42	<0.996	<1.05	<1.08	<0.996	<0.994	<0.964	<0.854	<0.866	<0.898	<1.05	<1.00	<0.910	<0.956	<0.966	<1.03	<1.09	<0.847	<0.854	<0.940
Acetophenone	mg/kg	<1.98	<1.95	<1.77	<1.65	<1.93	<2.00	<2.11	<2.16	<1.99	<1.99	<1.93	<1.71	<1.73	<1.80	<2.11	<2.01	<1.82	<1.91	<1.94	<2.06	<2.19	<1.70	<1.71	<1.88
Aniline	mg/kg	<4.96	<4.88	<4.42	<4.13	<4.84	<5.00	<5.28	<5.40	<4.99	<4.99	<4.83	<4.28	<4.34	<4.51	<5.28	<5.03	<4.57	<4.79	<4.85	<5.15	<5.48	<4.25	<4.28	<4.71
Anthracene	mg/kg	<0.988	<0.973	<0.882	<0.824	40.6	<0.996	<1.05	<1.08	<0.996	<0.994	<0.964	<0.854	<0.866	<0.898	<1.05	<1.00	<0.910	<0.956	<0.966	<1.03	<1.09	<0.847	<0.854	<0.940
Azobenzene	mg/kg	<0.988	<0.973	<0.882	<0.824	<0.965	<0.996	<1.05	<1.08	<0.996	<0.994	<0.964	<0.854	<0.866	<0.898	<1.05	<1.00	<0.910	<0.956	<0.966	<1.03	<1.09	<0.847	<0.854	<0.940
Benzo(a)anthracene	mg/kg	<0.988	<0.973	<0.882	<0.824	69.9	<0.996	<1.05	<1.08	<0.996	<0.994	<0.964	<0.854	<0.866	<0.898	<1.05	<1.00	<0.910	<0.956	<0.966	<1.03	<1.09	<0.847	<0.854	<0.940
Benzo(a)pyrene	mg/kg	<0.496	<0.488	<0.442	0.709	47.3	<0.500	<0.528	<0.540	<0.499	<0.499	<0.483	<0.428	<0.434	0.615	<0.528	<0.503	<0.457	<0.479	<0.485	<0.515	<0.548	<0.425	<0.428	<0.471
Benzo(b)fluoranthene	mg/kg	<0.988	<0.973	<0.882	1.22	61.4	<0.996	<1.05	<1.08	<0.996	<0.994	<0.964	<0.854	<0.866	0.952	<1.05	<1.00	<0.910	<0.956	<0.966	<1.03	<1.09	<0.847	<0.854	<0.940
Benzo(g,h,i)perylene	mg/kg	<0.988	<0.973	<0.882	<0.824	10.1	<0.996	<1.05	<1.08	<0.996	<0.994	<0.964	<0.854	<0.866	<0.898	<1.05	<1.00	<0.910	<0.956	<0.966	<1.03	<1.09	<0.847	<0.854	<0.940
Benzo(k)fluoranthene	mg/kg	<0.988	<0.973	<0.882	<0.824	16.2	<0.996	<1.05	<1.08	<0.996	<0.994	<0.964	<0.854	<0.866	<0.898	<1.05	<1.00	<0.910	<0.956	<0.966	<1.03	<1.09	<0.847	<0.854	<0.940
bis(2-Chloroethoxy)methane	mg/kg	<0.988	<0.973	<0.882	<0.824	<0.965	<0.996	<1.05	<1.08	<0.996	<0.994	<0.964	<0.854	<0.866	<0.898	<1.05	<1.00	<0.910	<0.956	<0.966	<1.03	<1.09	<0.847	<0.854	<0.940
bis(2-Chloroethyl)ether	mg/kg	<0.496	<0.488	<0.442	<0.413	<0.484	<0.500	<0.528	<0.540	<0.499	<0.499	<0.483	<0.428	<0.434	<0.451	<0.528	<0.503	<0.457	<0.479	<0.485	<0.515	<0.548	<0.425	<0.428	<0.471
bis(2-chloroisopropyl)Ether	mg/kg	<0.496	<0.488	<0.442	<0.413	<0.484	<0.500	<0.528	<0.540	<0.499	<0.499	<0.483	<0.428	<0.434	<0.451	<0.528	<0.503	<0.457	<0.479	<0.485	<0.515	<0.548	<0.425	<0.428	<0.471
bis(2-Ethylhexyl)phthalate	mg/kg	<0.988	<0.973	<0.882	<0.824	<0.965	<0.996	<1.05	<1.08	<0.996	<0.994	<0.964	<0.854	<0.866	1.48	<1.05	<1.00	<0.910	<0.956	<0.966	<1.03	<1.09	2.38	<0.854	<0.940
Butylbenzylphthalate	mg/kg	<0.988	<0.973	<0.882	<0.824	<0.965	<0.996	<1.05	<1.08	<0.996	<0.994	<0.964	<0.854	<0.866	<0.898	<1.05	<1.00	<0.910	<0.956	<0.966	<1.03	<1.09	<0.847	<0.854	<0.940
Chrysene	mg/kg	<0.496	<0.488	<0.442	0.716	65.5	<0.500	<0.528	<0.540	<0.499	<0.499	<0.483	<0.428	<0.434	0.862	<0.528	<0.503	<0.457	<0.479	<0.485	<0.515	<0.548	<0.425	<0.428	<0.471
Dibenzo(a,h)Anthracene	mg/kg	<0.496	<0.488	<0.442	<0.413	5.33	<0.500	<0.528	<0.540	<0.499	<0.499	<0.483	<0.428	<0.434	<0.451	<0.528	<0.503	<0.457	<0.479	<0.485	<0.515	<0.548	<0.425	<0.428	<0.471
Dibenzofuran	mg/kg	<0.988	<0.973	<0.882	<0.824	14.6	<0.996	<1.05	<1.08	<0.996	<0.994	<0.964	<0.854	<0.866	<0.898	<1.05	<1.00	<0.910	<0.956	<0.966	<1.03	<1.09	<0.847	<0.854	<0.940
Diethylphthalate	mg/kg	<0.988	<0.973	<0.882	<0.824	<0.965	<0.996	<1.05	<1.08	<0.996	<0.994	<0.964	<0.854	<0.866	<0.898	<1.05	<1.00	<0.910	<0.956	<0.966	<1.03	<1.09	<0.847	<0.854	<0.940
Dimethylphthalate	mg/kg	<0.988	<0.973	<0.882	<0.824	<0.965	<0.996	<1.05	<1.08	<0.996	<0.994	<0.964	<0.854	<0.866	<0.898	<1.05	<1.00	<0.910	<0.956	<0.966	<1.03	<1.09	<0.847	<0.854	<0.940
Di-n-butylphthalate	mg/kg	<0.988	<0.973	<0.882	<0.824	<0.965	<0.996	<1.05	<1.08	<0.996	<0.994	<0.964	<0.854	<0.866	<0.898	<1.05	<1.00	<0.910	<0.956	<0.966	<1.03	<1.09	<0.847	<0.854	<0.940
Di-n-octylphthalate	mg/kg	<0.988	<0.973	<0.882	<0.824	<0.965	<0.996	<1.05	<1.08	<0.996	<0.994	<0.964	<0.854	<0.866	<0.898	<1.05	<1.00	<0.910	<0.956	<0.966	<1.03	<1.09	<0.847	<0.854	<0.940
Fluoranthene	mg/kg	<0.988	<0.973	<0.882	1.6	135	<0.996	<1.05	<1.08	<0.996	<0.994	<0.964	<0.854	<0.866	1.17	<1.05	<1.00	<0.910	<0.956	<0.966	<1.03	<1.09	<0.847	<0.854	<0.940
Fluorene	mg/kg	<0.988	<0.973	<0.882	<0.824	20	<0.996	<1.05	<1.08	<0.996	<0.994	<0.964	<0.854	<0.866	<0.898	<1.05	<1.00	<0.910	<0.956	<0.966	<1.03	<1.09	<0.847	<0.854	<0.940
Hexachlorobenzene	mg/kg	<0.496	<0.488	<0.442	<0.413	<0.484	<0.500	<0.528	<0.540	<0.499	<0.499	<0.483	<0.428	<0.434	<0.451	<0.528	<0.503	<0.457	<0.479	<0.485	<0.515	<0.548	<0.425	<0.428	<0.471
Hexachlorobutadiene	mg/kg	<0.988	<0.973	<0.882	<0.824	<0.965	<0.996	<1.05	<1.08	<0.996	<0.994	<0.964	<0.854	<0.866	<0.898	<1.05	<1.00	<0.910	<0.956	<0.966	<1.03	<1.09	<0.847	<0.854	<0.940
Hexachloroethane	mg/kg	<0.988	<0.973	<0.882	<0.824	<0.965	<0.996	<1.05	<1.08	<0.996	<0.994	<0.964	<0.854	<0.866	<0.898	<1.05	<1.00	<0.910	<0.956	<0.966	<1.03	<1.09	<0.847	<0.854	<0.940
Indeno(1,2,3-cd)Pyrene	mg/kg	<0.988	<0.973	<0.882	<0.824	10.7	<0.996	<1.05	<1.08	<0.996	<0.994	<0.964	<0.854	<0.866	<0.898	<1.05	<1.00	<0.910	<0.956	<0.966	<1.03	<1.09	<0.847	<0.854	<0.940
Isophorone	mg/kg	<0.988	<0.973	<0.882	<0.824	<0.965	<0.996	<1.05	<1.08	<0.996	<0.994	<0.964	<0.854	<0.866	<0.898	<1.05	<1.00	<0.910	<0.956	<0.966	<1.03	<1.09	<0.847	<0.854	<0.940
Naphthalene	mg/kg	<0.988	<0.973	<0.882	<0.824	11.1	<0.996	<1.05	<1.08	<0.996	<0.994	<0.964	<0.854	<0.866	<0.898	<1.05	<1.00	<0.910	<0.956	<0.966	<1.03	<1.09	<0.847	<0.854	<0.940
Nitrobenzene	mg/kg	<0.988	<0.973	<0.882	<0.824	<0.965	<0.996	<1.05	<1.08	<0.996	<0.994	<0.964	<0.854	<0.866	<0.898	<1.05	<1.00	<0.910	<0.956	<0.966	<1.03	<1.09	<0.847	<0.854	<0.940
N-Nitrosodimethylamine	mg/kg	<0.988	<0.973	<0.882	<0.824	<0.965	<0.996	<1.05	<1.08	<0.996	<0.994	<0.964	<0.854	<0.866	<0.898	<1.05	<1.00	<0.910	<0.956	<0.966	<1.03	<1.09	<0.847	<0.854	<0.940
Pentachlorophenol	mg/kg	<4.96	<4.88	<4.42	<4.13	<4.84	<5.00	<5.28	<5.40	<4.99	<4.99	<4.83	<4.28	<4.34	<4.51	<5.28	<5.03	<4.57	<4.79	<4.85	<5.15	<5.48	<4.25	<4.28	<4.71
Phenanthrene	mg/kg	<0.988	<0.973	<0.882	1.57	128	<0.996	<1.05	<1.08	<0.996	<0.994	<0.964	<0.854	<0.866	<0.898	<1.05	<1.00	<0.910	<0.956	<0.966	<1.03	<1.09	<0.847	<0.854	<0.940
Phenol	mg/kg	<0.988	<0.973	<0.882	<0.824	<0.965	<0.996	<1.05	<1.08	<0.996	<0.994	<0.964	<0.854	<0.866	<0.898	<1.05	<1.00	<0.910	<0.956	<0.966	<1.03	<1.09	<0.847	<0.854	<0.940
Pyrene	mg/kg	<0.988	<0.973	<0.882	0.968	119	<0.996	<1.05	<1.08	<0.996	<0.994	<0.964	<0.854	<0.866	0.948	<1.05	<1.00	<0.910	<0.956	<0.966	<1.03	<1.09	<0.847	<0.854	<0.940
Total SVOCs	mg/kg	ND	ND	ND	6.783	784.98	ND	ND	ND	ND	ND	ND	ND	ND	6.027	ND	ND	ND	ND	ND	ND	ND	2.38	ND	ND
Classic Chemistry																									
Corrosivity (pH)	S.U.	4.63	4.8	8.41	8.63	6.79	6.1	4.8	4.92	5.06	4.98	4.94	8.94	8.76	7.91	4.78	4.77	4.87	4.05	3.45	3.72	5.9	8.78	8.67	7.93
Conductivity	umhos/cm	338	190	95	152	121	48	1860	1050	899	500	1400	100	83	188	791	976	335	3880	11900	9010	5810	161	1210	1090
Flashpoint	°F	--	--	>200	>200	>200	--	>200	--	--	--	--	>200	>200	>200	--	--	--	--	--	--	--	>200	>200	>200
Reactive Cyanide	mg/kg	--	--	<2.0	<2.0	<2.0	--	<2.0	--	--	--	--	<2.0	<2.0	<2.0	--	--	--	--	--	--	--	<2.0	<2.0	<2.0
Reactive Sulfide	mg/kg	--	--	<2.0	<2.0	<2.0	--	<2.0	--	--	--	--	<2.0	<2.0	<2.0	--	--	--	--	--	--	--	<2.0	<2.0	<2.0

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	E15 E15S06S07A 1501328 Fill 10 - 13.33 1/16/2015	E15 E15S07BS08A 1501328 Fill 13.33 - 16.66 1/16/2015	E15 E15S08BS09A 1501328 Fill 16.66 - 18 1/16/2015	E15 E15S09B 1501328 Natural Sand/Gravel 18 - 19 1/16/2015	E15 E15S10 1501328 Natural Sand/Gravel 24 - 26 1/16/2015	E15 E15S11 1501328 Natural Clay 29 - 31 1/16/2015	E15 E15S12S13 1501328 Natural Clay 34 - 38 1/16/2015	E16 E16S01S02A 1502406 Fill 0 - 3.3 2/27/2015	E16 E16S02BS04A 1502406 Fill 3.3 - 6.6 2/27/2015	E16 E16S04BS05 1502406 Fill 6.6 - 10 2/27/2015	E16 E16S06S07A 1502406 Fill 10 - 13 2/27/2015	E16 E16S07BS08 1502406 Natural Sand/Gravel 13 - 16 2/27/2015	E16 E16S09 1502406 Natural Sand/Gravel 19 - 21 2/27/2015	E16 E16S10 1502406 Natural Sand/Gravel 24 - 26 2/27/2015	E16 E16S11 1502406 Natural Sand/Gravel 29 - 31 2/27/2015	E16 E16S12S13 1502406 Natural Sand/Gravel 34 - 38 2/27/2015	E17 E17S01S08 1501358 Natural Organics 19 - 21 1/19/2015	E17 E17S01S02A 1501358 Fill 0 - 3.33 1/19/2015	E17 E17S02BS04A 1501358 Fill 3.33 - 6.66 1/19/2015	E17 E17S04BS05 1501358 Fill 6.66 - 10 1/19/2015	E17 E17S06S07 1501358 Fill 10 - 14 1/19/2015	E17 E17S09 1501358 Natural Organics 24 - 26 1/19/2015	E17 E17S10 1501358 Natural Sand/Gravel 29 - 31 1/19/2015	E17 E17S11 1501358 Natural Clay 34 - 36 1/19/2015
Preliminary Disposal Facility Category		Hazardous Material Type B	Hazardous Material Type A	Hazardous Material Type B	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type B	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	Hazardous Material Type B	MCP Regulated Type A	MCP Regulated Type B-1
RCRA 8 Metals	**Units**																								
Arsenic	mg/kg	73.8	105	105	28.9	23	33	14.3	20	12.3	90.2	113	17.1	12.6	102	11.5	7.79	19.8	10.2	6.24	125	37.8	812	14.1	12.9
Barium	mg/kg	41.7	81.2	66.9	<7.31	<7.56	92.9	119	52.7	17.2	197	213	21.2	8.97	158	12.2	8.39	33	16.7	14.9	151	24.4	97.5	22.3	110
Cadmium	mg/kg	9.62	13.1	9.13	<1.46	<1.51	<1.53	<1.71	<1.81	<1.39	<1.68	<1.51	<1.57	<1.51	<3.60	<1.39	<1.47	1.65	<1.29	<1.18	1.88	<1.63	9.64	<1.47	<1.65
Chromium	mg/kg	8.93	19.1	15.5	8.94	7.92	52.7	61.5	59.2	19.6	14.2	8.7	19.1	6.84	57.1	14.5	11.8	20.8	21.5	17.7	20.8	10.1	53.3	<2.94	59.5
Lead	mg/kg	2640	4220	1560	82	<15.1	16.6	17.9	194	22.7	734	2720	70.2	113	137	47.2	<14.7	118	<12.9	<11.8	821	165	1010	23.1	17.3
Selenium	mg/kg	<7.73	<8.77	<8.76	<14.6	<15.1	<7.67	<8.56	<7.24	<6.94	<8.38	<7.56	<7.87	<7.56	<7.20	<6.97	<7.36	<7.24	<6.45	<5.88	<7.79	<16.3	35.2	<14.7	<8.23
Silver	mg/kg	3.29	2.77	4.4	<1.46	<1.51	<1.53	<1.71	<1.81	<1.39	7.67	11.2	<1.57	6.49	<1.80	<1.39	<1.47	<1.45	<1.29	<1.18	7.94	<1.63	2.53	<1.47	<1.65
Mercury	mg/kg	0.374	6.97	1.51	2.29	0.121	<0.039	<0.041	<0.037	<0.030	0.259	0.524	0.189	<0.035	<0.033	0.205	<0.032	0.405	<0.032	<0.024	0.166	0.141	2.3	0.041	<0.037
Metals by Toxicity Characteristic Leaching Procedure (TCLP)																									
Arsenic	mg/L	--	0.14	0.05	--	--	--	--	--	--	--	<0.500	--	--	<0.500	--	--	--	--	--	<0.050	--	10.2	--	--
Cadmium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead	mg/L	53.2	2.78	8.98	--	--	--	--	<0.500	--	<0.500	7.64	--	<0.500	<0.500	--	--	0.92	--	--	0.385	1.42	<0.050	--	--
Selenium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<1.00	--	--
Mercury	mg/L	--	0.00155	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Herbicides																									
2,4,5-T	mg/kg	<0.063	<0.065	<0.066	--	--	--	<0.067	<0.089	<0.043	<0.10	<0.11	<0.056	--	--	--	--	<0.054	<0.045	<0.043	<0.48	--	--	--	--
2,4-D	mg/kg	<0.063	<0.065	<0.066	--	--	--	<0.067	<0.44	<0.21	<0.51	<0.55	<0.28	--	--	--	--	<0.27	<0.22	<0.22	<2.4	--	--	--	--
2,4-DB	mg/kg	<0.063	<0.065	<0.066	--	--	--	<0.067	<0.033	<0.016	<0.038	<0.041	<0.021	--	--	--	--	<0.020	<0.017	<0.016	<0.18	--	--	--	--
Dalapon	mg/kg	<0.75	<0.78	<0.79	--	--	--	<0.81	<2.7	<1.3	<3.1	<3.3	<1.7	--	--	--	--	<1.6	<1.3	<1.3	<14	--	--	--	--
Dicamba	mg/kg	<0.063	<0.065	<0.066	--	--	--	<0.067	<0.13	<0.064	<0.15	<0.16	<0.084	--	--	--	--	<0.082	<0.067	<0.065	<0.72	--	--	--	--
Dichlorprop	mg/kg	<0.063	<0.065	<0.066	--	--	--	<0.067	<0.29	<0.14	<0.33	<0.36	<0.18	--	--	--	--	<0.18	<0.15	<0.14	<1.6	--	--	--	--
Dinoseb	mg/kg	<0.38	<0.39	<0.39	--	--	--	<0.40	<0.44	<0.21	<0.51	<0.55	<0.28	--	--	--	--	<0.27	<0.22	<0.22	<2.4	--	--	--	--
MCPA	mg/kg	<15	<16	<16	--	--	--	<16	<110	<53	<130	<140	<70	--	--	--	--	<68	<56	<54	<600	--	--	--	--
MCPP	mg/kg	<15	<16	<16	--	--	--	<16	<110	<53	<130	<140	<70	--	--	--	--	<68	<56	<54	<600	--	--	--	--
Silvex (2,4,5-TP)	mg/kg	<0.063	<0.065	<0.066	--	--	--	<0.067	<0.089	<0.043	<0.10	<0.11	<0.056	--	--	--	--	<0.054	<0.045	<0.043	<0.48	--	--	--	--
Pesticides																									
4,4'-DDD	mg/kg	<0.011	<0.0045	<0.0045	--	--	--	<0.0023	<0.0018	<0.0018	<0.0043	<0.011	<0.0023	--	--	--	--	<0.0023	<0.0019	<0.0018	<0.020	--	--	--	--
4,4'-DDE	mg/kg	<0.011	<0.0045	<0.0045	--	--	--	<0.0023	<0.0018	<0.0018	<0.0043	<0.011	<0.0023	--	--	--	--	<0.0023	<0.0019	<0.0018	<0.020	--	--	--	--
4,4'-DDT	mg/kg	<0.011	<0.0045	<0.0045	--	--	--	<0.0023	<0.0018	<0.0018	<0.0043	<0.011	<0.0023	--	--	--	--	<0.0023	<0.0019	<0.0018	<0.020	--	--	--	--
Aldrin	mg/kg	<0.011	<0.0045	<0.0045	--	--	--	<0.0023	<0.0018	<0.0018	<0.0043	<0.011	<0.0023	--	--	--	--	<0.0023	<0.0019	<0.0018	<0.020	--	--	--	--
alpha-BHC	mg/kg	<0.011	<0.0045	<0.0045	--	--	--	<0.0023	<0.0018	<0.0018	<0.0043	<0.011	<0.0023	--	--	--	--	<0.0023	<0.0019	<0.0018	<0.020	--	--	--	--
beta-BHC	mg/kg	<0.011	<0.0045	<0.0045	--	--	--	<0.0023	<0.0018	<0.0018	<0.0043	<0.011	<0.0023	--	--	--	--	<0.0023	<0.0019	<0.0018	<0.020	--	--	--	--
Chlordane (technical)	mg/kg	<0.11	<0.045	<0.045	--	--	--	<0.023	<0.018	<0.018	<0.043	<0.11	<0.023	--	--	--	--	<0.023	<0.019	<0.018	<0.20	--	--	--	--
delta-BHC	mg/kg	<0.011	<0.0045	<0.0045	--	--	--	<0.0023	<0.0018	<0.0018	<0.0043	<0.011	<0.0023	--	--	--	--	<0.0023	<0.0019	<0.0018	<0.020	--	--	--	--
Dieldrin	mg/kg	<0.011	<0.0045	<0.0045	--	--	--	<0.0023	<0.0018	<0.0018	<0.0043	<0.011	<0.0023	--	--	--	--	<0.0023	<0.0019	<0.0018	<0.020	--	--	--	--
Endosulfan I	mg/kg	<0.011	<0.0045	<0.0045	--	--	--	<0.0023	<0.0018	<0.0018	<0.0043	<0.011	<0.0023	--	--	--	--	<0.0023	<0.0019	<0.0018	<0.020	--	--	--	--
Endosulfan II	mg/kg	<0.011	<0.0045	<0.0045	--	--	--	<0.0023	<0.0018	<0.0018	<0.0043	<0.011	<0.0023	--	--	--	--	<0.0023	<0.0019	<0.0018	<0.020	--	--	--	--
Endosulfan sulfate	mg/kg	<0.011	<0.0045	<0.0045	--	--	--	<0.0023	<0.0018	<0.0018	<0.0043	<0.011	<0.0023	--	--	--	--	<0.0023	<0.0019	<0.0018	<0.020	--	--	--	--
Endrin	mg/kg	<0.011	<0.0045	<0.0045	--	--	--	<0.0023	<0.0018	<0.0018	<0.0043	<0.011	<0.0023	--	--	--	--	<0.0023	<0.0019	<0.0018	<0.020	--	--	--	--
Endrin ketone	mg/kg	<0.011	<0.0045	<0.0045	--	--	--	<0.0023	<0.0018	<0.0018	<0.0043	<0.011	<0.0023	--	--	--	--	<0.0023	<0.0019	<0.0018	<0.020	--	--	--	--
gamma-BHC (Lindane)	mg/kg	<0.011	<0.0045	<0.0045	--	--	--	<0.0023	<0.0018	<0.0018	<0.0043	<0.011	<0.0023	--	--	--	--	<0.0023	<0.0019	<0.0018	<0.020	--	--	--	--
Heptachlor	mg/kg	<0.011	<0.0045	<0.0045	--	--	--	<0.0023	<0.0018	<0.0018	<0.0043	<0.011	<0.0023	--	--	--	--	<0.0023	<0.0019	<0.0018	<0.020	--	--	--	--
Heptachlor epoxide	mg/kg	<0.011	<0.0045	<0.0045	--	--	--	<0.0023	<0.0018	<0.0018	<0.0043	<0.011	<0.0023	--	--	--	--	<0.0023	<0.0019	<0.0018	<0.020	--	--	--	--
Hexachlorobenzene	mg/kg	<0.011	<0.0045	<0.0045	--	--	--	<0.0023	<0.0018	<0.0018	<0.0043	<0.011	<0.0023	--	--	--	--	<0.0023	<0.0019	<0.0018	<0.020	--	--	--	--
Methoxychlor	mg/kg	<0.011	<0.0045	<0.0045	--	--	--	<0.0023	<0.0018	<0.0018	<0.0043	<0.011	<0.0023	--	--	--	--	<0.0023	<0.0019	<0.0018	<0.020	--	--	--	--
Polychlorinated Biphenyls																									
Aroclor 1016	mg/kg	<0.146	<0.174	<0.171	<0.143	<0.152	<0.155	<0.170	<0.138	<0.135	<0.156	<0.166	<0.154	<0.137	<0.137	<0.142	<0.142	<0.152	<0.123	<0.124	<0.132	<0.144	<0.187	<0.130	<0.159
Aroclor 1221	mg/kg	<0.146	<0.174	<0.171	<0.143	<0.152	<0.155	<0.170	<0.138	<0.135	<0.156	<0.166	<0.154	<0.137	<0.137	<0.142	<0.142	<0.152	<0.123	<0.124	<0.132	<0.144	<0.187	<0.130	<0.159
Aroclor 1232	mg/kg	<0.146	<0.174	<0.171	<0.143	<0.152	<0.155	<0.170	<0.138	<0.135	<0.156	<0.166	<0.154	<0.137	<0.137	<0.142	<0.142	<0.152	<0.123	<0.124	<0.132	<0.144	<0.187	<0.130	<0.159
Aroclor 1242	mg/kg	<0.146	<0.174	<0.171	<0.143	<0.152	<0.155	<0.170	<0.138	<0.135	<0.156	<0.166	<0.154	<0.137	<0.137	<0.142	<0.142	<0.152	<0.123	<0.124	<0.132	<0.144	<0.187	<0.130	<0.159
Aroclor 1248	mg/kg	<0.146	<0.174	<0.171	<0.143	<0.152	<0.155	<0.170	<0.138	<0.135	<0.156	<0.166	<0.154	<0.137	<0.137	<0.142	<0.142	<0.152	<0.123	<0.124	<0.132	<0.144	<0.187	<0.130	<0.159
Aroclor 1254	mg/kg	<0.146	<0.174	<0.171	<0.143	<0.152	<0.155	<0.170	<0.138	<0.135	<0.156	<0.166	<0.154	<0.137	<0.137	<0.142	<0.142	<0.152	<0.123	<0.124	<0.132	<0.144	<0.187	<0.130	<0.159
Aroclor 1260	mg/kg	<0.146	<0.174	<0.171	<0.143	<0.152	<0.155	<0.170	<0.138	<0.135	<0.156	<0.166	<0.154	<0.137	<0.137	<0.142	<0.142	<0.152	<0.123	<0.124	<0.132	<0.144	<0.187	<0.130	<0.159
Aroclor 1262	mg/kg	<0.146	<0.174	<0.171	<0.143	<0.152	<0.155	<0.170	<0.138	<0.135	<0.156	<0.166	<0.154	<0.137	<0.137	<0.142	<0.142	<0.152	<0.123	<0.124	<0.132	<0.144	<0.187	<0.130	<0.159
Aroclor 1268	mg/kg	<0.146	<0.174	<0.171	<0.143	<0.152	<0.155	<0.170	<0.138	<0.135	<0.156	<0.166	<0.154	<0.137	<0.137	<0.142	<0.142	<0.152	<0.123	<0.124	<0.132	<0.144	<0.187	<0.130	<0.159
Total PCBs	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Petroleum Hydrocarbons	mg/kg	365	141	132	<45.9	<48.1	<46.7	<49.3	117	<43.1	692	4760	1820	85.6	48.6	<40.9	<46.3	75.4	40.2	<44.3	619	<50.6	2910	<39.3	<48.7
Volatile Organic Compounds (VOCs)																									
1,1,1,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-Chloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane - Screen	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Butanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Isopropyltoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-Pentanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Disulfide	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	E15 E15S06S07A 1501328 Fill 10 - 13.33 1/16/2015	E15 E15S07BS08A 1501328 Fill 13.33 - 16.66 1/16/2015	E15 E15S08BS09A 1501328 Fill 16.66 - 18 1/16/2015	E15 E15S09B 1501328 Natural Sand/Gravel 18 - 19 1/16/2015	E15 E15S10 1501328 Natural Sand/Gravel 24 - 26 1/16/2015	E15 E15S11 1501328 Natural Clay 29 - 31 1/16/2015	E15 E15S12S13 1501328 Natural Clay 34 - 38 1/16/2015	E16 E16S01S02A 1502406 Fill 0 - 3.3 2/27/2015	E16 E16S02BS04A 1502406 Fill 3.3 - 6.6 2/27/2015	E16 E16S04BS05 1502406 Fill 6.6 - 10 2/27/2015	E16 E16S06S07A 1502406 Fill 10 - 13 2/27/2015	E16 E16S07BS08 1502406 Natural Sand/Gravel 13 - 16 2/27/2015	E16 E16S09 1502406 Natural Sand/Gravel 19 - 21 2/27/2015	E16 E16S10 1502406 Natural Sand/Gravel 24 - 26 2/27/2015	E16 E16S11 1502406 Natural Sand/Gravel 29 - 31 2/27/2015	E16 E16S12S13 1502406 Natural Sand/Gravel 34 - 38 2/27/2015	E17 E17S08 1501358 Natural Organics 19 - 21 1/19/2015	E17 E17S01S02A 1501358 Fill 0 - 3.33 1/19/2015	E17 E17S02BS04A 1501358 Fill 3.33 - 6.66 1/19/2015	E17 E17S04BS05 1501358 Fill 6.66 - 10 1/19/2015	E17 E17S06S07 1501358 Fill 10 - 14 1/19/2015	E17 E17S09 1501358 Natural Organics 24 - 26 1/19/2015	E17 E17S10 1501358 Natural Sand/Gravel 29 - 31 1/19/2015	E17 E17S11 1501358 Natural Clay 34 - 36 1/19/2015
Preliminary Disposal Facility Category		Hazardous Material Type B	Hazardous Material Type A	Hazardous Material Type B	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type B	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	Hazardous Material Type B	MCP Regulated Type A	MCP Regulated Type B-1
Chlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Diethyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Di-isopropyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethyl tertiary-butyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
tert-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tertiary-amyl methyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene O	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene P,M	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylenes (Total)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total VOCs	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds - Low Level Analysis																									
1,1,1,2-Tetrachloroethane	mg/kg	<0.0058	<0.0049	<0.0048	<0.0042	<0.0039	<0.0036	<0.0043	<0.0069	<0.0048	<0.0038	<0.0035	<0.0034	<0.0037	<0.0035	<0.0034	<0.0030	<0.0045	<0.0053	<0.0069	<0.0049	<0.0055	<0.0073	<0.0046	<0.0039
1,1,1-Trichloroethane	mg/kg	<0.0058	<0.0049	<0.0048	<0.0042	<0.0039	<0.0036	<0.0043	<0.0069	<0.0048	<0.0038	<0.0035	<0.0034	<0.0037	<0.0035	<0.0034	<0.0030	<0.0045	<0.0053	<0.0069	<0.0049	<0.0055	<0.0073	<0.0046	<0.0039
1,1,2,2-Tetrachloroethane	mg/kg	<0.0023	<0.0019	<0.0019	<0.0017	<0.0016	<0.0014	<0.0017	<0.0028	<0.0019	<0.0015	<0.0014	<0.0014	<0.0015	<0.0014	<0.0014	<0.0012	<0.0018	<0.0021	<0.0027	<0.0019	<0.0022	<0.0029	<0.0019	<0.0016
1,1,2-Trichloroethane	mg/kg	<0.0058	<0.0049	<0.0048	<0.0042	<0.0039	<0.0036	<0.0043	<0.0069	<0.0048	<0.0038	<0.0035	<0.0034	<0.0037	<0.0035	<0.0034	<0.0030	<0.0045	<0.0053	<0.0069	<0.0049	<0.0055	<0.0073	<0.0046	<0.0039
1,1-Dichloroethane	mg/kg	<0.0058	<0.0049	<0.0048	<0.0042	<0.0039	<0.0036	<0.0043	<0.0069	<0.0048	<0.0038	<0.0035	<0.0034	<0.0037	<0.0035	<0.0034	<0.0030	<0.0045	<0.0053	<0.0069	<0.0049	<0.0055	<0.0073	<0.0046	<0.0039
1,1-Dichloroethene	mg/kg	<0.0058	<0.0049	<0.0048	<0.0042	<0.0039	<0.0036	<0.0043	<0.0069	<0.0048	<0.0038	<0.0035	<0.0034	<0.0037	<0.0035	<0.0034	<0.0030	<0.0045	<0.0053	<0.0069	<0.0049	<0.0055	<0.0073	<0.0046	<0.0039
1,1-Dichloropropene	mg/kg	<0.0058	<0.0049	<0.0048	<0.0042	<0.0039	<0.0036	<0.0043	<0.0069	<0.0048	<0.0038	<0.0035	<0.0034	<0.0037	<0.0035	<0.0034	<0.0030	<0.0045	<0.0053	<0.0069	<0.0049	<0.0055	<0.0073	<0.0046	<0.0039
1,2,3-Trichlorobenzene	mg/kg	<0.0058	<0.0049	<0.0048	<0.0042	<0.0039	<0.0036	<0.0043	<0.0069	<0.0048	<0.0038	<0.0035	<0.0034	<0.0037	<0.0035	<0.0034	<0.0030	<0.0045	<0.0053	<0.0069	<0.0049	<0.0055	<0.0073	<0.0046	<0.0039
1,2,3-Trichloropropane	mg/kg	<0.0058	<0.0049	<0.0048	<0.0042	<0.0039	<0.0036	<0.0043	<0.0069	<0.0048	<0.0038	<0.0035	<0.0034	<0.0037	<0.0035	<0.0034	<0.0030	<0.0045	<0.0053	<0.0069	<0.0049	<0.0055	<0.0073	<0.0046	<0.0039
1,2,4-Trichlorobenzene	mg/kg	<0.0058	<0.0049	<0.0048	<0.0042	<0.0039	<0.0036	<0.0043	<0.0069	<0.0048	<0.0038	<0.0035	<0.0034	<0.0037	<0.0035	<0.0034	<0.0030	<0.0045	<0.0053	<0.0069	<0.0049	<0.0055	<0.0073	<0.0046	<0.0039
1,2,4-Trimethylbenzene	mg/kg	<0.0058	<0.0049	0.0062	<0.0042	<0.0039	<0.0036	<0.0043	<0.0069	<0.0048	<0.0038	<0.0035	<0.0034	<0.0037	<0.0035	<0.0034	<0.0030	<0.0045	<0.0053	<0.0069	<0.0049	<0.0055	0.168	<0.0046	<0.0039
1,2-Dibromo-3-Chloropropane	mg/kg	<0.0058	<0.0049	<0.0048	<0.0042	<0.0039	<0.0036	<0.0043	<0.0069	<0.0048	<0.0038	<0.0035	<0.0034	<0.0037	<0.0035	<0.0034	<0.0030	<0.0045	<0.0053	<0.0069	<0.0049	<0.0055	<0.0073	<0.0046	<0.0039
1,2-Dibromoethane	mg/kg	<0.0058	<0.0049	<0.0048	<0.0042	<0.0039	<0.0036	<0.0043	<0.0069	<0.0048	<0.0038	<0.0035	<0.0034	<0.0037	<0.0035	<0.0034	<0.0030	<0.0045	<0.0053	<0.0069	<0.0049	<0.0055	<0.0073	<0.0046	<0.0039
1,2-Dichlorobenzene	mg/kg	<0.0058	<0.0049	<0.0048	<0.0042	<0.0039	<0.0036	<0.0043	<0.0069	<0.0048	<0.0038	<0.0035	<0.0034	<0.0037	<0.0035	<0.0034	<0.0030	<0.0045	<0.0053	<0.0069	<0.0049	<0.0055	<0.0073	<0.0046	<0.0039
1,2-Dichloroethane	mg/kg	<0.0058	<0.0049	<0.0048	<0.0042	<0.0039	<0.0036	<0.0043	<0.0069	<0.0048	<0.0038	<0.0035	<0.0034	<0.0037	<0.0035	<0.0034	<0.0030	<0.0045	<0.0053	<0.0069	<0.0049	<0.0055	<0.0073	<0.0046	<0.0039
1,2-Dichloropropane	mg/kg	<0.0058	<0.0049	<0.0048	<0.0042	<0.0039	<0.0036	<0.0043	<0.0069	<0.0048	<0.0038	<0.0035	<0.0034	<0.0037	<0.0035	<0.0034	<0.0030	<0.0045	<0.0053	<0.0069	<0.0049	<0.0055	<0.0073	<0.0046	<0.0039
1,3,5-Trimethylbenzene	mg/kg	<0.0058	<0.0049	<0.0048	<0.0042	<0.0039	<0.0036	<0.0043	<0.0069	<0.0048	<0.0038	<0.0035	<0.0034	<0.0037	<0.0035	<0.0034	<0.0030	<0.0045	<0.0053	<0.0069	<0.0049	<0.0055	0.178	<0.0046	<0.0039
1,3-Dichlorobenzene	mg/kg	<0.0058	<0.0049	<0.0048	<0.0042	<0.0039	<0.0036	<0.0043	<0.0069	<0.0048	<0.0038	<0.0035	<0.0034	<0.0037	<0.0035	<0.0034	<0.0030	<0.0045	<0.0053	<0.0069	<0.0049	<0.0055	<0.0073	<0.0046	<0.0039
1,3-Dichloropropane	mg/kg	<0.0058	<0.0049	<0.0048	<0.0042	<0.0039	<0.0036	<0.0043	<0.0069	<0.0048	<0.0038	<0.0035	<0.0034	<0.0037	<0.0035	<0.0034	<0.0030	<0.0045	<0.0053	<0.0069	<0.0049	<0.0055	<0.0073	<0.0046	<0.0039
1,4-Dichlorobenzene	mg/kg	<0.0058	<0.0049	<0.0048	<0.0042	<0.0039	<0.0036	<0.0043	<0.0069	<0.0048	<0.0038	<0.0035	<0.0034	<0.0037	<0.0035	<0.0034	<0.0030	<0.0045	<0.0053	<0.0069	<0.0049	<0.0055	<0.0073	<0.0046	<0.0039
1,4-Dioxane	mg/kg	<0.116	<0.0972	<0.0964	<0.0843	<0.0778	<0.0716	<0.0870	<0.138	<0.0961	<0.0767	<0.0693	<0.0686	<0.0737	<0.0692	<0.0685	<0.0602	<0.0905	<0.106	<0.137	<0.0971	<0.109	<0.147	<0.0929	<0.0779
2,2-Dichloropropane	mg/kg	<0.0058	<0.0049	<0.0048	<0.0042	<0.0039	<0.0036	<0.0043	<0.0069	<0.0048	<0.0038	<0.0035	<0.0034	<0.0037	<0.0035	<0.0034	<0.0030	<0.0045	<0.0053	<0.0069	<0.0049	<0.0055	<0.0073	<0.0046	<0.0039
2-Butanone	mg/kg	<0.0116	<0.0097	<0.0096	<0.0084	<0.0078	0.0172	<0.0087	<0.0138	<0.0096	<0.0077	<0.0069	<0.0069	0.0141	<0.0069	<0.0069	<0.0060	<0.0090	<0.0106	<0.0137	<0.0097	<0.0109	0.0249	<0.0093	<0.0078
2-Chlorotoluene	mg/kg	<0.0058	<0.0049	<0.0048	<0.0042	<0.0039	<0.0036	<0.0043	<0.0069	<0.0048	<0.0038	<0.0035	<0.0034	<0.0037	<0.0035	<0.0034	<0.0030	<0.0045	<0.0053	<0.0069	<0.0049	<0.0055	<0.0073	<0.0046	<0.0039
2-Hexanone	mg/kg	<0.0116	<0.0097	<0.0096	<0.0084	<0.0078	<0.0072	<0.0087	<0.0138	<0.0096	<0.0077	<0.0069	<0.0069	<0.0074	<0.0069	<0.0069	<0.0060	<0.0090	<0.0106	<0.0137	<0.0097	<0.0109	<0.0147	<0.0093	<0.0078
4-Chlorotoluene	mg/kg	<0.0058	<0.0049	<0.0048	<0.0042	<0.0039	<0.0036	<0.0043	<0.0069	<0.0048	<0.0038	<0.0035	<0.0034	<0.0037	<0.0035	<0.0034	<0.0030	<0.0045	<0.0053	<0.0069	<0.0049	<0.0055	<0.0073	<0.0046	<0.0039
4-Isopropyltoluene	mg/kg	<0.0058	<0.0049	0.0464	<0.0042	0.0051	<0.0036	<0.0043	<0.0069	<0.0048	<0.0038	<0.0035	0.0051	<0.0037	<0.0035	<0.0034	<0.0030	<0.0045	<0.0053	<0.0069	<0.0049	<0.0055	0.0171	<0.0046	<0.0039
4-Methyl-2-Pentanone	mg/kg	<0.0116	<0.0097	<0.0096	<0.0084	<0.0078	<0.0072	<0.0087	<0.0138	<0.0096	<0.0077	<0.0069	<0.0069	<0.0074	<0.0069	<0.0069	<0.0060	<0.0090	<0.0106	<0.0137	<0.0097	<0.0109	<0.0147	<0.0093	<0.0078
Acetone	mg/kg	<0.0116	0.0372	<0.0096	<0.0084	<0.0078	0.195	0.0597	<0.0138	<0.0096	0.0136	0.0204	0.0496	0.0891	<0.0069	0.0106	0.0109	0.017	0.0577	<0.0137	0.051	0.0623	0.271	0.0278	0.0672
Benzene	mg/kg	<0.0058	<0.0049	<0.0048	<0.0042	<0.0039	<0.0036	<0.0043	<0.0069	<0.0048	<0.0038	<0.0035	<0.0034	<0.0037	<0.0035	<0.0034	<0.0030	<0.0045	<0.0053	<0.0069	<0.0049	<0.0055	0.0086	<0.0046	<0.0039
Bromobenzene	mg/kg	<0.0058	<0.0049	<0.0048	<0.0042	<0.0039	<0.0036	<0.0043	<0.0069	<0.0048	<0.0038	<0.0035	<0.0034	<0.0037	<0.0035	<0.0034	<0.0030	<0.0045	<0.0053	<0.0069	<0.0049	<0.0055	<0.0073	<0.0046	<0.0039
Bromochloromethane	mg/kg	<0.0058	<0.0049	<0.0048	<0.0042	<0.0039	<0.0036	<0.0043	<0.0069	<0.0048	<0.0038	<0.0035	<0.0034	<0.0037	<0.0035	<0.0034	<0.0030	<0.0045	<0.0053	<0.0069	<0.0049	<0.0055	<0.0073	<0.0046	<0.0039
Bromodichloromethane	mg/kg	<0.0058	<0.0049	<0.0048	<0.0042	<0.0039	<0.0036	<0.0043	<0.0069	<0.0048	<0.0038	<0.0035	<0.0034	<0.0037	<0.0035	<0.0034	<0.0030	<0.0045	<0.0053	<0.0069	<0.0049	<0.0055	<0.0073	<0.0046	<0.0039
Bromoform	mg/kg	<0.0058	<0.0049	<0.0048	<0.0042	<0.0039	<0.0036	<0.0043	<0.0069	<0.0048	<0.0038	<0.0035	<0.0034	<0.0037	<0.0035	<0.0034	<0.0030	<0.0045	<0.0053	<0.0069	<0.0049	<0.0055	<0.0073	<0.0046	<0.0039
Bromomethane	mg/kg	<0.0116	<0.0097	<0.0096	<0.0084	<0.0078	<0.0072	<0.0087	<0.0138	<0.0096	<0.0077	<0.0069	<0.0069	<0.0074	<0.0069	<0.0069	<0.0060	<0.0090	<0.0106	<0.0137	<0.0097	<0.0109	<0.0147	<0.0093	<0.0078
Carbon Disulfide	mg/kg	<0.0058	<0.0049	<0.0048	<0.0042	<0.0039	<0.0036	<0.0043	<0.0069	<0.0048	<0.0038	<0.0035	<0.0034	<0.0037	<0.0035	<0.0034	<0.0030	0.0076	<0.0053	<0.0069	<0.0049	<0.0055	0.0093	<0.0046	<0.0039
Carbon Tetrachloride	mg/kg	<0.0058	<0.0049	<0.0048	<0.0042	<0.0039	<0.0036	<0.0043	<0.0069	<0.0048	<0.0038	<0.0035	<0.0034	<0.0037	<0.0035	<0.0034	<0.0030	<0.0045	<0.0053	<0.0069	<0.0049	<0.0055	<0.0073	<0.0046	<0.0039
Chlorobenzene	mg/kg	<0.0058	<0.0049	<0.0048	<0.0042	<0.0039	<0.0036	<0.0043	<0.0069	<0.0048	<0.0038	<0.0035	<0.0034	<0.0037	<0.0035	<0.0034	<0.0030	<0.0045	<0.0053	<0.0069	<0.0049	<0.0055	<0.0073	<0.0046	<0.0039
Chloroethane	mg/kg	<0.0116	<0.0097	<0.0096	<0.0084	<0.0078	<0.0072	<0.0087	<0.0138	<0.0096	<0.0077	<0.0069	<0.0069	<0.0074	<0.0069	<0.0069	<0.0060	<0.0090	<0.0106	<0.0137	<0.0097	<0.0109	<0.0147	<0.0093	<0.0078
Chloroform	mg/kg	<0.0058	<0.0049	<0.0048	<0.0042	<0.0039	<0.0036	<0.0043	<0.0069	<0.0048	<0.0038	<0.0035	<0.0034	<0.0037	<0.0035	<0.0034	<0.0030	<0.0045	<0.0053	<0.0069	<0.0049	<0.0055	<0.0073	<0.0046	<0.0039
Chloromethane	mg/kg	<0.0116	<0.0097	<0.0096	<0.0084	<0.0078	<0.0072	<0.0087	<0.0138	<0.0096	<0.0077	<0.0069	<0.0069	<0.0074	<0.0069	<0.0069	<0.0060	<0.0090	<0.0106	<0.0137	<0.0097	<0.0109	<0.0147	<0.0093	<0.0078
cis-1,2-Dichloroethene	mg/kg	<0.0058	<0.0049	<0.0048	<0.0042	<0.0039	<0.0036	<0.0043	<0.0069	<0.0048	<0.0038	<0.0035	<0.0034	<0.0037	<0.0035	<0.0034	<0.0030	<0.0045	<0.0053	<0.0069	<0.0049	<0.0055	<0.0073	<0.0046	<0.0039
cis-1,3-Dichloropropene	mg/kg	<0.0058	<0.0049	<0.0048	<0.0042	<0.0039	<0.0036	<0.0043	<0.0069	<0.0048	<0.0038	<0.0035	<0.0034	<0.0037	<0.0035	<0.0034	<0.0030	<0.0045	<0.0053	<0.0069	<0.0049	<0.0055	<0.0073	<0.0046	<0.0039
Dibromochloromethane	mg/kg	<0.0023	<0.0019	<0.0019	<0.0017	<0.0016	<0.0014	<0.0017	<0.0028	<0.0019	<0.0015	<0.0014	<0.0014	<0.0015	<0.0014	<0.0014	<0.0012	<0.0018	<0.0021	<0.0027	<0.0019	<0.0022	<0.0029	<0.0019	<0.0016
Dibromomethane	mg/kg	<0.0058	<0.0049	<0.0048	<0.0042	<0.0039	<0.0036	<0.0043	<0.0069	<0.0048	<0.0038	<0.0035	<0.0034	<0.0037	<0.0035	<0.0034	<0.0030	<0.0045	<0.0053	<0.0069	<0.0049	<0.0055	<0.0073	<0.0046	<0.0039
Dichlorodifluoromethane	mg/kg	<0.0116	<0.0097	<0.0096	<0.0084	<0.0078	<0.0072	<0.0087	<0.0138	<0.0096	<0.0077	<0.0069	<0.0069	<0.0074	<0.0069	<0.0069	<0.0060	<0.0090	<0.0106	<0.0137	<0.0097	<0.0109	<0.0147	<0.0093	<0.0078
Diethyl Ether	mg/kg	<0.0058	<0.0049	<0.0048	<0.0042	<0.0039	<0.0036	<0.0043	<0.0069	<0.0048	<0.0038	<0.0035	<0.0034	<0.0037	<0.0035	<0.0034	<0.0030	<0.0045	<0.0053	<0.0069	<0.0049	<0.0055	<0.0073	<0.0046	<0.0039
Di-isopropyl ether	mg/kg	<0.0058	<0.0049	<0.0048	<0.0042	<0.0039	<0.0036	<0.0043	<0.0069	<0.0048	<0.0038	<0.0035	<0.0034	<0.0037	<0.0035	<0.0034	<0.0030	<0.0045	<0.0053	<0.0069	<0.0049	<0.0055	<0.0073	<0.0046	<0.0039
Ethyl tertiary-butyl ether	mg/kg	<0.0058	<0.0049	<0.0048	<0.0042	<0.0039	<0.0036	<0.0043	<0.0069	<0.0048	<0.0038	<0.0035	<0.0034	<0.0037	<0.0035	<0.0034	<0.0030	<0.0045	<0.0053	<0.0069	<0.0049	<0.0055	<0.0073	<0.0046	<0.0039
Ethylbenzene	mg/kg	<0.0058	<0.0049	<0.0048	<0.0042	<0.0039	<0.0036	<0.0043	<0.0069	<0.0048	<0.0038	<0.0035	<0.0034	<0.0037	<0.0035	<0.0034	<0.0030	<0.0045	<0.0053	<0.0069	<0.0049	<0.0055	0.161	<0.0046	<0.0039
Hexachlorobutadiene	mg/kg	<0.0058	<0.0049	<0.0048	<0.0042	<0.0039	<0.0036	<0.0043	<0.0069	<0.0048	<0.0038	<0.0035	<0.0034	<0.0037	<0.0035	<0.0034	<0.0030	<0.0045	<0.0053	<0.0069	<0.0049	<0.0055	<0.0073	<0.0046	<0.0039
Isopropylbenzene	mg/kg	<0.0058	<0.0049	<0.0048	<0.0042	<0.0039	<0.0036	<0.0043	<0.0069	<0.0048	<0.0038	<0.0035	<0.0034	<0.0037	<0.0035	<0.0034	<0.0030	<0.0045	<0.0053	<0.0069	<0.0049	<0.0055	0.167	<0.0046	<0.0039
Methyl tert-Butyl Ether	mg/kg	<0.0058	<0.0049	<0.0048	<0.0042	<0.0039	<0.0036	<0.0043	<0.0069	<0.0048	<0.0038	<0.0035	<0.0034	<0.0037	<0.0035	<0.0034	<0.0030	<0.0045	<0.0053	<0.0069	<0.0049	<0.0055	<0.0073	<0.0046	<0.0039
Methylene Chloride	mg/kg	<0.0116	<0.0097	<0.0096	<0.0084	<0.0078	<0.0072	<0.0087	<0.0138	<0.0096	<0.0077	<0.0069	<0.0069	<0.0074	<0.0069	<0.0069	<0.0060	<0.0090	<0.0106	<0.0137	<0.0097	<0.0109	<0.0147	<0.0093	<0.0078
Naphthalene	mg/kg	<0.0058	<0.0049	0.0092	<0.0042	<0.0039	<0.0036	<0.0043	<0.0069	<0.0048	<0.0038	<0.0035	<0.0034	<0.0037	<0.0035	<0.0034	0.0059	<0.0045	<0.0053	<0.0069	<0.0049	<0.0055	0.0806	<0.0046	<0.0039
n-Butylbenzene	mg/kg	<0.0058	<0.0049	<0.0048	<0.0042	<0.0039	<0.0036	<0.0043	<0.0069	<0.0048	<0.0038	<0.0035	<0.0034	<0.0037	<0.0035	<0.0034	<0.0030	<0.0045	<0.0053	<0.0069	<0.0049	<0.0055	<0.0073	<0.0046	<0.0039
n-Propylbenzene	mg/kg	<0.0058	<0.0049	<0.0048	<0.0042	<0.0039	<0.0036	<0.0043	<0.0069	<0.0048	<0.0038	<0.0035	<0.0034	<0.0037	<0.0035	<0.0034	<0.0030	<0.0045	<0.0053	<0.0069	<0.0049	<0.0055	0.144	<0.0046	<0.0039
sec-Butylbenzene	mg/kg	<0.0058	<0.0049	<0.0048	<0.0042	<0.0039	<0.0036	<0.0043	<0.0069	<0.0048	<0.0038	<0.0035	<0.0034	<0.0037	<0.0035	<0.0034	<0.0030	<0.0045	<0.0053	<0.0069	<0.0049	<0.0055	0.105	<0.0046	<0.0039

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	E15 E15S06S07A 1501328 Fill 10 - 13.33 1/16/2015	E15 E15S07BS08A 1501328 Fill 13.33 - 16.66 1/16/2015	E15 E15S08BS09A 1501328 Fill 16.66 - 18 1/16/2015	E15 E15S09B 1501328 Natural Sand/Gravel 18 - 19 1/16/2015	E15 E15S10 1501328 Natural Sand/Gravel 24 - 26 1/16/2015	E15 E15S11 1501328 Natural Clay 29 - 31 1/16/2015	E15 E15S12S13 1501328 Natural Clay 34 - 38 1/16/2015	E16 E16S01S02A 1502406 Fill 0 - 3.3 2/27/2015	E16 E16S02BS04A 1502406 Fill 3.3 - 6.6 2/27/2015	E16 E16S04BS05 1502406 Fill 6.6 - 10 2/27/2015	E16 E16S06S07A 1502406 Fill 10 - 13 2/27/2015	E16 E16S07BS08 1502406 Natural Sand/Gravel 13 - 16 2/27/2015	E16 E16S09 1502406 Natural Sand/Gravel 19 - 21 2/27/2015	E16 E16S10 1502406 Natural Sand/Gravel 24 - 26 2/27/2015	E16 E16S11 1502406 Natural Sand/Gravel 29 - 31 2/27/2015	E16 E16S12S13 1502406 Natural Sand/Gravel 34 - 38 2/27/2015	E17 E17S08 1501358 Natural Organics 19 - 21 1/19/2015	E17 E17S01S02A 1501358 Fill 0 - 3.33 1/19/2015	E17 E17S02BS04A 1501358 Fill 3.33 - 6.66 1/19/2015	E17 E17S04BS05 1501358 Fill 6.66 - 10 1/19/2015	E17 E17S06S07 1501358 Fill 10 - 14 1/19/2015	E17 E17S09 1501358 Natural Organics 24 - 26 1/19/2015	E17 E17S10 1501358 Natural Sand/Gravel 29 - 31 1/19/2015	E17 E17S11 1501358 Natural Clay 34 - 36 1/19/2015
Preliminary Disposal Facility Category		Hazardous Material Type B	Hazardous Material Type A	Hazardous Material Type B	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type B	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	Hazardous Material Type B	MCP Regulated Type A	MCP Regulated Type B-1
Styrene	mg/kg	<0.0058	<0.0049	<0.0048	<0.0042	<0.0039	<0.0036	<0.0043	<0.0069	<0.0048	<0.0038	<0.0035	<0.0034	<0.0037	<0.0035	<0.0034	<0.0030	<0.0045	<0.0053	<0.0069	<0.0049	<0.0055	<0.0073	<0.0046	<0.0039
tert-Butylbenzene	mg/kg	<0.0058	<0.0049	<0.0048	<0.0042	<0.0039	<0.0036	<0.0043	<0.0069	<0.0048	<0.0038	<0.0035	<0.0034	<0.0037	<0.0035	<0.0034	<0.0030	<0.0045	<0.0053	<0.0069	<0.0049	<0.0055	<0.0073	<0.0046	<0.0039
Tertiary-amyl methyl ether	mg/kg	<0.0058	<0.0049	<0.0048	<0.0042	<0.0039	<0.0036	<0.0043	<0.0069	<0.0048	<0.0038	<0.0035	<0.0034	<0.0037	<0.0035	<0.0034	<0.0030	<0.0045	<0.0053	<0.0069	<0.0049	<0.0055	<0.0073	<0.0046	<0.0039
Tetrachloroethene	mg/kg	<0.0058	<0.0049	<0.0048	<0.0042	<0.0039	<0.0036	<0.0043	<0.0069	<0.0048	<0.0038	<0.0035	<0.0034	<0.0037	<0.0035	<0.0034	<0.0030	<0.0045	<0.0053	<0.0069	<0.0049	<0.0055	<0.0073	<0.0046	<0.0039
Tetrahydrofuran	mg/kg	<0.0058	<0.0049	<0.0048	<0.0042	<0.0039	<0.0036	<0.0043	<0.0069	<0.0048	<0.0038	<0.0035	<0.0034	<0.0037	<0.0035	<0.0034	<0.0030	<0.0045	<0.0053	<0.0069	<0.0049	<0.0055	<0.0073	<0.0046	<0.0039
Toluene	mg/kg	<0.0058	<0.0049	<0.0048	<0.0042	<0.0039	<0.0036	<0.0043	<0.0069	<0.0048	<0.0038	<0.0035	<0.0034	<0.0037	<0.0035	<0.0034	<0.0030	<0.0045	<0.0053	<0.0069	<0.0049	<0.0055	<0.0073	<0.0046	<0.0039
trans-1,2-Dichloroethene	mg/kg	<0.0058	<0.0049	<0.0048	<0.0042	<0.0039	<0.0036	<0.0043	<0.0069	<0.0048	<0.0038	<0.0035	<0.0034	<0.0037	<0.0035	<0.0034	<0.0030	<0.0045	<0.0053	<0.0069	<0.0049	<0.0055	<0.0073	<0.0046	<0.0039
trans-1,3-Dichloropropene	mg/kg	<0.0058	<0.0049	<0.0048	<0.0042	<0.0039	<0.0036	<0.0043	<0.0069	<0.0048	<0.0038	<0.0035	<0.0034	<0.0037	<0.0035	<0.0034	<0.0030	<0.0045	<0.0053	<0.0069	<0.0049	<0.0055	<0.0073	<0.0046	<0.0039
Trichloroethene	mg/kg	<0.0058	<0.0049	<0.0048	<0.0042	<0.0039	<0.0036	<0.0043	<0.0069	<0.0048	<0.0038	<0.0035	<0.0034	<0.0037	<0.0035	<0.0034	<0.0030	<0.0045	<0.0053	<0.0069	<0.0049	<0.0055	<0.0073	<0.0046	<0.0039
Trichlorofluoromethane	mg/kg	<0.0058	<0.0049	<0.0048	<0.0042	<0.0039	<0.0036	<0.0043	<0.0069	<0.0048	<0.0038	<0.0035	<0.0034	<0.0037	<0.0035	<0.0034	<0.0030	<0.0045	<0.0053	<0.0069	<0.0049	<0.0055	<0.0073	<0.0046	<0.0039
Vinyl Chloride	mg/kg	<0.0116	<0.0097	<0.0096	<0.0084	<0.0078	<0.0072	<0.0087	<0.0138	<0.0096	<0.0077	<0.0069	<0.0069	<0.0074	<0.0069	<0.0069	<0.0060	<0.0090	<0.0106	<0.0137	<0.0097	<0.0109	<0.0147	<0.0093	<0.0078
Xylene O	mg/kg	<0.0058	<0.0049	<0.0048	<0.0042	<0.0039	<0.0036	<0.0043	<0.0069	<0.0048	<0.0038	<0.0035	<0.0034	<0.0037	<0.0035	<0.0034	<0.0030	<0.0045	<0.0053	<0.0069	<0.0049	<0.0055	<0.0073	<0.0046	<0.0039
Xylene P,M	mg/kg	<0.0116	<0.0097	<0.0096	<0.0084	<0.0078	<0.0072	<0.0087	<0.0138	<0.0096	<0.0077	<0.0069	<0.0069	<0.0074	<0.0069	<0.0069	<0.0060	<0.0090	<0.0106	<0.0137	<0.0097	<0.0109	<0.0147	<0.0093	<0.0078
Xylenes (Total)	mg/kg	<0.0116	<0.0097	<0.0096	<0.0084	<0.0078	<0.0072	<0.0087	<0.0138	<0.0096	<0.0077	<0.0069	<0.0069	<0.0074	<0.0069	<0.0069	<0.0060	<0.0090	<0.0106	<0.0137	<0.0097	<0.0109	<0.0147	<0.0093	<0.0078
Total VOCs (Low Level)	mg/kg	ND	0.0372	0.0618	ND	0.0051	0.2122	0.0597	ND	ND	0.0136	0.0204	0.0547	0.1032	ND	0.0106	0.0168	0.0246	0.0577	ND	0.051	0.0623	1.3345	0.0278	0.0672
Semi-Volatile Organic Compounds																									
1,2,4-Trichlorobenzene	mg/kg	<0.915	<1.12	<1.04	<0.852	<0.926	<0.958	<1.07	<0.870	<0.869	<1.09	<1.05	<1.02	<0.933	<0.896	<0.945	<0.910	<0.992	<0.854	<0.890	<0.949	<1.03	<1.28	<0.898	<0.991
1,2-Dichlorobenzene	mg/kg	<0.915	<1.12	<1.04	<0.852	<0.926	<0.958	<1.07	<0.870	<0.869	<1.09	<1.05	<1.02	<0.933	<0.896	<0.945	<0.910	<0.992	<0.854	<0.890	<0.949	<1.03	<1.28	<0.898	<0.991
1,3-Dichlorobenzene	mg/kg	<0.915	<1.12	<1.04	<0.852	<0.926	<0.958	<1.07	<0.870	<0.869	<1.09	<1.05	<1.02	<0.933	<0.896	<0.945	<0.910	<0.992	<0.854	<0.890	<0.949	<1.03	<1.28	<0.898	<0.991
1,4-Dichlorobenzene	mg/kg	<0.459	<0.560	<0.521	<0.427	<0.464	<0.481	<0.534	<0.436	<0.436	<0.545	<0.526	<0.510	<0.468	<0.450	<0.474	<0.456	<0.497	<0.428	<0.446	<0.476	<0.519	<0.641	<0.450	<0.497
2,4,5-Trichlorophenol	mg/kg	<0.915	<1.12	<1.04	<0.852	<0.926	<0.958	<1.07	<0.870	<0.869	<1.09	<1.05	<1.02	<0.933	<0.896	<0.945	<0.910	<0.992	<0.854	<0.890	<0.949	<1.03	<1.28	<0.898	<0.991
2,4,6-Trichlorophenol	mg/kg	<0.915	<1.12	<1.04	<0.852	<0.926	<0.958	<1.07	<0.870	<0.869	<1.09	<1.05	<1.02	<0.933	<0.896	<0.945	<0.910	<0.992	<0.854	<0.890	<0.949	<1.03	<1.28	<0.898	<0.991
2,4-Dichlorophenol	mg/kg	<0.915	<1.12	<1.04	<0.852	<0.926	<0.958	<1.07	<0.870	<0.869	<1.09	<1.05	<1.02	<0.933	<0.896	<0.945	<0.910	<0.992	<0.854	<0.890	<0.949	<1.03	<1.28	<0.898	<0.991
2,4-Dimethylphenol	mg/kg	<0.915	<1.12	<1.04	<0.852	<0.926	<0.958	<1.07	<0.870	<0.869	<1.09	<1.05	<1.02	<0.933	<0.896	<0.945	<0.910	<0.992	<0.854	<0.890	<0.949	<1.03	<1.28	<0.898	<0.991
2,4-Dinitrophenol	mg/kg	<4.59	<5.60	<5.21	<4.27	<4.64	<4.81	<5.34	<4.36	<4.36	<5.45	<5.26	<5.10	<4.68	<4.50	<4.74	<4.56	<4.97	<4.28	<4.46	<4.76	<5.19	<6.41	<4.50	<4.97
2,4-Dinitrotoluene	mg/kg	<0.915	<1.12	<1.04	<0.852	<0.926	<0.958	<1.07	<0.870	<0.869	<1.09	<1.05	<1.02	<0.933	<0.896	<0.945	<0.910	<0.992	<0.854	<0.890	<0.949	<1.03	<1.28	<0.898	<0.991
2,6-Dinitrotoluene	mg/kg	<0.915	<1.12	<1.04	<0.852	<0.926	<0.958	<1.07	<0.870	<0.869	<1.09	<1.05	<1.02	<0.933	<0.896	<0.945	<0.910	<0.992	<0.854	<0.890	<0.949	<1.03	<1.28	<0.898	<0.991
2-Chloronaphthalene	mg/kg	<0.915	<1.12	<1.04	<0.852	<0.926	<0.958	<1.07	<0.870	<0.869	<1.09	<1.05	<1.02	<0.933	<0.896	<0.945	<0.910	<0.992	<0.854	<0.890	<0.949	<1.03	<1.28	<0.898	<0.991
2-Chlorophenol	mg/kg	<0.915	<1.12	<1.04	<0.852	<0.926	<0.958	<1.07	<0.870	<0.869	<1.09	<1.05	<1.02	<0.933	<0.896	<0.945	<0.910	<0.992	<0.854	<0.890	<0.949	<1.03	<1.28	<0.898	<0.991
2-Methylnaphthalene	mg/kg	<0.915	<1.12	<1.04	<0.852	<0.926	<0.958	<1.07	<0.870	<0.869	<1.09	<1.05	<1.02	<0.933	<0.896	<0.945	<0.910	<0.992	<0.854	<0.890	<0.949	<1.03	1.3	<0.898	<0.991
2-Methylphenol	mg/kg	<0.915	<1.12	<1.04	<0.852	<0.926	<0.958	<1.07	<0.870	<0.869	<1.09	<1.05	<1.02	<0.933	<0.896	<0.945	<0.910	<0.992	<0.854	<0.890	<0.949	<1.03	<1.28	<0.898	<0.991
2-Nitrophenol	mg/kg	<0.915	<1.12	<1.04	<0.852	<0.926	<0.958	<1.07	<0.870	<0.869	<1.09	<1.05	<1.02	<0.933	<0.896	<0.945	<0.910	<0.992	<0.854	<0.890	<0.949	<1.03	<1.28	<0.898	<0.991
3,3´-Dichlorobenzidine	mg/kg	<1.83	<2.24	<2.08	<1.71	<1.85	<1.92	<2.13	<1.74	<1.74	<2.18	<2.10	<2.04	<1.87	<1.80	<1.89	<1.82	<1.99	<1.71	<1.78	<1.90	<2.07	<2.56	<1.80	<1.98
3+4-Methylphenol	mg/kg	<1.83	<2.24	<2.08	<1.71	<1.85	<1.92	<2.13	<1.74	<1.74	<2.18	<2.10	<2.04	<1.87	<1.80	<1.89	<1.82	<1.99	<1.71	<1.78	<1.90	<2.07	<2.56	<1.80	<1.98
4-Bromophenyl-phenylether	mg/kg	<0.915	<1.12	<1.04	<0.852	<0.926	<0.958	<1.07	<0.870	<0.869	<1.09	<1.05	<1.02	<0.933	<0.896	<0.945	<0.910	<0.992	<0.854	<0.890	<0.949	<1.03	<1.28	<0.898	<0.991
4-Chloroaniline	mg/kg	<1.83	<2.24	<2.08	<1.71	<1.85	<1.92	<2.13	<1.74	<1.74	<2.18	<2.10	<2.04	<1.87	<1.80	<1.89	<1.82	<1.99	<1.71	<1.78	<1.90	<2.07	<2.56	<1.80	<1.98
4-Nitrophenol	mg/kg	<4.59	<5.60	<5.21	<4.27	<4.64	<4.81	<5.34	<4.36	<4.36	<5.45	<5.26	<5.10	<4.68	<4.50	<4.74	<4.56	<4.97	<4.28	<4.46	<4.76	<5.19	<6.41	<4.50	<4.97
Acenaphthene	mg/kg	<0.915	<1.12	<1.04	<0.852	<0.926	<0.958	<1.07	<0.870	<0.869	<1.09	<1.05	<1.02	<0.933	<0.896	<0.945	<0.910	<0.992	<0.854	<0.890	<0.949	<1.03	<1.28	<0.898	<0.991
Acenaphthylene	mg/kg	<0.915	<1.12	<1.04	<0.852	<0.926	<0.958	<1.07	<0.870	<0.869	<1.09	<1.05	<1.02	<0.933	<0.896	<0.945	<0.910	<0.992	<0.854	<0.890	<0.949	<1.03	<1.28	<0.898	<0.991
Acetophenone	mg/kg	<1.83	<2.24	<2.08	<1.71	<1.85	<1.92	<2.13	<1.74	<1.74	<2.18	<2.10	<2.04	<1.87	<1.80	<1.89	<1.82	<1.99	<1.71	<1.78	<1.90	<2.07	<2.56	<1.80	<1.98
Aniline	mg/kg	<4.59	<5.60	<5.21	<4.27	<4.64	<4.81	<5.34	<4.36	<4.36	<5.45	<5.26	<5.10	<4.68	<4.50	<4.74	<4.56	<4.97	<4.28	<4.46	<4.76	<5.19	<6.41	<4.50	<4.97
Anthracene	mg/kg	<0.915	<1.12	<1.04	<0.852	<0.926	<0.958	<1.07	<0.870	<0.869	<1.09	<1.05	<1.02	<0.933	<0.896	<0.945	<0.910	<0.992	<0.854	<0.890	<0.949	<1.03	1.3	<0.898	<0.991
Azobenzene	mg/kg	<0.915	<1.12	<1.04	<0.852	<0.926	<0.958	<1.07	<0.870	<0.869	<1.09	<1.05	<1.02	<0.933	<0.896	<0.945	<0.910	<0.992	<0.854	<0.890	<0.949	<1.03	<1.28	<0.898	<0.991
Benzo(a)anthracene	mg/kg	1.94	<1.12	<1.04	<0.852	<0.926	<0.958	<1.07	<0.870	<0.869	<1.09	<1.05	<1.02	<0.933	<0.896	<0.945	<0.910	<0.992	<0.854	<0.890	<0.949	<1.03	2.32	<0.898	<0.991
Benzo(a)pyrene	mg/kg	1.61	<0.560	<0.521	<0.427	<0.464	<0.481	<0.534	<0.436	<0.436	<0.545	<0.526	<0.510	<0.468	<0.450	<0.474	<0.456	<0.497	<0.428	<0.446	<0.476	<0.519	2.14	<0.450	<0.497
Benzo(b)fluoranthene	mg/kg	1.62	<1.12	<1.04	<0.852	<0.926	<0.958	<1.07	<0.870	<0.869	<1.09	<1.05	<1.02	<0.933	<0.896	<0.945	<0.910	<0.992	<0.854	<0.890	<0.949	<1.03	2.41	<0.898	<0.991
Benzo(g,h,i)perylene	mg/kg	<0.915	<1.12	<1.04	<0.852	<0.926	<0.958	<1.07	<0.870	<0.869	<1.09	<1.05	<1.02	<0.933	<0.896	<0.945	<0.910	<0.992	<0.854	<0.890	<0.949	<1.03	<1.28	<0.898	<0.991
Benzo(k)fluoranthene	mg/kg	1.77	<1.12	<1.04	<0.852	<0.926	<0.958	<1.07	<0.870	<0.869	<1.09	<1.05	<1.02	<0.933	<0.896	<0.945	<0.910	<0.992	<0.854	<0.890	<0.949	<1.03	1.54	<0.898	<0.991
bis(2-Chloroethoxy)methane	mg/kg	<0.915	<1.12	<1.04	<0.852	<0.926	<0.958	<1.07	<0.870	<0.869	<1.09	<1.05	<1.02	<0.933	<0.896	<0.945	<0.910	<0.992	<0.854	<0.890	<0.949	<1.03	<1.28	<0.898	<0.991
bis(2-Chloroethyl)ether	mg/kg	<0.459	<0.560	<0.521	<0.427	<0.464	<0.481	<0.534	<0.436	<0.436	<0.545	<0.526	<0.510	<0.468	<0.450	<0.474	<0.456	<0.497	<0.428	<0.446	<0.476	<0.519	<0.641	<0.450	<0.497
bis(2-chloroisopropyl)Ether	mg/kg	<0.459	<0.560	<0.521	<0.427	<0.464	<0.481	<0.534	<0.436	<0.436	<0.545	<0.526	<0.510	<0.468	<0.450	<0.474	<0.456	<0.497	<0.428	<0.446	<0.476	<0.519	<0.641	<0.450	<0.497
bis(2-Ethylhexyl)phthalate	mg/kg	<0.915	<1.12	<1.04	<0.852	<0.926	<0.958	<1.07	<0.870	<0.869	<1.09	<1.05	<1.02	<0.933	<0.896	<0.945	<0.910	<0.992	<0.854	<0.890	<0.949	<1.03	<1.28	<0.898	<0.991
Butylbenzylphthalate	mg/kg	<0.915	<1.12	<1.04	<0.852	<0.926	<0.958	<1.07	<0.870	<0.869	<1.09	<1.05	<1.02	<0.933	<0.896	<0.945	<0.910	<0.992	<0.854	<0.890	<0.949	<1.03	<1.28	<0.898	<0.991
Chrysene	mg/kg	1.94	0.992	<0.521	<0.427	<0.464	<0.481	<0.534	<0.436	<0.436	<0.545	<0.526	<0.510	<0.468	<0.450	<0.474	<0.456	<0.497	<0.428	<0.446	<0.476	<0.519	2.52	<0.450	<0.497
Dibenzo(a,h)Anthracene	mg/kg	<0.459	<0.560	<0.521	<0.427	<0.464	<0.481	<0.534	<0.436	<0.436	<0.545	<0.526	<0.510	<0.468	<0.450	<0.474	<0.456	<0.497	<0.428	<0.446	<0.476	<0.519	<0.641	<0.450	<0.497
Dibenzofuran	mg/kg	<0.915	<1.12	<1.04	<0.852	<0.926	<0.958	<1.07	<0.870	<0.869	<1.09	<1.05	<1.02	<0.933	<0.896	<0.945	<0.910	<0.992	<0.854	<0.890	<0.949	<1.03	<1.28	<0.898	<0.991
Diethylphthalate	mg/kg	<0.915	<1.12	<1.04	<0.852	<0.926	<0.958	<1.07	<0.870	<0.869	<1.09	<1.05	<1.02	<0.933	<0.896	<0.945	<0.910	<0.992	<0.854	<0.890	<0.949	<1.03	<1.28	<0.898	<0.991
Dimethylphthalate	mg/kg	<0.915	<1.12	<1.04	<0.852	<0.926	<0.958	<1.07	<0.870	<0.869	<1.09	<1.05	<1.02	<0.933	<0.896	<0.945	<0.910	<0.992	<0.854	<0.890	<0.949	<1.03	<1.28	<0.898	<0.991
Di-n-butylphthalate	mg/kg	<0.915	<1.12	<1.04	<0.852	<0.926	<0.958	<1.07	<0.870	<0.869	<1.09	<1.05	<1.02	<0.933	<0.896	<0.945	<0.910	<0.992	<0.854	<0.890	<0.949	<1.03	<1.28	<0.898	<0.991
Di-n-octylphthalate	mg/kg	<0.915	<1.12	<1.04	<0.852	<0.926	<0.958	<1.07	<0.870	<0.869	<1.09	<1.05	<1.02	<0.933	<0.896	<0.945	<0.910	<0.992	<0.854	<0.890	<0.949	<1.03	<1.28	<0.898	<0.991
Fluoranthene	mg/kg	3.98	<1.12	<1.04	<0.852	<0.926	<0.958	<1.07	<0.870	<0.869	<1.09	<1.05	<1.02	<0.933	<0.896	<0.945	<0.910	<0.992	<0.854	<0.890	<0.949	<1.03	5.18	<0.898	<0.991
Fluorene	mg/kg	<0.915	<1.12	<1.04	<0.852	<0.926	<0.958	<1.07	<0.870	<0.869	<1.09	<1.05	<1.02	<0.933	<0.896	<0.945	<0.910	<0.992	<0.854	<0.890	<0.949	<1.03	<1.28	<0.898	<0.991
Hexachlorobenzene	mg/kg	<0.459	<0.560	<0.521	<0.427	<0.464	<0.481	<0.534	<0.436	<0.436	<0.545	<0.526	<0.510	<0.468	<0.450	<0.474	<0.456	<0.497	<0.428	<0.446	<0.476	<0.519	<0.641	<0.450	<0.497
Hexachlorobutadiene	mg/kg	<0.915	<1.12	<1.04	<0.852	<0.926	<0.958	<1.07	<0.870	<0.869	<1.09	<1.05	<1.02	<0.933	<0.896	<0.945	<0.910	<0.992	<0.854	<0.890	<0.949	<1.03	<1.28	<0.898	<0.991
Hexachloroethane	mg/kg	<0.915	<1.12	<1.04	<0.852	<0.926	<0.958	<1.07	<0.870	<0.869	<1.09	<1.05	<1.02	<0.933	<0.896	<0.945	<0.910	<0.992	<0.854	<0.890	<0.949	<1.03	<1.28	<0.898	<0.991
Indeno(1,2,3-cd)Pyrene	mg/kg	<0.915	<1.12	<1.04	<0.852	<0.926	<0.958	<1.07	<0.870	<0.869	<1.09	<1.05	<1.02	<0.933	<0.896	<0.945	<0.910	<0.992	<0.854	<0.890	<0.949	<1.03	<1.28	<0.898	<0.991
Isophorone	mg/kg	<0.915	<1.12	<1.04	<0.852	<0.926	<0.958	<1.07	<0.870	<0.869	<1.09	<1.05	<1.02	<0.933	<0.896	<0.945	<0.910	<0.992	<0.854	<0.890	<0.949	<1.03	<1.28	<0.898	<0.991
Naphthalene	mg/kg	1.34	<1.12	<1.04	<0.852	<0.926	<0.958	<1.07	<0.870	<0.869	<1.09	<1.05	<1.02	<0.933	<0.896	<0.945	<0.910	<0.992	<0.854	<0.890	<0.949	<1.03	<1.28	<0.898	<0.991
Nitrobenzene	mg/kg	<0.915	<1.12	<1.04	<0.852	<0.926	<0.958	<1.07	<0.870	<0.869	<1.09	<1.05	<1.02	<0.933	<0.896	<0.945	<0.910	<0.992	<0.854	<0.890	<0.949	<1.03	<1.28	<0.898	<0.991
N-Nitrosodimethylamine	mg/kg	<0.915	<1.12	<1.04	<0.852	<0.926	<0.958	<1.07	<0.870	<0.869	<1.09	<1.05	<1.02	<0.933	<0.896	<0.945	<0.910	<0.992	<0.854	<0.890	<0.949	<1.03	<1.28	<0.898	<0.991
Pentachlorophenol	mg/kg	<4.59	<5.60	<5.21	<4.27	<4.64	<4.81	<5.34	<4.36	<4.36	<5.45	<5.26	<5.10	<4.68	<4.50	<4.74	<4.56	<4.97	<4.28	<4.46	<4.76	<5.19	<6.41	<4.50	<4.97
Phenanthrene	mg/kg	3.46	<1.12	<1.04	<0.852	<0.926	<0.958	<1.07	<0.870	<0.869	<1.09	<1.05	<1.02	<0.933	<0.896	<0.945	<0.910	<0.992	<0.854	<0.890	<0.949	<1.03	3.16	<0.898	<0.991
Phenol	mg/kg	<0.915	<1.12	<1.04	<0.852	<0.926	<0.958	<1.07	<0.870	<0.869	<1.09	<1.05	<1.02	<0.933	<0.896	<0.945	<0.910	<0.992	<0.854	<0.890	<0.949	<1.03	<1.28	<0.898	<0.991
Pyrene	mg/kg	2.75	<1.12	<1.04	<0.852	<0.926	<0.958	<1.07	<0.870	<0.869	<1.09	<1.05	<1.02	<0.933	<0.896	<0.945	<0.910	<0.992	<0.854	<0.890	<0.949	<1.03	11.7	<0.898	<0.991
Total SVOCs	mg/kg	20.41	0.992	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	33.57	ND	ND
Classic Chemistry																									
Corrosivity (pH)	S.U.	4.94	5.93	5.49	4.51	4.26	3.75	7.63	8.66	8.86	7.9	6.85	5.94	6.18	5.74	5.45	4.75	4.54	9.03	8.87	6.7	5.69	7.06	5.06	7.72
Conductivity	umhos/cm	1980	1560	1900	1900	9980	14400	7820	152	112	213	243	121	272	169	165	415	3740	174	684	1150	1180	10700	1610	4590
Flashpoint	°F	>200	>200	>200	>200	--	--	--	>200	>200	>200	>200	--	--	--	--	--	--	>200	>200	>200	--	--	--	--
Reactive Cyanide	mg/kg	<2.0	<2.0	<2.0	--	--	--	--	<2.0	<2.0	<2.0	<2.0	--	--	--	--	--	--	<2.0	<2.0	<2.0	--	--	--	--
Reactive Sulfide	mg/kg	<2.0	<2.0	<2.0	--	--	--	--	<2.0	<2.0	<2.0	<2.0	--	--	--	--	--	--	<2.0	<2.0	<2.0	--	--	--	--

Table 1
Soil Precharacterization Data

Wynn Resort Casino
Everett, Massachusetts

Analyte	Precharacterization Cell	E17	E18	E18	E18	E18	E18	E18	E18	E18	E18	E19	E19	E19	E19	E19	E19	E19	E19	E19	E20	E20	E20	E20	E20	E20
	Sample ID	E17512	E18S01S02A	E18S02BS04A	E18S04BS05	E18S06S07	E18S08	E18S09	E18S10	E18S11S12	E19S01S02A	E19S02BS04A	E19S04BS05	E19S06	E19S07	E19S08	E19S09	E19S10	E19S11S12	E20S01	GZ01OS01S02	GZ01OS03S05	GZ01OS06S08	GZ01OS09S11	GZ01OS12S15A
	Laboratory Work Order	1501358	1412333	1412333	1412333	1412366	1412366	1412366	1412366	1412366	1412366	1412366	1412366	1412366	1412366	1412366	1412366	1412409	1412409	1503115	1411148	1411172	1411172	1411172	1411194
	Soil Distinction	Natural	Fill	Fill	Fill	Fill	Natural	Natural	Organics	Natural	Fill	Fill	Fill	Natural	Natural	Natural	Natural	Natural	Clay	Fill	Fill	Fill	Fill	Fill	Natural
	Soil Type	Clay					Organics	Organics	Organics	Clay				Organics	Organics	Organics	Organics	Organics							Sand/Gravel
	Depth Interval (ft.)	36 - 38	0 - 3.3	3.3 - 6.6	6.6 - 10	10 - 14	19 - 21	24 - 26	29 - 31	34 - 38	0 - 3.3	3.3 - 6.6	6.6 - 10	10 - 12	12 - 14	19 - 21	24 - 26	29 - 31	34 - 38	4 - 6	0 - 4	4 - 12	12 - 18	18 - 25	25 - 31.3
	Sampling Date	1/19/2015	12/16/2014	12/16/2014	12/16/2014	12/17/2014	12/17/2014	12/17/2014	12/17/2014	12/17/2014	12/17/2014	12/17/2014	12/17/2014	12/17/2014	12/17/2014	12/17/2014	12/17/2014	12/18/2014	12/18/2014	3/6/2015	11/6/2014	11/7/2014	11/7/2014	11/7/2014	11/10/2014
Preliminary Disposal Facility Category		MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type B	MCP Regulated Type B-1	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A
RCRA 8 Metals	**Units**																								
Arsenic	mg/kg	14.2	8.15	6.26	8.54	11.2	10.3	98.3	342	16.5	8.55	6.75	6.85	4.99	8.32	46.7	409	7.28	15.9	6.85	8.65	6.18	20.5	26.7	15.2
Barium	mg/kg	108	16.6	53.9	36.3	12.2	19	60.7	128	84.6	18.4	15.9	44.3	8.2	17.4	42.7	119	21.2	74.3	22.7	16.9	31.3	1060	42.5	12.1
Cadmium	mg/kg	<1.63	<0.49	<0.48	<0.47	0.65	<0.60	1.93	4.99	<0.47	<0.42	<0.42	<0.43	0.62	<0.44	1.07	6.89	<0.56	<0.62	<1.30	<0.53	<0.39	0.48	0.52	<0.52
Chromium	mg/kg	52	20	16.1	17.7	14.4	15.6	39.8	59.4	43.7	18.9	19.4	11	10.2	2.77	82.6	55.5	18.9	44.9	18.6	19.4	17.4	3.11	24.6	7.84
Lead	mg/kg	<16.3	9.05	7.33	52.3	12.9	31.2	289	389	13.1	9.71	8.05	75	10.8	11.3	120	819	5.87	17.3	<13.0	10.9	33	112	53	15.8
Selenium	mg/kg	<8.16	<9.88	<9.61	<9.32	<11.2	<11.9	14.6	21.5	<9.31	<8.47	<8.36	<8.58	<7.55	<8.71	<13.4	33.4	<11.2	<12.4	<6.49	<2.63	<1.96	<2.13	--	<5.17
Silver	mg/kg	<1.63	<0.49	<0.48	<0.47	<0.56	<0.60	1.2	1.27	0.72	0.56	0.65	0.43	<0.38	<0.44	<0.67	1.84	<0.56	<0.62	<1.30	<0.53	<0.39	1.97	<0.50	<0.52
Mercury	mg/kg	<0.041	<0.030	1.73	0.16	0.108	1.33	7.27	0.364	<0.037	<0.030	<0.029	0.259	0.123	0.081	6.37	9.49	<0.039	0.052	<0.030	<0.034	0.136	0.494	0.39	<0.033
Metals by Toxicity Characteristic Leaching Procedure (TCLP)																									
Arsenic	mg/L	--	--	--	--	--	--	--	1.93	--	--	--	--	--	--	--	0.822	--	--	--	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead	mg/L	--	--	--	--	--	--	0.399	1.04	--	--	--	--	--	--	0.108	7.27	--	--	--	--	--	0.394	--	--
Selenium	mg/L	--	--	--	--	--	--	--	<0.050	--	--	--	--	--	--	--	<0.050	--	--	--	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--	--	<0.00050	--	--	--	--	--	--	--	<0.00050	<0.00050	--	--	--	--	--	--	--	--
Herbicides																									
2,4,5-T	mg/kg	--	<0.050	<0.050	<0.055	--	--	--	--	--	<0.044	<0.045	<0.048	--	--	--	--	--	--	<0.044	<0.055	<0.063	<0.060	<0.081	<0.055
2,4-D	mg/kg	--	<0.050	<0.050	<0.055	--	--	--	--	--	<0.22	<0.23	<0.24	--	--	--	--	--	--	<0.22	<0.055	<0.063	<0.060	<0.081	<0.055
2,4-DB	mg/kg	--	<0.050	<0.050	<0.055	--	--	--	--	--	<0.016	<0.017	<0.018	--	--	--	--	--	--	<0.017	<0.055	<0.063	<0.060	<0.081	<0.055
Dalapon	mg/kg	--	<0.60	<0.60	<0.66	--	--	--	--	--	<1.3	<1.4	<1.4	--	--	--	--	--	--	<1.3	<0.66	<0.76	<0.73	<0.98	<0.66
Dicamba	mg/kg	--	<0.050	<0.050	<0.055	--	--	--	--	--	<0.066	<0.068	<0.071	--	--	--	--	--	--	<0.067	<0.055	<0.063	<0.060	<0.081	<0.055
Dichlorprop	mg/kg	--	<0.050	<0.050	<0.055	--	--	--	--	--	<0.14	<0.15	<0.15	--	--	--	--	--	--	<0.14	<0.055	<0.063	<0.060	<0.081	<0.055
Dinoseb	mg/kg	--	<0.30	<0.30	<0.33	--	--	--	--	--	<0.22	<0.23	<0.24	--	--	--	--	--	--	<0.22	<0.33	<0.38	<0.36	<0.49	<0.33
MCPA	mg/kg	--	<12	<12	<13	--	--	--	--	--	<55	<56	<60	--	--	--	--	--	--	<56	<13	<15	<15	<20	<13
MCPP	mg/kg	--	<12	<12	<13	--	--	--	--	--	<55	<56	<60	--	--	--	--	--	--	<56	<13	<15	<15	<20	<13
Silvex (2,4,5-TP)	mg/kg	--	<0.050	<0.050	<0.055	--	--	--	--	--	<0.044	<0.045	<0.048	--	--	--	--	--	--	<0.044	<0.055	<0.063	<0.060	<0.081	<0.055
Pesticides																									
4,4'-DDD	mg/kg	--	<0.0018	<0.0018	<0.0019	--	--	--	--	--	<0.0018	<0.0019	<0.0040	--	--	--	--	--	--	<0.0019	<0.0018	<0.0022	<0.0020	<0.0028	<0.0019
4,4'-DDE	mg/kg	--	<0.0018	<0.0018	<0.0019	--	--	--	--	--	<0.0018	<0.0019	<0.0040	--	--	--	--	--	--	<0.0019	<0.0018	<0.0022	<0.0020	<0.0028	<0.0019
4,4'-DDT	mg/kg	--	<0.0018	<0.0018	<0.0019	--	--	--	--	--	<0.0018	<0.0019	<0.0040	--	--	--	--	--	--	<0.0019	<0.0018	<0.0022	<0.0020	<0.0028	<0.0019
Aldrin	mg/kg	--	<0.0018	<0.0018	<0.0019	--	--	--	--	--	<0.0018	<0.0019	<0.0040	--	--	--	--	--	--	<0.0019	<0.0018	<0.0022	<0.0020	<0.0028	<0.0019
alpha-BHC	mg/kg	--	<0.0018	<0.0018	<0.0019	--	--	--	--	--	<0.0018	<0.0019	<0.0040	--	--	--	--	--	--	<0.0019	<0.0018	<0.0022	<0.0020	<0.0028	<0.0019
beta-BHC	mg/kg	--	<0.0018	<0.0018	<0.0019	--	--	--	--	--	<0.0018	<0.0019	<0.0040	--	--	--	--	--	--	<0.0019	<0.0018	<0.0022	<0.0020	<0.0028	<0.0019
Chlordane (technical)	mg/kg	--	<0.018	<0.018	<0.019	--	--	--	--	--	<0.018	<0.019	<0.040	--	--	--	--	--	--	<0.019	<0.018	<0.022	<0.020	<0.028	<0.019
delta-BHC	mg/kg	--	<0.0018	<0.0018	<0.0019	--	--	--	--	--	<0.0018	<0.0019	<0.0040	--	--	--	--	--	--	<0.0019	<0.0018	<0.0022	<0.0020	<0.0028	<0.0019
Dieldrin	mg/kg	--	<0.0018	<0.0018	<0.0019	--	--	--	--	--	<0.0018	<0.0019	<0.0040	--	--	--	--	--	--	<0.0019	<0.0018	<0.0022	<0.0020	<0.0028	<0.0019
Endosulfan I	mg/kg	--	<0.0018	<0.0018	<0.0019	--	--	--	--	--	<0.0018	<0.0019	<0.0040	--	--	--	--	--	--	<0.0019	<0.0018	<0.0022	<0.0020	<0.0028	<0.0019
Endosulfan II	mg/kg	--	<0.0018	<0.0018	<0.0019	--	--	--	--	--	<0.0018	<0.0019	<0.0040	--	--	--	--	--	--	<0.0019	<0.0018	<0.0022	<0.0020	<0.0028	<0.0019
Endosulfan sulfate	mg/kg	--	<0.0018	<0.0018	<0.0019	--	--	--	--	--	<0.0018	<0.0019	<0.0040	--	--	--	--	--	--	<0.0019	<0.0018	<0.0022	<0.0020	<0.0028	<0.0019
Endrin	mg/kg	--	<0.0018	<0.0018	<0.0019	--	--	--	--	--	<0.0018	<0.0019	<0.0040	--	--	--	--	--	--	<0.0019	<0.0018	<0.0022	<0.0020	<0.0028	<0.0019
Endrin ketone	mg/kg	--	<0.0018	<0.0018	<0.0019	--	--	--	--	--	<0.0018	<0.0019	<0.0040	--	--	--	--	--	--	<0.0019	<0.0018	<0.0022	<0.0020	<0.0028	<0.0019
gamma-BHC (Lindane)	mg/kg	--	<0.0018	<0.0018	<0.0019	--	--	--	--	--	<0.0018	<0.0019	<0.0040	--	--	--	--	--	--	<0.0019	<0.0018	<0.0022	<0.0020	<0.0028	<0.0019
Heptachlor	mg/kg	--	<0.0018	<0.0018	<0.0019	--	--	--	--	--	<0.0018	<0.0019	<0.0040	--	--	--	--	--	--	<0.0019	<0.0018	<0.0022	<0.0020	<0.0028	<0.0019
Heptachlor epoxide	mg/kg	--	<0.0018	<0.0018	<0.0019	--	--	--	--	--	<0.0018	<0.0019	<0.0040	--	--	--	--	--	--	<0.0019	<0.0018	<0.0022	<0.0020	<0.0028	<0.0019
Hexachlorobenzene	mg/kg	--	<0.0018	<0.0018	<0.0019	--	--	--	--	--	<0.0018	<0.0019	<0.0040	--	--	--	--	--	--	<0.0019	<0.0018	<0.0022	<0.0020	<0.0028	<0.0019
Methoxychlor	mg/kg	--	<0.0018	<0.0018	<0.0019	--	--	--	--	--	<0.0018	<0.0019	<0.0040	--	--	--	--	--	--	<0.0019	<0.0018	<0.0022	<0.0020	<0.0028	<0.0019
Polychlorinated Biphenyls																									
Aroclor 1016	mg/kg	<0.160	<0.137	<0.132	<0.136	<0.137	<0.142	<0.176	<0.136	<0.166	<0.136	<0.111	<2.86	<0.150	<0.161	<0.177	<0.180	<0.147	<0.163	<0.123	<0.0517	<0.219	<0.222	<0.258	<0.216
Aroclor 1221	mg/kg	<0.160	<0.137	<0.132	<0.136	<0.137	<0.142	<0.176	<0.136	<0.166	<0.136	<0.111	<2.86	<0.150	<0.161	<0.177	<0.180	<0.147	<0.163	<0.123	<0.0517	<0.219	<0.222	<0.258	<0.216
Aroclor 1232	mg/kg	<0.160	<0.137	<0.132	<0.136	<0.137	<0.142	<0.176	<0.136	<0.166	<0.136	<0.111	<2.86	<0.150	<0.161	<0.177	<0.180	<0.147	<0.163	<0.123	<0.0517	<0.219	<0.222	<0.258	<0.216
Aroclor 1242	mg/kg	<0.160	<0.137	<0.132	<0.136	<0.137	<0.142	<0.176	<0.136	<0.166	<0.136	<0.111	<2.86	<0.150	<0.161	<0.177	<0.180	<0.147	<0.163	<0.123	<0.0517	<0.219	<0.222	<0.258	<0.216
Aroclor 1248	mg/kg	<0.160	<0.137	<0.132	<0.136	<0.137	<0.142	<0.176	<0.136	<0.166	<0.136	<0.111	<2.86	<0.150	<0.161	<0.177	<0.180	<0.147	<0.163	<0.123	<0.0517	<0.219	<0.222	<0.258	<0.216
Aroclor 1254	mg/kg	<0.160	<0.137	<0.132	1.23	<0.137	<0.142	<0.176	<0.136	<0.166	<0.136	<0.111	24.4	<0.150	<0.161	<0.177	<0.180	<0.147	<0.163	<0.123	<0.0517	0.431	<0.222	<0.258	<0.216
Aroclor 1260	mg/kg	<0.160	<0.137	<0.132	0.465	<0.137	<0.142	<0.176	<0.136	<0.166	<0.136	<0.111	6.81	<0.150	<0.161	<0.177	<0.180	<0.147	<0.163	<0.123	<0.0517	<0.219	<0.222	<0.258	<0.216
Aroclor 1262	mg/kg	<0.160	<0.137	<0.132	<0.136	<0.137	<0.142	<0.176	<0.136	<0.166	<0.136	<0.111	<2.86	<0.150	<0.161	<0.177	<0.180	<0.147	<0.163	<0.123	<0.0517	<0.219	<0.222	<0.258	<0.216
Aroclor 1268	mg/kg	<0.160	<0.137	<0.132	<0.136	<0.137	<0.142	<0.176	<0.136	<0.166	<0.136	<0.111	<2.86	<0.150	<0.161	<0.177	<0.180	<0.147	<0.163	<0.123	<0.0517	<0.219	<0.222	<0.258	<0.216
Total PCBs	mg/kg	ND	ND	ND	1.695	ND	ND	ND	ND	ND	ND	ND	31.21	ND	ND	ND	ND	ND	ND	ND	ND	0.431	ND	ND	ND
Total Petroleum Hydrocarbons	mg/kg	<46.0	<41.2	<41.5	134	<47.7	<51.0	582	401	<52.8	<42.1	<41.8	177	<49.3	<51.2	163	1190	<52.1	<60.3	55.8	24	49.8	64.9	644	594
Volatile Organic Compounds (VOCs)																									
1,1,1,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.162	<0.0825
1,1,1-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0811	<0.0412
1,1,2,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0811	<0.0412
1,1,2-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0811	<0.0412
1,1-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0811	<0.0412
1,1-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0811	<0.0412
1,1-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0811	<0.0412
1,2,3-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0811	<0.0412
1,2,3-Trichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0811	<0.0412
1,2,4-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0811	<0.0412
1,2,4-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.31	<0.0412
1,2-Dibromo-3-Chloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.324	<0.165
1,2-Dibromoethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0811	<0.0412
1,2-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0811	<0.0412
1,2-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0811	<0.0412
1,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0811	<0.0412
1,3,5-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.141	<0.0412
1,3-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0811	<0.0412
1,3-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0811	<0.0412
1,4-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0811	<0.0412
1,4-Dioxane - Screen	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<8.11	<4.12				
2,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.162	<0.0825
2-Butanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.324	<0.165
2-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0811	<0.0412
2-Hexanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.324	<0.165
4-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0811	<0.0412
4-Isopropyltoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.23	<0.0412
4-Methyl-2-Pentanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.324	<0.165
Acetone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.324	<0.165
Benzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.558	<0.0412
Bromobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0811	<0.0412
Bromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0811	<0.0412
Bromodichloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0811	<0.0412
Bromoform	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0811	<0.0412
Bromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.162	<0.0825
Carbon Disulfide	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.373	<0.0412
Carbon Tetrachloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0811	<0.0412

Analyte	Precharacterization Cell	E17	E18	E18	E18	E18	E18	E18	E18	E18	E18	E19	E19	E19	E19	E19	E19	E19	E19	E20	E20	E20	E20	E20	E20
	Sample ID	E17512	E18S01S02A	E18S02BS04A	E18S04BS05	E18S06S07	E18S08	E18S09	E18S10	E18S11S12	E19S01S02A	E19S02BS04A	E19S04BS05	E19S06	E19S07	E19S08	E19S09	E19S10	E19S11S12	E20S01	GZ010S01S02	GZ010S03S05	GZ010S06S08	GZ010S09S11	GZ010S12S15A
	Laboratory Work Order	1501358	1412333	1412333	1412333	1412366	1412366	1412366	1412366	1412366	1412366	1412366	1412366	1412366	1412366	1412366	1412366	1412409	1412409	1503115	1411148	1411172	1411172	1411172	1411194
	Soil Distinction	Natural	Fill	Fill	Fill	Fill	Natural	Natural	Organics	Natural	Fill	Fill	Fill	Natural	Natural	Organics	Natural	Natural	Natural	Fill	Fill	Fill	Fill	Fill	Natural
	Soil Type	Clay			Clay		Organics	Organics	Organics	Clay				Organics	Organics	Organics	Organics	Organics	Clay						Sand/Gravel
	Depth Interval (ft.)	36 - 38	0 - 3.3	3.3 - 6.6	6.6 - 10	10 - 14	19 - 21	24 - 26	29 - 31	34 - 38	0 - 3.3	3.3 - 6.6	6.6 - 10	10 - 12	12 - 14	19 - 21	24 - 26	29 - 31	34 - 38	4 - 6	0 - 4	4 - 12	12 - 18	18 - 25	25 - 31.3
	Sampling Date	1/19/2015	12/16/2014	12/16/2014	12/16/2014	12/17/2014	12/17/2014	12/17/2014	12/17/2014	12/17/2014	12/17/2014	12/17/2014	12/17/2014	12/17/2014	12/17/2014	12/17/2014	12/17/2014	12/17/2014	12/18/2014	12/18/2014	3/6/2015	11/6/2014	11/7/2014	11/7/2014	11/7/2014	11/10/2014
Preliminary Disposal Facility Category		MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type B	MCP Regulated Type B-1	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A
Chlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0811	<0.0412
Chloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.162	<0.0825
Chloroform	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0811	<0.0412
Chloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.162	<0.0825
cis-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0811	<0.0412
cis-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0811	<0.0412
Dibromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0811	<0.0412
Dibromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0811	<0.0412
Dichlorodifluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0811	<0.0412
Diethyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0811	<0.0412
Di-isopropyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0811	<0.0412
Ethyl tertiary-butyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0811	<0.0412
Ethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.449	<0.0412
Hexachlorobutadiene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0811	<0.0412
Isopropylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0811	<0.0412
Methyl tert-Butyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0811	<0.0412
Methylene Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.324	<0.165
Naphthalene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	26.1	1.9
n-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0811	<0.0412
n-Propylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0811	<0.0412
sec-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0811	<0.0412
Styrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0811	<0.0412
tert-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0811	<0.0412
Tertiary-amyl methyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0811	<0.0412
Tetrachloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0811	<0.0412
Tetrahydrofuran	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.324	<0.165
Toluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.34	<0.0412
trans-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0811	<0.0412
trans-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0811	<0.0412
Trichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0811	<0.0412
Trichlorofluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0811	<0.0412
Vinyl Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0811	<0.0412
Xylene O	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.679	<0.0412
Xylene P,M	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.36	<0.0825
Xylenes (Total)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2.03	<0.0825
Total VOCs	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	33.57	1.9
Volatile Organic Compounds - Low Level Analysis																									
1,1,1,2-Tetrachloroethane	mg/kg	<0.0048	<0.0048	<0.0041	<0.0032	<0.0040	<0.0045	<0.0044	<0.0042	<0.0032	<0.0036	<0.0036	<0.0037	<0.0041	<0.0041	<0.0049	<0.0057	<0.0036	<0.0042	<0.0048	<0.0033	--	<0.0027	--	<0.0020
1,1,1-Trichloroethane	mg/kg	<0.0048	<0.0048	<0.0041	<0.0032	<0.0040	<0.0045	<0.0044	<0.0042	<0.0032	<0.0036	<0.0036	<0.0037	<0.0041	<0.0041	<0.0049	<0.0057	<0.0036	<0.0042	<0.0048	<0.0033	--	<0.0027	--	<0.0020
1,1,2,2-Tetrachloroethane	mg/kg	<0.0019	<0.0019	<0.0016	<0.0013	<0.0016	<0.0018	<0.0018	<0.0017	<0.0013	<0.0014	<0.0015	<0.0015	<0.0016	<0.0016	<0.0020	<0.0023	<0.0014	<0.0017	<0.0019	<0.0013	--	<0.0011	--	<0.0008
1,1,2-Trichloroethane	mg/kg	<0.0048	<0.0048	<0.0041	<0.0032	<0.0040	<0.0045	<0.0044	<0.0042	<0.0032	<0.0036	<0.0036	<0.0037	<0.0041	<0.0041	<0.0049	<0.0057	<0.0036	<0.0042	<0.0048	<0.0033	--	<0.0027	--	<0.0020
1,1-Dichloroethane	mg/kg	<0.0048	<0.0048	<0.0041	<0.0032	<0.0040	<0.0045	<0.0044	<0.0042	<0.0032	<0.0036	<0.0036	<0.0037	<0.0041	<0.0041	<0.0049	<0.0057	<0.0036	<0.0042	<0.0048	<0.0033	--	<0.0027	--	<0.0020
1,1-Dichloroethene	mg/kg	<0.0048	<0.0048	<0.0041	<0.0032	<0.0040	<0.0045	<0.0044	<0.0042	<0.0032	<0.0036	<0.0036	<0.0037	<0.0041	<0.0041	<0.0049	<0.0057	<0.0036	<0.0042	<0.0048	<0.0033	--	<0.0027	--	<0.0020
1,1-Dichloropropene	mg/kg	<0.0048	<0.0048	<0.0041	<0.0032	<0.0040	<0.0045	<0.0044	<0.0042	<0.0032	<0.0036	<0.0036	<0.0037	<0.0041	<0.0041	<0.0049	<0.0057	<0.0036	<0.0042	<0.0048	<0.0033	--	<0.0027	--	<0.0020
1,2,3-Trichlorobenzene	mg/kg	<0.0048	<0.0048	<0.0041	<0.0032	<0.0040	<0.0045	<0.0044	<0.0042	<0.0032	<0.0036	<0.0036	<0.0037	<0.0041	<0.0041	<0.0049	<0.0057	<0.0036	<0.0042	<0.0048	<0.0033	--	<0.0027	--	<0.0020
1,2,3-Trichloropropane	mg/kg	<0.0048	<0.0048	<0.0041	<0.0032	<0.0040	<0.0045	<0.0044	<0.0042	<0.0032	<0.0036	<0.0036	<0.0037	<0.0041	<0.0041	<0.0049	<0.0057	<0.0036	<0.0042	<0.0048	<0.0033	--	<0.0027	--	<0.0020
1,2,4-Trichlorobenzene	mg/kg	<0.0048	<0.0048	<0.0041	<0.0032	<0.0040	<0.0045	<0.0044	<0.0042	<0.0032	<0.0036	<0.0036	<0.0037	<0.0041	<0.0041	<0.0049	<0.0057	<0.0036	<0.0042	<0.0048	<0.0033	--	<0.0027	--	<0.0020
1,2,4-Trimethylbenzene	mg/kg	<0.0048	<0.0048	<0.0041	<0.0032	<0.0040	<0.0045	<0.0044	<0.0042	<0.0032	<0.0036	<0.0036	<0.0037	<0.0041	<0.0041	<0.0049	<0.0057	<0.0036	<0.0042	<0.0048	<0.0033	--	<0.0027	--	0.0142
1,2-Dibromo-3-Chloropropane	mg/kg	<0.0048	<0.0048	<0.0041	<0.0032	<0.0040	<0.0045	<0.0044	<0.0042	<0.0032	<0.0036	<0.0036	<0.0037	<0.0041	<0.0041	<0.0049	<0.0057	<0.0036	<0.0042	<0.0048	<0.0033	--	<0.0027	--	<0.0020
1,2-Dibromoethane	mg/kg	<0.0048	<0.0048	<0.0041	<0.0032	<0.0040	<0.0045	<0.0044	<0.0042	<0.0032	<0.0036	<0.0036	<0.0037	<0.0041	<0.0041	<0.0049	<0.0057	<0.0036	<0.0042	<0.0048	<0.0033	--	<0.0027	--	<0.0020
1,2-Dichlorobenzene	mg/kg	<0.0048	<0.0048	<0.0041	<0.0032	<0.0040	<0.0045	<0.0044	<0.0042	<0.0032	<0.0036	<0.0036	<0.0037	<0.0041	<0.0041	<0.0049	<0.0057	<0.0036	<0.0042	<0.0048	<0.0033	--	<0.0027	--	<0.0020
1,2-Dichloroethane	mg/kg	<0.0048	<0.0048	<0.0041	<0.0032	<0.0040	<0.0045	<0.0044	<0.0042	<0.0032	<0.0036	<0.0036	<0.0037	<0.0041	<0.0041	<0.0049	<0.0057	<0.0036	<0.0042	<0.0048	<0.0033	--	<0.0027	--	<0.0020
1,2-Dichloropropane	mg/kg	<0.0048	<0.0048	<0.0041	<0.0032	<0.0040	<0.0045	<0.0044	<0.0042	<0.0032	<0.0036	<0.0036	<0.0037	<0.0041	<0.0041	<0.0049	<0.0057	<0.0036	<0.0042	<0.0048	<0.0033	--	<0.0027	--	<0.0020
1,3,5-Trimethylbenzene	mg/kg	<0.0048	<0.0048	<0.0041	<0.0032	<0.0040	<0.0045	<0.0044	<0.0042	<0.0032	<0.0036	<0.0036	<0.0037	<0.0041	<0.0041	<0.0049	<0.0057	<0.0036	<0.0042	<0.0048	<0.0033	--	<0.0027	--	0.0073
1,3-Dichlorobenzene	mg/kg	<0.0048	<0.0048	<0.0041	<0.0032	<0.0040	<0.0045	<0.0044	<0.0042	<0.0032	<0.0036	<0.0036	<0.0037	<0.0041	<0.0041	<0.0049	<0.0057	<0.0036	<0.0042	<0.0048	<0.0033	--	<0.0027	--	<0.0020
1,3-Dichloropropane	mg/kg	<0.0048	<0.0048	<0.0041	<0.0032	<0.0040	<0.0045	<0.0044	<0.0042	<0.0032	<0.0036	<0.0036	<0.0037	<0.0041	<0.0041	<0.0049	<0.0057	<0.0036	<0.0042	<0.0048	<0.0033	--	<0.0027	--	<0.0020
1,4-Dichlorobenzene	mg/kg	<0.0048	<0.0048	<0.0041	<0.0032	<0.0040	<0.0045	<0.0044	<0.0042	<0.0032	<0.0036	<0.0036	<0.0037	<0.0041	<0.0041	<0.0049	<0.0057	<0.0036	<0.0042	<0.0048	<0.0033	--	<0.0027	--	<0.0020
1,4-Dioxane	mg/kg	<0.0969	<0.0958	<0.0824	<0.0641	<0.0798	<0.0904	<0.0885	<0.0843	<0.0642	<0.0718	<0.0728	<0.0732	<0.0818	<0.0822	<0.0988	<0.115	<0.0718	<0.0840	<0.0957	<0.0663	--	<0.0540	--	<0.0408
2,2-Dichloropropane	mg/kg	<0.0048	<0.0048	<0.0041	<0.0032	<0.0040	<0.0045	<0.0044	<0.0042	<0.0032	<0.0036	<0.0036	<0.0037	<0.0041	<0.0041	<0.0049	<0.0057	<0.0036	<0.0042	<0.0048	<0.0033	--	<0.0027	--	<0.0020
2-Butanone	mg/kg	<0.0097	<0.0096	<0.0082	<0.0064	<0.0080	<0.0090	0.0104	<0.0084	<0.0064	<0.0072	<0.0073	0.0075	<0.0082	<0.0082	0.0437	0.0469	0.0079	<0.0084	<0.0096	<0.0066	--	<0.0054	--	<0.0041
2-Chlorotoluene	mg/kg	<0.0048	<0.0048	<0.0041	<0.0032	<0.0040	<0.0045	<0.0044	<0.0042	<0.0032	<0.0036	<0.0036	<0.0037	<0.0041	<0.0041	<0.0049	<0.0057	<0.0036	<0.0042	<0.0048	<0.0033	--	<0.0027	--	<0.0020
2-Hexanone	mg/kg	<0.0097	<0.0096	<0.0082	<0.0064	<0.0080	<0.0090	<0.0088	<0.0084	<0.0064	<0.0072	<0.0073	<0.0073	<0.0082	<0.0082	<0.0099	<0.0115	<0.0072	<0.0084	<0.0096	<0.0066	--	<0.0054	--	<0.0041
4-Chlorotoluene	mg/kg	<0.0048	<0.0048	<0.0041	<0.0032	<0.0040	<0.0045	<0.0044	<0.0042	<0.0032	<0.0036	<0.0036	<0.0037	<0.0041	<0.0041	<0.0049	<0.0057	<0.0036	<0.0042	<0.0048	<0.0033	--	<0.0027	--	<0.0020
4-Isopropyltoluene	mg/kg	<0.0048	<0.0048	<0.0041	<0.0032	<0.0040	<0.0045	<0.0044	<0.0042	<0.0032	<0.0036	<0.0036	<0.0037	<0.0041	<0.0041	<0.0049	0.019	<0.0036	<0.0042	<0.0048	<0.0033	--	<0.0027	--	0.0036
4-Methyl-2-Pentanone	mg/kg	<0.0097	<0.0096	<0.0082	<0.0064	<0.0080	<0.0090	<0.0088	<0.0084	<0.0064	<0.0072	<0.0073	<0.0073	<0.0082	<0.0082	<0.0099	<0.0115	<0.0072	<0.0084	<0.0096	<0.0066	--	<0.0054	--	<0.0041
Acetone	mg/kg	0.0437	<0.0096	<0.0082	0.0202	<0.0080	0.0247	0.0512	0.0181	<0.0064	<0.0072	<0.0073	0.0458	0.0437	<0.0082	0.233	0.476	0.0346	0.0188	<0.0096	<0.0066	--	0.0088	--	<0.0041
Benzene	mg/kg	<0.0048	<0.0048	<0.0041	<0.0032	<0.0040	<0.0045	<0.0044	<0.0042	<0.0032	<0.0036	<0.0036	<0.0037	<0.0041	<0.0041	<0.0049	<0.0057	<0.0036	<0.0042	<0.0048	<0.0033	--	<0.0027	--	0.0048
Bromobenzene	mg/kg	<0.0048	<0.0048	<0.0041	<0.0032	<0.0040	<0.0045	<0.0044	<0.0042	<0.0032	<0.0036	<0.0036	<0.0037	<0.0041	<0.0041	<0.0049	<0.0057	<0.0036	<0.0042	<0.0048	<0.0033	--	<0.0027	--	<0.0020
Bromochloromethane	mg/kg	<0.0048	<0.0048	<0.0041	<0.0032	<0.0040	<0.0045	<0.0044	<0.0042	<0.0032	<0.0036	<0.0036	<0.0037	<0.0041	<0.0041	<0.0049	<0.0057	<0.0036	<0.0042	<0.0048	<0.0033	--	<0.0027	--	<0.0020
Bromodichloromethane	mg/kg	<0.0048	<0.0048	<0.0041	<0.0032	<0.0040	<0.0045	<0.0044	<0.0042	<0.0032	<0.0036	<0.0036	<0.0037	<0.0041	<0.0041	<0.0049	<0.0057	<0.0036	<0.0042	<0.0048	<0.0033	--	<0.0027	--	<0.0020
Bromoform	mg/kg	<0.0048	<0.0048	<0.0041	<0.0032	<0.0040	<0.0045	<0.0044	<0.0042	<0.0032	<0.0036	<0.0036	<0.0037	<0.0041	<0.0041	<0.0049	<0.0057	<0.0036	<0.0042	<0.0048	<0.0033	--	<0.0027	--	<0.0020
Bromomethane	mg/kg	<0.0097	<0.0096	<0.0082	<0.0064	<0.0080	<0.0090	<0.0088	<0.0084	<0.0064	<0.0072	<0.0073	<0.0073	<0.0082	<0.0082	<0.0099	<0.0115	<0.0072	<0.0084	<0.0096	<0.0066	--	<0.0054	--	<0.0041
Carbon Disulfide	mg/kg	<0.0048	<0.0048	<0.0041	<0.0032	<0.0040	<0.0045	<0.0044	<0.0042	<0.0032	<0.0036	<0.0036	<0.0037	<0.0041	0.0121	0.0294	0.0387	<0.0036	<0.0042	<0.0048	<0.0033	--	<0.0027	--	0.0097
Carbon Tetrachloride	mg/kg	<0.0048	<0.0048	<0.0041	<0.0032	<0.0040	<0.0045	<0.0044	<0.0042	<0.0032	<0.0036	<0.0036	<0.0037	<0.0041	<0.0041	<0.0049	<0.0057	<0.0036	<0.0042	<0.0048	<0.0033	--	<0.0027	--	<0.0020
Chlorobenzene	mg/kg	<0.0048	<0.0048	<0.0041	<0.0032	<0.0040	<0.0045	<0.0044	<0.0042	<0.0032	<0.0036	<0.0036	<0.0037	<0.0041	<0.0041	<0.0049	<0.0057	<0.0036	<0.0042	<0.0048	<0.0033	--	<0.0027	--	<0.0020
Chloroethane	mg/kg	<0.0097	<0.0096	<0.0082	<0.0064	<0.0080	<0.0090	<0.0088	<0.0084	<0.0064	<0.0072	<0.0073	<0.0073	<0.0082	<0.0082	<0.0099	<0.0115	<0.0072	<0.0084	<0.0096	<0.0066	--	<0.0054	--	<0.0041
Chloroform	mg/kg	<0.0048	<0.0048	<0.0041	<0.0032	<0.0040	<0.0045	<0.0044	<0.0042	<0.0032	<0.0036	<0.0036	<0.0037	<0.0041	<0.0041	<0.0049	<0.0057	<0.0036	<0.0042	<0.0048	<0.0033	--	<0.0027	--	<0.0020
Chloromethane	mg/kg	<0.0097	<0.0096	<0.0082	<0.0064	<0.0080	<0.0090	<0.0088	<0.0084	<0.0064	<0.0072	<0.0073	<0.0073	<0.0082	<0.0082	<0.0099	<0.0115	<0.0072	<0.0084	<0.0096	<0.0066	--	<0.0054	--	<0.0041
cis-1,2-Dichloroethene	mg/kg	<0.0048	<0.0048	<0.0041	<0.0032	<0.0040	<0.0045	<0.0044	<0.0042	<0.0032	<0.0036	<0.0036	<0.0037	<0.0041	<0.0041	<0.0049	<0.0057	<0.0036	<0.0042	<0.0048	<0.0033	--	<0.0027	--	<0.0020
cis-1,3-Dichloropropene	mg/kg	<0.0048	<0.0048	<0.0041	<0.0032	<0.0040	<0.0045	<0.0044	<0.0042	<0.0032	<0.0036	<0.0036	<0.0037	<0.0041	<0.0041	<0.0049	<0.0057	<0.0036	<0.0042	<0.0048	<0.0033	--	<0.0027	--	<0.0020
Dibromochloromethane	mg/kg	<0.0019	<0.0019	<0.0016	<0.0013	<0.0016	<0.0018	<0.0018	<0.0017	<0.0013	<0.0014	<0.0015	<0.0015	<0.0016	<0.0016	<0.0020	<0.0023	<0.0014	<0.0017	<0.0019	<0.0013	--	<0.0011	--	<0.0008
Dibromomethane	mg/kg	<0.0048	<0.0048	<0.0041	<0.0032	<0.0040	<0.0045	<0.0044	<0.0042	<0.0032	<0.0036	<0.0036	<0.0037	<0.0041	<0.0041	<0.0049	<0.0057	<0.0036	<0.0042	<0.0048	<0.0033	--	<0.0027	--	<0.0020
Dichlorodifluoromethane	mg/kg	<0.0097	<0.0096	<0.0082	<0.0064	<0.0080	<0.0090	<0.0088	<0.0084	<0.0064	<0.0072	<0.0073	<0.0073	<0.0082	<0.0082	<0.0099	<0.0115	<0.0072	<0.0084	<0.0096	<0.0066	--	<0.0054	--	<0.0041
Diethyl Ether	mg/kg	<0.0048	<0.0048	<0.0041	<0.0032	<0.0040	<0.0045	<0.0044	<0.0042	<0.0032	<0.0036	<0.0036	<0.0037	<0.0041	<0.0041	<0.0049	<0.0057	<0.0036	<0.0042	<0.0048	<0.0033	--	<0.0027	--	<0.0020
Di-isopropyl ether	mg/kg	<0.0048	<0.0048	<0.0041	<0.0032	<0.0040	<0.0045	<0.0044	<0.0042	<0.0032	<0.0036	<0.0036	<0.0037	<0.0041	<0.0041	<0.0049	<0.0057	<0.0036	<0.0042	<0.0048	<0.0033	--	<0.0027	--	<0.0020
Ethyl tertiary-butyl ether	mg/kg	<0.0048	<0.0048	<0.0041	<0.0032	<0.0040	<0.0045	<0.0044	<0.0042	<0.0032	<0.0036	<0.0036	<0.0037	<0.0041	<0.0041	<0.0049	<0.0057	<0.0036	<0.0042	<0.0048	<0.0033	--	<0.0027	--	<0.0020
Ethylbenzene	mg/kg	<0.0048	<0.0048	<0.0041	<0.0032	<0.0040	<0.0045	<0.0044	<0.0042	<0.0032	<0.0036	<0.0036	<0.0037	<0.0041	<0.0041	<0.0049	<0.0057	<0.0036	<0.0042	<0.0048	<0.0033	--	<0.0027	--	0.0069
Hexachlorobutadiene	mg/kg	<0.0048	<0.0048	<0.0041	<0.0032	<0.0040	<0.0045	<0.0044	<0.0042	<0.0032	<0.0036	<0.0036	<0.0037	<0.0041	<0.0041	<0.0049	<0.0057	<0.0036	<0.0042	<0.0048	<0.0033	--	<0.0027	--	<0.0020
Isopropylbenzene	mg/kg	<0.0048	<0.0048	<0.0041	<0.0032	<0.0040	<0.0045	<0.0044	<0.0042	<0.0032	<0.0036	<0.0036	<0.0037	<0.0041	<0.0041	<0.0049	<0.0057	<0.0036	<0.0042	<0.0048	<0.0033	--	<0.0027	--	<0.0020
Methyl tert-Butyl Ether	mg/kg	<0.0048	<0.0048	<0.0041	<0.0032	<0.0040	<0.0045	<0.0044	<0.0042	<0.0032	<0.0036	<0.0036	<0.0037	<0.0041	<0.0041	<0.0049	<0.0057	<0.0036	<0.0042	<0.0048	<0.0033	--	<0.0027	--	<0.0020
Methylene Chloride	mg/kg	<0.0097	<0.0096	<0.0082	<0.0064	<0.0080	<0.0090	<0.0088	<0.0084	<0.0064	<0.0072	<0.0073	<0.0073	<0.0082	<0.0082	<0.0099	<0.0115	<0.0072	<0.0084	<0.0096	<0.0066	--	<0.0054	--	<0.0041
Naphthalene	mg/kg	<0.0048	<0.0048	<0.0041	<0.0032	<0.0040	<0.0045	<0.0044	<0.0042	<0.0032	<0.0036	<0.0036	<0.0037	<0.0041	<0.0041	<0.0049	0.0375	<0.0036	<0.0042	0.0053	<0.0033	--	<0.0027	--	0.201
n-Butylbenzene	mg/kg	<0.0048	<0.0048	<0.0041	<0.0032	<0.0040	<0.0045	<0.0044	<0.0042	<0.0032	<0.0036	<0.0036	<0.0037	<0.0041	<0.0041	<0.0049	<0.0057	<0.0036	<0.0042	<0.0048	<0.0033	--	<0.0027	--	<0.0020
n-Propylbenzene	mg/kg	<0.0048	<0.0048	<0.0041	<0.0032	<0.0040	<0.0045	<0.0044	<0.0042	<0.0032	<0.0036	<0.0036	<0.0037	<0.0041	<0.0041	<0.0049	<0.0057	<0.0036	<0.0042	<0.0048	<0.0033	--	<0.0027	--	<0.0020
sec-Butylbenzene	mg/kg	<0.0048	<0.0048	<0.0041	<0.0032	<0.0040	<0.0045	<0.0044	<0.0042	<0.0032	<0.0036	<0.0036	<0.0037	<0.0041	<0.0041	<0.0049	<0.0057	<0.0036	<0.0042	<0.0048	<0.0033	--	<0.0027	--	<0.0020

Table 1
Soil Precharacterization Data

Wynn Resort Casino
Everett, Massachusetts

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	E17 E17512 1501358 Natural Clay 36 - 38 1/19/2015	E18 E18S01S02A 1412333 Fill 0 - 3.3 12/16/2014	E18 E18S02BS04A 1412333 Fill 3.3 - 6.6 12/16/2014	E18 E18S04BS05 1412333 Fill 6.6 - 10 12/16/2014	E18 E18S06S07 1412366 Fill 10 - 14 12/17/2014	E18 E18S08 1412366 Natural Organics 19 - 21 12/17/2014	E18 E18S09 1412366 Natural Organics 24 - 26 12/17/2014	E18 E18S10 1412366 Natural Organics 29 - 31 12/17/2014	E18 E18S11S12 1412366 Natural Clay 34 - 38 12/17/2014	E19 E19S01S02A 1412366 Fill 0 - 3.3 12/17/2014	E19 E19S02BS04A 1412366 Fill 3.3 - 6.6 12/17/2014	E19 E19S04BS05 1412366 Fill 6.6 - 10 12/17/2014	E19 E19S06 1412366 Natural Organics 10 - 12 12/17/2014	E19 E19S07 1412366 Natural Organics 12 - 14 12/17/2014	E19 E19S08 1412366 Natural Organics 19 - 21 12/17/2014	E19 E19S09 1412366 Natural Organics 24 - 26 12/17/2014	E19 E19S10 1412409 Natural Organics 29 - 31 12/18/2014	E19 E19S11S12 1412409 Natural Clay 34 - 38 12/18/2014	E20 E20S01 1503115 Fill 4 - 6 3/6/2015	E20 GZ01OS01S02 1411148 Fill 0 - 4 11/6/2014	E20 GZ01OS03S05 1411172 Fill 4 - 12 11/7/2014	E20 GZ01OS06S08 1411172 Fill 12 - 18 11/7/2014	E20 GZ01OS09S11 1411172 Fill 18 - 25 11/7/2014	E20 GZ01OS12S15A 1411194 Natural Sand/Gravel 25 - 31.3 11/10/2014
Preliminary Disposal Facility Category		MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type B	MCP Regulated Type B-1	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A
Styrene	mg/kg	<0.0048	<0.0048	<0.0041	<0.0032	<0.0040	<0.0045	<0.0044	<0.0042	<0.0032	<0.0036	<0.0036	<0.0037	<0.0041	<0.0041	<0.0049	<0.0057	<0.0036	<0.0042	<0.0048	<0.0033	--	<0.0027	--	<0.0020
tert-Butylbenzene	mg/kg	<0.0048	<0.0048	<0.0041	<0.0032	<0.0040	<0.0045	<0.0044	<0.0042	<0.0032	<0.0036	<0.0036	<0.0037	<0.0041	<0.0041	<0.0049	<0.0057	<0.0036	<0.0042	<0.0048	<0.0033	--	<0.0027	--	<0.0020
Tertiary-amyl methyl ether	mg/kg	<0.0048	<0.0048	<0.0041	<0.0032	<0.0040	<0.0045	<0.0044	<0.0042	<0.0032	<0.0036	<0.0036	<0.0037	<0.0041	<0.0041	<0.0049	<0.0057	<0.0036	<0.0042	<0.0048	<0.0033	--	<0.0027	--	<0.0020
Tetrachloroethene	mg/kg	<0.0048	<0.0048	<0.0041	<0.0032	<0.0040	<0.0045	<0.0044	<0.0042	<0.0032	<0.0036	<0.0036	<0.0037	<0.0041	<0.0041	<0.0049	<0.0057	<0.0036	<0.0042	<0.0048	<0.0033	--	<0.0027	--	<0.0020
Tetrahydrofuran	mg/kg	<0.0048	<0.0048	<0.0041	<0.0032	<0.0040	<0.0045	<0.0044	<0.0042	<0.0032	<0.0036	<0.0036	<0.0037	<0.0041	<0.0041	<0.0049	<0.0057	<0.0036	<0.0042	<0.0048	<0.0033	--	<0.0027	--	<0.0020
Toluene	mg/kg	<0.0048	<0.0048	<0.0041	<0.0032	<0.0040	<0.0045	<0.0044	<0.0042	<0.0032	<0.0036	<0.0036	<0.0037	<0.0041	<0.0041	<0.0049	<0.0057	<0.0036	<0.0042	<0.0048	<0.0033	--	<0.0027	--	0.0128
trans-1,2-Dichloroethene	mg/kg	<0.0048	<0.0048	<0.0041	<0.0032	<0.0040	<0.0045	<0.0044	<0.0042	<0.0032	<0.0036	<0.0036	<0.0037	<0.0041	<0.0041	<0.0049	<0.0057	<0.0036	<0.0042	<0.0048	<0.0033	--	<0.0027	--	<0.0020
trans-1,3-Dichloropropene	mg/kg	<0.0048	<0.0048	<0.0041	<0.0032	<0.0040	<0.0045	<0.0044	<0.0042	<0.0032	<0.0036	<0.0036	<0.0037	<0.0041	<0.0041	<0.0049	<0.0057	<0.0036	<0.0042	<0.0048	<0.0033	--	<0.0027	--	<0.0020
Trichloroethene	mg/kg	<0.0048	<0.0048	<0.0041	<0.0032	<0.0040	<0.0045	<0.0044	<0.0042	<0.0032	<0.0036	<0.0036	<0.0037	<0.0041	<0.0041	<0.0049	<0.0057	<0.0036	<0.0042	<0.0048	<0.0033	--	<0.0027	--	<0.0020
Trichlorofluoromethane	mg/kg	<0.0048	<0.0048	<0.0041	<0.0032	<0.0040	<0.0045	<0.0044	<0.0042	<0.0032	<0.0036	<0.0036	<0.0037	<0.0041	<0.0041	<0.0049	<0.0057	<0.0036	<0.0042	<0.0048	<0.0033	--	<0.0027	--	<0.0020
Vinyl Chloride	mg/kg	<0.0097	<0.0096	<0.0082	<0.0064	<0.0080	<0.0090	<0.0088	<0.0084	<0.0064	<0.0072	<0.0073	<0.0073	<0.0082	<0.0082	<0.0099	<0.0115	<0.0072	<0.0084	<0.0096	<0.0066	--	<0.0054	--	<0.0041
Xylene O	mg/kg	<0.0048	<0.0048	<0.0041	<0.0032	<0.0040	<0.0045	<0.0044	<0.0042	<0.0032	<0.0036	<0.0036	<0.0037	<0.0041	<0.0041	<0.0049	<0.0057	<0.0036	<0.0042	<0.0048	<0.0033	--	<0.0027	--	0.0089
Xylene P,M	mg/kg	<0.0097	<0.0096	<0.0082	<0.0064	<0.0080	<0.0090	<0.0088	<0.0084	<0.0064	<0.0072	<0.0073	<0.0073	<0.0082	<0.0082	<0.0099	<0.0115	<0.0072	<0.0084	<0.0096	<0.0066	--	<0.0054	--	0.0206
Xylenes (Total)	mg/kg	<0.0097	<0.0096	<0.0082	<0.0064	<0.0080	<0.0090	<0.0088	<0.0084	<0.0064	<0.0072	<0.0073	<0.0073	<0.0082	<0.0082	<0.0099	<0.0115	<0.0072	<0.0084	<0.0096	<0.0066	--	<0.0054	--	0.0295
Total VOCs (Low Level)	mg/kg	0.0437	ND	ND	0.0202	ND	0.0247	0.0616	0.0181	ND	ND	ND	0.0533	0.0437	0.0121	0.3061	0.6181	0.0425	0.0188	0.0053	ND	--	0.0088	--	0.3193
Semi-Volatile Organic Compounds																									
1,2,4-Trichlorobenzene	mg/kg	<1.08	<0.888	<0.810	<0.891	<0.985	<1.09	<1.16	<1.02	<0.978	<0.877	<0.825	<0.928	<1.02	<1.09	<1.18	<1.23	<0.975	<1.03	<0.853	<0.356	<0.941	<0.976	<1.01	<0.963
1,2-Dichlorobenzene	mg/kg	<1.08	<0.888	<0.810	<0.891	<0.985	<1.09	<1.16	<1.02	<0.978	<0.877	<0.825	<0.928	<1.02	<1.09	<1.18	<1.23	<0.975	<1.03	<0.853	<0.356	<0.941	<0.976	<1.01	<0.963
1,3-Dichlorobenzene	mg/kg	<1.08	<0.888	<0.810	<0.891	<0.985	<1.09	<1.16	<1.02	<0.978	<0.877	<0.825	<0.928	<1.02	<1.09	<1.18	<1.23	<0.975	<1.03	<0.853	<0.356	<0.941	<0.976	<1.01	<0.963
1,4-Dichlorobenzene	mg/kg	<0.543	<0.446	<0.406	<0.447	<0.494	<0.545	<0.582	<0.511	<0.491	<0.440	<0.414	<0.465	<0.512	<0.544	<0.591	<0.615	<0.489	<0.517	<0.428	<0.178	<0.472	<0.490	<0.509	<0.483
2,4,5-Trichlorophenol	mg/kg	<1.08	<0.888	<0.810	<0.891	<0.985	<1.09	<1.16	<1.02	<0.978	<0.877	<0.825	<0.928	<1.02	<1.09	<1.18	<1.23	<0.975	<1.03	<0.853	<0.356	<0.941	<0.976	<1.01	<0.963
2,4,6-Trichlorophenol	mg/kg	<1.08	<0.888	<0.810	<0.891	<0.985	<1.09	<1.16	<1.02	<0.978	<0.877	<0.825	<0.928	<1.02	<1.09	<1.18	<1.23	<0.975	<1.03	<0.853	<0.356	<0.941	<0.976	<1.01	<0.963
2,4-Dichlorophenol	mg/kg	<1.08	<0.888	<0.810	<0.891	<0.985	<1.09	<1.16	<1.02	<0.978	<0.877	<0.825	<0.928	<1.02	<1.09	<1.18	<1.23	<0.975	<1.03	<0.853	<0.356	<0.941	<0.976	<1.01	<0.963
2,4-Dimethylphenol	mg/kg	<1.08	<0.888	<0.810	<0.891	<0.985	<1.09	<1.16	<1.02	<0.978	<0.877	<0.825	<0.928	<1.02	<1.09	<1.18	<1.23	<0.975	<1.03	<0.853	<0.356	<0.941	<0.976	1.83	<0.963
2,4-Dinitrophenol	mg/kg	<5.43	<4.46	<4.06	<4.47	<4.94	<5.45	<5.82	<5.11	<4.91	<4.40	<4.14	<4.65	<5.12	<5.44	<5.91	<6.15	<4.89	<5.17	<4.28	<1.78	<4.72	<4.90	<5.09	<4.83
2,4-Dinitrotoluene	mg/kg	<1.08	<0.888	<0.810	<0.891	<0.985	<1.09	<1.16	<1.02	<0.978	<0.877	<0.825	<0.928	<1.02	<1.09	<1.18	<1.23	<0.975	<1.03	<0.853	<0.356	<0.941	<0.976	<1.01	<0.963
2,6-Dinitrotoluene	mg/kg	<1.08	<0.888	<0.810	<0.891	<0.985	<1.09	<1.16	<1.02	<0.978	<0.877	<0.825	<0.928	<1.02	<1.09	<1.18	<1.23	<0.975	<1.03	<0.853	<0.356	<0.941	<0.976	<1.01	<0.963
2-Chloronaphthalene	mg/kg	<1.08	<0.888	<0.810	<0.891	<0.985	<1.09	<1.16	<1.02	<0.978	<0.877	<0.825	<0.928	<1.02	<1.09	<1.18	<1.23	<0.975	<1.03	<0.853	<0.356	<0.941	<0.976	<1.01	<0.963
2-Chlorophenol	mg/kg	<1.08	<0.888	<0.810	<0.891	<0.985	<1.09	<1.16	<1.02	<0.978	<0.877	<0.825	<0.928	<1.02	<1.09	<1.18	<1.23	<0.975	<1.03	<0.853	<0.356	<0.941	<0.976	<1.01	<0.963
2-Methylnaphthalene	mg/kg	<1.08	<0.888	<0.810	<0.891	<0.985	<1.09	<1.16	<1.02	<0.978	<0.877	<0.825	<0.928	<1.02	<1.09	<1.18	<1.23	<0.975	<1.03	<0.853	<0.356	<0.941	<0.976	20.6	8.05
2-Methylphenol	mg/kg	<1.08	<0.888	<0.810	<0.891	<0.985	<1.09	<1.16	<1.02	<0.978	<0.877	<0.825	<0.928	<1.02	<1.09	<1.18	<1.23	<0.975	<1.03	<0.853	<0.356	<0.941	<0.976	<1.01	<0.963
2-Nitrophenol	mg/kg	<1.08	<0.888	<0.810	<0.891	<0.985	<1.09	<1.16	<1.02	<0.978	<0.877	<0.825	<0.928	<1.02	<1.09	<1.18	<1.23	<0.975	<1.03	<0.853	<0.356	<0.941	<0.976	<1.01	<0.963
3,3´-Dichlorobenzidine	mg/kg	<2.17	<1.78	<1.62	<1.79	<1.97	<2.18	<2.32	<2.04	<1.96	<1.76	<1.65	<1.86	<2.04	<2.17	<2.36	<2.46	<1.95	<2.07	<1.71	<0.712	<1.89	<1.96	<2.03	<1.93
3+4-Methylphenol	mg/kg	<2.17	<1.78	<1.62	<1.79	<1.97	<2.18	<2.32	<2.04	<1.96	<1.76	<1.65	<1.86	<2.04	<2.17	4.28	<2.46	<1.95	<2.07	<1.71	<0.712	<1.89	<1.96	<2.03	<1.93
4-Bromophenyl-phenylether	mg/kg	<1.08	<0.888	<0.810	<0.891	<0.985	<1.09	<1.16	<1.02	<0.978	<0.877	<0.825	<0.928	<1.02	<1.09	<1.18	<1.23	<0.975	<1.03	<0.853	<0.356	<0.941	<0.976	<1.01	<0.963
4-Chloroaniline	mg/kg	<2.17	<1.78	<1.62	<1.79	<1.97	<2.18	<2.32	<2.04	<1.96	<1.76	<1.65	<1.86	<2.04	<2.17	<2.36	<2.46	<1.95	<2.07	<1.71	<0.712	<1.89	<1.96	<2.03	<1.93
4-Nitrophenol	mg/kg	<5.43	<4.46	<4.06	<4.47	<4.94	<5.45	<5.82	<5.11	<4.91	<4.40	<4.14	<4.65	<5.12	<5.44	<5.91	<6.15	<4.89	<5.17	<4.28	<1.78	<4.72	<4.90	<5.09	<4.83
Acenaphthene	mg/kg	<1.08	<0.888	<0.810	<0.891	<0.985	<1.09	<1.16	<1.02	<0.978	<0.877	<0.825	<0.928	<1.02	<1.09	<1.18	<1.23	<0.975	<1.03	<0.853	<0.356	<0.941	1.34	17.3	18.2
Acenaphthylene	mg/kg	<1.08	<0.888	<0.810	<0.891	<0.985	<1.09	<1.16	<1.02	<0.978	<0.877	<0.825	<0.928	<1.02	<1.09	<1.18	1.76	<0.975	<1.03	<0.853	<0.356	<0.941	<0.976	<1.01	<0.963
Acetophenone	mg/kg	<2.17	<1.78	<1.62	<1.79	<1.97	<2.18	<2.32	<2.04	<1.96	<1.76	<1.65	<1.86	<2.04	<2.17	<2.36	<2.46	<1.95	<2.07	<1.71	<0.712	<1.89	<1.96	<2.03	<1.93
Aniline	mg/kg	<5.43	<4.46	<4.06	<4.47	<4.94	<5.45	<5.82	<5.11	<4.91	<4.40	<4.14	<4.65	<5.12	<5.44	<5.91	<6.15	<4.89	<5.17	<4.28	<1.78	<4.72	<4.90	<5.09	<4.83
Anthracene	mg/kg	<1.08	<0.888	<0.810	<0.891	<0.985	<1.09	<1.16	<1.02	<0.978	<0.877	<0.825	<0.928	<1.02	<1.09	<1.18	4.14	<0.975	<1.03	<0.853	<0.356	<0.941	<0.976	14.9	8.07
Azobenzene	mg/kg	<1.08	<0.888	<0.810	<0.891	<0.985	<1.09	<1.16	<1.02	<0.978	<0.877	<0.825	<0.928	<1.02	<1.09	<1.18	<1.23	<0.975	<1.03	<0.853	<0.356	<0.941	<0.976	<1.01	<0.963
Benzo(a)anthracene	mg/kg	<1.08	<0.888	<0.810	<0.891	<0.985	<1.09	1.77	<1.02	<0.978	<0.877	<0.825	<0.928	<1.02	<1.09	<1.18	6.58	<0.975	<1.03	<0.853	<0.356	<0.941	<0.976	2.41	5.56
Benzo(a)pyrene	mg/kg	<0.543	<0.446	<0.406	<0.447	<0.494	<0.545	1.3	<0.511	<0.491	<0.440	<0.414	<0.465	<0.512	<0.544	<0.591	5.06	<0.489	<0.517	0.546	<0.178	<0.472	<0.490	0.764	1.62
Benzo(b)fluoranthene	mg/kg	<1.08	<0.888	<0.810	<0.891	<0.985	<1.09	1.22	<1.02	<0.978	<0.877	<0.825	<0.928	<1.02	<1.09	<1.18	4.93	<0.975	<1.03	<0.853	<0.356	<0.941	<0.976	1.11	2.73
Benzo(g,h,i)perylene	mg/kg	<1.08	<0.888	<0.810	<0.891	<0.985	<1.09	<1.16	<1.02	<0.978	<0.877	<0.825	<0.928	<1.02	<1.09	<1.18	1.31	<0.975	<1.03	<0.853	<0.356	<0.941	<0.976	<1.01	<0.963
Benzo(k)fluoranthene	mg/kg	<1.08	<0.888	<0.810	<0.891	<0.985	<1.09	<1.16	<1.02	<0.978	<0.877	<0.825	<0.928	<1.02	<1.09	<1.18	1.53	<0.975	<1.03	<0.853	<0.356	<0.941	<0.976	<1.01	<0.963
bis(2-Chloroethoxy)methane	mg/kg	<1.08	<0.888	<0.810	<0.891	<0.985	<1.09	<1.16	<1.02	<0.978	<0.877	<0.825	<0.928	<1.02	<1.09	<1.18	<1.23	<0.975	<1.03	<0.853	<0.356	<0.941	<0.976	<1.01	<0.963
bis(2-Chloroethyl)ether	mg/kg	<0.543	<0.446	<0.406	<0.447	<0.494	<0.545	<0.582	<0.511	<0.491	<0.440	<0.414	<0.465	<0.512	<0.544	<0.591	<0.615	<0.489	<0.517	<0.428	<0.178	<0.472	<0.490	<0.509	<0.483
bis(2-chloroisopropyl)Ether	mg/kg	<0.543	<0.446	<0.406	<0.447	<0.494	<0.545	<0.582	<0.511	<0.491	<0.440	<0.414	<0.465	<0.512	<0.544	<0.591	<0.615	<0.489	<0.517	<0.428	<0.178	<0.472	<0.490	<0.509	<0.483
bis(2-Ethylhexyl)phthalate	mg/kg	<1.08	<0.888	<0.810	<0.891	<0.985	<1.09	<1.16	<1.02	<0.978	<0.877	<0.825	<0.928	<1.02	<1.09	<1.18	<1.23	<0.975	<1.03	0.885	<0.356	<0.941	<0.976	<1.01	<0.963
Butylbenzylphthalate	mg/kg	<1.08	<0.888	<0.810	<0.891	<0.985	<1.09	<1.16	<1.02	<0.978	<0.877	<0.825	<0.928	<1.02	<1.09	<1.18	<1.23	<0.975	<1.03	<0.853	<0.356	<0.941	<0.976	<1.01	<0.963
Chrysene	mg/kg	<0.543	<0.446	<0.406	<0.447	<0.494	<0.545	1.86	0.512	<0.491	<0.440	<0.414	<0.465	<0.512	<0.544	<0.591	7.37	<0.489	<0.517	0.645	<0.178	<0.472	0.798	2.17	4.64
Dibenzo(a,h)Anthracene	mg/kg	<0.543	<0.446	<0.406	<0.447	<0.494	<0.545	<0.582	<0.511	<0.491	<0.440	<0.414	<0.465	<0.512	<0.544	<0.591	<0.615	<0.489	<0.517	<0.428	<0.178	<0.472	<0.490	<0.509	<0.483
Dibenzofuran	mg/kg	<1.08	<0.888	<0.810	<0.891	<0.985	<1.09	<1.16	<1.02	<0.978	<0.877	<0.825	<0.928	<1.02	<1.09	<1.18	<1.23	<0.975	<1.03	<0.853	<0.356	<0.941	1.65	11.6	13.1
Diethylphthalate	mg/kg	<1.08	<0.888	<0.810	<0.891	<0.985	<1.09	<1.16	<1.02	<0.978	<0.877	<0.825	<0.928	<1.02	<1.09	<1.18	<1.23	<0.975	<1.03	<0.853	<0.356	<0.941	<0.976	<1.01	<0.963
Dimethylphthalate	mg/kg	<1.08	<0.888	<0.810	<0.891	<0.985	<1.09	<1.16	<1.02	<0.978	<0.877	<0.825	<0.928	<1.02	<1.09	<1.18	<1.23	<0.975	<1.03	<0.853	<0.356	<0.941	<0.976	<1.01	<0.963
Di-n-butylphthalate	mg/kg	<1.08	<0.888	<0.810	<0.891	<0.985	<1.09	<1.16	<1.02	<0.978	<0.877	<0.825	<0.928	<1.02	<1.09	<1.18	<1.23	<0.975	<1.03	<0.853	<0.356	<0.941	<0.976	<1.01	<0.963
Di-n-octylphthalate	mg/kg	<1.08	<0.888	<0.810	<0.891	<0.985	<1.09	<1.16	<1.02	<0.978	<0.877	<0.825	<0.928	<1.02	<1.09	<1.18	<1.23	<0.975	<1.03	<0.853	<0.356	<0.941	<0.976	<1.01	<0.963
Fluoranthene	mg/kg	<1.08	<0.888	<0.810	<0.891	<0.985	<1.09	2.92	1.11	<0.978	<0.877	<0.825	<0.928	<1.02	<1.09	<1.18	12.3	<0.975	<1.03	1.85	<0.356	<0.941	3.61	15.4	40.8
Fluorene	mg/kg	<1.08	<0.888	<0.810	<0.891	<0.985	<1.09	<1.16	<1.02	<0.978	<0.877	<0.825	<0.928	<1.02	<1.09	<1.18	<1.23	<0.975	<1.03	<0.853	<0.356	<0.941	1.73	13.9	18.6
Hexachlorobenzene	mg/kg	<0.543	<0.446	<0.406	<0.447	<0.494	<0.545	<0.582	<0.511	<0.491	<0.440	<0.414	<0.465	<0.512	<0.544	<0.591	<0.615	<0.489	<0.517	<0.428	<0.178	<0.472	<0.490	<0.509	<0.483
Hexachlorobutadiene	mg/kg	<1.08	<0.888	<0.810	<0.891	<0.985	<1.09	<1.16	<1.02	<0.978	<0.877	<0.825	<0.928	<1.02	<1.09	<1.18	<1.23	<0.975	<1.03	<0.853	<0.356	<0.941	<0.976	<1.01	<0.963
Hexachloroethane	mg/kg	<1.08	<0.888	<0.810	<0.891	<0.985	<1.09	<1.16	<1.02	<0.978	<0.877	<0.825	<0.928	<1.02	<1.09	<1.18	<1.23	<0.975	<1.03	<0.853	<0.356	<0.941	<0.976	<1.01	<0.963
Indeno(1,2,3-cd)Pyrene	mg/kg	<1.08	<0.888	<0.810	<0.891	<0.985	<1.09	<1.16	<1.02	<0.978	<0.877	<0.825	<0.928	<1.02	<1.09	<1.18	<1.23	<0.975	<1.03	<0.853	<0.356	<0.941	<0.976	<1.01	<0.963
Isophorone	mg/kg	<1.08	<0.888	<0.810	<0.891	<0.985	<1.09	<1.16	<1.02	<0.978	<0.877	<0.825	<0.928	<1.02	<1.09	<1.18	<1.23	<0.975	<1.03	<0.853	<0.356	<0.941	<0.976	<1.01	<0.963
Naphthalene	mg/kg	<1.08	<0.888	<0.810	<0.891	<0.985	<1.09	<1.16	<1.02	<0.978	<0.877	<0.825	<0.928	<1.02	<1.09	<1.18	1.3	<0.975	<1.03	<0.853	<0.356	<0.941	2.16	112	7.92
Nitrobenzene	mg/kg	<1.08	<0.888	<0.810	<0.891	<0.985	<1.09	<1.16	<1.02	<0.978	<0.877	<0.825	<0.928	<1.02	<1.09	<1.18	<1.23	<0.975	<1.03	<0.853	<0.356	<0.941	<0.976	<1.01	<0.963
N-Nitrosodimethylamine	mg/kg	<1.08	<0.888	<0.810	<0.891	<0.985	<1.09	<1.16	<1.02	<0.978	<0.877	<0.825	<0.928	<1.02	<1.09	<1.18	<1.23	<0.975	<1.03	<0.853	<0.356	<0.941	<0.976	<1.01	<0.963
Pentachlorophenol	mg/kg	<5.43	<4.46	<4.06	<4.47	<4.94	<5.45	<5.82	<5.11	<4.91	<4.40	<4.14	<4.65	<5.12	<5.44	<5.91	<6.15	<4.89	<5.17	<4.28	<1.78	<4.72	<4.90	<5.09	<4.83
Phenanthrene	mg/kg	<1.08	<0.888	<0.810	<0.891	<0.985	<1.09	<1.16	<1.02	<0.978	<0.877	<0.825	<0.928	<1.02	<1.09	<1.18	9.33	<0.975	<1.03	2.46	<0.356	<0.941	1.55	38.9	76.2
Phenol	mg/kg	<1.08	<0.888	<0.810	<0.891	<0.985	<1.09	<1.16	<1.02	<0.978	<0.877	<0.825	<0.928	<1.02	<1.09	<1.18	<1.23	<0.975	<1.03	<0.853	<0.356	<0.941	<0.976	<1.01	<0.963
Pyrene	mg/kg	<1.08	<0.888	<0.810	<0.891	<0.985	<1.09	3.87	1.08	<0.978	<0.877	<0.825	<0.928	<1.02	<1.09	<1.18	13.7	<0.975	<1.03	1.46	<0.356	<0.941	1.12	9.33	19.5
Total SVOCs	mg/kg	ND	ND	ND	ND	ND	ND	12.94	2.702	ND	ND	ND	ND	ND	ND	4.28	69.31	ND	ND	7.846	ND	ND	13.958	262.214	224.99
Classic Chemistry																									
Corrosivity (pH)	S.U.	7.91	8.49	8.73	7.96	7.13	5.6	7.73	8.77	8.07	8.88	9.01	7.33	7.02	5.03	4.2	4.17	4.3	5.01	8.45	8.4	7	6.41	4.81	5
Conductivity	umhos/cm	2940	253	208	1520	1890	2900	11700	11700	7810	198	823	959	2050	3620	2220	10800	6450	10000	382	548	1000	1370	1420	2550
Flashpoint	°F	--	>200	>200	>200	--	--	--	--	--	>200	>200	>200	--	--	--	--	--	--	>200	>200	>200	>200	>200	>200
Reactive Cyanide	mg/kg	--	<2.0	<2.0	<2.0	--	--	--	--	--	<2.0	<2.0	<2.0	--	--	--	--	--	--	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Reactive Sulfide	mg/kg	--	<2.0	<2.0	<2.0	--	--	--	--	--	<2.0	<2.0	<2.0	--	--	--	--	--	--	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	E20 GZ010S15B16 1411194 Natural Sand/Gravel 31.3 - 36 11/10/2014	E20 GZ010S17S18 1411194 Natural Clay 39 - 46 11/10/2014	F03 F03S01S02A 1503070 Fill 0 - 3.3 3/4/2015	F03 F03S02B 1503070 Fill 3.3 - 6.6 3/4/2015	F03 F03S05 1503095 Natural Organics 8 - 10 3/5/2015	F03 F03S06 1503095 Natural Clay 14 - 16 3/5/2015	F03 F03S07 1503095 Natural Clay 19 - 21 3/5/2015	F03 F03S08 1503095 Natural Clay 24 - 26 3/5/2015	F03 F03S09 1503095 Natural Sand/Gravel 29 - 31 3/5/2015	F03 F03S10S11 1503095 Natural Clay 34 - 38 3/5/2015	F04 F04S01S02A 1503022 Fill 0 - 3.3 3/2/2015	F04 F04S03 1503022 Fill 4 - 6 3/2/2015	F04 F04S04 1503022 Natural Organics 6 - 8 3/2/2015	F04 F04S05 1503022 Natural Clay 12 - 14 3/2/2015	F04 F04S06 1503022 Natural Clay 14 - 16 3/2/2015	F04 F04S07 1503022 Natural Clay 19 - 21 3/2/2015	F04 F04S08 1503022 Natural Sand/Gravel 24 - 26 3/2/2015	F04 F04S09 1503022 Natural Clay 29 - 31 3/2/2015	F04 F04S11 1503022 Natural Sand/Gravel 36 - 38 3/2/2015	F05 F05S01S02A 1503070 Fill 0 - 3 3/4/2015	F05 F05S03S04A 1503070 Fill 5 - 8.3 3/4/2015	F05 F05S06BS08A 1503164 Fill 3.3 - 6.6 3/10/2015	F05 F05S08BS09 1503164 Fill 6.6 - 10 3/10/2015	F05 F05S10S11 1503164 Fill 10 - 13 3/10/2015
Preliminary Disposal Facility Category		MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Uncontaminated	MCP Restricted	Hazardous Material Type A	Hazardous Material Type B	Hazardous Material Type B	MCP Regulated Type A	MCP Regulated Type A	MCP Restricted	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A
RCRA 8 Metals	**Units**																								
Arsenic	mg/kg	6.59	6.75	15.1	83.7	17.8	<7.83	<8.07	9.44	<6.51	<7.07	70.8	212	144	11.4	11	<8.63	<7.92	<7.56	12.8	43.7	<7.72	171	<7.12	<6.93
Barium	mg/kg	22	29.1	39.6	183	<17.6	70.3	71.8	75.6	31.6	52.9	138	131	57	139	85.6	73.7	24.4	27	45.1	152	13.2	274	7.28	8.44
Cadmium	mg/kg	<0.53	<0.47	<1.26	<1.43	<3.53	<1.57	<1.61	<1.58	<1.30	<1.41	<1.48	<2.21	<2.66	<1.61	<1.70	<1.73	<1.58	<1.51	<1.50	<1.56	<1.54	<1.58	<1.42	<1.39
Chromium	mg/kg	19.9	18.7	37.8	19.1	<7.05	44.2	39.8	38.6	18.6	28.6	36.4	22	31.6	51.1	54.4	39.7	16.3	20	23.5	57.4	4.57	55.2	5.16	5.63
Lead	mg/kg	<5.28	6.81	278	1200	48.6	<15.7	<16.1	<15.8	<13.0	<14.1	782	5790	4650	17.8	17.3	<17.3	<15.8	<15.1	41.9	398	<15.4	967	<14.2	<13.9
Selenium	mg/kg	<15.8	<14.1	8.21	86.3	<17.6	<7.83	<8.07	<7.89	<6.51	<7.07	<7.38	59.3	26.3	<8.03	<8.50	<8.63	<7.92	<7.56	<7.52	<7.79	<7.72	<7.88	<7.12	<6.93
Silver	mg/kg	<0.53	<0.47	<1.26	2.62	<3.53	<1.57	<1.61	<1.58	<1.30	<1.41	<1.48	2.48	<2.66	<1.61	<1.70	<1.73	<1.58	<1.51	<1.50	<1.56	<1.54	<1.58	<1.42	<1.39
Mercury	mg/kg	<0.041	<0.040	0.72	3.18	0.353	<0.035	<0.039	<0.042	<0.034	<0.032	1.2	5.75	3.55	<0.038	<0.038	<0.040	<0.034	<0.043	<0.036	0.628	<0.030	1.35	<0.027	0.059
Metals by Toxicity Characteristic Leaching Procedure (TCLP)																									
Arsenic	mg/L	--	--	--	--	--	--	--	--	--	--	--	<0.500	<0.500	--	--	--	--	--	--	--	--	<0.500	--	--
Cadmium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead	mg/L	--	--	0.687	0.55	--	--	--	--	--	--	0.859	9.51	16	--	--	--	--	--	--	<0.500	--	<0.500	--	--
Selenium	mg/L	--	--	--	<0.500	--	--	--	--	--	--	--	<0.500	<0.500	--	--	--	--	--	--	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--	--	--	--	--	--	--	<0.00050	--	--	--	--	--	--	--	--	--	--	--	--
Herbicides																									
2,4,5-T	mg/kg	<0.059	<0.059	<0.22	<0.23	<0.30	--	--	--	--	--	<0.49	<0.63	<1.0	--	--	--	--	--	--	<0.27	<0.056	<0.056	<0.056	<0.054
2,4-D	mg/kg	<0.059	<0.059	<1.1	<1.1	<1.5	--	--	--	--	--	<2.5	<3.1	<5.2	--	--	--	--	--	--	<1.3	<0.28	<0.056	<0.056	<0.054
2,4-DB	mg/kg	<0.059	<0.059	<0.081	<0.085	<0.11	--	--	--	--	--	<0.18	<0.24	<0.39	--	--	--	--	--	--	<0.10	<0.021	<0.056	<0.056	<0.054
Dalapon	mg/kg	<0.71	<0.71	<6.5	<6.8	<8.9	--	--	--	--	--	<15	<19	<31	--	--	--	--	--	--	<8.1	<1.7	<0.67	<0.68	<0.65
Dicamba	mg/kg	<0.059	<0.059	<0.32	<0.34	<0.45	--	--	--	--	--	<0.74	<0.94	<1.5	--	--	--	--	--	--	<0.40	<0.083	<0.056	<0.056	<0.054
Dichlorprop	mg/kg	<0.059	<0.059	<0.70	<0.74	<0.97	--	--	--	--	--	<1.6	<2.0	<3.4	--	--	--	--	--	--	<0.87	<0.18	<0.056	<0.056	<0.054
Dinoseb	mg/kg	<0.36	<0.36	<1.1	<1.1	<1.5	--	--	--	--	--	<2.5	<3.1	<5.2	--	--	--	--	--	--	<1.3	<0.28	<0.33	<0.34	<0.32
MCPA	mg/kg	<14	<14	<270	<280	<370	--	--	--	--	--	<620	<790	<1300	--	--	--	--	--	--	<340	<69	<13	<14	<13
MCPP	mg/kg	<14	<14	<270	<280	<370	--	--	--	--	--	<620	<790	<1300	--	--	--	--	--	--	<340	<69	<13	<14	<13
Silvex (2,4,5-TP)	mg/kg	<0.059	<0.059	<0.22	<0.23	<0.30	--	--	--	--	--	<0.49	<0.63	<1.0	--	--	--	--	--	--	<0.27	<0.056	<0.056	<0.056	<0.054
Pesticides																									
4,4'-DDD	mg/kg	<0.0020	<0.0020	<0.0092	<0.0096	<0.0049	--	--	--	--	--	<0.0041	<0.0054	<0.0089	--	--	--	--	--	--	<0.011	<0.0023	<0.0040	<0.0021	<0.0020
4,4'-DDE	mg/kg	<0.0020	<0.0020	<0.0092	<0.0096	<0.0049	--	--	--	--	--	<0.0041	<0.0054	<0.0089	--	--	--	--	--	--	<0.011	<0.0023	<0.0040	<0.0021	<0.0020
4,4'-DDT	mg/kg	<0.0020	<0.0020	<0.0092	<0.0096	<0.0049	--	--	--	--	--	<0.0041	<0.0054	<0.0089	--	--	--	--	--	--	<0.011	<0.0023	<0.0040	<0.0021	<0.0020
Aldrin	mg/kg	<0.0020	<0.0020	<0.0092	<0.0096	<0.0049	--	--	--	--	--	<0.0041	<0.0054	<0.0089	--	--	--	--	--	--	<0.011	<0.0023	<0.0040	<0.0021	<0.0020
alpha-BHC	mg/kg	<0.0020	<0.0020	<0.0092	<0.0096	<0.0049	--	--	--	--	--	<0.0041	<0.0054	<0.0089	--	--	--	--	--	--	<0.011	<0.0023	<0.0040	<0.0021	<0.0020
beta-BHC	mg/kg	<0.0020	<0.0020	<0.0092	<0.0096	<0.0049	--	--	--	--	--	<0.0041	<0.0054	<0.0089	--	--	--	--	--	--	<0.011	<0.0023	<0.0040	<0.0021	<0.0020
Chlordane (technical)	mg/kg	<0.020	<0.020	<0.092	<0.096	<0.049	--	--	--	--	--	<0.041	<0.054	<0.089	--	--	--	--	--	--	<0.11	<0.023	<0.040	<0.021	<0.020
delta-BHC	mg/kg	<0.0020	<0.0020	<0.0092	<0.0096	<0.0049	--	--	--	--	--	<0.0041	<0.0054	<0.0089	--	--	--	--	--	--	<0.011	<0.0023	<0.0040	<0.0021	<0.0020
Dieldrin	mg/kg	<0.0020	<0.0020	<0.0092	<0.0096	<0.0049	--	--	--	--	--	<0.0041	<0.0054	<0.0089	--	--	--	--	--	--	<0.011	<0.0023	<0.0040	<0.0021	<0.0020
Endosulfan I	mg/kg	<0.0020	<0.0020	<0.0092	<0.0096	<0.0049	--	--	--	--	--	<0.0041	<0.0054	<0.0089	--	--	--	--	--	--	<0.011	<0.0023	<0.0040	<0.0021	<0.0020
Endosulfan II	mg/kg	<0.0020	<0.0020	<0.0092	<0.0096	<0.0049	--	--	--	--	--	<0.0041	<0.0054	<0.0089	--	--	--	--	--	--	<0.011	<0.0023	<0.0040	<0.0021	<0.0020
Endosulfan sulfate	mg/kg	<0.0020	<0.0020	<0.0092	<0.0096	<0.0049	--	--	--	--	--	<0.0041	<0.0054	<0.0089	--	--	--	--	--	--	<0.011	<0.0023	<0.0040	<0.0021	<0.0020
Endrin	mg/kg	<0.0020	<0.0020	<0.0092	<0.0096	<0.0049	--	--	--	--	--	<0.0041	<0.0054	<0.0089	--	--	--	--	--	--	<0.011	<0.0023	<0.0040	<0.0021	<0.0020
Endrin ketone	mg/kg	<0.0020	<0.0020	<0.0092	<0.0096	<0.0049	--	--	--	--	--	<0.0041	<0.0054	<0.0089	--	--	--	--	--	--	<0.011	<0.0023	<0.0040	<0.0021	<0.0020
gamma-BHC (Lindane)	mg/kg	<0.0020	<0.0020	<0.0092	<0.0096	<0.0049	--	--	--	--	--	<0.0041	<0.0054	<0.0089	--	--	--	--	--	--	<0.011	<0.0023	<0.0040	<0.0021	<0.0020
Heptachlor	mg/kg	<0.0020	<0.0020	<0.0092	<0.0096	<0.0049	--	--	--	--	--	<0.0041	<0.0054	<0.0089	--	--	--	--	--	--	<0.011	<0.0023	<0.0040	<0.0021	<0.0020
Heptachlor epoxide	mg/kg	<0.0020	<0.0020	<0.0092	<0.0096	<0.0049	--	--	--	--	--	<0.0041	<0.0054	<0.0089	--	--	--	--	--	--	<0.011	<0.0023	<0.0040	<0.0021	<0.0020
Hexachlorobenzene	mg/kg	<0.0020	0.0021	<0.0092	<0.0096	<0.0049	--	--	--	--	--	<0.0041	<0.0054	<0.0089	--	--	--	--	--	--	<0.011	<0.0023	<0.0040	<0.0021	<0.0020
Methoxychlor	mg/kg	<0.0020	<0.0020	<0.0092	<0.0096	<0.0049	--	--	--	--	--	<0.0041	<0.0054	<0.0089	--	--	--	--	--	--	<0.011	<0.0023	<0.0040	<0.0021	<0.0020
Polychlorinated Biphenyls																									
Aroclor 1016	mg/kg	<0.250	<0.239	<0.145	<0.144	<0.383	<0.153	<0.157	<0.155	<0.153	<0.142	<0.138	<0.208	<0.255	<0.154	<0.161	<0.170	<0.151	<0.152	<0.146	<0.135	<0.146	<0.150	<0.142	<0.140
Aroclor 1221	mg/kg	<0.250	<0.239	<0.145	<0.144	<0.383	<0.153	<0.157	<0.155	<0.153	<0.142	<0.138	<0.208	<0.255	<0.154	<0.161	<0.170	<0.151	<0.152	<0.146	<0.135	<0.146	<0.150	<0.142	<0.140
Aroclor 1232	mg/kg	<0.250	<0.239	<0.145	<0.144	<0.383	<0.153	<0.157	<0.155	<0.153	<0.142	<0.138	<0.208	<0.255	<0.154	<0.161	<0.170	<0.151	<0.152	<0.146	<0.135	<0.146	<0.150	<0.142	<0.140
Aroclor 1242	mg/kg	<0.250	<0.239	<0.145	<0.144	<0.383	<0.153	<0.157	<0.155	<0.153	<0.142	1.27	<0.208	<0.255	<0.154	<0.161	<0.170	<0.151	<0.152	<0.146	<0.135	<0.146	<0.150	<0.142	<0.140
Aroclor 1248	mg/kg	<0.250	<0.239	<0.145	<0.144	<0.383	<0.153	<0.157	<0.155	<0.153	<0.142	<0.138	<0.208	<0.255	<0.154	<0.161	<0.170	<0.151	<0.152	<0.146	<0.135	<0.146	<0.150	<0.142	<0.140
Aroclor 1254	mg/kg	<0.250	<0.239	0.166	0.359	<0.383	<0.153	<0.157	<0.155	<0.153	<0.142	0.885	0.958	<0.255	<0.154	<0.161	<0.170	<0.151	<0.152	<0.146	4.89	<0.146	2.25	<0.142	<0.140
Aroclor 1260	mg/kg	<0.250	<0.239	<0.145	0.174	<0.383	<0.153	<0.157	<0.155	<0.153	<0.142	<0.138	0.578	<0.255	<0.154	<0.161	<0.170	<0.151	<0.152	<0.146	<0.135	<0.146	1.25	<0.142	<0.140
Aroclor 1262	mg/kg	<0.250	<0.239	<0.145	<0.144	<0.383	<0.153	<0.157	<0.155	<0.153	<0.142	<0.138	<0.208	<0.255	<0.154	<0.161	<0.170	<0.151	<0.152	<0.146	<0.135	<0.146	<0.150	<0.142	<0.140
Aroclor 1268	mg/kg	<0.250	<0.239	<0.145	<0.144	<0.383	<0.153	<0.157	<0.155	<0.153	<0.142	<0.138	<0.208	<0.255	<0.154	<0.161	<0.170	<0.151	<0.152	<0.146	<0.135	<0.146	<0.150	<0.142	<0.140
Total PCBs	mg/kg	ND	ND	0.166	0.533	ND	ND	ND	ND	ND	ND	2.155	1.536	ND	ND	ND	ND	ND	ND	ND	4.89	ND	3.5	ND	ND
Total Petroleum Hydrocarbons	mg/kg	<45.8	<47.4	614	1060	422	<50.6	<53.4	<51.9	<46.5	<44.1	698	2630	1050	<49.8	<50.8	<53.3	<48.2	<50.2	<45.6	2540	118	1330	<43.6	61.9
Volatile Organic Compounds (VOCs)																									
1,1,1,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	<0.0862	--	--	<0.207	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	<0.0431	--	--	<0.103	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	<0.0431	--	--	<0.103	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	<0.0431	--	--	<0.103	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	<0.0431	--	--	<0.103	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	<0.0431	--	--	<0.103	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	<0.0431	--	--	<0.103	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	<0.0431	--	--	<0.103	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	mg/kg	--	--	--	--	--	--	--	--	<0.0431	--	--	<0.103	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	<0.0431	--	--	<0.103	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	<0.0431	--	--	<0.103	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-Chloropropane	mg/kg	--	--	--	--	--	--	--	--	<0.172	--	--	<0.413	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	mg/kg	--	--	--	--	--	--	--	--	<0.0431	--	--	<0.103	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	<0.0431	--	--	<0.103	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	<0.0431	--	--	<0.103	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	<0.0431	--	--	<0.103	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	<0.0431	--	--	<0.103	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	<0.0431	--	--	<0.103	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	<0.0431	--	--	<0.103	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	<0.0431	--	--	<0.103	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane - Screen	mg/kg	--	--	--	--	--	--	--	--	<4.31	--	--	<10.3	--	--	--	--	--	--	--	--	--	--	--	--
2,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	<0.0862	--	--	<0.207	--	--	--	--	--	--	--	--	--	--	--	--
2-Butanone	mg/kg	--	--	--	--	--	--	--	--	<0.172	--	--	<0.413	--	--	--	--	--	--	--	--	--	--	--	--
2-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	<0.0431	--	--	<0.103	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	mg/kg	--	--	--	--	--	--	--	--	<0.172	--	--	<0.413	--	--	--	--	--	--	--	--	--	--	--	--
4-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	<0.0431	--	--	<0.103	--	--	--	--	--	--	--	--	--	--	--	--
4-Isopropyltoluene	mg/kg	--	--	--	--	--	--	--	--	<0.0431	--	--	<0.103	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-Pentanone	mg/kg	--	--	--	--	--	--	--	--	<0.172	--	--	<0.413	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	mg/kg	--	--	--	--	--	--	--	--	<0.172	--	--	0.611	--	--	--	--	--	--	--	--	--	--	--	--
Benzene	mg/kg	--	--	--	--	--	--	--	--	<0.0431	--	--	<0.103	--	--	--	--	--	--	--	--	--	--	--	--
Bromobenzene	mg/kg	--	--	--	--	--	--	--	--	<0.0431	--	--	<0.103	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	mg/kg	--	--	--	--	--	--	--	--	<0.0431	--	--	<0.103	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	mg/kg	--	--	--	--	--	--	--	--	<0.0431	--	--	<0.103	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	mg/kg	--	--	--	--	--	--	--	--	<0.0431	--	--	<0.103	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	mg/kg	--	--	--	--	--	--	--	--	<0.0862	--	--	<0.207	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Disulfide	mg/kg	--	--	--	--	--	--	--	--	<0.0431	--	--	<0.103	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	mg/kg	--	--	--	--	--	--	--	--	<0.0431	--	--	<0.103	--	--	--	--	--	--	--	--	--	--	--	--

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	E20 GZ010S15B16 1411194 Natural Sand/Gravel 31.3 - 36 11/10/2014	E20 GZ010S17S18 1411194 Natural Clay 39 - 46 11/10/2014	F03 F03S01S02A 1503070 Fill 0 - 3.3 3/4/2015	F03 F03S02B 1503070 Fill 3.3 - 6.6 3/4/2015	F03 F03S05 1503095 Natural Organics 8 - 10 3/5/2015	F03 F03S06 1503095 Natural Clay 14 - 16 3/5/2015	F03 F03S07 1503095 Natural Clay 19 - 21 3/5/2015	F03 F03S08 1503095 Natural Clay 24 - 26 3/5/2015	F03 F03S09 1503095 Natural Sand/Gravel 29 - 31 3/5/2015	F03 F03S10S11 1503095 Natural Clay 34 - 38 3/5/2015	F04 F04S01S02A 1503022 Fill 0 - 3.3 3/2/2015	F04 F04S03 1503022 Fill 4 - 6 3/2/2015	F04 F04S04 1503022 Natural Organics 6 - 8 3/2/2015	F04 F04S05 1503022 Natural Clay 12 - 14 3/2/2015	F04 F04S06 1503022 Natural Clay 14 - 16 3/2/2015	F04 F04S07 1503022 Natural Clay 19 - 21 3/2/2015	F04 F04S08 1503022 Natural Sand/Gravel 24 - 26 3/2/2015	F04 F04S09 1503022 Natural Clay 29 - 31 3/2/2015	F04 F04S11 1503022 Natural Sand/Gravel 36 - 38 3/2/2015	F05 F05S01S02A 1503070 Fill 0 - 3 3/4/2015	F05 F05S03S04A 1503070 Fill 5 - 8.3 3/4/2015	F05 F05S06B08A 1503164 Fill 3.3 - 6.6 3/10/2015	F05 F05S08B09 1503164 Fill 6.6 - 10 3/10/2015	F05 F05S10S11 1503164 Fill 10 - 13 3/10/2015
Preliminary Disposal Facility Category		MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Uncontaminated	MCP Restricted	Hazardous Material Type A	Hazardous Material Type B	Hazardous Material Type B	MCP Regulated Type A	MCP Regulated Type A	MCP Restricted	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A
Chlorobenzene	mg/kg	--	--	--	--	--	--	--	--	<0.0431	--	--	<0.103	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	mg/kg	--	--	--	--	--	--	--	--	<0.0862	--	--	<0.207	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	mg/kg	--	--	--	--	--	--	--	--	<0.0431	--	--	0.184	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	mg/kg	--	--	--	--	--	--	--	--	<0.0862	--	--	<0.207	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	<0.0431	--	--	0.409	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	<0.0431	--	--	<0.103	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	mg/kg	--	--	--	--	--	--	--	--	<0.0431	--	--	<0.103	--	--	--	--	--	--	--	--	--	--	--	--
Dibromomethane	mg/kg	--	--	--	--	--	--	--	--	<0.0431	--	--	<0.103	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	mg/kg	--	--	--	--	--	--	--	--	<0.0431	--	--	<0.103	--	--	--	--	--	--	--	--	--	--	--	--
Diethyl Ether	mg/kg	--	--	--	--	--	--	--	--	<0.0431	--	--	<0.103	--	--	--	--	--	--	--	--	--	--	--	--
Di-isopropyl ether	mg/kg	--	--	--	--	--	--	--	--	<0.0431	--	--	<0.103	--	--	--	--	--	--	--	--	--	--	--	--
Ethyl tertiary-butyl ether	mg/kg	--	--	--	--	--	--	--	--	<0.0431	--	--	<0.103	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	mg/kg	--	--	--	--	--	--	--	--	<0.0431	--	--	<0.103	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	mg/kg	--	--	--	--	--	--	--	--	<0.0431	--	--	<0.103	--	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene	mg/kg	--	--	--	--	--	--	--	--	<0.0431	--	--	<0.103	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	mg/kg	--	--	--	--	--	--	--	--	<0.0431	--	--	<0.103	--	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride	mg/kg	--	--	--	--	--	--	--	--	<0.172	--	--	<0.413	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	mg/kg	--	--	--	--	--	--	--	--	<0.0431	--	--	0.882	--	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	<0.0431	--	--	<0.103	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	mg/kg	--	--	--	--	--	--	--	--	<0.0431	--	--	<0.103	--	--	--	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	<0.0431	--	--	<0.103	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	mg/kg	--	--	--	--	--	--	--	--	<0.0431	--	--	<0.103	--	--	--	--	--	--	--	--	--	--	--	--
tert-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	<0.0431	--	--	<0.103	--	--	--	--	--	--	--	--	--	--	--	--
Tertiary-amyl methyl ether	mg/kg	--	--	--	--	--	--	--	--	<0.0431	--	--	<0.103	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	mg/kg	--	--	--	--	--	--	--	--	<0.0431	--	--	<0.103	--	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	mg/kg	--	--	--	--	--	--	--	--	<0.172	--	--	<0.413	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	mg/kg	--	--	--	--	--	--	--	--	<0.0431	--	--	<0.103	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	<0.0431	--	--	<0.103	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	<0.0431	--	--	<0.103	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene	mg/kg	--	--	--	--	--	--	--	--	<0.0431	--	--	1.03	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane	mg/kg	--	--	--	--	--	--	--	--	<0.0431	--	--	<0.103	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	mg/kg	--	--	--	--	--	--	--	--	<0.0431	--	--	<0.103	--	--	--	--	--	--	--	--	--	--	--	--
Xylene O	mg/kg	--	--	--	--	--	--	--	--	<0.0431	--	--	<0.103	--	--	--	--	--	--	--	--	--	--	--	--
Xylene P,M	mg/kg	--	--	--	--	--	--	--	--	<0.0862	--	--	<0.207	--	--	--	--	--	--	--	--	--	--	--	--
Xylenes (Total)	mg/kg	--	--	--	--	--	--	--	--	<0.0862	--	--	<0.207	--	--	--	--	--	--	--	--	--	--	--	--
Total VOCs	mg/kg	--	--	--	--	--	--	--	--	ND	--	--	3.116	--	--	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds - Low Level Analysis																									
1,1,1,2-Tetrachloroethane	mg/kg	<0.0045	<0.0040	<0.0032	<0.0049	<0.0152	<0.0057	<0.0042	<0.0037	--	<0.0038	<0.0053	<0.0078	<0.0089	<0.0042	<0.0045	<0.0047	<0.0040	<0.0036	<0.0036	<0.0041	<0.0040	<0.0039	<0.0039	<0.0047
1,1,1-Trichloroethane	mg/kg	<0.0045	<0.0040	<0.0032	<0.0049	<0.0152	<0.0057	<0.0042	<0.0037	--	<0.0038	<0.0053	<0.0078	<0.0089	<0.0042	<0.0045	<0.0047	<0.0040	<0.0036	<0.0036	<0.0041	<0.0040	<0.0039	<0.0039	<0.0047
1,1,2,2-Tetrachloroethane	mg/kg	<0.0018	<0.0016	<0.0013	<0.0019	<0.0061	<0.0023	<0.0017	<0.0015	--	<0.0015	<0.0021	<0.0031	<0.0036	<0.0017	<0.0018	<0.0019	<0.0016	<0.0014	<0.0014	<0.0017	<0.0016	<0.0016	<0.0016	<0.0019
1,1,2-Trichloroethane	mg/kg	<0.0045	<0.0040	<0.0032	<0.0049	<0.0152	<0.0057	<0.0042	<0.0037	--	<0.0038	<0.0053	<0.0078	<0.0089	<0.0042	<0.0045	<0.0047	<0.0040	<0.0036	<0.0036	<0.0041	<0.0040	<0.0039	<0.0039	<0.0047
1,1-Dichloroethane	mg/kg	<0.0045	<0.0040	<0.0032	<0.0049	<0.0152	<0.0057	<0.0042	<0.0037	--	<0.0038	<0.0053	<0.0078	<0.0089	<0.0042	<0.0045	<0.0047	<0.0040	<0.0036	<0.0036	<0.0041	<0.0040	<0.0039	<0.0039	<0.0047
1,1-Dichloroethene	mg/kg	<0.0045	<0.0040	<0.0032	<0.0049	<0.0152	<0.0057	<0.0042	<0.0037	--	<0.0038	<0.0053	<0.0078	<0.0089	<0.0042	<0.0045	<0.0047	<0.0040	<0.0036	<0.0036	<0.0041	<0.0040	<0.0039	<0.0039	<0.0047
1,1-Dichloropropene	mg/kg	<0.0045	<0.0040	<0.0032	<0.0049	<0.0152	<0.0057	<0.0042	<0.0037	--	<0.0038	<0.0053	<0.0078	<0.0089	<0.0042	<0.0045	<0.0047	<0.0040	<0.0036	<0.0036	<0.0041	<0.0040	<0.0039	<0.0039	<0.0047
1,2,3-Trichlorobenzene	mg/kg	<0.0045	<0.0040	<0.0032	<0.0049	<0.0152	<0.0057	<0.0042	<0.0037	--	<0.0038	<0.0053	<0.0078	<0.0089	<0.0042	<0.0045	<0.0047	<0.0040	<0.0036	<0.0036	<0.0041	<0.0040	<0.0039	<0.0039	<0.0047
1,2,3-Trichloropropane	mg/kg	<0.0045	<0.0040	<0.0032	<0.0049	<0.0152	<0.0057	<0.0042	<0.0037	--	<0.0038	<0.0053	<0.0078	<0.0089	<0.0042	<0.0045	<0.0047	<0.0040	<0.0036	<0.0036	<0.0041	<0.0040	<0.0039	<0.0039	<0.0047
1,2,4-Trichlorobenzene	mg/kg	<0.0045	<0.0040	<0.0032	<0.0049	<0.0152	<0.0057	<0.0042	<0.0037	--	<0.0038	<0.0053	<0.0078	<0.0089	<0.0042	<0.0045	<0.0047	<0.0040	<0.0036	<0.0036	<0.0041	<0.0040	<0.0039	<0.0039	<0.0047
1,2,4-Trimethylbenzene	mg/kg	<0.0045	<0.0040	<0.0032	<0.0049	<0.0152	<0.0057	<0.0042	<0.0037	--	<0.0038	<0.0053	<0.0078	<0.0089	<0.0042	<0.0045	<0.0047	<0.0040	<0.0036	<0.0036	<0.0041	<0.0040	<0.0039	<0.0039	0.0114
1,2-Dibromo-3-Chloropropane	mg/kg	<0.0045	<0.0040	<0.0032	<0.0049	<0.0152	<0.0057	<0.0042	<0.0037	--	<0.0038	<0.0053	<0.0078	<0.0089	<0.0042	<0.0045	<0.0047	<0.0040	<0.0036	<0.0036	<0.0041	<0.0040	<0.0039	<0.0039	<0.0047
1,2-Dibromoethane	mg/kg	<0.0045	<0.0040	<0.0032	<0.0049	<0.0152	<0.0057	<0.0042	<0.0037	--	<0.0038	<0.0053	<0.0078	<0.0089	<0.0042	<0.0045	<0.0047	<0.0040	<0.0036	<0.0036	<0.0041	<0.0040	<0.0039	<0.0039	<0.0047
1,2-Dichlorobenzene	mg/kg	<0.0045	<0.0040	<0.0032	<0.0049	<0.0152	<0.0057	<0.0042	<0.0037	--	<0.0038	<0.0053	<0.0078	<0.0089	<0.0042	<0.0045	<0.0047	<0.0040	<0.0036	<0.0036	<0.0041	<0.0040	<0.0039	<0.0039	<0.0047
1,2-Dichloroethane	mg/kg	<0.0045	<0.0040	<0.0032	<0.0049	<0.0152	<0.0057	<0.0042	<0.0037	--	<0.0038	<0.0053	<0.0078	<0.0089	<0.0042	<0.0045	<0.0047	<0.0040	<0.0036	<0.0036	<0.0041	<0.0040	<0.0039	<0.0039	<0.0047
1,2-Dichloropropane	mg/kg	<0.0045	<0.0040	<0.0032	<0.0049	<0.0152	<0.0057	<0.0042	<0.0037	--	<0.0038	<0.0053	<0.0078	<0.0089	<0.0042	<0.0045	<0.0047	<0.0040	<0.0036	<0.0036	<0.0041	<0.0040	<0.0039	<0.0039	<0.0047
1,3,5-Trimethylbenzene	mg/kg	<0.0045	<0.0040	<0.0032	<0.0049	<0.0152	<0.0057	<0.0042	<0.0037	--	<0.0038	<0.0053	<0.0078	<0.0089	<0.0042	<0.0045	<0.0047	<0.0040	<0.0036	<0.0036	<0.0041	<0.0040	<0.0039	<0.0039	<0.0047
1,3-Dichlorobenzene	mg/kg	<0.0045	<0.0040	<0.0032	<0.0049	<0.0152	<0.0057	<0.0042	<0.0037	--	<0.0038	<0.0053	<0.0078	<0.0089	<0.0042	<0.0045	<0.0047	<0.0040	<0.0036	<0.0036	<0.0041	<0.0040	<0.0039	<0.0039	<0.0047
1,3-Dichloropropane	mg/kg	<0.0045	<0.0040	<0.0032	<0.0049	<0.0152	<0.0057	<0.0042	<0.0037	--	<0.0038	<0.0053	<0.0078	<0.0089	<0.0042	<0.0045	<0.0047	<0.0040	<0.0036	<0.0036	<0.0041	<0.0040	<0.0039	<0.0039	<0.0047
1,4-Dichlorobenzene	mg/kg	<0.0045	<0.0040	<0.0032	<0.0049	<0.0152	<0.0057	<0.0042	<0.0037	--	<0.0038	<0.0053	<0.0078	<0.0089	<0.0042	<0.0045	<0.0047	<0.0040	<0.0036	<0.0036	<0.0041	<0.0040	<0.0039	<0.0039	<0.0047
1,4-Dioxane	mg/kg	<0.0900	<0.0796	<0.0631	<0.0974	<0.303	<0.114	<0.0837	<0.0731	--	<0.0758	<0.106	<0.156	<0.179	0.258	0.102	<0.0939	<0.0807	<0.0717	<0.0710	<0.0825	<0.0791	<0.0786	<0.0786	<0.0934
2,2-Dichloropropane	mg/kg	<0.0045	<0.0040	<0.0032	<0.0049	<0.0152	<0.0057	<0.0042	<0.0037	--	<0.0038	<0.0053	<0.0078	<0.0089	<0.0042	<0.0045	<0.0047	<0.0040	<0.0036	<0.0036	<0.0041	<0.0040	<0.0039	<0.0039	<0.0047
2-Butanone	mg/kg	0.0093	<0.0080	<0.0063	<0.0097	0.0726	<0.0114	<0.0084	<0.0073	--	<0.0076	<0.0106	<0.0156	<0.0179	<0.0084	<0.0091	<0.0094	<0.0081	<0.0072	<0.0071	<0.0083	<0.0079	<0.0079	<0.0079	<0.0093
2-Chlorotoluene	mg/kg	<0.0045	<0.0040	<0.0032	<0.0049	<0.0152	<0.0057	<0.0042	<0.0037	--	<0.0038	<0.0053	<0.0078	<0.0089	<0.0042	<0.0045	<0.0047	<0.0040	<0.0036	<0.0036	<0.0041	<0.0040	<0.0039	<0.0039	<0.0047
2-Hexanone	mg/kg	<0.0090	<0.0080	<0.0063	<0.0097	<0.0303	<0.0114	<0.0084	<0.0073	--	<0.0076	<0.0106	<0.0156	<0.0179	<0.0084	<0.0091	<0.0094	<0.0081	<0.0072	<0.0071	<0.0083	<0.0079	<0.0079	<0.0079	<0.0093
4-Chlorotoluene	mg/kg	<0.0045	<0.0040	<0.0032	<0.0049	<0.0152	<0.0057	<0.0042	<0.0037	--	<0.0038	<0.0053	<0.0078	<0.0089	<0.0042	<0.0045	<0.0047	<0.0040	<0.0036	<0.0036	<0.0041	<0.0040	<0.0039	<0.0039	<0.0047
4-Isopropyltoluene	mg/kg	<0.0045	<0.0040	<0.0032	<0.0049	<0.0152	<0.0057	<0.0042	<0.0037	--	<0.0038	<0.0053	0.08	<0.0089	<0.0042	<0.0045	<0.0047	<0.0040	<0.0036	<0.0036	<0.0041	<0.0040	<0.0039	<0.0039	<0.0047
4-Methyl-2-Pentanone	mg/kg	<0.0090	<0.0080	<0.0063	<0.0097	<0.0303	<0.0114	<0.0084	<0.0073	--	<0.0076	<0.0106	<0.0156	<0.0179	<0.0084	<0.0091	<0.0094	<0.0081	<0.0072	<0.0071	<0.0083	<0.0079	<0.0079	<0.0079	<0.0093
Acetone	mg/kg	0.087	<0.0080	0.0077	0.0259	0.538	0.0149	<0.0084	<0.0073	--	<0.0076	0.0575	0.133	0.149	0.0322	<0.0091	<0.0094	0.009	0.0099	0.0075	0.0171	0.0091	0.0487	0.0095	0.0228
Benzene	mg/kg	0.0487	0.0105	<0.0032	<0.0049	<0.0152	<0.0057	<0.0042	<0.0037	--	<0.0038	<0.0053	<0.0078	0.0327	0.0048	<0.0045	<0.0047	<0.0040	<0.0036	<0.0036	<0.0041	<0.0040	<0.0039	<0.0039	<0.0047
Bromobenzene	mg/kg	<0.0045	<0.0040	<0.0032	<0.0049	<0.0152	<0.0057	<0.0042	<0.0037	--	<0.0038	<0.0053	<0.0078	<0.0089	<0.0042	<0.0045	<0.0047	<0.0040	<0.0036	<0.0036	<0.0041	<0.0040	<0.0039	<0.0039	<0.0047
Bromochloromethane	mg/kg	<0.0045	<0.0040	<0.0032	<0.0049	<0.0152	<0.0057	<0.0042	<0.0037	--	<0.0038	<0.0053	<0.0078	<0.0089	<0.0042	<0.0045	<0.0047	<0.0040	<0.0036	<0.0036	<0.0041	<0.0040	<0.0039	<0.0039	<0.0047
Bromodichloromethane	mg/kg	<0.0045	<0.0040	<0.0032	<0.0049	<0.0152	<0.0057	<0.0042	<0.0037	--	<0.0038	<0.0053	<0.0078	<0.0089	<0.0042	<0.0045	<0.0047	<0.0040	<0.0036	<0.0036	<0.0041	<0.0040	<0.0039	<0.0039	<0.0047
Bromoform	mg/kg	<0.0045	<0.0040	<0.0032	<0.0049	<0.0152	<0.0057	<0.0042	<0.0037	--	<0.0038	<0.0053	<0.0078	<0.0089	<0.0042	<0.0045	<0.0047	<0.0040	<0.0036	<0.0036	<0.0041	<0.0040	<0.0039	<0.0039	<0.0047
Bromomethane	mg/kg	<0.0090	<0.0080	<0.0063	<0.0097	<0.0303	<0.0114	<0.0084	<0.0073	--	<0.0076	<0.0106	<0.0156	<0.0179	<0.0084	<0.0091	<0.0094	<0.0081	<0.0072	<0.0071	<0.0083	<0.0079	<0.0079	<0.0079	<0.0093
Carbon Disulfide	mg/kg	0.0053	<0.0040	<0.0032	<0.0049	<0.0152	<0.0057	<0.0042	<0.0037	--	<0.0038	<0.0053	<0.0078	<0.0089	<0.0042	<0.0045	<0.0047	<0.0040	<0.0036	<0.0036	<0.0041	<0.0040	<0.0039	<0.0039	<0.0047
Carbon Tetrachloride	mg/kg	<0.0045	<0.0040	<0.0032	<0.0049	<0.0152	<0.0057	<0.0042	<0.0037	--	<0.0038	<0.0053	<0.0078	<0.0089	<0.0042	<0.0045	<0.0047	<0.0040	<0.0036	<0.0036	<0.0041	<0.0040	<0.0039	<0.0039	<0.0047
Chlorobenzene	mg/kg	<0.0045	<0.0040	<0.0032	<0.0049	<0.0152	<0.0057	<0.0042	<0.0037	--	<0.0038	<0.0053	<0.0078	<0.0089	<0.0042	<0.0045	<0.0047	<0.0040	<0.0036	<0.0036	<0.0041	<0.0040	<0.0039	<0.0039	<0.0047
Chloroethane	mg/kg	<0.0090	<0.0080	<0.0063	<0.0097	<0.0303	<0.0114	<0.0084	<0.0073	--	<0.0076	<0.0106	<0.0156	<0.0179	<0.0084	<0.0091	<0.0094	<0.0081	<0.0072	<0.0071	<0.0083	<0.0079	<0.0079	<0.0079	<0.0093
Chloroform	mg/kg	<0.0045	<0.0040	<0.0032	<0.0049	<0.0152	<0.0057	<0.0042	<0.0037	--	<0.0038	<0.0053	<0.0078	<0.0089	<0.0042	<0.0045	<0.0047	<0.0040	<0.0036	<0.0036	<0.0041	<0.0040	<0.0039	<0.0039	<0.0047
Chloromethane	mg/kg	<0.0090	<0.0080	<0.0063	<0.0097	<0.0303	<0.0114	<0.0084	<0.0073	--	<0.0076	<0.0106	<0.0156	<0.0179	<0.0084	<0.0091	<0.0094	<0.0081	<0.0072	<0.0071	<0.0083	<0.0079	<0.0079	<0.0079	<0.0093
cis-1,2-Dichloroethene	mg/kg	<0.0045	<0.0040	<0.0032	<0.0049	<0.0152	<0.0057	<0.0042	<0.0037	--	<0.0038	<0.0053	0.0091	0.0111	0.0112	0.0352	<0.0047	<0.0040	<0.0036	<0.0036	<0.0041	<0.0040	<0.0039	<0.0039	<0.0047
cis-1,3-Dichloropropene	mg/kg	<0.0045	<0.0040	<0.0032	<0.0049	<0.0152	<0.0057	<0.0042	<0.0037	--	<0.0038	<0.0053	<0.0078	<0.0089	<0.0042	<0.0045	<0.0047	<0.0040	<0.0036	<0.0036	<0.0041	<0.0040	<0.0039	<0.0039	<0.0047
Dibromochloromethane	mg/kg	<0.0018	<0.0016	<0.0013	<0.0019	<0.0061	<0.0023	<0.0017	<0.0015	--	<0.0015	<0.0021	<0.0031	<0.0036	<0.0017	<0.0018	<0.0019	<0.0016	<0.0014	<0.0014	<0.0017	<0.0016	<0.0016	<0.0016	<0.0019
Dibromomethane	mg/kg	<0.0045	<0.0040	<0.0032	<0.0049	<0.0152	<0.0057	<0.0042	<0.0037	--	<0.0038	<0.0053	<0.0078	<0.0089	<0.0042	<0.0045	<0.0047	<0.0040	<0.0036	<0.0036	<0.0041	<0.0040	<0.0039	<0.0039	<0.0047
Dichlorodifluoromethane	mg/kg	<0.0090	<0.0080	<0.0063	<0.0097	<0.0303	<0.0114	<0.0084	<0.0073	--	<0.0076	<0.0106	<0.0156	<0.0179	<0.0084	<0.0091	<0.0094	<0.0081	<0.0072	<0.0071	<0.0083	<0.0079	<0.0079	<0.0079	<0.0093
Diethyl Ether	mg/kg	<0.0045	<0.0040	<0.0032	<0.0049	0.0252	<0.0057	<0.0042	<0.0037	--	<0.0038	<0.0053	<0.0078	0.13	0.0701	0.0279	<0.0047	<0.0040	<0.0036	<0.0036	<0.0041	<0.0040	<0.0039	<0.0039	<0.0047
Di-isopropyl ether	mg/kg	<0.0045	<0.0040	<0.0032	<0.0049	<0.0152	<0.0057	<0.0042	<0.0037	--	<0.0038	<0.0053	<0.0078	<0.0089	<0.0042	<0.0045	<0.0047	<0.0040	<0.0036	<0.0036	<0.0041	<0.0040	<0.0039	<0.0039	<0.0047
Ethyl tertiary-butyl ether	mg/kg	<0.0045	<0.0040	<0.0032	<0.0049	<0.0152	<0.0057	<0.0042	<0.0037	--	<0.0038	<0.0053	<0.0078	<0.0089	<0.0042	<0.0045	<0.0047	<0.0040	<0.0036	<0.0036	<0.0041	<0.0040	<0.0039	<0.0039	<0.0047
Ethylbenzene	mg/kg	0.0156	<0.0040	<0.0032	<0.0049	<0.0152	<0.0057	<0.0042	<0.0037	--	<0.0038	<0.0053	<0.0078	<0.0089	<0.0042	<0.0045	<0.0047	<0.0040	<0.0036	<0.0036	<0.0041	<0.0040	<0.0039	<0.0039	<0.0047
Hexachlorobutadiene	mg/kg	<0.0045	<0.0040	<0.0032	<0.0049	<0.0152	<0.0057	<0.0042	<0.0037	--	<0.0038	<0.0053	<0.0078	<0.0089	<0.0042	<0.0045	<0.0047	<0.0040	<0.0036	<0.0036	<0.0041	<0.0040	<0.0039	<0.0039	<0.0047
Isopropylbenzene	mg/kg	<0.0045	<0.0040	<0.0032	<0.0049	<0.0152	<0.0057	<0.0042	<0.0037	--	<0.0038	<0.0053	<0.0078	<0.0089	<0.0042	<0.0045	<0.0047	<0.0040	<0.0036	<0.0036	<0.0041	<0.0040	<0.0039	<0.0039	<0.0047
Methyl tert-Butyl Ether	mg/kg	<0.0045	<0.0040	<0.0032	<0.0049	<0.0152	<0.0057	<0.0042	<0.0037	--	<0.0038	<0.0053	<0.0078	<0.0089	<0.0042	<0.0045	<0.0047	<0.0040	<0.0036	<0.0036	<0.0041	<0.0040	<0.0039	<0.0039	<0.0047
Methylene Chloride	mg/kg	<0.0090	<0.0080	<0.0063	<0.0097	<0.0303	<0.0114	<0.0084	<0.0073	--	<0.0076	<0.0106	<0.0156	<0.0179	<0.0084	<0.0091	<0.0094	<0.0081	<0.0072	<0.0071	<0.0083	<0.0079	<0.0079	<0.0079	<0.0093
Naphthalene	mg/kg	0.0975	0.105	<0.0032	0.0583	0.0789	<0.0057	<0.0042	<0.0037	--	<0.0038	<0.0053	0.459	0.013	<0.0042	<0.0045	<0.0047	<0.0040	<0.0036	<0.0036	0.0044	0.0049	0.0468	<0.0039	0.0571
n-Butylbenzene	mg/kg	<0.0045	<0.0040	<0.0032	<0.0049	<0.0152	<0.0057	<0.0042	<0.0037	--	<0.0038	<0.0053	<0.0078	<0.0089	<0.0042	<0.0045	<0.0047	<0.0040	<0.0036	<0.0036	<0.0041	<0.0040	<0.0039	<0.0039	<0.0047
n-Propylbenzene	mg/kg	<0.0045	<0.0040	<0.0032	<0.0049	<0.0152	<0.0057	<0.0042	<0.0037	--	<0.0038	<0.0053	<0.0078	<0.0089	<0.0042	<0.0045	<0.0047	<0.0040	<0.0036	<0.0036	<0.0041	<0.0040	<0.0039	<0.0039	<0.0047
sec-Butylbenzene	mg/kg	<0.0045	<0.0040	<0.0032	<0.0049	<0.0152	<0.0057	<0.0042	<0.0037	--	<0.0038	<0.0053	<0.0078	<0.0089	<0.0042	<0.0045	<0.0047	<0.0040	<0.0036	<0.0036	<0.0041	<0.0040	<0.0039	<0.0039	<0.0047

Table 1
Soil Precharacterization Data

Wynn Resort Casino
Everett, Massachusetts

Analyte	Precharacterization Cell	E20	E20	F03	F03	F03	F03	F03	F03	F03	F03	F04	F04	F04	F04	F04	F04	F04	F04	F04	F05	F05	F05	F05	F05
	Sample ID	GZ010S15B16	GZ010S17S18	F03S01S02A	F03S02B	F03S05	F03S06	F03S07	F03S08	F03S09	F03S10S11	F04S01S02A	F04S03	F04S04	F04S05	F04S06	F04S07	F04S08	F04S09	F04S11	F05S01S02A	F05S03S04A	F05S06BS08A	F05S08BS09	F05S10S11
	Laboratory Work Order	1411194	1411194	1503070	1503070	1503095	1503095	1503095	1503095	1503095	1503095	1503022	1503022	1503022	1503022	1503022	1503022	1503022	1503022	1503022	1503070	1503070	1503164	1503164	1503164
	Soil Distinction	Natural	Natural	Fill	Fill	Natural	Natural	Natural	Natural	Natural	Natural	Fill	Fill	Organics	Natural	Natural	Natural	Natural	Natural	Natural	Fill	Fill	Fill	Fill	Fill
	Soil Type	Sand/Gravel	Clay			Organics	Clay	Clay	Clay	Sand/Gravel	Clay				Clay	Clay	Clay	Sand/Gravel	Clay	Sand/Gravel					
	Depth Interval (ft.)	31.3 - 36	39 - 46	0 - 3.3	3.3 - 6.6	8 - 10	14 - 16	19 - 21	24 - 26	29 - 31	34 - 38	0 - 3.3	4 - 6	6 - 8	12 - 14	14 - 16	19 - 21	24 - 26	29 - 31	36 - 38	0 - 3	5 - 8.3	3.3 - 6.6	6.6 - 10	10 - 13
	Sampling Date	11/10/2014	11/10/2014	3/4/2015	3/4/2015	3/5/2015	3/5/2015	3/5/2015	3/5/2015	3/5/2015	3/5/2015	3/2/2015	3/2/2015	3/2/2015	3/2/2015	3/2/2015	3/2/2015	3/2/2015	3/2/2015	3/2/2015	3/4/2015	3/4/2015	3/10/2015	3/10/2015	3/10/2015
Preliminary Disposal Facility Category		MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Uncontaminated	MCP Restricted	Hazardous Material Type A	Hazardous Material Type B	Hazardous Material Type B	MCP Regulated Type A	MCP Regulated Type A	MCP Restricted	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A
Styrene	mg/kg	<0.0045	<0.0040	<0.0032	<0.0049	<0.0152	<0.0057	<0.0042	<0.0037	--	<0.0038	<0.0053	<0.0078	<0.0089	<0.0042	<0.0045	<0.0047	<0.0040	<0.0036	<0.0036	<0.0041	<0.0040	<0.0039	<0.0039	<0.0047
tert-Butylbenzene	mg/kg	<0.0045	<0.0040	<0.0032	<0.0049	<0.0152	<0.0057	<0.0042	<0.0037	--	<0.0038	<0.0053	<0.0078	<0.0089	<0.0042	<0.0045	<0.0047	<0.0040	<0.0036	<0.0036	<0.0041	<0.0040	<0.0039	<0.0039	<0.0047
Tertiary-amyl methyl ether	mg/kg	<0.0045	<0.0040	<0.0032	<0.0049	<0.0152	<0.0057	<0.0042	<0.0037	--	<0.0038	<0.0053	<0.0078	<0.0089	<0.0042	<0.0045	<0.0047	<0.0040	<0.0036	<0.0036	<0.0041	<0.0040	<0.0039	<0.0039	<0.0047
Tetrachloroethene	mg/kg	<0.0045	<0.0040	<0.0032	<0.0049	<0.0152	<0.0057	<0.0042	<0.0037	--	<0.0038	<0.0053	<0.0078	<0.0089	<0.0042	<0.0045	<0.0047	<0.0040	<0.0036	<0.0036	<0.0041	<0.0040	<0.0039	<0.0039	<0.0047
Tetrahydrofuran	mg/kg	<0.0045	<0.0040	<0.0032	<0.0049	<0.0152	<0.0057	<0.0042	<0.0037	--	<0.0038	<0.0053	<0.0078	<0.0089	<0.0042	<0.0045	<0.0047	<0.0040	<0.0036	<0.0036	<0.0041	<0.0040	<0.0039	<0.0039	<0.0047
Toluene	mg/kg	0.0913	0.0064	<0.0032	<0.0049	<0.0152	<0.0057	<0.0042	<0.0037	--	<0.0038	<0.0053	<0.0078	<0.0089	<0.0042	<0.0045	<0.0047	<0.0040	<0.0036	<0.0036	<0.0041	<0.0040	<0.0039	<0.0039	<0.0047
trans-1,2-Dichloroethene	mg/kg	<0.0045	<0.0040	<0.0032	<0.0049	<0.0152	<0.0057	<0.0042	<0.0037	--	<0.0038	<0.0053	<0.0078	<0.0089	<0.0042	<0.0045	<0.0047	<0.0040	<0.0036	<0.0036	<0.0041	<0.0040	<0.0039	<0.0039	<0.0047
trans-1,3-Dichloropropene	mg/kg	<0.0045	<0.0040	<0.0032	<0.0049	<0.0152	<0.0057	<0.0042	<0.0037	--	<0.0038	<0.0053	<0.0078	<0.0089	<0.0042	<0.0045	<0.0047	<0.0040	<0.0036	<0.0036	<0.0041	<0.0040	<0.0039	<0.0039	<0.0047
Trichloroethene	mg/kg	<0.0045	<0.0040	<0.0032	<0.0049	<0.0152	<0.0057	<0.0042	<0.0037	--	<0.0038	<0.0053	0.0158	<0.0089	<0.0042	<0.0045	<0.0047	<0.0040	<0.0036	<0.0036	<0.0041	<0.0040	<0.0039	<0.0039	<0.0047
Trichlorofluoromethane	mg/kg	<0.0045	<0.0040	<0.0032	<0.0049	<0.0152	<0.0057	<0.0042	<0.0037	--	<0.0038	<0.0053	<0.0078	<0.0089	<0.0042	<0.0045	<0.0047	<0.0040	<0.0036	<0.0036	<0.0041	<0.0040	<0.0039	<0.0039	<0.0047
Vinyl Chloride	mg/kg	<0.0090	<0.0080	<0.0063	<0.0097	<0.0303	<0.0114	<0.0084	<0.0073	--	<0.0076	<0.0106	<0.0156	0.0297	<0.0084	0.0654	<0.0094	<0.0081	<0.0072	<0.0071	<0.0083	<0.0079	<0.0079	<0.0079	<0.0093
Xylene O	mg/kg	0.0224	<0.0040	<0.0032	<0.0049	<0.0152	<0.0057	<0.0042	<0.0037	--	<0.0038	<0.0053	<0.0078	<0.0089	<0.0042	<0.0045	<0.0047	<0.0040	<0.0036	<0.0036	<0.0041	<0.0040	<0.0039	<0.0039	<0.0047
Xylene P,M	mg/kg	0.0394	<0.0080	<0.0063	<0.0097	<0.0303	<0.0114	<0.0084	<0.0073	--	<0.0076	<0.0106	<0.0156	<0.0179	<0.0084	<0.0091	<0.0094	<0.0081	<0.0072	<0.0071	<0.0083	<0.0079	<0.0079	<0.0079	<0.0093
Xylenes (Total)	mg/kg	0.0619	<0.0080	<0.0063	<0.0097	<0.0303	<0.0114	<0.0084	<0.0073	--	<0.0076	<0.0106	<0.0156	<0.0179	<0.0084	<0.0091	<0.0094	<0.0081	<0.0072	<0.0071	<0.0083	<0.0079	<0.0079	<0.0079	<0.0093
Total VOCs (Low Level)	mg/kg	0.4784	0.1219	0.0077	0.0842	0.7147	0.0149	ND	ND	--	ND	0.0575	0.6969	0.3655	0.3763	0.2305	ND	0.009	0.0099	0.0075	0.0215	0.014	0.0955	0.0095	0.0913
Semi-Volatile Organic Compounds																									
1,2,4-Trichlorobenzene	mg/kg	<1.05	<0.947	<0.917	<0.912	<2.51	<1.04	<1.04	<1.07	<0.967	<0.870	<0.918	<1.32	<1.69	<1.02	<1.04	<1.11	<0.979	<0.977	<0.914	<0.933	<0.971	<0.925	<0.941	<0.915
1,2-Dichlorobenzene	mg/kg	<1.05	<0.947	<0.917	<0.912	<2.51	<1.04	<1.04	<1.07	<0.967	<0.870	<0.918	<1.32	<1.69	<1.02	<1.04	<1.11	<0.979	<0.977	<0.914	<0.933	<0.971	<0.925	<0.941	<0.915
1,3-Dichlorobenzene	mg/kg	<1.05	<0.947	<0.917	<0.912	<2.51	<1.04	<1.04	<1.07	<0.967	<0.870	<0.918	<1.32	<1.69	<1.02	<1.04	<1.11	<0.979	<0.977	<0.914	<0.933	<0.971	<0.925	<0.941	<0.915
1,4-Dichlorobenzene	mg/kg	<0.526	<0.475	<0.460	<0.457	<1.26	<0.521	<0.520	<0.536	<0.485	<0.436	<0.460	<0.662	<0.848	<0.513	<0.523	<0.555	<0.491	<0.490	<0.458	<0.468	<0.487	<0.464	<0.472	<0.459
2,4,5-Trichlorophenol	mg/kg	<1.05	<0.947	<0.917	<0.912	<2.51	<1.04	<1.04	<1.07	<0.967	<0.870	<0.918	<1.32	<1.69	<1.02	<1.04	<1.11	<0.979	<0.977	<0.914	<0.933	<0.971	<0.925	<0.941	<0.915
2,4,6-Trichlorophenol	mg/kg	<1.05	<0.947	<0.917	<0.912	<2.51	<1.04	<1.04	<1.07	<0.967	<0.870	<0.918	<1.32	<1.69	<1.02	<1.04	<1.11	<0.979	<0.977	<0.914	<0.933	<0.971	<0.925	<0.941	<0.915
2,4-Dichlorophenol	mg/kg	<1.05	<0.947	<0.917	<0.912	<2.51	<1.04	<1.04	<1.07	<0.967	<0.870	<0.918	<1.32	<1.69	<1.02	<1.04	<1.11	<0.979	<0.977	<0.914	<0.933	<0.971	<0.925	<0.941	<0.915
2,4-Dimethylphenol	mg/kg	<1.05	<0.947	<0.917	<0.912	<2.51	<1.04	<1.04	<1.07	<0.967	<0.870	<0.918	<1.32	<1.69	<1.02	<1.04	<1.11	<0.979	<0.977	<0.914	<0.933	<0.971	<0.925	<0.941	<0.915
2,4-Dinitrophenol	mg/kg	<5.26	<4.75	<4.60	<4.57	<12.6	<5.21	<5.20	<5.36	<4.85	<4.36	<4.60	<6.62	<8.48	<5.13	<5.23	<5.55	<4.91	<4.90	<4.58	<4.68	<4.87	<4.64	<4.72	<4.59
2,4-Dinitrotoluene	mg/kg	<1.05	<0.947	<0.917	<0.912	<0.630	<1.04	<1.04	<1.07	<0.967	<0.870	<0.918	<1.32	<1.69	<1.02	<1.04	<1.11	<0.979	<0.977	<0.914	<0.933	<0.971	<0.925	<0.941	<0.915
2,6-Dinitrotoluene	mg/kg	<1.05	<0.947	<0.917	<0.912	<2.51	<1.04	<1.04	<1.07	<0.967	<0.870	<0.918	<1.32	<1.69	<1.02	<1.04	<1.11	<0.979	<0.977	<0.914	<0.933	<0.971	<0.925	<0.941	<0.915
2-Chloronaphthalene	mg/kg	<1.05	<0.947	<0.917	<0.912	<2.51	<1.04	<1.04	<1.07	<0.967	<0.870	<0.918	<1.32	<1.69	<1.02	<1.04	<1.11	<0.979	<0.977	<0.914	<0.933	<0.971	<0.925	<0.941	<0.915
2-Chlorophenol	mg/kg	<1.05	<0.947	<0.917	<0.912	<2.51	<1.04	<1.04	<1.07	<0.967	<0.870	<0.918	<1.32	<1.69	<1.02	<1.04	<1.11	<0.979	<0.977	<0.914	<0.933	<0.971	<0.925	<0.941	<0.915
2-Methylnaphthalene	mg/kg	<1.05	<0.947	<0.917	<0.912	<2.51	<1.04	<1.04	<1.07	<0.967	<0.870	<0.918	2.03	<1.69	<1.02	<1.04	<1.11	<0.979	<0.977	<0.914	1.48	<0.971	1.06	<0.941	<0.915
2-Methylphenol	mg/kg	<1.05	<0.947	<0.917	<0.912	<2.51	<1.04	<1.04	<1.07	<0.967	<0.870	<0.918	<1.32	<1.69	<1.02	<1.04	<1.11	<0.979	<0.977	<0.914	<0.933	<0.971	<0.925	<0.941	<0.915
2-Nitrophenol	mg/kg	<1.05	<0.947	<0.917	<0.912	<2.51	<1.04	<1.04	<1.07	<0.967	<0.870	<0.918	<1.32	<1.69	<1.02	<1.04	<1.11	<0.979	<0.977	<0.914	<0.933	<0.971	<0.925	<0.941	<0.915
3,3´-Dichlorobenzidine	mg/kg	<2.10	<1.90	<1.84	<1.83	<5.04	<2.08	<2.08	<2.14	<1.94	<1.74	<1.84	<2.64	<3.39	<2.05	<2.09	<2.22	<1.96	<1.96	<1.83	<1.87	<1.94	<1.85	<1.88	<1.83
3+4-Methylphenol	mg/kg	<2.10	<1.90	<1.84	<1.83	<5.04	<2.08	<2.08	<2.14	<1.94	<1.74	<1.84	<2.64	<3.39	<2.05	<2.09	<2.22	<1.96	<1.96	<1.83	<1.87	<1.94	<1.85	<1.88	<1.83
4-Bromophenyl-phenylether	mg/kg	<1.05	<0.947	<0.917	<0.912	<2.51	<1.04	<1.04	<1.07	<0.967	<0.870	<0.918	<1.32	<1.69	<1.02	<1.04	<1.11	<0.979	<0.977	<0.914	<0.933	<0.971	<0.925	<0.941	<0.915
4-Chloroaniline	mg/kg	<2.10	<1.90	<1.84	<1.83	<5.04	<2.08	<2.08	<2.14	<1.94	<1.74	<1.84	<2.64	<3.39	<2.05	<2.09	<2.22	<1.96	<1.96	<1.83	<1.87	<1.94	<1.85	<1.88	<1.83
4-Nitrophenol	mg/kg	<5.26	<4.75	<4.60	<4.57	<1.26	<5.21	<5.20	<5.36	<4.85	<4.36	<4.60	<6.62	<8.48	<5.13	<5.23	<5.55	<4.91	<4.90	<4.58	<4.68	<4.87	<4.64	<4.72	<4.59
Acenaphthene	mg/kg	<1.05	<0.947	<0.917	2.34	<2.51	<1.04	<1.04	<1.07	<0.967	<0.870	2	13.9	<1.69	<1.02	<1.04	<1.11	<0.979	<0.977	<0.914	8.17	<0.971	5.86	<0.941	<0.915
Acenaphthylene	mg/kg	<1.05	<0.947	<0.917	<0.912	<2.51	<1.04	<1.04	<1.07	<0.967	<0.870	<0.918	2.08	<1.69	<1.02	<1.04	<1.11	<0.979	<0.977	<0.914	1.01	<0.971	<0.925	<0.941	<0.915
Acetophenone	mg/kg	<2.10	<1.90	<1.84	<1.83	<5.04	<2.08	<2.08	<2.14	<1.94	<1.74	<1.84	<2.64	<3.39	<2.05	<2.09	<2.22	<1.96	<1.96	<1.83	<1.87	<1.94	<1.85	<1.88	<1.83
Aniline	mg/kg	<5.26	<4.75	<4.60	<4.57	<12.6	<5.21	<5.20	<5.36	<4.85	<4.36	<4.60	<6.62	<8.48	<5.13	<5.23	<5.55	<4.91	<4.90	<4.58	<4.68	<4.87	<4.64	<4.72	<4.59
Anthracene	mg/kg	<1.05	<0.947	<0.917	5.03	<2.51	<1.04	<1.04	<1.07	<0.967	<0.870	5.13	55.1	<1.69	<1.02	<1.04	<1.11	<0.979	<0.977	<0.914	16.4	<0.971	11.3	<0.941	<0.915
Azobenzene	mg/kg	<1.05	<0.947	<0.917	<0.912	<2.51	<1.04	<1.04	<1.07	<0.967	<0.870	<0.918	<1.32	<1.69	<1.02	<1.04	<1.11	<0.979	<0.977	<0.914	<0.933	<0.971	<0.925	<0.941	<0.915
Benzo(a)anthracene	mg/kg	<1.05	<0.947	<0.917	13.9	<2.51	<1.04	<1.04	<1.07	<0.967	<0.870	13.6	103	1.81	<1.02	<1.04	<1.11	<0.979	<0.977	<0.914	43.8	<0.971	27.4	<0.941	<0.915
Benzo(a)pyrene	mg/kg	<0.526	<0.475	0.806	11.8	<1.26	<0.521	<0.520	<0.536	<0.485	<0.436	10.8	82.8	1.68	<0.513	<0.523	<0.555	<0.491	<0.490	<0.458	37.8	<0.487	21.1	<0.472	<0.459
Benzo(b)fluoranthene	mg/kg	<1.05	<0.947	1.16	16.5	<2.51	<1.04	<1.04	<1.07	<0.967	<0.870	13	65.6	1.96	<1.02	<1.04	<1.11	<0.979	<0.977	<0.914	40.7	<0.971	26.1	<0.941	<0.915
Benzo(g,h,i)perylene	mg/kg	<1.05	<0.947	<0.917	3.03	<2.51	<1.04	<1.04	<1.07	<0.967	<0.870	5.11	14.2	<1.69	<1.02	<1.04	<1.11	<0.979	<0.977	<0.914	8.62	<0.971	5.43	<0.941	<0.915
Benzo(k)fluoranthene	mg/kg	<1.05	<0.947	<0.917	7.05	<2.51	<1.04	<1.04	<1.07	<0.967	<0.870	5.6	69.1	<1.69	<1.02	<1.04	<1.11	<0.979	<0.977	<0.914	10.8	<0.971	10.3	<0.941	<0.915
bis(2-Chloroethoxy)methane	mg/kg	<1.05	<0.947	<0.917	<0.912	<2.51	<1.04	<1.04	<1.07	<0.967	<0.870	<0.918	<1.32	<1.69	<1.02	<1.04	<1.11	<0.979	<0.977	<0.914	<0.933	<0.971	<0.925	<0.941	<0.915
bis(2-Chloroethyl)ether	mg/kg	<0.526	<0.475	<0.460	<0.457	<0.249	<0.521	<0.520	<0.536	<0.485	<0.436	<0.460	<0.662	<0.848	<0.513	<0.523	<0.555	<0.491	<0.490	<0.458	<0.468	<0.487	<0.464	<0.472	<0.459
bis(2-chloroisopropyl)Ether	mg/kg	<0.526	<0.475	<0.460	<0.457	<0.249	<0.521	<0.520	<0.536	<0.485	<0.436	<0.460	<0.662	<0.848	<0.513	<0.523	<0.555	<0.491	<0.490	<0.458	<0.468	<0.487	<0.464	<0.472	<0.459
bis(2-Ethylhexyl)phthalate	mg/kg	<1.05	<0.947	<0.917	2.32	<2.51	<1.04	<1.04	<1.07	<0.967	<0.870	1.01	<1.32	<1.69	<1.02	<1.04	<1.11	<0.979	<0.977	<0.914	3.97	<0.971	1.69	<0.941	<0.915
Butylbenzylphthalate	mg/kg	<1.05	<0.947	<0.917	<0.912	<2.51	<1.04	<1.04	<1.07	<0.967	<0.870	<0.918	<1.32	<1.69	<1.02	<1.04	<1.11	<0.979	<0.977	<0.914	2.73	<0.971	<0.925	<0.941	<0.915
Chrysene	mg/kg	<0.526	<0.475	0.829	11.9	<1.26	<0.521	<0.520	<0.536	<0.485	<0.436	12.4	80.8	2.02	<0.513	<0.523	<0.555	<0.491	<0.490	<0.458	37.4	<0.487	23.5	<0.472	<0.459
Dibenzo(a,h)Anthracene	mg/kg	<0.526	<0.475	<0.460	1.65	<1.26	<0.521	<0.520	<0.536	<0.485	<0.436	3.05	10.2	<0.848	<0.513	<0.523	<0.555	<0.491	<0.490	<0.458	5.46	<0.487	2.92	<0.472	<0.459
Dibenzofuran	mg/kg	<1.05	<0.947	<0.917	1.1	<2.51	<1.04	<1.04	<1.07	<0.967	<0.870	1.12	7.34	<1.69	<1.02	<1.04	<1.11	<0.979	<0.977	<0.914	4.25	<0.971	2.51	<0.941	<0.915
Diethylphthalate	mg/kg	<1.05	<0.947	<0.917	<0.912	<2.51	<1.04	<1.04	<1.07	<0.967	<0.870	<0.918	<1.32	<1.69	<1.02	<1.04	<1.11	<0.979	<0.977	<0.914	<0.933	<0.971	<0.925	<0.941	<0.915
Dimethylphthalate	mg/kg	<1.05	<0.947	<0.917	<0.912	<2.51	<1.04	<1.04	<1.07	<0.967	<0.870	<0.918	<1.32	<1.69	<1.02	<1.04	<1.11	<0.979	<0.977	<0.914	<0.933	<0.971	<0.925	<0.941	<0.915
Di-n-butylphthalate	mg/kg	<1.05	<0.947	<0.917	<0.912	<2.51	<1.04	<1.04	<1.07	<0.967	<0.870	<0.918	<1.32	<1.69	<1.02	<1.04	<1.11	<0.979	<0.977	<0.914	<0.933	<0.971	<0.925	<0.941	<0.915
Di-n-octylphthalate	mg/kg	<1.05	<0.947	<0.917	<0.912	<2.51	<1.04	<1.04	<1.07	<0.967	<0.870	<0.918	<1.32	<1.69	<1.02	<1.04	<1.11	<0.979	<0.977	<0.914	<0.933	<0.971	<0.925	<0.941	<0.915
Fluoranthene	mg/kg	<1.05	<0.947	1.6	38.2	<2.51	<1.04	<1.04	<1.07	<0.967	<0.870	37.4	247	2.79	<1.02	<1.04	<1.11	<0.979	<0.977	<0.914	101	<0.971	66	<0.941	<0.915
Fluorene	mg/kg	<1.05	<0.947	<0.917	2.27	<2.51	<1.04	<1.04	<1.07	<0.967	<0.870	2.09	17.3	<1.69	<1.02	<1.04	<1.11	<0.979	<0.977	<0.914	8.22	<0.971	4.81	<0.941	<0.915
Hexachlorobenzene	mg/kg	<0.526	<0.475	<0.460	<0.457	<0.630	<0.521	<0.520	<0.536	<0.485	<0.436	<0.460	<0.662	<0.848	<0.513	<0.523	<0.555	<0.491	<0.490	<0.458	<0.468	<0.487	<0.464	<0.472	<0.459
Hexachlorobutadiene	mg/kg	<1.05	<0.947	<0.917	<0.912	<2.51	<1.04	<1.04	<1.07	<0.967	<0.870	<0.918	<1.32	<1.69	<1.02	<1.04	<1.11	<0.979	<0.977	<0.914	<0.933	<0.971	<0.925	<0.941	<0.915
Hexachloroethane	mg/kg	<1.05	<0.947	<0.917	<0.912	<1.26	<1.04	<1.04	<1.07	<0.967	<0.870	<0.918	<1.32	<1.69	<1.02	<1.04	<1.11	<0.979	<0.977	<0.914	<0.933	<0.971	<0.925	<0.941	<0.915
Indeno(1,2,3-cd)Pyrene	mg/kg	<1.05	<0.947	<0.917	3.32	<2.51	<1.04	<1.04	<1.07	<0.967	<0.870	5.17	17	<1.69	<1.02	<1.04	<1.11	<0.979	<0.977	<0.914	9.5	<0.971	6.14	<0.941	<0.915
Isophorone	mg/kg	<1.05	<0.947	<0.917	<0.912	<2.51	<1.04	<1.04	<1.07	<0.967	<0.870	<0.918	<1.32	<1.69	<1.02	<1.04	<1.11	<0.979	<0.977	<0.914	<0.933	<0.971	<0.925	<0.941	<0.915
Naphthalene	mg/kg	1.54	<0.947	<0.917	0.965	<2.51	<1.04	<1.04	<1.07	<0.967	<0.870	1.03	3.96	<1.69	<1.02	<1.04	<1.11	<0.979	<0.977	<0.914	3.42	<0.971	2.28	<0.941	<0.915
Nitrobenzene	mg/kg	<1.05	<0.947	<0.917	<0.912	<2.51	<1.04	<1.04	<1.07	<0.967	<0.870	<0.918	<1.32	<1.69	<1.02	<1.04	<1.11	<0.979	<0.977	<0.914	<0.933	<0.971	<0.925	<0.941	<0.915
N-Nitrosodimethylamine	mg/kg	<1.05	<0.947	<0.917	<0.912	<2.51	<1.04	<1.04	<1.07	<0.967	<0.870	<0.918	<1.32	<1.69	<1.02	<1.04	<1.11	<0.979	<0.977	<0.914	<0.933	<0.971	<0.925	<0.941	<0.915
Pentachlorophenol	mg/kg	<5.26	<4.75	<4.60	<4.57	<2.51	<5.21	<5.20	<5.36	<4.85	<4.36	<4.60	<6.62	<8.48	<5.13	<5.23	<5.55	<4.91	<4.90	<4.58	<4.68	<4.87	<4.64	<4.72	<4.59
Phenanthrene	mg/kg	<1.05	<0.947	1.13	17.4	<2.51	<1.04	<1.04	<1.07	<0.967	<0.870	18.5	159	<1.69	<1.02	<1.04	<1.11	<0.979	<0.977	<0.914	66.4	<0.971	41.2	<0.941	<0.915
Phenol	mg/kg	<1.05	<0.947	<0.917	<0.912	<2.51	<1.04	<1.04	<1.07	<0.967	<0.870	<0.918	<1.32	<1.69	<1.02	<1.04	<1.11	<0.979	<0.977	<0.914	<0.933	<0.971	<0.925	<0.941	<0.915
Pyrene	mg/kg	<1.05	<0.947	1.3	20.5	<2.51	<1.04	<1.04	<1.07	<0.967	<0.870	21	143	2.7	<1.02	<1.04	<1.11	<0.979	<0.977	<0.914	61.3	<0.971	46.4	<0.941	<0.915
Total SVOCs	mg/kg	1.54	ND	6.825	159.275	ND	ND	ND	ND	ND	ND	158.01	1093.41	12.96	ND	ND	ND	ND	ND	ND	472.43	ND	306	ND	ND
Classic Chemistry																									
Corrosivity (pH)	S.U.	3.85	4.24	8.19	7.33	7.89	7.23	7.42	7.14	7.84	8.17	8.82	7.76	7.52	7.9	7.85	7.42	7.29	7.2	7.29	9.3	10.5	7.56	7.42	8.26
Conductivity	umhos/cm	2810	1320	167	663	1190	3660	2000	2670	1200	1490	245	311	543	1110	1210	1200	1550	2290	1700	1050	501	1290	226	237
Flashpoint	°F	>200	>200	>200	>200	--	--	--	--	--	--	>200	>200	--	--	--	--	--	--	--	>200	>200	>200	>200	>200
Reactive Cyanide	mg/kg	<2.0	<2.0	<2.0	<2.0	--	--	--	--	--	--	<2.0	<2.0	--	--	--	--	--	--	--	<2.0	<2.0	<2.0	<2.0	<2.0
Reactive Sulfide	mg/kg	<2.0	<2.0	<2.0	<2.0	--	--	--	--	--	--	<2.0	<2.0	--	--	--	--	--	--	--	<2.0	<2.0	<2.0	<2.0	<2.0

Table 1
Soil Precharacterization Data

Wynn Resort Casino
Everett, Massachusetts

Analyte	Precharacterization Cell	F05	F05	F05	F05	F06	F06	F06	F06	F06	F06	F06	F06	F08	F08	F08	F08	F08	F08	F08	F08	F09	F09	F09
	Sample ID	F05S14	F05S15	F05S16	F05S17S18	F06S01S02A	F06S02BS04A	F06S04BS05	F06S06S07A	F06S08	F06S09	F06S10	F06S11S12	F08S01S02A	F08S02BS04A	F08S04BS05	F08S06	F08S07	F08S08	F08S09	F08S10	F08S11S12	F09S01S02A	F09S02BS04	F09S05S06
	Laboratory Work Order	1503164	1503164	1503164	1503164	1503134	1503134	1503134	1503134	1503134	1503134	1503134	1503134	1501272	1501272	1501272	1501308	1501308	1501308	1501308	1501308	1501308	1501308	1501308
	Soil Distinction	Natural	Natural	Natural	Natural	Fill	Fill	Fill	Fill	Natural	Natural	Natural	Natural	Fill	Fill	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Fill	Fill	Natural
	Soil Type	Clay	Clay	Clay	Sand/Gravel					Clay	Clay	Clay	Clay			Clay	Clay	Clay	Clay	Clay	Clay	Sand/Gravel			Clay
	Depth Interval (ft.)	19 - 21	24 - 26	29 - 31	34 - 38	0 - 3.3	3.3 - 6.7	6.7 - 10	10 - 13.3	19 - 21	24 - 26	29 - 31	34 - 38	0 - 3.3	3.3 - 6.6	6.6 - 10	10 -12	16 - 18	19 - 21	24 - 26	29 - 31	34 - 38	0 - 3.3	3.3 - 8	8 - 12
	Sampling Date	3/10/2015	3/10/2015	3/10/2015	3/10/2015	3/9/2015	3/9/2015	3/9/2015	3/9/2015	3/9/2015	3/9/2015	3/9/2015	3/9/2015	1/14/2015	1/14/2015	1/14/2015	1/15/2015	1/15/2015	1/15/2015	1/15/2015	1/15/2015	1/15/2015	1/15/2015	1/15/2015	1/15/2015
Preliminary Disposal Facility Category		MCP Restricted	MCP Regulated Type A	MCP Regulated Type A	Uncontaminated	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Restricted	Uncontaminated	Uncontaminated	Uncontaminated	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Restricted	MCP Restricted	MCP Restricted	Uncontaminated	Uncontaminated	MCP Regulated Type A	MCP Regulated Type A	MCP Restricted
RCRA 8 Metals	**Units**																								
Arsenic	mg/kg	<6.88	<7.97	<7.51	<6.28	<6.91	39.2	11.6	11	9.29	<7.35	<7.95	<7.44	<7.36	35	29.7	11.3	11.8	11.4	<7.85	<7.52	<7.75	<6.41	23.1	9.46
Barium	mg/kg	113	33.3	64.3	20.6	34.7	70.4	56.1	26.1	97.9	42.1	23	37.5	31.8	123	102	147	109	103	72	32.9	19.9	38.7	106	103
Cadmium	mg/kg	<1.38	<1.59	<1.50	<1.26	<1.38	<1.43	<1.60	<1.60	<1.74	<1.47	<1.59	<1.49	<1.47	2.97	3.08	<1.43	<1.75	<1.43	<1.57	<1.50	<1.55	<1.28	2.14	<1.40
Chromium	mg/kg	52.5	18.6	31.1	12.5	12.4	21.1	26	10.5	43.7	27.1	14	18.7	14.6	35.2	31.5	54.3	56.8	56.6	48.8	21.1	14.4	16.5	23.8	49.7
Lead	mg/kg	14.5	<15.9	<15.0	<12.6	58	327	75.1	111	<17.4	<14.7	<15.9	<14.9	27.1	506	307	15.4	<17.5	15.7	<15.7	<15.0	<15.5	58.7	389	<14.0
Selenium	mg/kg	<6.88	<7.97	<7.51	<6.28	<6.91	<7.16	<8.00	<8.00	<8.70	<7.35	<7.95	<7.44	<7.36	<7.51	<8.39	<7.17	58.2	<7.17	<7.85	<7.52	<7.75	<6.41	<6.65	<7.02
Silver	mg/kg	<1.38	<1.59	<1.50	<1.26	<1.38	<1.43	<1.60	<1.60	<1.74	<1.47	<1.59	<1.49	<1.47	3.39	3.55	<1.43	<1.75	<1.43	<1.57	<1.50	<1.55	<1.28	1.95	<1.40
Mercury	mg/kg	<0.038	<0.037	<0.032	<0.027	0.28	0.483	0.582	0.487	<0.039	<0.039	<0.038	<0.035	0.069	2.22	3.83	<0.038	<0.039	<0.035	<0.034	<0.035	<0.039	1.34	0.668	<0.042
Metals by Toxicity Characteristic Leaching Procedure (TCLP)																									
Arsenic	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead	mg/L	--	--	--	--	--	3.49	--	<0.500	--	--	--	--	--	0.078	0.15	--	--	--	--	--	--	--	0.096	--
Selenium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.050	--	--	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Herbicides																									
2,4,5-T	mg/kg	--	--	--	--	<0.050	<0.059	<0.060	<0.058	--	--	--	--	<0.26	<0.63	<0.071	--	--	--	--	--	<0.061	<0.54	<0.59	<0.063
2,4-D	mg/kg	--	--	--	--	<0.050	<0.059	<0.060	<0.058	--	--	--	--	<0.26	<0.63	<0.071	--	--	--	--	--	<0.061	<0.54	<0.59	<0.063
2,4-DB	mg/kg	--	--	--	--	<0.050	<0.059	<0.060	<0.058	--	--	--	--	<0.26	<0.63	<0.071	--	--	--	--	--	<0.061	<0.54	<0.59	<0.063
Dalapon	mg/kg	--	--	--	--	<0.60	<0.71	<0.72	<0.70	--	--	--	--	<3.1	<7.6	<0.85	--	--	--	--	--	<0.74	<6.5	<7.1	<0.76
Dicamba	mg/kg	--	--	--	--	<0.050	<0.059	<0.060	<0.058	--	--	--	--	<0.26	<0.63	<0.071	--	--	--	--	--	<0.061	<0.54	<0.59	<0.063
Dichlorprop	mg/kg	--	--	--	--	<0.050	<0.059	<0.060	<0.058	--	--	--	--	<0.26	<0.63	<0.071	--	--	--	--	--	<0.061	<0.54	<0.59	<0.063
Dinoseb	mg/kg	--	--	--	--	<0.30	<0.36	<0.36	<0.35	--	--	--	--	<1.6	<3.8	<0.42	--	--	--	--	--	<0.37	<3.3	<3.5	<0.38
MCPA	mg/kg	--	--	--	--	<12	<14	<14	<14	--	--	--	--	<63	<150	<17	--	--	--	--	--	<15	<130	<140	<15
MCPP	mg/kg	--	--	--	--	<12	<14	<14	<14	--	--	--	--	<63	<150	<17	--	--	--	--	--	<15	<130	<140	<15
Silvex (2,4,5-TP)	mg/kg	--	--	--	--	<0.050	<0.059	<0.060	<0.058	--	--	--	--	<0.26	<0.63	<0.071	--	--	--	--	--	<0.061	<0.54	<0.59	<0.063
Pesticides																									
4,4'-DDD	mg/kg	--	--	--	--	<0.035	<0.010	<0.011	<0.0041	--	--	--	--	<0.037	<0.021	<0.0047	--	--	--	--	--	<0.0021	<0.090	<0.098	<0.0022
4,4'-DDE	mg/kg	--	--	--	--	<0.035	<0.010	<0.011	<0.0041	--	--	--	--	<0.037	<0.021	<0.0047	--	--	--	--	--	<0.0021	<0.090	<0.098	<0.0022
4,4'-DDT	mg/kg	--	--	--	--	<0.035	<0.010	<0.011	<0.0041	--	--	--	--	<0.037	<0.021	<0.0047	--	--	--	--	--	<0.0021	<0.090	<0.098	<0.0022
Aldrin	mg/kg	--	--	--	--	<0.035	<0.010	<0.011	<0.0041	--	--	--	--	<0.037	<0.021	<0.0047	--	--	--	--	--	<0.0021	<0.090	<0.098	<0.0022
alpha-BHC	mg/kg	--	--	--	--	<0.035	<0.010	<0.011	<0.0041	--	--	--	--	<0.037	<0.021	<0.0047	--	--	--	--	--	<0.0021	<0.090	<0.098	<0.0022
beta-BHC	mg/kg	--	--	--	--	<0.035	<0.010	<0.011	<0.0041	--	--	--	--	<0.037	<0.021	<0.0047	--	--	--	--	--	<0.0021	<0.090	<0.098	<0.0022
Chlordane (technical)	mg/kg	--	--	--	--	<0.35	<0.10	<0.11	<0.041	--	--	--	--	<0.37	<0.21	<0.047	--	--	--	--	--	<0.021	<0.90	<0.98	<0.022
delta-BHC	mg/kg	--	--	--	--	<0.035	<0.010	<0.011	<0.0041	--	--	--	--	<0.037	<0.021	<0.0047	--	--	--	--	--	<0.0021	<0.090	<0.098	<0.0022
Dieldrin	mg/kg	--	--	--	--	<0.035	<0.010	<0.011	<0.0041	--	--	--	--	<0.037	<0.021	<0.0047	--	--	--	--	--	<0.0021	<0.090	<0.098	<0.0022
Endosulfan I	mg/kg	--	--	--	--	<0.035	<0.010	<0.011	<0.0041	--	--	--	--	<0.037	<0.021	<0.0047	--	--	--	--	--	<0.0021	<0.090	<0.098	<0.0022
Endosulfan II	mg/kg	--	--	--	--	<0.035	<0.010	<0.011	<0.0041	--	--	--	--	<0.037	<0.021	<0.0047	--	--	--	--	--	<0.0021	<0.090	<0.098	<0.0022
Endosulfan sulfate	mg/kg	--	--	--	--	<0.035	<0.010	<0.011	<0.0041	--	--	--	--	<0.037	<0.021	<0.0047	--	--	--	--	--	<0.0021	<0.090	<0.098	<0.0022
Endrin	mg/kg	--	--	--	--	<0.035	<0.010	<0.011	<0.0041	--	--	--	--	<0.037	<0.021	<0.0047	--	--	--	--	--	<0.0021	<0.090	<0.098	<0.0022
Endrin ketone	mg/kg	--	--	--	--	<0.035	<0.010	<0.011	<0.0041	--	--	--	--	<0.037	<0.021	<0.0047	--	--	--	--	--	<0.0021	<0.090	<0.098	<0.0022
gamma-BHC (Lindane)	mg/kg	--	--	--	--	<0.035	<0.010	<0.011	<0.0041	--	--	--	--	<0.037	<0.021	<0.0047	--	--	--	--	--	<0.0021	<0.090	<0.098	<0.0022
Heptachlor	mg/kg	--	--	--	--	<0.035	<0.010	<0.011	<0.0041	--	--	--	--	<0.037	<0.021	<0.0047	--	--	--	--	--	<0.0021	<0.090	<0.098	<0.0022
Heptachlor epoxide	mg/kg	--	--	--	--	<0.035	<0.010	<0.011	<0.0041	--	--	--	--	<0.037	<0.021	<0.0047	--	--	--	--	--	<0.0021	<0.090	<0.098	<0.0022
Hexachlorobenzene	mg/kg	--	--	--	--	<0.035	<0.010	<0.011	<0.0041	--	--	--	--	<0.037	<0.021	<0.0047	--	--	--	--	--	<0.0021	<0.090	<0.098	0.0043
Methoxychlor	mg/kg	--	--	--	--	<0.035	<0.010	<0.011	<0.0041	--	--	--	--	<0.037	<0.021	<0.0047	--	--	--	--	--	<0.0021	<0.090	<0.098	<0.0022
Polychlorinated Biphenyls																									
Aroclor 1016	mg/kg	<0.154	<0.144	<0.146	<0.139	<0.141	<0.135	<0.153	<0.152	<0.159	<0.146	<0.153	<0.146	<0.135	<0.153	<0.156	<0.153	<0.168	<0.164	<0.165	<0.157	<0.145	<0.128	<0.142	<0.153
Aroclor 1221	mg/kg	<0.154	<0.144	<0.146	<0.139	<0.141	<0.135	<0.153	<0.152	<0.159	<0.146	<0.153	<0.146	<0.135	<0.153	<0.156	<0.153	<0.168	<0.164	<0.165	<0.157	<0.145	<0.128	<0.142	<0.153
Aroclor 1232	mg/kg	<0.154	<0.144	<0.146	<0.139	<0.141	<0.135	<0.153	<0.152	<0.159	<0.146	<0.153	<0.146	<0.135	<0.153	<0.156	<0.153	<0.168	<0.164	<0.165	<0.157	<0.145	<0.128	<0.142	<0.153
Aroclor 1242	mg/kg	<0.154	<0.144	<0.146	<0.139	<0.141	<0.135	<0.153	<0.152	<0.159	<0.146	<0.153	<0.146	<0.135	<0.153	<0.156	<0.153	<0.168	<0.164	<0.165	<0.157	<0.145	<0.128	<0.142	<0.153
Aroclor 1248	mg/kg	<0.154	<0.144	<0.146	<0.139	<0.141	<0.135	<0.153	<0.152	<0.159	<0.146	<0.153	<0.146	<0.135	<0.153	<0.156	<0.153	<0.168	<0.164	<0.165	<0.157	<0.145	<0.128	<0.142	<0.153
Aroclor 1254	mg/kg	<0.154	<0.144	<0.146	<0.139	<0.141	0.795	<0.153	<0.152	<0.159	<0.146	<0.153	<0.146	<0.135	<0.153	<0.156	<0.153	<0.168	<0.164	<0.165	<0.157	<0.145	1.16	<0.142	<0.153
Aroclor 1260	mg/kg	<0.154	<0.144	<0.146	<0.139	0.218	<0.135	<0.153	<0.152	<0.159	<0.146	<0.153	<0.146	<0.135	<0.153	<0.156	<0.153	<0.168	<0.164	<0.165	<0.157	<0.145	0.289	<0.142	<0.153
Aroclor 1262	mg/kg	<0.154	<0.144	<0.146	<0.139	<0.141	<0.135	<0.153	<0.152	<0.159	<0.146	<0.153	<0.146	<0.135	<0.153	<0.156	<0.153	<0.168	<0.164	<0.165	<0.157	<0.145	<0.128	<0.142	<0.153
Aroclor 1268	mg/kg	<0.154	<0.144	<0.146	<0.139	<0.141	<0.135	<0.153	<0.152	<0.159	<0.146	<0.153	<0.146	<0.135	<0.153	<0.156	<0.153	<0.168	<0.164	<0.165	<0.157	<0.145	<0.128	0.336	<0.153
Total PCBs	mg/kg	ND	ND	ND	ND	0.218	0.795	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.449	0.336	ND
Total Petroleum Hydrocarbons	mg/kg	451	<48.1	<45.6	<44.4	718	1800	368	241	<50.4	<49.8	<45.0	<46.2	163	1060	88.8	<44.8	<50.6	<52.5	<48.6	<49.1	<44.7	1320	1700	<45.0
Volatile Organic Compounds (VOCs)																									
1,1,1,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-Chloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane - Screen	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Butanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Isopropyltoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-Pentanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Disulfide	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	F05 F05S14 1503164 Natural Clay 19 - 21 3/10/2015	F05 F05S15 1503164 Natural Clay 24 - 26 3/10/2015	F05 F05S16 1503164 Natural Clay 29 - 31 3/10/2015	F05 F05S17S18 1503164 Natural Sand/Gravel 34 - 38 3/10/2015	F06 F06S01S02A 1503134 Fill 0 - 3.3 3/9/2015	F06 F06S02BS04A 1503134 Fill 3.3 - 6.7 3/9/2015	F06 F06S04BS05 1503134 Fill 6.7 - 10 3/9/2015	F06 F06S06S07A 1503134 Fill 10 - 13.3 3/9/2015	F06 F06S08 1503134 Natural Clay 19 - 21 3/9/2015	F06 F06S09 1503134 Natural Clay 24 - 26 3/9/2015	F06 F06S10 1503134 Natural Clay 29 - 31 3/9/2015	F06 F06S11S12 1503134 Natural Clay 34 - 38 3/9/2015	F08 F08S01S02A 1501272 Fill 0 - 3.3 1/14/2015	F08 F08S02BS04A 1501272 Fill 3.3 - 6.6 1/14/2015	F08 F08S04BS05 1501272 Natural Clay 6.6 - 10 1/14/2015	F08 F08S06 1501308 Natural Clay 10 - 12 1/15/2015	F08 F08S07 1501308 Natural Clay 16 - 18 1/15/2015	F08 F08S08 1501308 Natural Clay 19 - 21 1/15/2015	F08 F08S09 1501308 Natural Clay 24 - 26 1/15/2015	F08 F08S10 1501308 Natural Sand/Gravel 29 - 31 1/15/2015	F08 F08S11S12 1501308 Natural Sand/Gravel 34 - 38 1/15/2015	F09 F09S01S02A 1501308 Fill 0 - 3.3 1/15/2015	F09 F09S02BS04 1501308 Fill 3.3 - 8 1/15/2015	F09 F09S05S06 1501308 Natural Clay 8 - 12 1/15/2015
Preliminary Disposal Facility Category		MCP Restricted	MCP Regulated Type A	MCP Regulated Type A	Uncontaminated	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Restricted	Uncontaminated	Uncontaminated	Uncontaminated	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Restricted	MCP Restricted	MCP Restricted	Uncontaminated	Uncontaminated	MCP Regulated Type A	MCP Regulated Type A	MCP Restricted
Chlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Diethyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Di-isopropyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethyl tertiary-butyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
tert-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tertiary-amyl methyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene O	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene P,M	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylenes (Total)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total VOCs	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds - Low Level Analysis																									
1,1,1,2-Tetrachloroethane	mg/kg	<0.0048	<0.0051	<0.0038	<0.0045	<0.0036	<0.0027	<0.0046	<0.0037	<0.0030	<0.0041	<0.0059	<0.0022	<0.0068	<0.0051	<0.0034	<0.0034	<0.0043	<0.0035	<0.0032	<0.0035	<0.0029	<0.0070	<0.0038	<0.0060
1,1,1-Trichloroethane	mg/kg	<0.0048	<0.0051	<0.0038	<0.0045	<0.0036	<0.0027	<0.0046	<0.0037	<0.0030	<0.0041	<0.0059	<0.0022	<0.0068	<0.0051	<0.0034	<0.0034	<0.0043	<0.0035	<0.0032	<0.0035	<0.0029	<0.0070	<0.0038	<0.0060
1,1,2,2-Tetrachloroethane	mg/kg	<0.0019	<0.0021	<0.0015	<0.0018	<0.0015	<0.0011	<0.0019	<0.0015	<0.0012	<0.0016	<0.0024	<0.0009	<0.0027	<0.0021	<0.0013	<0.0014	<0.0017	<0.0014	<0.0013	<0.0014	<0.0012	<0.0028	<0.0015	<0.0024
1,1,2-Trichloroethane	mg/kg	<0.0048	<0.0051	<0.0038	<0.0045	<0.0036	<0.0027	<0.0046	<0.0037	<0.0030	<0.0041	<0.0059	<0.0022	<0.0068	<0.0051	<0.0034	<0.0034	<0.0043	<0.0035	<0.0032	<0.0035	<0.0029	<0.0070	<0.0038	<0.0060
1,1-Dichloroethane	mg/kg	<0.0048	<0.0051	<0.0038	<0.0045	<0.0036	<0.0027	<0.0046	<0.0037	<0.0030	<0.0041	<0.0059	<0.0022	<0.0068	<0.0051	<0.0034	<0.0034	<0.0043	<0.0035	<0.0032	<0.0035	<0.0029	<0.0070	<0.0038	<0.0060
1,1-Dichloroethene	mg/kg	<0.0048	<0.0051	<0.0038	<0.0045	<0.0036	<0.0027	<0.0046	<0.0037	<0.0030	<0.0041	<0.0059	<0.0022	<0.0068	<0.0051	<0.0034	<0.0034	<0.0043	<0.0035	<0.0032	<0.0035	<0.0029	<0.0070	<0.0038	<0.0060
1,1-Dichloropropene	mg/kg	<0.0048	<0.0051	<0.0038	<0.0045	<0.0036	<0.0027	<0.0046	<0.0037	<0.0030	<0.0041	<0.0059	<0.0022	<0.0068	<0.0051	<0.0034	<0.0034	<0.0043	<0.0035	<0.0032	<0.0035	<0.0029	<0.0070	<0.0038	<0.0060
1,2,3-Trichlorobenzene	mg/kg	<0.0048	<0.0051	<0.0038	<0.0045	<0.0036	<0.0027	<0.0046	<0.0037	<0.0030	<0.0041	<0.0059	<0.0022	<0.0068	<0.0051	<0.0034	<0.0034	<0.0043	<0.0035	<0.0032	<0.0035	<0.0029	<0.0070	<0.0038	<0.0060
1,2,3-Trichloropropane	mg/kg	<0.0048	<0.0051	<0.0038	<0.0045	<0.0036	<0.0027	<0.0046	<0.0037	<0.0030	<0.0041	<0.0059	<0.0022	<0.0068	<0.0051	<0.0034	<0.0034	<0.0043	<0.0035	<0.0032	<0.0035	<0.0029	<0.0070	<0.0038	<0.0060
1,2,4-Trichlorobenzene	mg/kg	<0.0048	<0.0051	<0.0038	<0.0045	0.0054	<0.0027	<0.0046	<0.0037	<0.0030	<0.0041	<0.0059	<0.0022	<0.0068	<0.0051	<0.0034	<0.0034	<0.0043	<0.0035	<0.0032	<0.0035	<0.0029	<0.0070	<0.0038	<0.0060
1,2,4-Trimethylbenzene	mg/kg	<0.0048	<0.0051	<0.0038	<0.0045	<0.0036	<0.0027	<0.0046	<0.0037	<0.0030	<0.0041	<0.0059	<0.0022	<0.0068	<0.0051	<0.0034	<0.0034	<0.0043	<0.0035	<0.0032	<0.0035	<0.0029	<0.0070	<0.0038	<0.0060
1,2-Dibromo-3-Chloropropane	mg/kg	<0.0048	<0.0051	<0.0038	<0.0045	<0.0036	<0.0027	<0.0046	<0.0037	<0.0030	<0.0041	<0.0059	<0.0022	<0.0068	<0.0051	<0.0034	<0.0034	<0.0043	<0.0035	<0.0032	<0.0035	<0.0029	<0.0070	<0.0038	<0.0060
1,2-Dibromoethane	mg/kg	<0.0048	<0.0051	<0.0038	<0.0045	<0.0036	<0.0027	<0.0046	<0.0037	<0.0030	<0.0041	<0.0059	<0.0022	<0.0068	<0.0051	<0.0034	<0.0034	<0.0043	<0.0035	<0.0032	<0.0035	<0.0029	<0.0070	<0.0038	<0.0060
1,2-Dichlorobenzene	mg/kg	<0.0048	<0.0051	<0.0038	<0.0045	<0.0036	<0.0027	<0.0046	<0.0037	<0.0030	<0.0041	<0.0059	<0.0022	<0.0068	<0.0051	<0.0034	<0.0034	<0.0043	<0.0035	<0.0032	<0.0035	<0.0029	<0.0070	<0.0038	<0.0060
1,2-Dichloroethane	mg/kg	<0.0048	<0.0051	<0.0038	<0.0045	<0.0036	<0.0027	<0.0046	<0.0037	<0.0030	<0.0041	<0.0059	<0.0022	<0.0068	<0.0051	<0.0034	<0.0034	<0.0043	<0.0035	<0.0032	<0.0035	<0.0029	<0.0070	<0.0038	<0.0060
1,2-Dichloropropane	mg/kg	<0.0048	<0.0051	<0.0038	<0.0045	<0.0036	<0.0027	<0.0046	<0.0037	<0.0030	<0.0041	<0.0059	<0.0022	<0.0068	<0.0051	<0.0034	<0.0034	<0.0043	<0.0035	<0.0032	<0.0035	<0.0029	<0.0070	<0.0038	<0.0060
1,3,5-Trimethylbenzene	mg/kg	<0.0048	<0.0051	<0.0038	<0.0045	<0.0036	<0.0027	<0.0046	<0.0037	<0.0030	<0.0041	<0.0059	<0.0022	<0.0068	<0.0051	<0.0034	<0.0034	<0.0043	<0.0035	<0.0032	<0.0035	<0.0029	<0.0070	<0.0038	<0.0060
1,3-Dichlorobenzene	mg/kg	<0.0048	<0.0051	<0.0038	<0.0045	<0.0036	<0.0027	<0.0046	<0.0037	<0.0030	<0.0041	<0.0059	<0.0022	<0.0068	<0.0051	<0.0034	<0.0034	<0.0043	<0.0035	<0.0032	<0.0035	<0.0029	<0.0070	<0.0038	<0.0060
1,3-Dichloropropane	mg/kg	<0.0048	<0.0051	<0.0038	<0.0045	<0.0036	<0.0027	<0.0046	<0.0037	<0.0030	<0.0041	<0.0059	<0.0022	<0.0068	<0.0051	<0.0034	<0.0034	<0.0043	<0.0035	<0.0032	<0.0035	<0.0029	<0.0070	<0.0038	<0.0060
1,4-Dichlorobenzene	mg/kg	<0.0048	<0.0051	<0.0038	<0.0045	<0.0036	<0.0027	<0.0046	<0.0037	<0.0030	<0.0041	<0.0059	<0.0022	<0.0068	<0.0051	<0.0034	<0.0034	<0.0043	<0.0035	<0.0032	<0.0035	<0.0029	<0.0070	<0.0038	<0.0060
1,4-Dioxane	mg/kg	<0.0954	<0.103	<0.0760	<0.0898	<0.0729	<0.0541	<0.0928	<0.0742	<0.0597	<0.0813	<0.119	<0.0434	<0.136	<0.103	<0.0674	<0.0688	<0.0861	<0.0706	<0.0640	<0.0693	<0.0585	<0.139	<0.0756	<0.120
2,2-Dichloropropane	mg/kg	<0.0048	<0.0051	<0.0038	<0.0045	<0.0036	<0.0027	<0.0046	<0.0037	<0.0030	<0.0041	<0.0059	<0.0022	<0.0068	<0.0051	<0.0034	<0.0034	<0.0043	<0.0035	<0.0032	<0.0035	<0.0029	<0.0070	<0.0038	<0.0060
2-Butanone	mg/kg	<0.0095	<0.0103	<0.0076	<0.0090	<0.0073	<0.0054	<0.0093	<0.0074	<0.0060	<0.0081	<0.0119	<0.0043	<0.0136	<0.0103	<0.0067	<0.0069	<0.0086	<0.0071	<0.0064	<0.0069	<0.0058	<0.0139	<0.0076	<0.0120
2-Chlorotoluene	mg/kg	<0.0048	<0.0051	<0.0038	<0.0045	<0.0036	<0.0027	<0.0046	<0.0037	<0.0030	<0.0041	<0.0059	<0.0022	<0.0068	<0.0051	<0.0034	<0.0034	<0.0043	<0.0035	<0.0032	<0.0035	<0.0029	<0.0070	<0.0038	<0.0060
2-Hexanone	mg/kg	<0.0095	<0.0103	<0.0076	<0.0090	<0.0073	<0.0054	<0.0093	<0.0074	<0.0060	<0.0081	<0.0119	<0.0043	<0.0136	<0.0103	<0.0067	<0.0069	<0.0086	<0.0071	<0.0064	<0.0069	<0.0058	<0.0139	<0.0076	<0.0120
4-Chlorotoluene	mg/kg	<0.0048	<0.0051	<0.0038	<0.0045	<0.0036	<0.0027	<0.0046	<0.0037	<0.0030	<0.0041	<0.0059	<0.0022	<0.0068	<0.0051	<0.0034	<0.0034	<0.0043	<0.0035	<0.0032	<0.0035	<0.0029	<0.0070	<0.0038	<0.0060
4-Isopropyltoluene	mg/kg	<0.0048	<0.0051	<0.0038	<0.0045	<0.0036	<0.0027	<0.0046	<0.0037	<0.0030	<0.0041	<0.0059	<0.0022	<0.0068	<0.0051	<0.0034	<0.0034	<0.0043	<0.0035	<0.0032	<0.0035	<0.0029	<0.0070	<0.0038	<0.0060
4-Methyl-2-Pentanone	mg/kg	<0.0095	<0.0103	<0.0076	<0.0090	<0.0073	<0.0054	<0.0093	<0.0074	<0.0060	<0.0081	<0.0119	<0.0043	<0.0136	<0.0103	<0.0067	<0.0069	<0.0086	<0.0071	<0.0064	<0.0069	<0.0058	<0.0139	<0.0076	<0.0120
Acetone	mg/kg	<0.0095	0.0103	0.0147	<0.0090	0.0354	0.0134	<0.0093	0.0336	<0.0060	<0.0081	<0.0119	<0.0043	0.0149	0.0192	0.0139	0.0193	<0.0086	<0.0071	<0.0064	<0.0069	<0.0058	0.02	0.0702	<0.0120
Benzene	mg/kg	<0.0048	<0.0051	<0.0038	<0.0045	<0.0036	<0.0027	<0.0046	<0.0037	<0.0030	<0.0041	<0.0059	<0.0022	<0.0068	<0.0051	<0.0034	<0.0034	<0.0043	<0.0035	<0.0032	<0.0035	<0.0029	<0.0070	<0.0038	<0.0060
Bromobenzene	mg/kg	<0.0048	<0.0051	<0.0038	<0.0045	<0.0036	<0.0027	<0.0046	<0.0037	<0.0030	<0.0041	<0.0059	<0.0022	<0.0068	<0.0051	<0.0034	<0.0034	<0.0043	<0.0035	<0.0032	<0.0035	<0.0029	<0.0070	<0.0038	<0.0060
Bromochloromethane	mg/kg	<0.0048	<0.0051	<0.0038	<0.0045	<0.0036	<0.0027	<0.0046	<0.0037	<0.0030	<0.0041	<0.0059	<0.0022	<0.0068	<0.0051	<0.0034	<0.0034	<0.0043	<0.0035	<0.0032	<0.0035	<0.0029	<0.0070	<0.0038	<0.0060
Bromodichloromethane	mg/kg	<0.0048	<0.0051	<0.0038	<0.0045	<0.0036	<0.0027	<0.0046	<0.0037	<0.0030	<0.0041	<0.0059	<0.0022	<0.0068	<0.0051	<0.0034	<0.0034	<0.0043	<0.0035	<0.0032	<0.0035	<0.0029	<0.0070	<0.0038	<0.0060
Bromoform	mg/kg	<0.0048	<0.0051	<0.0038	<0.0045	<0.0036	<0.0027	<0.0046	<0.0037	<0.0030	<0.0041	<0.0059	<0.0022	<0.0068	<0.0051	<0.0034	<0.0034	<0.0043	<0.0035	<0.0032	<0.0035	<0.0029	<0.0070	<0.0038	<0.0060
Bromomethane	mg/kg	<0.0095	<0.0103	<0.0076	<0.0090	<0.0073	<0.0054	<0.0093	<0.0074	<0.0060	<0.0081	<0.0119	<0.0043	<0.0136	<0.0103	<0.0067	<0.0069	<0.0086	<0.0071	<0.0064	<0.0069	<0.0058	<0.0139	<0.0076	<0.0120
Carbon Disulfide	mg/kg	<0.0048	<0.0051	<0.0038	<0.0045	<0.0036	<0.0027	<0.0046	<0.0037	<0.0030	<0.0041	<0.0059	<0.0022	<0.0068	<0.0051	<0.0034	<0.0034	<0.0043	<0.0035	<0.0032	<0.0035	<0.0029	<0.0070	<0.0038	<0.0060
Carbon Tetrachloride	mg/kg	<0.0048	<0.0051	<0.0038	<0.0045	<0.0036	<0.0027	<0.0046	<0.0037	<0.0030	<0.0041	<0.0059	<0.0022	<0.0068	<0.0051	<0.0034	<0.0034	<0.0043	<0.0035	<0.0032	<0.0035	<0.0029	<0.0070	<0.0038	<0.0060
Chlorobenzene	mg/kg	<0.0048	<0.0051	<0.0038	<0.0045	<0.0036	<0.0027	<0.0046	<0.0037	<0.0030	<0.0041	<0.0059	<0.0022	<0.0068	<0.0051	<0.0034	<0.0034	<0.0043	<0.0035	<0.0032	<0.0035	<0.0029	<0.0070	<0.0038	<0.0060
Chloroethane	mg/kg	<0.0048	<0.0051	<0.0038	<0.0045	<0.0036	<0.0027	<0.0046	<0.0037	<0.0030	<0.0041	<0.0059	<0.0022	<0.0068	<0.0051	<0.0034	<0.0034	<0.0043	<0.0035	<0.0032	<0.0035	<0.0029	<0.0070	<0.0038	<0.0060
Chloroform	mg/kg	<0.0048	<0.0051	<0.0038	<0.0045	<0.0036	<0.0027	<0.0046	<0.0037	<0.0030	<0.0041	<0.0059	<0.0022	<0.0068	<0.0051	<0.0034	<0.0034	<0.0043	<0.0035	<0.0032	<0.0035	<0.0029	<0.0070	<0.0038	<0.0060
Chloromethane	mg/kg	<0.0095	<0.0103	<0.0076	<0.0090	<0.0073	<0.0054	<0.0093	<0.0074	<0.0060	<0.0081	<0.0119	<0.0043	<0.0136	<0.0103	<0.0067	<0.0069	<0.0086	<0.0071	<0.0064	<0.0069	<0.0058	<0.0139	<0.0076	<0.0120
cis-1,2-Dichloroethene	mg/kg	<0.0048	<0.0051	<0.0038	<0.0045	<0.0036	<0.0027	<0.0046	<0.0037	<0.0030	<0.0041	<0.0059	<0.0022	<0.0068	<0.0051	<0.0034	<0.0034	<0.0043	<0.0035	<0.0032	<0.0035	<0.0029	<0.0070	<0.0038	<0.0060
cis-1,3-Dichloropropene	mg/kg	<0.0048	<0.0051	<0.0038	<0.0045	<0.0036	<0.0027	<0.0046	<0.0037	<0.0030	<0.0041	<0.0059	<0.0022	<0.0068	<0.0051	<0.0034	<0.0034	<0.0043	<0.0035	<0.0032	<0.0035	<0.0029	<0.0070	<0.0038	<0.0060
Dibromochloromethane	mg/kg	<0.0019	<0.0021	<0.0015	<0.0018	<0.0015	<0.0011	<0.0019	<0.0015	<0.0012	<0.0016	<0.0024	<0.0009	<0.0027	<0.0021	<0.0013	<0.0014	<0.0017	<0.0014	<0.0013	<0.0014	<0.0012	<0.0028	<0.0015	<0.0024
Dibromomethane	mg/kg	<0.0048	<0.0051	<0.0038	<0.0045	<0.0036	<0.0027	<0.0046	<0.0037	<0.0030	<0.0041	<0.0059	<0.0022	<0.0068	<0.0051	<0.0034	<0.0034	<0.0043	<0.0035	<0.0032	<0.0035	<0.0029	<0.0070	<0.0038	<0.0060
Dichlorodifluoromethane	mg/kg	<0.0095	<0.0103	<0.0076	<0.0090	<0.0073	<0.0054	<0.0093	<0.0074	<0.0060	<0.0081	<0.0119	<0.0043	<0.0136	<0.0103	<0.0067	<0.0069	<0.0086	<0.0071	<0.0064	<0.0069	<0.0058	<0.0139	<0.0076	<0.0120
Diethyl Ether	mg/kg	<0.0048	<0.0051	<0.0038	<0.0045	<0.0036	<0.0027	<0.0046	<0.0037	<0.0030	<0.0041	<0.0059	<0.0022	<0.0068	<0.0051	<0.0034	<0.0034	<0.0043	<0.0035	<0.0032	<0.0035	<0.0029	<0.0070	<0.0038	<0.0060
Di-isopropyl ether	mg/kg	<0.0048	<0.0051	<0.0038	<0.0045	<0.0036	<0.0027	<0.0046	<0.0037	<0.0030	<0.0041	<0.0059	<0.0022	<0.0068	<0.0051	<0.0034	<0.0034	<0.0043	<0.0035	<0.0032	<0.0035	<0.0029	<0.0070	<0.0038	<0.0060
Ethyl tertiary-butyl ether	mg/kg	<0.0048	<0.0051	<0.0038	<0.0045	<0.0036	<0.0027	<0.0046	<0.0037	<0.0030	<0.0041	<0.0059	<0.0022	<0.0068	<0.0051	<0.0034	<0.0034	<0.0043	<0.0035	<0.0032	<0.0035	<0.0029	<0.0070	<0.0038	<0.0060
Ethylbenzene	mg/kg	<0.0048	<0.0051	<0.0038	<0.0045	<0.0036	<0.0027	<0.0046	<0.0037	<0.0030	<0.0041	<0.0059	<0.0022	<0.0068	<0.0051	<0.0034	<0.0034	<0.0043	<0.0035	<0.0032	<0.0035	<0.0029	<0.0070	<0.0038	<0.0060
Hexachlorobutadiene	mg/kg	<0.0048	<0.0051	<0.0038	<0.0045	<0.0036	<0.0027	<0.0046	<0.0037	<0.0030	<0.0041	<0.0059	<0.0022	<0.0068	<0.0051	<0.0034	<0.0034	<0.0043	<0.0035	<0.0032	<0.0035	<0.0029	<0.0070	<0.0038	<0.0060
Isopropylbenzene	mg/kg	<0.0048	<0.0051	<0.0038	<0.0045	<0.0036	<0.0027	<0.0046	<0.0037	<0.0030	<0.0041	<0.0059	<0.0022	<0.0068	<0.0051	<0.0034	<0.0034	<0.0043	<0.0035	<0.0032	<0.0035	<0.0029	<0.0070	<0.0038	<0.0060
Methyl tert-Butyl Ether	mg/kg	<0.0048	<0.0051	<0.0038	<0.0045	<0.0036	<0.0027	<0.0046	<0.0037	<0.0030	<0.0041	<0.0059	<0.0022	<0.0068	<0.0051	<0.0034	<0.0034	<0.0043	<0.0035	<0.0032	<0.0035	<0.0029	<0.0070	<0.0038	<0.0060
Methylene Chloride	mg/kg	<0.0095	<0.0103	<0.0076	<0.0090	<0.0073	<0.0054	<0.0093	<0.0074	<0.0060	<0.0081	<0.0119	<0.0043	<0.0136	<0.0103	<0.0067	<0.0069	<0.0086	<0.0071	<0.0064	<0.0069	<0.0058	<0.0139	<0.0076	<0.0120
Naphthalene	mg/kg	<0.0048	<0.0051	<0.0038	<0.0045	<0.0036	<0.0027	0.007	<0.0037	<0.0030	<0.0041	<0.0059	<0.0022	<0.0068	0.0305	<0.0034	<0.0034	<0.0043	<0.0035	<0.0032	<0.0035	<0.0029	<0.0070	<0.0038	<0.0060
n-Butylbenzene	mg/kg	<0.0048	<0.0051	<0.0038	<0.0045	<0.0036	<0.0027	<0.0046	<0.0037	<0.0030	<0.0041	<0.0059	<0.0022	<0.0068	<0.0051	<0.0034	<0.0034	<0.0043	<0.0035	<0.0032	<0.0035	<0.0029	<0.0070	<0.0038	<0.0060
n-Propylbenzene	mg/kg	<0.0048	<0.0051	<0.0038	<0.0045	<0.0036	<0.0027	<0.0046	<0.0037	<0.0030	<0.0041	<0.0059	<0.0022	<0.0068	<0.0051	<0.0034	<0.0034	<0.0043	<0.0035	<0.0032	<0.0035	<0.0029	<0.0070	<0.0038	<0.0060
sec-Butylbenzene	mg/kg	<0.0048	<0.0051	<0.0038	<0.0045	<0.0036	<0.0027	<0.0046	<0.0037	<0.0030	<0.0041	<0.0059	<0.0022	<0.0068	<0.0051	<0.0034	<0.0034	<0.0043	<0.0035	<0.0032	<0.0035	<0.0029	<0.0070	<0.0038	<0.0060

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	F05 F05S14 1503164 Natural Clay 19 - 21 3/10/2015	F05 F05S15 1503164 Natural Clay 24 - 26 3/10/2015	F05 F05S16 1503164 Natural Clay 29 - 31 3/10/2015	F05 F05S17S18 1503164 Natural Sand/Gravel 34 - 38 3/10/2015	F06 F06501S02A 1503134 Fill 0 - 3.3 3/9/2015	F06 F06502BS04A 1503134 Fill 3.3 - 6.7 3/9/2015	F06 F06504BS05 1503134 Fill 6.7 - 10 3/9/2015	F06 F06506S07A 1503134 Fill 10 - 13.3 3/9/2015	F06 F06508 1503134 Natural Clay 19 - 21 3/9/2015	F06 F06509 1503134 Natural Clay 24 - 26 3/9/2015	F06 F06510 1503134 Natural Clay 29 - 31 3/9/2015	F06 F06511S12 1503134 Natural Clay 34 - 38 3/9/2015	F08 F08501S02A 1501272 Fill 0 - 3.3 1/14/2015	F08 F08502BS04A 1501272 Fill 3.3 - 6.6 1/14/2015	F08 F08504BS05 1501272 Natural Clay 6.6 - 10 1/14/2015	F08 F08506 1501308 Natural Clay 10 -12 1/15/2015	F08 F08507 1501308 Natural Clay 16 - 18 1/15/2015	F08 F08508 1501308 Natural Clay 19 - 21 1/15/2015	F08 F08509 1501308 Natural Clay 24 - 26 1/15/2015	F08 F08510 1501308 Natural Sand/Gravel 29 - 31 1/15/2015	F08 F08511S12 1501308 Natural Sand/Gravel 34 - 38 1/15/2015	F09 F09501S02A 1501308 Fill 0 - 3.3 1/15/2015	F09 F09S02BS04 1501308 Fill 3.3 - 8 1/15/2015	F09 F09S05S06 1501308 Natural Clay 8 - 12 1/15/2015
Preliminary Disposal Facility Category		MCP Restricted	MCP Regulated Type A	MCP Regulated Type A	Uncontaminated	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Restricted	Uncontaminated	Uncontaminated	Uncontaminated	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Restricted	MCP Restricted	MCP Restricted	Uncontaminated	Uncontaminated	MCP Regulated Type A	MCP Regulated Type A	MCP Restricted
Styrene	mg/kg	<0.0048	<0.0051	<0.0038	<0.0045	<0.0036	<0.0027	<0.0046	<0.0037	<0.0030	<0.0041	<0.0059	<0.0022	<0.0068	<0.0051	<0.0034	<0.0034	<0.0043	<0.0035	<0.0032	<0.0035	<0.0029	<0.0070	<0.0038	<0.0060
tert-Butylbenzene	mg/kg	<0.0048	<0.0051	<0.0038	<0.0045	<0.0036	<0.0027	<0.0046	<0.0037	<0.0030	<0.0041	<0.0059	<0.0022	<0.0068	<0.0051	<0.0034	<0.0034	<0.0043	<0.0035	<0.0032	<0.0035	<0.0029	<0.0070	<0.0038	<0.0060
Tertiary-amyl methyl ether	mg/kg	<0.0048	<0.0051	<0.0038	<0.0045	<0.0036	<0.0027	<0.0046	<0.0037	<0.0030	<0.0041	<0.0059	<0.0022	<0.0068	<0.0051	<0.0034	<0.0034	<0.0043	<0.0035	<0.0032	<0.0035	<0.0029	<0.0070	<0.0038	<0.0060
Tetrachloroethene	mg/kg	<0.0048	<0.0051	<0.0038	<0.0045	<0.0036	<0.0027	<0.0046	<0.0037	<0.0030	<0.0041	<0.0059	<0.0022	<0.0068	<0.0051	<0.0034	<0.0034	<0.0043	<0.0035	<0.0032	<0.0035	<0.0029	<0.0070	<0.0038	<0.0060
Tetrahydrofuran	mg/kg	<0.0048	<0.0051	<0.0038	<0.0045	<0.0036	<0.0027	<0.0046	<0.0037	<0.0030	<0.0041	<0.0059	<0.0022	<0.0068	<0.0051	<0.0034	<0.0034	<0.0043	<0.0035	<0.0032	<0.0035	<0.0029	<0.0070	<0.0038	<0.0060
Toluene	mg/kg	<0.0048	<0.0051	<0.0038	<0.0045	<0.0036	<0.0027	<0.0046	<0.0037	<0.0030	<0.0041	<0.0059	<0.0022	<0.0068	<0.0051	<0.0034	<0.0034	<0.0043	<0.0035	<0.0032	<0.0035	<0.0029	<0.0070	<0.0038	<0.0060
trans-1,2-Dichloroethene	mg/kg	<0.0048	<0.0051	<0.0038	<0.0045	<0.0036	<0.0027	<0.0046	<0.0037	<0.0030	<0.0041	<0.0059	<0.0022	<0.0068	<0.0051	<0.0034	<0.0034	<0.0043	<0.0035	<0.0032	<0.0035	<0.0029	<0.0070	<0.0038	<0.0060
trans-1,3-Dichloropropene	mg/kg	<0.0048	<0.0051	<0.0038	<0.0045	<0.0036	<0.0027	<0.0046	<0.0037	<0.0030	<0.0041	<0.0059	<0.0022	<0.0068	<0.0051	<0.0034	<0.0034	<0.0043	<0.0035	<0.0032	<0.0035	<0.0029	<0.0070	<0.0038	<0.0060
Trichloroethene	mg/kg	<0.0048	<0.0051	<0.0038	<0.0045	<0.0036	<0.0027	<0.0046	<0.0037	<0.0030	<0.0041	<0.0059	<0.0022	<0.0068	<0.0051	<0.0034	<0.0034	<0.0043	<0.0035	<0.0032	<0.0035	<0.0029	<0.0070	<0.0038	<0.0060
Trichlorofluoromethane	mg/kg	<0.0048	<0.0051	<0.0038	<0.0045	<0.0036	<0.0027	<0.0046	<0.0037	<0.0030	<0.0041	<0.0059	<0.0022	<0.0068	<0.0051	<0.0034	<0.0034	<0.0043	<0.0035	<0.0032	<0.0035	<0.0029	<0.0070	<0.0038	<0.0060
Vinyl Chloride	mg/kg	<0.0095	<0.0103	<0.0076	<0.0090	<0.0073	<0.0054	<0.0093	<0.0074	<0.0060	<0.0081	<0.0119	<0.0043	<0.0136	<0.0103	<0.0067	<0.0069	<0.0086	<0.0071	<0.0064	<0.0069	<0.0058	<0.0139	<0.0076	<0.0120
Xylene O	mg/kg	<0.0048	<0.0051	<0.0038	<0.0045	<0.0036	<0.0027	<0.0046	<0.0037	<0.0030	<0.0041	<0.0059	<0.0022	<0.0068	<0.0051	<0.0034	<0.0034	<0.0043	<0.0035	<0.0032	<0.0035	<0.0029	<0.0070	<0.0038	<0.0060
Xylene P,M	mg/kg	<0.0095	<0.0103	<0.0076	<0.0090	<0.0073	<0.0054	<0.0093	<0.0074	<0.0060	<0.0081	<0.0119	<0.0043	<0.0136	<0.0103	<0.0067	<0.0069	<0.0086	<0.0071	<0.0064	<0.0069	<0.0058	<0.0139	<0.0076	<0.0120
Xylenes (Total)	mg/kg	<0.0095	<0.0103	<0.0076	<0.0090	<0.0073	<0.0054	<0.0093	<0.0074	<0.0060	<0.0081	<0.0119	<0.0043	<0.0136	<0.0103	<0.0067	<0.0069	<0.0086	<0.0071	<0.0064	<0.0069	<0.0058	<0.0139	<0.0076	<0.0120
Total VOCs (Low Level)	mg/kg	ND	0.0103	0.0147	ND	0.0408	0.0134	0.007	0.0336	ND	ND	ND	ND	0.0149	0.0497	0.0139	0.0193	ND	ND	ND	ND	ND	0.02	0.0702	ND
Semi-Volatile Organic Compounds																									
1,2,4-Trichlorobenzene	mg/kg	<1.06	<1.03	<0.935	<0.889	<0.926	<0.888	<0.950	<1.01	<1.04	<1.04	<0.941	<0.942	<0.862	<0.946	<0.985	<1.02	<0.960	<1.08	<1.10	<0.942	<0.908	<0.872	<0.929	<1.05
1,2-Dichlorobenzene	mg/kg	<1.06	<1.03	<0.935	<0.889	<0.926	<0.888	<0.950	<1.01	<1.04	<1.04	<0.941	<0.942	<0.862	<0.946	<0.985	<1.02	<0.960	<1.08	<1.10	<0.942	<0.908	<0.872	<0.929	<1.05
1,3-Dichlorobenzene	mg/kg	<1.06	<1.03	<0.935	<0.889	<0.926	<0.888	<0.950	<1.01	<1.04	<1.04	<0.941	<0.942	<0.862	<0.946	<0.985	<1.02	<0.960	<1.08	<1.10	<0.942	<0.908	<0.872	<0.929	<1.05
1,4-Dichlorobenzene	mg/kg	<0.532	<0.517	<0.469	<0.446	<0.465	<0.445	<0.476	<0.505	<0.523	<0.523	<0.472	<0.472	<0.432	<0.475	<0.494	<0.513	<0.481	<0.542	<0.551	<0.472	<0.455	<0.437	<0.466	<0.527
2,4,5-Trichlorophenol	mg/kg	<1.06	<1.03	<0.935	<0.889	<0.926	<0.888	<0.950	<1.01	<1.04	<1.04	<0.941	<0.942	<0.862	<0.946	<0.985	<1.02	<0.960	<1.08	<1.10	<0.942	<0.908	<0.872	<0.929	<1.05
2,4,6-Trichlorophenol	mg/kg	<1.06	<1.03	<0.935	<0.889	<0.926	<0.888	<0.950	<1.01	<1.04	<1.04	<0.941	<0.942	<0.862	<0.946	<0.985	<1.02	<0.960	<1.08	<1.10	<0.942	<0.908	<0.872	<0.929	<1.05
2,4-Dichlorophenol	mg/kg	<1.06	<1.03	<0.935	<0.889	<0.926	<0.888	<0.950	<1.01	<1.04	<1.04	<0.941	<0.942	<0.862	<0.946	<0.985	<1.02	<0.960	<1.08	<1.10	<0.942	<0.908	<0.872	<0.929	<1.05
2,4-Dimethylphenol	mg/kg	<1.06	<1.03	<0.935	<0.889	<0.926	<0.888	<0.950	<1.01	<1.04	<1.04	<0.941	<0.942	<0.862	<0.946	<0.985	<1.02	<0.960	<1.08	<1.10	<0.942	<0.908	<0.872	<0.929	<1.05
2,4-Dinitrophenol	mg/kg	<5.32	<5.17	<4.69	<4.46	<4.65	<4.45	<4.76	<5.05	<5.23	<5.23	<4.72	<4.72	<4.32	<4.75	<4.94	<5.13	<4.81	<5.42	<5.51	<4.72	<4.55	<4.37	<4.66	<5.27
2,4-Dinitrotoluene	mg/kg	<1.06	<1.03	<0.935	<0.889	<0.926	<0.888	<0.950	<1.01	<1.04	<1.04	<0.941	<0.942	<0.862	<0.946	<0.985	<1.02	<0.960	<1.08	<1.10	<0.942	<0.908	<0.872	<0.929	<1.05
2,6-Dinitrotoluene	mg/kg	<1.06	<1.03	<0.935	<0.889	<0.926	<0.888	<0.950	<1.01	<1.04	<1.04	<0.941	<0.942	<0.862	<0.946	<0.985	<1.02	<0.960	<1.08	<1.10	<0.942	<0.908	<0.872	<0.929	<1.05
2-Chloronaphthalene	mg/kg	<1.06	<1.03	<0.935	<0.889	<0.926	<0.888	<0.950	<1.01	<1.04	<1.04	<0.941	<0.942	<0.862	<0.946	<0.985	<1.02	<0.960	<1.08	<1.10	<0.942	<0.908	<0.872	<0.929	<1.05
2-Chlorophenol	mg/kg	<1.06	<1.03	<0.935	<0.889	<0.926	<0.888	<0.950	<1.01	<1.04	<1.04	<0.941	<0.942	<0.862	<0.946	<0.985	<1.02	<0.960	<1.08	<1.10	<0.942	<0.908	<0.872	<0.929	<1.05
2-Methylnaphthalene	mg/kg	<1.06	<1.03	<0.935	<0.889	<0.926	1.43	<0.950	<1.01	<1.04	<1.04	<0.941	<0.942	<0.862	<0.946	<0.985	<1.02	<0.960	<1.08	<1.10	<0.942	<0.908	<0.872	<0.929	<1.05
2-Methylphenol	mg/kg	<1.06	<1.03	<0.935	<0.889	<0.926	<0.888	<0.950	<1.01	<1.04	<1.04	<0.941	<0.942	<0.862	<0.946	<0.985	<1.02	<0.960	<1.08	<1.10	<0.942	<0.908	<0.872	<0.929	<1.05
2-Nitrophenol	mg/kg	<1.06	<1.03	<0.935	<0.889	<0.926	<0.888	<0.950	<1.01	<1.04	<1.04	<0.941	<0.942	<0.862	<0.946	<0.985	<1.02	<0.960	<1.08	<1.10	<0.942	<0.908	<0.872	<0.929	<1.05
3,3´-Dichlorobenzidine	mg/kg	<2.12	<2.07	<1.87	<1.78	<1.86	<1.78	<1.90	<2.02	<2.09	<2.09	<1.89	<1.89	<1.73	<1.90	<1.97	<2.05	<1.92	<2.17	<2.20	<1.89	<1.82	<1.75	<1.86	<2.10
3+4-Methylphenol	mg/kg	<2.12	<2.07	<1.87	<1.78	<1.86	<1.78	<1.90	<2.02	<2.09	<2.09	<1.89	<1.89	<1.73	<1.90	<1.97	<2.05	<1.92	<2.17	<2.20	<1.89	<1.82	<1.75	<1.86	<2.10
4-Bromophenyl-phenylether	mg/kg	<1.06	<1.03	<0.935	<0.889	<0.926	<0.888	<0.950	<1.01	<1.04	<1.04	<0.941	<0.942	<0.862	<0.946	<0.985	<1.02	<0.960	<1.08	<1.10	<0.942	<0.908	<0.872	<0.929	<1.05
4-Chloroaniline	mg/kg	<2.12	<2.07	<1.87	<1.78	<1.86	<1.78	<1.90	<2.02	<2.09	<2.09	<1.89	<1.89	<1.73	<1.90	<1.97	<2.05	<1.92	<2.17	<2.20	<1.89	<1.82	<1.75	<1.86	<2.10
4-Nitrophenol	mg/kg	<5.32	<5.17	<4.69	<4.46	<4.65	<4.45	<4.76	<5.05	<5.23	<5.23	<4.72	<4.72	<4.32	<4.75	<4.94	<5.13	<4.81	<5.42	<5.51	<4.72	<4.55	<4.37	<4.66	<5.27
Acenaphthene	mg/kg	<1.06	<1.03	<0.935	<0.889	<0.926	6.48	<0.950	<1.01	<1.04	<1.04	<0.941	<0.942	<0.862	<0.946	<0.985	<1.02	<0.960	<1.08	<1.10	<0.942	<0.908	<0.872	<0.929	<1.05
Acenaphthylene	mg/kg	<1.06	<1.03	<0.935	<0.889	<0.926	<0.888	<0.950	<1.01	<1.04	<1.04	<0.941	<0.942	<0.862	<0.946	<0.985	<1.02	<0.960	<1.08	<1.10	<0.942	<0.908	<0.872	<0.929	<1.05
Acetophenone	mg/kg	<2.12	<2.07	<1.87	<1.78	<1.86	<1.78	<1.90	<2.02	<2.09	<2.09	<1.89	<1.89	<1.73	<1.90	<1.97	<2.05	<1.92	<2.17	<2.20	<1.89	<1.82	<1.75	<1.86	<2.10
Aniline	mg/kg	<5.32	<5.17	<4.69	<4.46	<4.65	<4.45	<4.76	<5.05	<5.23	<5.23	<4.72	<4.72	<4.32	<4.75	<4.94	<5.13	<4.81	<5.42	<5.51	<4.72	<4.55	<4.37	<4.66	<5.27
Anthracene	mg/kg	<1.06	<1.03	<0.935	<0.889	<0.926	11.1	2.13	1.18	<1.04	<1.04	<0.941	<0.942	<0.862	1.3	<0.985	<1.02	<0.960	<1.08	<1.10	<0.942	<0.908	<0.872	<0.929	<1.05
Azobenzene	mg/kg	<1.06	<1.03	<0.935	<0.889	<0.926	<0.888	<0.950	<1.01	<1.04	<1.04	<0.941	<0.942	<0.862	<0.946	<0.985	<1.02	<0.960	<1.08	<1.10	<0.942	<0.908	<0.872	<0.929	<1.05
Benzo(a)anthracene	mg/kg	<1.06	<1.03	<0.935	<0.889	1.53	32.7	4.86	3.57	<1.04	<1.04	<0.941	<0.942	<0.862	3.62	<0.985	<1.02	<0.960	<1.08	<1.10	<0.942	<0.908	<0.872	2.85	<1.05
Benzo(a)pyrene	mg/kg	<0.532	<0.517	<0.469	<0.446	1.4	21.2	3.9	3.17	<0.523	<0.523	<0.472	<0.472	0.806	2.96	0.59	<0.513	<0.481	<0.542	<0.551	<0.472	<0.455	0.464	2.21	<0.527
Benzo(b)fluoranthene	mg/kg	<1.06	<1.03	<0.935	<0.889	2.36	33.9	4.34	3.72	<1.04	<1.04	<0.941	<0.942	<0.862	5.66	<0.985	<1.02	<0.960	<1.08	<1.10	<0.942	<0.908	<0.872	4.34	<1.05
Benzo(g,h,i)perylene	mg/kg	<1.06	<1.03	<0.935	<0.889	<0.926	3.63	1.75	1.22	<1.04	<1.04	<0.941	<0.942	<0.862	<0.946	<0.985	<1.02	<0.960	<1.08	<1.10	<0.942	<0.908	<0.872	<0.929	<1.05
Benzo(k)fluoranthene	mg/kg	<1.06	<1.03	<0.935	<0.889	1.09	9.1	2.13	1.62	<1.04	<1.04	<0.941	<0.942	<0.862	2.76	<0.985	<1.02	<0.960	<1.08	<1.10	<0.942	<0.908	<0.872	1.66	<1.05
bis(2-Chloroethoxy)methane	mg/kg	<1.06	<1.03	<0.935	<0.889	<0.926	<0.888	<0.950	<1.01	<1.04	<1.04	<0.941	<0.942	<0.862	<0.946	<0.985	<1.02	<0.960	<1.08	<1.10	<0.942	<0.908	<0.872	<0.929	<1.05
bis(2-Chloroethyl)ether	mg/kg	<0.532	<0.517	<0.469	<0.446	<0.465	<0.445	<0.476	<0.505	<0.523	<0.523	<0.472	<0.472	<0.432	<0.475	<0.494	<0.513	<0.481	<0.542	<0.551	<0.472	<0.455	<0.437	<0.466	<0.527
bis(2-chloroisopropyl)Ether	mg/kg	<0.532	<0.517	<0.469	<0.446	<0.465	<0.445	<0.476	<0.505	<0.523	<0.523	<0.472	<0.472	<0.432	<0.475	<0.494	<0.513	<0.481	<0.542	<0.551	<0.472	<0.455	<0.437	<0.466	<0.527
bis(2-Ethylhexyl)phthalate	mg/kg	<1.06	<1.03	<0.935	<0.889	<0.926	<0.888	<0.950	<1.01	<1.04	<1.04	<0.941	<0.942	0.899	1.08	1.05	<1.02	<0.960	<1.08	<1.10	<0.942	<0.908	4.52	<0.929	<1.05
Butylbenzylphthalate	mg/kg	<1.06	<1.03	<0.935	<0.889	<0.926	<0.888	<0.950	<1.01	<1.04	<1.04	<0.941	<0.942	<0.862	<0.946	<0.985	<1.02	<0.960	<1.08	<1.10	<0.942	<0.908	<0.872	<0.929	<1.05
Chrysene	mg/kg	<0.532	<0.517	<0.469	<0.446	1.61	22.1	3.96	3.33	<0.523	<0.523	<0.472	<0.472	0.979	3.47	0.906	<0.513	<0.481	<0.542	<0.551	<0.472	<0.455	<0.437	2.39	<0.527
Dibenzo(a,h)Anthracene	mg/kg	<0.532	<0.517	<0.469	<0.446	<0.465	2.1	<0.476	<0.505	<0.523	<0.523	<0.472	<0.472	<0.432	0.498	<0.494	<0.513	<0.481	<0.542	<0.551	<0.472	<0.455	<0.437	<0.466	<0.527
Dibenzofuran	mg/kg	<1.06	<1.03	<0.935	<0.889	<0.926	3.34	<0.950	<1.01	<1.04	<1.04	<0.941	<0.942	<0.862	<0.946	<0.985	<1.02	<0.960	<1.08	<1.10	<0.942	<0.908	<0.872	<0.929	<1.05
Diethylphthalate	mg/kg	<1.06	<1.03	<0.935	<0.889	<0.926	<0.888	<0.950	<1.01	<1.04	<1.04	<0.941	<0.942	<0.862	<0.946	<0.985	<1.02	<0.960	<1.08	<1.10	<0.942	<0.908	<0.872	<0.929	<1.05
Dimethylphthalate	mg/kg	<1.06	<1.03	<0.935	<0.889	<0.926	<0.888	<0.950	<1.01	<1.04	<1.04	<0.941	<0.942	<0.862	<0.946	<0.985	<1.02	<0.960	<1.08	<1.10	<0.942	<0.908	<0.872	<0.929	<1.05
Di-n-butylphthalate	mg/kg	<1.06	<1.03	<0.935	<0.889	<0.926	<0.888	<0.950	<1.01	<1.04	<1.04	<0.941	<0.942	<0.862	<0.946	<0.985	<1.02	<0.960	<1.08	<1.10	<0.942	<0.908	<0.872	<0.929	<1.05
Di-n-octylphthalate	mg/kg	<1.06	<1.03	<0.935	<0.889	<0.926	<0.888	<0.950	<1.01	<1.04	<1.04	<0.941	<0.942	<0.862	<0.946	<0.985	<1.02	<0.960	<1.08	<1.10	<0.942	<0.908	<0.872	<0.929	<1.05
Fluoranthene	mg/kg	<1.06	<1.03	<0.935	<0.889	2.8	66.9	9.92	7.15	<1.04	<1.04	<0.941	<0.942	<0.862	6.7	1.75	<1.02	<0.960	<1.08	<1.10	<0.942	<0.908	<0.872	4.7	<1.05
Fluorene	mg/kg	<1.06	<1.03	<0.935	<0.889	<0.926	5.55	<0.950	<1.01	<1.04	<1.04	<0.941	<0.942	<0.862	<0.946	<0.985	<1.02	<0.960	<1.08	<1.10	<0.942	<0.908	<0.872	<0.929	<1.05
Hexachlorobenzene	mg/kg	<0.532	<0.517	<0.469	<0.446	<0.465	<0.445	<0.476	<0.505	<0.523	<0.523	<0.472	<0.472	<0.432	<0.475	<0.494	<0.513	<0.481	<0.542	<0.551	<0.472	<0.455	<0.437	<0.466	<0.527
Hexachlorobutadiene	mg/kg	<1.06	<1.03	<0.935	<0.889	<0.926	<0.888	<0.950	<1.01	<1.04	<1.04	<0.941	<0.942	<0.862	<0.946	<0.985	<1.02	<0.960	<1.08	<1.10	<0.942	<0.908	<0.872	<0.929	<1.05
Hexachloroethane	mg/kg	<1.06	<1.03	<0.935	<0.889	<0.926	<0.888	<0.950	<1.01	<1.04	<1.04	<0.941	<0.942	<0.862	<0.946	<0.985	<1.02	<0.960	<1.08	<1.10	<0.942	<0.908	<0.872	<0.929	<1.05
Indeno(1,2,3-cd)Pyrene	mg/kg	<1.06	<1.03	<0.935	<0.889	<0.926	4.13	1.73	1.25	<1.04	<1.04	<0.941	<0.942	<0.862	<0.946	<0.985	<1.02	<0.960	<1.08	<1.10	<0.942	<0.908	<0.872	<0.929	<1.05
Isophorone	mg/kg	<1.06	<1.03	<0.935	<0.889	<0.926	<0.888	<0.950	<1.01	<1.04	<1.04	<0.941	<0.942	<0.862	<0.946	<0.985	<1.02	<0.960	<1.08	<1.10	<0.942	<0.908	<0.872	<0.929	<1.05
Naphthalene	mg/kg	<1.06	<1.03	<0.935	<0.889	<0.926	3.5	<0.950	<1.01	<1.04	<1.04	<0.941	<0.942	<0.862	1.17	1.12	<1.02	<0.960	<1.08	<1.10	<0.942	<0.908	<0.872	<0.929	<1.05
Nitrobenzene	mg/kg	<1.06	<1.03	<0.935	<0.889	<0.926	<0.888	<0.950	<1.01	<1.04	<1.04	<0.941	<0.942	<0.862	<0.946	<0.985	<1.02	<0.960	<1.08	<1.10	<0.942	<0.908	<0.872	<0.929	<1.05
N-Nitrosodimethylamine	mg/kg	<1.06	<1.03	<0.935	<0.889	<0.926	<0.888	<0.950	<1.01	<1.04	<1.04	<0.941	<0.942	<0.862	<0.946	<0.985	<1.02	<0.960	<1.08	<1.10	<0.942	<0.908	<0.872	<0.929	<1.05
Pentachlorophenol	mg/kg	<5.32	<5.17	<4.69	<4.46	<4.65	<4.45	<4.76	<5.05	<5.23	<5.23	<4.72	<4.72	<4.32	<4.75	<4.94	<5.13	<4.81	<5.42	<5.51	<4.72	<4.55	<4.37	<4.66	<5.27
Phenanthrene	mg/kg	<1.06	<1.03	<0.935	<0.889	0.941	54.5	3.6	2.31	<1.04	<1.04	<0.941	<0.942	<0.862	3.88	1.69	<1.02	<0.960	<1.08	<1.10	<0.942	<0.908	<0.872	2.15	<1.05
Phenol	mg/kg	<1.06	<1.03	<0.935	<0.889	<0.926	<0.888	<0.950	<1.01	<1.04	<1.04	<0.941	<0.942	<0.862	<0.946	<0.985	<1.02	<0.960	<1.08	<1.10	<0.942	<0.908	<0.872	<0.929	<1.05
Pyrene	mg/kg	<1.06	<1.03	<0.935	<0.889	2.24	44.6	7.75	5.75	<1.04	<1.04	<0.941	<0.942	<0.862	3.91	1.4	<1.02	<0.960	<1.08	<1.10	<0.942	<0.908	0.888	5.61	<1.05
Total SVOCs	mg/kg	ND	ND	ND	ND	13.971	326.26	46.07	34.27	ND	ND	ND	ND	2.684	37.008	8.506	ND	ND	ND	ND	ND	ND	5.872	25.91	ND
Classic Chemistry																									
Corrosivity (pH)	S.U.	7.82	7.65	7.75	7.28	8.1	7.37	8.69	7.56	7.54	7.31	6.98	6.75	9.85	6.04	5.14	5.15	5.86	6.3	6.69	6.9	6.04	8.12	6.78	6.72
Conductivity	umhos/cm	686	804	1660	820	143	1870	756	3290	255	604	925	1100	1860	2260	997	293	1180	990	1540	3010	1230	979	1260	1030
Flashpoint	°F	--	--	--	--	>200	>200	>200	>200	--	--	--	--	>200	>200	>200	--	--	--	--	--	--	>200	>200	--
Reactive Cyanide	mg/kg	--	--	--	--	<2.0	<2.0	<2.0	<2.0	--	--	--	--	<2.0	<2.0	<2.0	--	--	--	--	--	--	<2.0	<2.0	--
Reactive Sulfide	mg/kg	--	--	--	--	<2.0	<2.0	<2.0	<2.0	--	--	--	--	<2.0	<2.0	<2.0	--	--	--	--	--	--	<2.0	<2.0	--

Table 1
Soil Precharacterization Data

Wynn Resort Casino
Everett, Massachusetts

Analyte	Precharacterization Cell	F09	F09	F09	F09	F09	F10	F10	F10	F10	F10	F10	F10	F10	F10	F11	F11	F11	F11	F11	F11	F11	F11	F11
	Sample ID	F09S07	F09S08	F09S09	F09S10	F09S11S12	F10S01S02A	F10S02BS04A	F10S04BS05	F10S06S07A	F10S07BS08	F10S09	F10S10	F10S11	F10S12	F10S13S14	F11S01S02A	F11S02BS04A	F11S04B	F11S06S07A	F11S07B	F11S08S09	F11S10	F11S11	F11S12
	Laboratory Work Order	1501308	1501308	1501308	1501308	1501308	1502290	1502290	1502290	1502290	1502308	1502308	1502308	1502308	1502308	1502308	1501330	1501330	1501330	1503164	1503211	1503211	1503211	1503211	1503211
	Soil Distinction	Natural	Natural	Natural	Natural	Natural	Fill	Fill	Fill	Fill	Fill	Natural	Natural	Natural	Natural	Natural	Fill	Fill	Fill	Fill	Fill	Natural	Natural	Natural	Natural
	Soil Type	Clay	Clay	Clay	Sand/Gravel	Sand/Gravel						Clay	Clay	Sand/Gravel	Sand/Gravel	Sand/Gravel						Clay	Sand/Gravel	Sand/Gravel	Sand/Gravel
	Depth Interval (ft.)	16 - 18	19 - 21	26 - 28	29 - 31	34 - 38	0 - 3.3	3.3 - 6.6	6.6 - 9.5	10 - 13.3	13.3 - 16	16 - 18	19 - 21	24 - 26	29 - 31	34 - 38	0 - 3.3	3.3 - 6.6	6.6 - 8	10 - 13.3	13.3 - 14	16 - 18	19 - 21	24 - 26	29 - 31
	Sampling Date	1/15/2015	1/15/2015	1/15/2015	1/15/2015	1/15/2015	2/19/2015	2/19/2015	2/19/2015	2/19/2015	2/20/2015	2/20/2015	2/20/2015	2/20/2015	2/20/2015	2/20/2015	1/16/2015	1/16/2015	1/16/2015	3/10/2015	3/11/2015	3/11/2015	3/11/2015	3/11/2015	3/11/2015
Preliminary Disposal Facility Category		MCP Restricted	MCP Restricted	MCP Restricted	MCP Regulated Type A	Uncontaminated	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	Hazardous Material Type B	MCP Regulated Type A	MCP Regulated Type A	Uncontaminated	Uncontaminated	Uncontaminated	Uncontaminated	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A
RCRA 8 Metals	**Units**																								
Arsenic	mg/kg	11.8	9.55	11.1	<6.94	<7.62	<6.84	11	<7.68	<7.57	<7.04	<8.33	9.95	<8.01	<7.18	<7.78	8.39	11.4	18.7	56.2	<7.53	9.61	<6.35	<6.36	<6.38
Barium	mg/kg	99.6	82.1	93.9	14.2	11.3	20.7	76	27.3	30.3	48.2	69.7	35.1	11.3	9.56	20.5	16.3	38.5	37.3	299	54.1	101	16.9	22.5	8.91
Cadmium	mg/kg	<1.69	<1.48	<1.52	<1.39	<1.52	<1.37	1.83	2.77	34.7	<1.41	<1.67	<1.62	<1.60	<1.44	<1.56	<1.34	<1.34	<1.48	6.69	<1.51	<1.42	<1.27	<1.27	<1.28
Chromium	mg/kg	51	44.9	46	12.4	10	22.3	24.9	7.73	15.2	20.3	42.3	21.1	10.3	8.49	17.4	23.5	50.3	19	15.6	3.7	46.2	14	15.4	11
Lead	mg/kg	<16.9	<14.8	<15.2	<13.9	<15.2	18.1	361	391	1980	50.5	24.4	<16.2	<16.0	<14.4	<15.6	<13.4	99.1	131	2520	76.2	15.7	<12.7	<12.7	<12.8
Selenium	mg/kg	<8.46	<7.39	<7.59	<13.9	<15.2	<6.84	<7.36	<7.68	<7.57	<7.04	<8.33	<8.08	<8.01	<7.18	<7.78	<6.71	<6.68	<7.38	8.07	<7.53	<7.12	<6.35	<6.36	<6.38
Silver	mg/kg	<1.69	<1.48	<1.52	<1.39	<1.52	<1.37	<1.47	<1.54	<1.51	<1.41	<1.67	<1.62	<1.60	<1.44	<1.56	<1.34	<1.34	<1.48	4.22	<1.51	<1.42	<1.27	<1.27	<1.28
Mercury	mg/kg	<0.039	<0.039	<0.033	<0.030	<0.040	<0.031	42.7	4.38	0.06	0.035	<0.038	<0.032	<0.039	<0.029	<0.037	<0.036	0.167	0.536	0.155	0.031	<0.035	<0.025	<0.034	<0.027
Metals by Toxicity Characteristic Leaching Procedure (TCLP)																									
Arsenic	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--	--	--	--	0.433	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead	mg/L	--	--	--	--	--	--	0.077	1.31	11.3	--	--	--	--	--	--	--	--	<0.050	1.22	--	--	--	--	--
Selenium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--	--	0.00065	0.0018	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Herbicides																									
2,4,5-T	mg/kg	--	--	--	--	--	<0.053	<0.27	<0.056	<0.058	<0.065	--	--	--	--	--	<0.051	<0.28	--	<0.60	<0.093	--	--	--	--
2,4-D	mg/kg	--	--	--	--	--	<0.053	<0.27	<0.056	<0.058	<0.065	--	--	--	--	--	<0.051	<0.28	--	<0.60	<0.093	--	--	--	--
2,4-DB	mg/kg	--	--	--	--	--	<0.053	<0.27	<0.056	<0.058	<0.065	--	--	--	--	--	<0.051	<0.28	--	<0.60	<0.093	--	--	--	--
Dalapon	mg/kg	--	--	--	--	--	<0.64	<3.3	<0.67	<0.70	<0.78	--	--	--	--	--	<0.62	<3.3	--	<7.2	<1.1	--	--	--	--
Dicamba	mg/kg	--	--	--	--	--	<0.053	<0.27	<0.056	<0.058	<0.065	--	--	--	--	--	<0.051	<0.28	--	<0.60	<0.093	--	--	--	--
Dichlorprop	mg/kg	--	--	--	--	--	<0.053	<0.27	<0.056	<0.058	<0.065	--	--	--	--	--	<0.051	<0.28	--	<0.60	<0.093	--	--	--	--
Dinoseb	mg/kg	--	--	--	--	--	<0.32	<1.7	<0.33	<0.35	<0.39	--	--	--	--	--	<0.31	<1.7	--	<3.6	<0.56	--	--	--	--
MCPA	mg/kg	--	--	--	--	--	<13	<66	<13	<14	<16	--	--	--	--	--	<12	<67	--	<140	<22	--	--	--	--
MCPP	mg/kg	--	--	--	--	--	<13	<66	<13	<14	<16	--	--	--	--	--	<12	<67	--	<140	<22	--	--	--	--
Silvex (2,4,5-TP)	mg/kg	--	--	--	--	--	<0.053	<0.27	<0.056	<0.058	<0.065	--	--	--	--	--	<0.051	<0.28	--	<0.60	<0.093	--	--	--	--
Pesticides																									
4,4'-DDD	mg/kg	--	--	--	--	--	<0.0019	<0.0039	<0.0019	<0.0020	<0.0023	--	--	--	--	--	<0.0017	<0.038	--	<0.021	<0.016	--	--	--	--
4,4'-DDE	mg/kg	--	--	--	--	--	<0.0019	<0.0039	<0.0019	<0.0020	<0.0023	--	--	--	--	--	<0.0017	<0.038	--	<0.021	<0.016	--	--	--	--
4,4'-DDT	mg/kg	--	--	--	--	--	<0.0019	<0.0039	<0.0019	<0.0020	<0.0023	--	--	--	--	--	<0.0017	<0.038	--	<0.021	<0.016	--	--	--	--
Aldrin	mg/kg	--	--	--	--	--	<0.0019	<0.0039	<0.0019	<0.0020	<0.0023	--	--	--	--	--	<0.0017	<0.038	--	<0.021	<0.016	--	--	--	--
alpha-BHC	mg/kg	--	--	--	--	--	<0.0019	<0.0039	<0.0019	<0.0020	<0.0023	--	--	--	--	--	<0.0017	<0.038	--	<0.021	<0.016	--	--	--	--
beta-BHC	mg/kg	--	--	--	--	--	<0.0019	<0.0039	<0.0019	<0.0020	<0.0023	--	--	--	--	--	<0.0017	<0.038	--	<0.021	<0.016	--	--	--	--
Chlordane (technical)	mg/kg	--	--	--	--	--	<0.019	<0.039	<0.019	<0.020	<0.023	--	--	--	--	--	<0.017	<0.38	--	<0.21	<0.16	--	--	--	--
delta-BHC	mg/kg	--	--	--	--	--	<0.0019	<0.0039	<0.0019	<0.0020	<0.0023	--	--	--	--	--	<0.0017	<0.038	--	<0.021	<0.016	--	--	--	--
Dieldrin	mg/kg	--	--	--	--	--	<0.0019	<0.0039	<0.0019	<0.0020	<0.0023	--	--	--	--	--	<0.0017	<0.038	--	<0.021	<0.016	--	--	--	--
Endosulfan I	mg/kg	--	--	--	--	--	<0.0019	<0.0039	<0.0019	<0.0020	<0.0023	--	--	--	--	--	<0.0017	<0.038	--	<0.021	<0.016	--	--	--	--
Endosulfan II	mg/kg	--	--	--	--	--	<0.0019	<0.0039	<0.0019	<0.0020	<0.0023	--	--	--	--	--	<0.0017	<0.038	--	<0.021	<0.016	--	--	--	--
Endosulfan sulfate	mg/kg	--	--	--	--	--	<0.0019	<0.0039	<0.0019	<0.0020	<0.0023	--	--	--	--	--	<0.0017	<0.038	--	<0.021	<0.016	--	--	--	--
Endrin	mg/kg	--	--	--	--	--	<0.0019	<0.0039	<0.0019	<0.0020	<0.0023	--	--	--	--	--	<0.0017	<0.038	--	<0.021	<0.016	--	--	--	--
Endrin ketone	mg/kg	--	--	--	--	--	<0.0019	<0.0039	<0.0019	<0.0020	<0.0023	--	--	--	--	--	<0.0017	<0.038	--	<0.021	<0.016	--	--	--	--
gamma-BHC (Lindane)	mg/kg	--	--	--	--	--	<0.0019	<0.0039	<0.0019	<0.0020	<0.0023	--	--	--	--	--	<0.0017	<0.038	--	<0.021	<0.016	--	--	--	--
Heptachlor	mg/kg	--	--	--	--	--	<0.0019	<0.0039	<0.0019	<0.0020	<0.0023	--	--	--	--	--	<0.0017	<0.038	--	<0.021	<0.016	--	--	--	--
Heptachlor epoxide	mg/kg	--	--	--	--	--	<0.0019	<0.0039	<0.0019	<0.0020	<0.0023	--	--	--	--	--	<0.0017	<0.038	--	<0.021	<0.016	--	--	--	--
Hexachlorobenzene	mg/kg	--	--	--	--	--	<0.0019	<0.0039	<0.0019	<0.0020	<0.0023	--	--	--	--	--	<0.0017	<0.038	--	<0.021	<0.016	--	--	--	--
Methoxychlor	mg/kg	--	--	--	--	--	<0.0019	<0.0039	<0.0019	<0.0020	<0.0023	--	--	--	--	--	<0.0017	<0.038	--	<0.021	<0.016	--	--	--	--
Polychlorinated Biphenyls																									
Aroclor 1016	mg/kg	<0.153	<0.162	<0.150	<0.145	<0.146	<0.133	<0.139	<0.145	<0.147	<0.152	<0.158	<0.162	<0.151	<0.151	<0.141	<0.131	<0.133	<0.136	<0.148	<0.136	<0.162	<0.145	<0.138	<0.133
Aroclor 1221	mg/kg	<0.153	<0.162	<0.150	<0.145	<0.146	<0.133	<0.139	<0.145	<0.147	<0.152	<0.158	<0.162	<0.151	<0.151	<0.141	<0.131	<0.133	<0.136	<0.148	<0.136	<0.162	<0.145	<0.138	<0.133
Aroclor 1232	mg/kg	<0.153	<0.162	<0.150	<0.145	<0.146	<0.133	<0.139	<0.145	<0.147	<0.152	<0.158	<0.162	<0.151	<0.151	<0.141	<0.131	<0.133	<0.136	<0.148	<0.136	<0.162	<0.145	<0.138	<0.133
Aroclor 1242	mg/kg	<0.153	<0.162	<0.150	<0.145	<0.146	<0.133	<0.139	<0.145	<0.147	<0.152	<0.158	<0.162	<0.151	<0.151	<0.141	<0.131	<0.133	<0.136	<0.148	<0.136	<0.162	<0.145	<0.138	<0.133
Aroclor 1248	mg/kg	<0.153	<0.162	<0.150	<0.145	<0.146	<0.133	<0.139	<0.145	<0.147	<0.152	<0.158	<0.162	<0.151	<0.151	<0.141	<0.131	<0.133	<0.136	<0.148	<0.136	<0.162	<0.145	<0.138	<0.133
Aroclor 1254	mg/kg	<0.153	<0.162	<0.150	<0.145	<0.146	<0.133	4.64	<0.145	<0.147	<0.152	<0.158	<0.162	<0.151	<0.151	<0.141	<0.131	<0.133	<0.136	<0.148	<0.136	<0.162	<0.145	<0.138	<0.133
Aroclor 1260	mg/kg	<0.153	<0.162	<0.150	<0.145	<0.146	<0.133	1.7	<0.145	<0.147	<0.152	<0.158	<0.162	<0.151	<0.151	<0.141	<0.131	0.358	<0.136	<0.148	<0.136	<0.162	<0.145	<0.138	<0.133
Aroclor 1262	mg/kg	<0.153	<0.162	<0.150	<0.145	<0.146	<0.133	<0.139	<0.145	<0.147	<0.152	<0.158	<0.162	<0.151	<0.151	<0.141	<0.131	<0.133	<0.136	<0.148	<0.136	<0.162	<0.145	<0.138	<0.133
Aroclor 1268	mg/kg	<0.153	<0.162	<0.150	<0.145	<0.146	<0.133	<0.139	0.217	<0.147	<0.152	<0.158	<0.162	<0.151	<0.151	<0.141	<0.131	<0.133	<0.136	<0.148	<0.136	<0.162	<0.145	<0.138	<0.133
Total PCBs	mg/kg	ND	ND	ND	ND	ND	ND	6.34	0.217	ND	ND	ND	ND	ND	ND	ND	ND	0.358	ND	ND	ND	ND	ND	ND	ND
Total Petroleum Hydrocarbons	mg/kg	<48.3	<51.0	<48.6	<42.4	<47.7	<41.0	915	254	136	47.4	<51.2	<52.0	<42.7	<47.3	<41.7	<43.2	295	492	23600	11400	73.4	<46.4	<40.3	<41.5
Volatile Organic Compounds (VOCs)																									
1,1,1,2-Tetrachloroethane	mg/kg	--	--	--	<0.105	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	mg/kg	--	--	--	<0.0527	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg	--	--	--	<0.0527	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	mg/kg	--	--	--	<0.0527	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	mg/kg	--	--	--	<0.0527	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	mg/kg	--	--	--	<0.0527	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloropropene	mg/kg	--	--	--	<0.0527	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	mg/kg	--	--	--	<0.0527	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	mg/kg	--	--	--	<0.0527	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	mg/kg	--	--	--	<0.0527	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	mg/kg	--	--	--	<0.0527	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-Chloropropane	mg/kg	--	--	--	<0.211	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	mg/kg	--	--	--	<0.0527	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	mg/kg	--	--	--	<0.0527	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	mg/kg	--	--	--	<0.0527	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	mg/kg	--	--	--	<0.0527	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	mg/kg	--	--	--	<0.0527	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	mg/kg	--	--	--	<0.0527	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichloropropane	mg/kg	--	--	--	<0.0527	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg	--	--	--	<0.0527	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane - Screen	mg/kg	--	--	--	<5.27	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,2-Dichloropropane	mg/kg	--	--	--	<0.105	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Butanone	mg/kg	--	--	--	<0.211	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chlorotoluene	mg/kg	--	--	--	<0.0527	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	mg/kg	--	--	--	<0.211	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Chlorotoluene	mg/kg	--	--	--	<0.0527	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Isopropyltoluene	mg/kg	--	--	--	<0.0527	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-Pentanone	mg/kg	--	--	--	<0.211	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	mg/kg	--	--	--	0.313	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzene	mg/kg	--	--	--	<0.0527	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromobenzene	mg/kg	--	--	--	<0.0527	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	mg/kg	--	--	--	<0.0527	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	mg/kg	--	--	--	<0.0527	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	mg/kg	--	--	--	<0.0527	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	mg/kg	--	--	--	<0.105	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Disulfide	mg/kg	--	--	--	<0.0527	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	mg/kg	--	--	--	<0.0527	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	F09 F09S07 1501308 Natural Clay 16 - 18 1/15/2015	F09 F09S08 1501308 Natural Clay 19 - 21 1/15/2015	F09 F09S09 1501308 Natural Clay 26 - 28 1/15/2015	F09 F09S10 1501308 Natural Sand/Gravel 29 - 31 1/15/2015	F09 F09S11S12 1501308 Natural Sand/Gravel 34 - 38 1/15/2015	F10 F10S01S02A 1502290 Fill 0 - 3.3 2/19/2015	F10 F10S02BS04A 1502290 Fill 3.3 - 6.6 2/19/2015	F10 F10S04BS05 1502290 Fill 6.6 - 9.5 2/19/2015	F10 F10S06S07A 1502290 Fill 10 - 13.3 2/19/2015	F10 F10S07BS08 1502308 Fill 13.3 - 16 2/20/2015	F10 F10S09 1502308 Natural Clay 16 - 18 2/20/2015	F10 F10S10 1502308 Natural Clay 19 - 21 2/20/2015	F10 F10S11 1502308 Natural Sand/Gravel 24 - 26 2/20/2015	F10 F10S12 1502308 Natural Sand/Gravel 29 - 31 2/20/2015	F10 F10S13S14 1502308 Natural Sand/Gravel 34 - 38 2/20/2015	F11 F11S01S02A 1501330 Fill 0 - 3.3 1/16/2015	F11 F11S02BS04A 1501330 Fill 3.3 - 6.6 1/16/2015	F11 F11S04B 1501330 Fill 6.6 - 8 1/16/2015	F11 F11S06S07A 1503164 Fill 10 - 13.3 3/10/2015	F11 F11S07B 1503211 Fill 13.3 - 14 3/11/2015	F11 F11S08S09 1503211 Natural Clay 16 - 18 3/11/2015	F11 F11S10 1503211 Natural Sand/Gravel 19 - 21 3/11/2015	F11 F11S11 1503211 Natural Sand/Gravel 24 - 26 3/11/2015	F11 F11S12 1503211 Natural Sand/Gravel 29 - 31 3/11/2015
Preliminary Disposal Facility Category		MCP Restricted	MCP Restricted	MCP Restricted	MCP Regulated Type A	Uncontaminated	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	Hazardous Material Type B	MCP Regulated Type A	MCP Regulated Type A	Uncontaminated	Uncontaminated	Uncontaminated	Uncontaminated	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A
Chlorobenzene	mg/kg	--	--	--	<0.0527	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	mg/kg	--	--	--	<0.105	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	mg/kg	--	--	--	<0.0527	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	mg/kg	--	--	--	<0.105	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	mg/kg	--	--	--	<0.0527	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	mg/kg	--	--	--	<0.0527	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	mg/kg	--	--	--	<0.0527	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromomethane	mg/kg	--	--	--	<0.0527	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	mg/kg	--	--	--	<0.0527	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Diethyl Ether	mg/kg	--	--	--	<0.0527	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Di-isopropyl ether	mg/kg	--	--	--	<0.0527	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethyl tertiary-butyl ether	mg/kg	--	--	--	<0.0527	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	mg/kg	--	--	--	<0.0527	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	mg/kg	--	--	--	<0.0527	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene	mg/kg	--	--	--	<0.0527	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	mg/kg	--	--	--	<0.0527	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride	mg/kg	--	--	--	<0.211	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	mg/kg	--	--	--	<0.0527	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	mg/kg	--	--	--	<0.0527	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	mg/kg	--	--	--	<0.0527	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	mg/kg	--	--	--	<0.0527	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	mg/kg	--	--	--	<0.0527	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
tert-Butylbenzene	mg/kg	--	--	--	<0.0527	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tertiary-amyl methyl ether	mg/kg	--	--	--	<0.0527	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	mg/kg	--	--	--	<0.0527	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	mg/kg	--	--	--	<0.211	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	mg/kg	--	--	--	<0.0527	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	mg/kg	--	--	--	<0.0527	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	mg/kg	--	--	--	<0.0527	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene	mg/kg	--	--	--	<0.0527	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane	mg/kg	--	--	--	<0.0527	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	mg/kg	--	--	--	<0.0527	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene O	mg/kg	--	--	--	<0.0527	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene P,M	mg/kg	--	--	--	<0.105	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylenes (Total)	mg/kg	--	--	--	<0.105	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total VOCs	mg/kg	--	--	--	0.313	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds - Low Level Analysis																									
1,1,1,2-Tetrachloroethane	mg/kg	<0.0033	<0.0035	<0.0043	<0.0030	<0.0039	<0.0053	<0.0060	<0.0059	<0.0051	<0.0046	<0.0060	<0.0044	<0.0051	<0.0042	<0.0054	<0.0060	<0.0077	<0.0038	<0.0067	<0.0067	<0.0057	<0.0049	<0.0041	<0.0044
1,1,1-Trichloroethane	mg/kg	<0.0033	<0.0035	<0.0043	<0.0030	<0.0039	<0.0053	<0.0060	<0.0059	<0.0051	<0.0046	<0.0060	<0.0044	<0.0051	<0.0042	<0.0054	<0.0060	<0.0077	<0.0038	<0.0067	<0.0067	<0.0057	<0.0049	<0.0041	<0.0044
1,1,2,2-Tetrachloroethane	mg/kg	<0.0013	<0.0014	<0.0017	<0.0012	<0.0016	<0.0021	<0.0024	<0.0024	<0.0020	<0.0018	<0.0024	<0.0018	<0.0020	<0.0017	<0.0021	<0.0024	<0.0031	<0.0015	<0.0027	<0.0027	<0.0023	<0.0020	<0.0016	<0.0018
1,1,2-Trichloroethane	mg/kg	<0.0033	<0.0035	<0.0043	<0.0030	<0.0039	<0.0053	<0.0060	<0.0059	<0.0051	<0.0046	<0.0060	<0.0044	<0.0051	<0.0042	<0.0054	<0.0060	<0.0077	<0.0038	<0.0067	<0.0067	<0.0057	<0.0049	<0.0041	<0.0044
1,1-Dichloroethane	mg/kg	<0.0033	<0.0035	<0.0043	<0.0030	<0.0039	<0.0053	<0.0060	<0.0059	<0.0051	<0.0046	<0.0060	<0.0044	<0.0051	<0.0042	<0.0054	<0.0060	<0.0077	<0.0038	0.0096	<0.0067	<0.0057	<0.0049	<0.0041	<0.0044
1,1-Dichloroethene	mg/kg	<0.0033	<0.0035	<0.0043	<0.0030	<0.0039	<0.0053	<0.0060	<0.0059	<0.0051	<0.0046	<0.0060	<0.0044	<0.0051	<0.0042	<0.0054	<0.0060	<0.0077	<0.0038	<0.0067	<0.0067	<0.0057	<0.0049	<0.0041	<0.0044
1,1-Dichloropropene	mg/kg	<0.0033	<0.0035	<0.0043	<0.0030	<0.0039	<0.0053	<0.0060	<0.0059	<0.0051	<0.0046	<0.0060	<0.0044	<0.0051	<0.0042	<0.0054	<0.0060	<0.0077	<0.0038	<0.0067	<0.0067	<0.0057	<0.0049	<0.0041	<0.0044
1,2,3-Trichlorobenzene	mg/kg	<0.0033	<0.0035	<0.0043	<0.0030	<0.0039	<0.0053	<0.0060	<0.0059	<0.0051	<0.0046	<0.0060	<0.0044	<0.0051	<0.0042	<0.0054	<0.0060	<0.0077	<0.0038	<0.0067	<0.0067	<0.0057	<0.0049	<0.0041	<0.0044
1,2,3-Trichloropropane	mg/kg	<0.0033	<0.0035	<0.0043	<0.0030	<0.0039	<0.0053	<0.0060	<0.0059	<0.0051	<0.0046	<0.0060	<0.0044	<0.0051	<0.0042	<0.0054	<0.0060	<0.0077	<0.0038	<0.0067	<0.0067	<0.0057	<0.0049	<0.0041	<0.0044
1,2,4-Trichlorobenzene	mg/kg	<0.0033	<0.0035	<0.0043	<0.0030	<0.0039	<0.0053	<0.0060	<0.0059	<0.0051	<0.0046	<0.0060	<0.0044	<0.0051	<0.0042	<0.0054	<0.0060	<0.0077	<0.0038	<0.0067	<0.0067	<0.0057	<0.0049	<0.0041	0.0051
1,2,4-Trimethylbenzene	mg/kg	<0.0033	<0.0035	<0.0043	<0.0030	<0.0039	<0.0053	<0.0060	<0.0059	<0.0051	<0.0046	<0.0060	<0.0044	<0.0051	<0.0042	<0.0054	<0.0060	<0.0077	<0.0038	<0.0067	0.0787	<0.0057	<0.0049	0.0173	<0.0044
1,2-Dibromo-3-Chloropropane	mg/kg	<0.0033	<0.0035	<0.0043	<0.0030	<0.0039	<0.0053	<0.0060	<0.0059	<0.0051	<0.0046	<0.0060	<0.0044	<0.0051	<0.0042	<0.0054	<0.0060	<0.0077	<0.0038	<0.0067	<0.0067	<0.0057	<0.0049	<0.0041	<0.0044
1,2-Dibromoethane	mg/kg	<0.0033	<0.0035	<0.0043	<0.0030	<0.0039	<0.0053	<0.0060	<0.0059	<0.0051	<0.0046	<0.0060	<0.0044	<0.0051	<0.0042	<0.0054	<0.0060	<0.0077	<0.0038	<0.0067	<0.0067	<0.0057	<0.0049	<0.0041	<0.0044
1,2-Dichlorobenzene	mg/kg	<0.0033	<0.0035	<0.0043	<0.0030	<0.0039	<0.0053	<0.0060	<0.0059	<0.0051	<0.0046	<0.0060	<0.0044	<0.0051	<0.0042	<0.0054	<0.0060	<0.0077	<0.0038	<0.0067	<0.0067	<0.0057	<0.0049	<0.0041	<0.0044
1,2-Dichloroethane	mg/kg	<0.0033	<0.0035	<0.0043	<0.0030	<0.0039	<0.0053	<0.0060	<0.0059	<0.0051	<0.0046	<0.0060	<0.0044	<0.0051	<0.0042	<0.0054	<0.0060	<0.0077	<0.0038	<0.0067	<0.0067	<0.0057	<0.0049	<0.0041	<0.0044
1,2-Dichloropropane	mg/kg	<0.0033	<0.0035	<0.0043	<0.0030	<0.0039	<0.0053	<0.0060	<0.0059	<0.0051	<0.0046	<0.0060	<0.0044	<0.0051	<0.0042	<0.0054	<0.0060	<0.0077	<0.0038	<0.0067	<0.0067	<0.0057	<0.0049	<0.0041	<0.0044
1,3,5-Trimethylbenzene	mg/kg	<0.0033	<0.0035	<0.0043	<0.0030	<0.0039	<0.0053	<0.0060	<0.0059	<0.0051	<0.0046	<0.0060	<0.0044	<0.0051	<0.0042	<0.0054	<0.0060	<0.0077	<0.0038	<0.0067	0.0294	<0.0057	<0.0049	0.0061	<0.0044
1,3-Dichlorobenzene	mg/kg	<0.0033	<0.0035	<0.0043	<0.0030	<0.0039	<0.0053	<0.0060	<0.0059	<0.0051	<0.0046	<0.0060	<0.0044	<0.0051	<0.0042	<0.0054	<0.0060	<0.0077	<0.0038	<0.0067	<0.0067	<0.0057	<0.0049	<0.0041	<0.0044
1,3-Dichloropropane	mg/kg	<0.0033	<0.0035	<0.0043	<0.0030	<0.0039	<0.0053	<0.0060	<0.0059	<0.0051	<0.0046	<0.0060	<0.0044	<0.0051	<0.0042	<0.0054	<0.0060	<0.0077	<0.0038	<0.0067	<0.0067	<0.0057	<0.0049	<0.0041	<0.0044
1,4-Dichlorobenzene	mg/kg	<0.0033	<0.0035	<0.0043	<0.0030	<0.0039	<0.0053	<0.0060	<0.0059	<0.0051	<0.0046	<0.0060	<0.0044	<0.0051	<0.0042	<0.0054	<0.0060	<0.0077	<0.0038	<0.0067	<0.0067	<0.0057	<0.0049	<0.0041	<0.0044
1,4-Dioxane	mg/kg	<0.0652	<0.0703	<0.0866	<0.0608	<0.0786	<0.106	<0.120	<0.119	<0.102	<0.0914	<0.120	<0.0878	<0.102	<0.0848	<0.107	<0.120	<0.155	<0.0759	<0.134	<0.134	<0.114	<0.0976	<0.0824	<0.0879
2,2-Dichloropropane	mg/kg	<0.0033	<0.0035	<0.0043	<0.0030	<0.0039	<0.0053	<0.0060	<0.0059	<0.0051	<0.0046	<0.0060	<0.0044	<0.0051	<0.0042	<0.0054	<0.0060	<0.0077	<0.0038	<0.0067	<0.0067	<0.0057	<0.0049	<0.0041	<0.0044
2-Butanone	mg/kg	<0.0065	<0.0070	<0.0087	<0.0061	<0.0079	<0.0106	<0.0120	<0.0119	<0.0102	<0.0091	<0.0120	<0.0088	<0.0102	<0.0085	<0.0107	<0.0120	<0.0155	<0.0076	0.0543	<0.0134	<0.0114	<0.0098	<0.0082	<0.0088
2-Chlorotoluene	mg/kg	<0.0033	<0.0035	<0.0043	<0.0030	<0.0039	<0.0053	<0.0060	<0.0059	<0.0051	<0.0046	<0.0060	<0.0044	<0.0051	<0.0042	<0.0054	<0.0060	<0.0077	<0.0038	<0.0067	<0.0067	<0.0057	<0.0049	<0.0041	<0.0044
2-Hexanone	mg/kg	<0.0065	<0.0070	<0.0087	<0.0061	<0.0079	<0.0106	<0.0120	<0.0119	<0.0102	<0.0091	<0.0120	<0.0088	<0.0102	<0.0085	<0.0107	<0.0120	<0.0155	<0.0076	<0.0134	<0.0134	<0.0114	<0.0098	<0.0082	<0.0088
4-Chlorotoluene	mg/kg	<0.0033	<0.0035	<0.0043	<0.0030	<0.0039	<0.0053	<0.0060	<0.0059	<0.0051	<0.0046	<0.0060	<0.0044	<0.0051	<0.0042	<0.0054	<0.0060	<0.0077	<0.0038	<0.0067	<0.0067	<0.0057	<0.0049	<0.0041	<0.0044
4-Isopropyltoluene	mg/kg	<0.0033	<0.0035	<0.0043	<0.0030	<0.0039	<0.0053	<0.0060	<0.0059	<0.0051	<0.0046	<0.0060	<0.0044	<0.0051	<0.0042	<0.0054	<0.0060	<0.0077	<0.0038	<0.0067	0.0164	<0.0057	<0.0049	<0.0041	<0.0044
4-Methyl-2-Pentanone	mg/kg	<0.0065	<0.0070	<0.0087	<0.0061	<0.0079	<0.0106	<0.0120	<0.0119	<0.0102	<0.0091	<0.0120	<0.0088	<0.0102	<0.0085	<0.0107	<0.0120	<0.0155	<0.0076	<0.0134	<0.0134	<0.0114	<0.0098	<0.0082	<0.0088
Acetone	mg/kg	<0.0065	<0.0070	<0.0087	<0.0061	<0.0079	0.0256	0.0273	<0.0119	0.0221	0.025	0.0171	<0.0088	<0.0102	<0.0085	<0.0107	<0.0120	<0.0155	<0.0076	0.371	0.0434	0.0423	0.0164	0.0127	0.0107
Benzene	mg/kg	<0.0033	<0.0035	<0.0043	<0.0030	<0.0039	<0.0053	<0.0060	<0.0059	<0.0051	<0.0046	<0.0060	<0.0044	<0.0051	<0.0042	<0.0054	<0.0060	<0.0077	<0.0038	<0.0067	<0.0067	<0.0057	<0.0049	<0.0041	<0.0044
Bromobenzene	mg/kg	<0.0033	<0.0035	<0.0043	<0.0030	<0.0039	<0.0053	<0.0060	<0.0059	<0.0051	<0.0046	<0.0060	<0.0044	<0.0051	<0.0042	<0.0054	<0.0060	<0.0077	<0.0038	<0.0067	<0.0067	<0.0057	<0.0049	<0.0041	<0.0044
Bromochloromethane	mg/kg	<0.0033	<0.0035	<0.0043	<0.0030	<0.0039	<0.0053	<0.0060	<0.0059	<0.0051	<0.0046	<0.0060	<0.0044	<0.0051	<0.0042	<0.0054	<0.0060	<0.0077	<0.0038	<0.0067	<0.0067	<0.0057	<0.0049	<0.0041	<0.0044
Bromodichloromethane	mg/kg	<0.0033	<0.0035	<0.0043	<0.0030	<0.0039	<0.0053	<0.0060	<0.0059	<0.0051	<0.0046	<0.0060	<0.0044	<0.0051	<0.0042	<0.0054	<0.0060	<0.0077	<0.0038	<0.0067	<0.0067	<0.0057	<0.0049	<0.0041	<0.0044
Bromoform	mg/kg	<0.0033	<0.0035	<0.0043	<0.0030	<0.0039	<0.0053	<0.0060	<0.0059	<0.0051	<0.0046	<0.0060	<0.0044	<0.0051	<0.0042	<0.0054	<0.0060	<0.0077	<0.0038	<0.0067	<0.0067	<0.0057	<0.0049	<0.0041	<0.0044
Bromomethane	mg/kg	<0.0065	<0.0070	<0.0087	<0.0061	<0.0079	<0.0106	<0.0120	<0.0119	<0.0102	<0.0091	<0.0120	<0.0088	<0.0102	<0.0085	<0.0107	<0.0120	<0.0155	<0.0076	<0.0134	<0.0134	<0.0114	<0.0098	<0.0082	<0.0088
Carbon Disulfide	mg/kg	<0.0033	<0.0035	<0.0043	<0.0030	<0.0039	<0.0053	<0.0060	<0.0059	<0.0051	<0.0046	<0.0060	<0.0044	<0.0051	<0.0042	<0.0054	<0.0060	<0.0077	<0.0038	<0.0067	<0.0067	<0.0057	<0.0049	<0.0041	<0.0044
Carbon Tetrachloride	mg/kg	<0.0033	<0.0035	<0.0043	<0.0030	<0.0039	<0.0053	<0.0060	<0.0059	<0.0051	<0.0046	<0.0060	<0.0044	<0.0051	<0.0042	<0.0054	<0.0060	<0.0077	<0.0038	<0.0067	<0.0067	<0.0057	<0.0049	<0.0041	<0.0044
Chlorobenzene	mg/kg	<0.0033	<0.0035	<0.0043	<0.0030	<0.0039	<0.0053	<0.0060	<0.0059	<0.0051	<0.0046	<0.0060	<0.0044	<0.0051	<0.0042	<0.0054	<0.0060	<0.0077	<0.0038	<0.0067	<0.0067	<0.0057	<0.0049	<0.0041	<0.0044
Chloroethane	mg/kg	<0.0065	<0.0070	<0.0087	<0.0061	<0.0079	<0.0106	<0.0120	<0.0119	<0.0102	<0.0091	<0.0120	<0.0088	<0.0102	<0.0085	<0.0107	<0.0120	<0.0155	<0.0076	<0.0134	<0.0134	<0.0114	<0.0098	<0.0082	<0.0088
Chloroform	mg/kg	<0.0033	<0.0035	<0.0043	<0.0030	<0.0039	<0.0053	<0.0060	<0.0059	<0.0051	<0.0046	<0.0060	<0.0044	<0.0051	<0.0042	<0.0054	<0.0060	<0.0077	<0.0038	<0.0067	<0.0067	<0.0057	<0.0049	<0.0041	<0.0044
Chloromethane	mg/kg	<0.0065	<0.0070	<0.0087	<0.0061	<0.0079	<0.0106	<0.0120	<0.0119	<0.0102	<0.0091	<0.0120	<0.0088	<0.0102	<0.0085	<0.0107	<0.0120	<0.0155	<0.0076	<0.0134	<0.0134	<0.0114	<0.0098	<0.0082	<0.0088
cis-1,2-Dichloroethene	mg/kg	<0.0033	<0.0035	<0.0043	<0.0030	<0.0039	<0.0053	<0.0060	<0.0059	<0.0051	<0.0046	<0.0060	<0.0044	<0.0051	<0.0042	<0.0054	<0.0060	<0.0077	<0.0038	<0.0067	<0.0067	<0.0057	<0.0049	<0.0041	<0.0044
cis-1,3-Dichloropropene	mg/kg	<0.0033	<0.0035	<0.0043	<0.0030	<0.0039	<0.0053	<0.0060	<0.0059	<0.0051	<0.0046	<0.0060	<0.0044	<0.0051	<0.0042	<0.0054	<0.0060	<0.0077	<0.0038	<0.0067	<0.0067	<0.0057	<0.0049	<0.0041	<0.0044
Dibromochloromethane	mg/kg	<0.0013	<0.0014	<0.0017	<0.0012	<0.0016	<0.0021	<0.0024	<0.0024	<0.0020	<0.0018	<0.0024	<0.0018	<0.0020	<0.0017	<0.0021	<0.0024	<0.0031	<0.0015	<0.0027	<0.0027	<0.0023	<0.0020	<0.0016	<0.0018
Dibromomethane	mg/kg	<0.0033	<0.0035	<0.0043	<0.0030	<0.0039	<0.0053	<0.0060	<0.0059	<0.0051	<0.0046	<0.0060	<0.0044	<0.0051	<0.0042	<0.0054	<0.0060	<0.0077	<0.0038	<0.0067	<0.0067	<0.0057	<0.0049	<0.0041	<0.0044
Dichlorodifluoromethane	mg/kg	<0.0065	<0.0070	<0.0087	<0.0061	<0.0079	<0.0106	<0.0120	<0.0119	<0.0102	<0.0091	<0.0120	<0.0088	<0.0102	<0.0085	<0.0107	<0.0120	<0.0155	<0.0076	<0.0134	<0.0134	<0.0114	<0.0098	<0.0082	<0.0088
Diethyl Ether	mg/kg	<0.0033	<0.0035	<0.0043	<0.0030	<0.0039	<0.0053	<0.0060	<0.0059	<0.0051	<0.0046	<0.0060	<0.0044	<0.0051	<0.0042	<0.0054	<0.0060	<0.0077	<0.0038	<0.0067	<0.0067	<0.0057	<0.0049	<0.0041	<0.0044
Di-isopropyl ether	mg/kg	<0.0033	<0.0035	<0.0043	<0.0030	<0.0039	<0.0053	<0.0060	<0.0059	<0.0051	<0.0046	<0.0060	<0.0044	<0.0051	<0.0042	<0.0054	<0.0060	<0.0077	<0.0038	<0.0067	<0.0067	<0.0057	<0.0049	<0.0041	<0.0044
Ethyl tertiary-butyl ether	mg/kg	<0.0033	<0.0035	<0.0043	<0.0030	<0.0039	<0.0053	<0.0060	<0.0059	<0.0051	<0.0046	<0.0060	<0.0044	<0.0051	<0.0042	<0.0054	<0.0060	<0.0077	<0.0038	<0.0067	<0.0067	<0.0057	<0.0049	<0.0041	<0.0044
Ethylbenzene	mg/kg	<0.0033	<0.0035	<0.0043	<0.0030	<0.0039	<0.0053	<0.0060	<0.0059	<0.0051	<0.0046	<0.0060	<0.0044	<0.0051	<0.0042	<0.0054	<0.0060	<0.0077	<0.0038	<0.0067	0.026	<0.0057	<0.0049	<0.0041	<0.0044
Hexachlorobutadiene	mg/kg	<0.0033	<0.0035	<0.0043	<0.0030	<0.0039	<0.0053	<0.0060	<0.0059	<0.0051	<0.0046	<0.0060	<0.0044	<0.0051	<0.0042	<0.0054	<0.0060	<0.0077	<0.0038	<0.0067	<0.0067	<0.0057	<0.0049	<0.0041	<0.0044
Isopropylbenzene	mg/kg	<0.0033	<0.0035	<0.0043	<0.0030	<0.0039	<0.0053	<0.0060	<0.0059	<0.0051	<0.0046	<0.0060	<0.0044	<0.0051	<0.0042	<0.0054	<0.0060	<0.0077	<0.0038	<0.0067	0.0185	<0.0057	<0.0049	<0.0041	<0.0044
Methyl tert-Butyl Ether	mg/kg	<0.0033	<0.0035	<0.0043	<0.0030	<0.0039	<0.0053	<0.0060	<0.0059	<0.0051	<0.0046	<0.0060	<0.0044	<0.0051	<0.0042	<0.0054	<0.0060	<0.0077	<0.0038	<0.0067	<0.0067	<0.0057	<0.0049	<0.0041	<0.0044
Methylene Chloride	mg/kg	<0.0065	<0.0070	<0.0087	<0.0061	<0.0079	<0.0106	<0.0120	<0.0119	<0.0102	<0.0091	<0.0120	<0.0088	<0.0102	<0.0085	<0.0107	<0.0120	<0.0155	<0.0076	<0.0134	<0.0134	<0.0114	<0.0098	<0.0082	<0.0088
Naphthalene	mg/kg	<0.0033	<0.0035	<0.0043	<0.0030	<0.0039	<0.0053	<0.0060	<0.0059	<0.0051	0.0064	<0.0060	<0.0044	<0.0051	<0.0042	<0.0054	<0.0060	<0.0077	<0.0038	<0.0067	0.149	0.0112	<0.0049	0.03	0.0101
n-Butylbenzene	mg/kg	<0.0033	<0.0035	<0.0043	<0.0030	<0.0039	<0.0053	<0.0060	<0.0059	<0.0051	<0.0046	<0.0060	<0.0044	<0.0051	<0.0042	<0.0054	<0.0060	<0.0077	<0.0038	<0.0067	0.0192	<0.0057	<0.0049	0.0043	<0.0044
n-Propylbenzene	mg/kg	<0.0033	<0.0035	<0.0043	<0.0030	<0.0039	<0.0053	<0.0060	<0.0059	<0.0051	<0.0046	<0.0060	<0.0044	<0.0051	<0.0042	<0.0054	<0.0060	<0.0077	<0.0038	<0.0067	0.021	<0.0057	<0.0049	<0.0041	<0.0044
sec-Butylbenzene	mg/kg	<0.0033	<0.0035	<0.0043	<0.0030	<0.0039	<0.0053	<0.0060	<0.0059	<0.0051	<0.0046	<0.0060	<0.0044	<0.0051	<0.0042	<0.0054	<0.0060	<0.0077	<0.0038	<0.0067	0.0101	<0.0057	<0.0049	<0.0041	<0.0044

J:\170,000-179,999\171521\171521-02.DEL\Supplemental Phase II\Appendices\

Table 1
Soil Precharacterization Data

Wynn Resort Casino
Everett, Massachusetts

Analyte	Precharacterization Cell	F09	F09	F09	F09	F09	F10	F10	F10	F10	F10	F10	F10	F10	F10	F10	F11	F11	F11	F11	F11	F11	F11	F11	F11
	Sample ID	F09S07	F09S08	F09S09	F09S10	F09S11S12	F10S01S02A	F10S02BS04A	F10S04BS05	F10S06S07A	F10S07BS08	F10S09	F10S10	F10S11	F10S12	F10S13S14	F11S01S02A	F11S02BS04A	F11S04B	F11S06S07A	F11S07B	F11S08S09	F11S10	F11S11	F11S12
	Laboratory Work Order	1501308	1501308	1501308	1501308	1501308	1502290	1502290	1502290	1502290	1502308	1502308	1502308	1502308	1502308	1502308	1501330	1501330	1501330	1503164	1503211	1503211	1503211	1503211	1503211
	Soil Distinction	Natural	Natural	Natural	Natural	Natural	Fill	Fill	Fill	Fill	Fill	Natural	Natural	Natural	Natural	Natural	Fill	Fill	Fill	Fill	Fill	Natural	Natural	Natural	Natural
	Soil Type	Clay	Clay	Clay	Sand/Gravel	Sand/Gravel						Clay	Clay	Sand/Gravel	Sand/Gravel	Sand/Gravel						Clay	Sand/Gravel	Sand/Gravel	Sand/Gravel
	Depth Interval (ft.)	16 - 18	19 - 21	26 - 28	29 - 31	34 - 38	0 - 3.3	3.3 - 6.6	6.6 - 9.5	10 - 13.3	13.3 - 16	16 - 18	19 - 21	24 - 26	29 - 31	34 - 38	0 - 3.3	3.3 - 6.6	6.6 - 8	10 - 13.3	13.3 - 14	16 - 18	19 - 21	24 - 26	29 - 31
	Sampling Date	1/15/2015	1/15/2015	1/15/2015	1/15/2015	1/15/2015	2/19/2015	2/19/2015	2/19/2015	2/19/2015	2/20/2015	2/20/2015	2/20/2015	2/20/2015	2/20/2015	2/20/2015	1/16/2015	1/16/2015	1/16/2015	3/10/2015	3/11/2015	3/11/2015	3/11/2015	3/11/2015	3/11/2015
Preliminary Disposal Facility Category		MCP Restricted	MCP Restricted	MCP Restricted	MCP Regulated Type A	Uncontaminated	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	Hazardous Material Type B	MCP Regulated Type A	MCP Regulated Type A	Uncontaminated	Uncontaminated	Uncontaminated	Uncontaminated	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A
Styrene	mg/kg	<0.0033	<0.0035	<0.0043	<0.0030	<0.0039	<0.0053	<0.0060	<0.0059	<0.0051	<0.0046	<0.0060	<0.0044	<0.0051	<0.0042	<0.0054	<0.0060	<0.0077	<0.0038	<0.0067	<0.0067	<0.0057	<0.0049	<0.0041	<0.0044
tert-Butylbenzene	mg/kg	<0.0033	<0.0035	<0.0043	<0.0030	<0.0039	<0.0053	<0.0060	<0.0059	<0.0051	<0.0046	<0.0060	<0.0044	<0.0051	<0.0042	<0.0054	<0.0060	<0.0077	<0.0038	<0.0067	<0.0067	<0.0057	<0.0049	<0.0041	<0.0044
Tertiary-amyl methyl ether	mg/kg	<0.0033	<0.0035	<0.0043	<0.0030	<0.0039	<0.0053	<0.0060	<0.0059	<0.0051	<0.0046	<0.0060	<0.0044	<0.0051	<0.0042	<0.0054	<0.0060	<0.0077	<0.0038	<0.0067	<0.0067	<0.0057	<0.0049	<0.0041	<0.0044
Tetrachloroethene	mg/kg	<0.0033	<0.0035	<0.0043	<0.0030	<0.0039	<0.0053	<0.0060	<0.0059	<0.0051	<0.0046	<0.0060	<0.0044	<0.0051	<0.0042	<0.0054	<0.0060	<0.0077	<0.0038	<0.0067	<0.0067	<0.0057	<0.0049	<0.0041	<0.0044
Tetrahydrofuran	mg/kg	<0.0033	<0.0035	<0.0043	<0.0030	<0.0039	<0.0053	<0.0060	<0.0059	<0.0051	<0.0046	<0.0060	<0.0044	<0.0051	<0.0042	<0.0054	<0.0060	<0.0077	<0.0038	<0.0067	<0.0067	<0.0057	<0.0049	<0.0041	<0.0044
Toluene	mg/kg	<0.0033	<0.0035	<0.0043	<0.0030	<0.0039	<0.0053	<0.0060	<0.0059	<0.0051	<0.0046	<0.0060	<0.0044	<0.0051	<0.0042	<0.0054	<0.0060	<0.0077	<0.0038	<0.0067	<0.0067	<0.0057	<0.0049	<0.0041	<0.0044
trans-1,2-Dichloroethene	mg/kg	<0.0033	<0.0035	<0.0043	<0.0030	<0.0039	<0.0053	<0.0060	<0.0059	<0.0051	<0.0046	<0.0060	<0.0044	<0.0051	<0.0042	<0.0054	<0.0060	<0.0077	<0.0038	<0.0067	<0.0067	<0.0057	<0.0049	<0.0041	<0.0044
trans-1,3-Dichloropropene	mg/kg	<0.0033	<0.0035	<0.0043	<0.0030	<0.0039	<0.0053	<0.0060	<0.0059	<0.0051	<0.0046	<0.0060	<0.0044	<0.0051	<0.0042	<0.0054	<0.0060	<0.0077	<0.0038	<0.0067	<0.0067	<0.0057	<0.0049	<0.0041	<0.0044
Trichloroethene	mg/kg	<0.0033	<0.0035	<0.0043	<0.0030	<0.0039	<0.0053	<0.0060	<0.0059	<0.0051	<0.0046	<0.0060	<0.0044	<0.0051	<0.0042	<0.0054	<0.0060	<0.0077	<0.0038	<0.0067	<0.0067	<0.0057	<0.0049	<0.0041	<0.0044
Trichlorofluoromethane	mg/kg	<0.0033	<0.0035	<0.0043	<0.0030	<0.0039	<0.0053	<0.0060	<0.0059	<0.0051	<0.0046	<0.0060	<0.0044	<0.0051	<0.0042	<0.0054	<0.0060	<0.0077	<0.0038	<0.0067	<0.0067	<0.0057	<0.0049	<0.0041	<0.0044
Vinyl Chloride	mg/kg	<0.0065	<0.0070	<0.0087	<0.0061	<0.0079	<0.0106	<0.0120	<0.0119	<0.0102	<0.0091	<0.0120	<0.0088	<0.0102	<0.0085	<0.0107	<0.0120	<0.0155	<0.0076	<0.0134	<0.0134	<0.0114	<0.0098	<0.0082	<0.0088
Xylene O	mg/kg	<0.0033	<0.0035	<0.0043	<0.0030	<0.0039	<0.0053	<0.0060	<0.0059	<0.0051	<0.0046	<0.0060	<0.0044	<0.0051	<0.0042	<0.0054	<0.0060	<0.0077	<0.0038	<0.0067	0.0156	<0.0057	<0.0049	<0.0041	<0.0044
Xylene P,M	mg/kg	<0.0065	<0.0070	<0.0087	<0.0061	<0.0079	<0.0106	<0.0120	<0.0119	<0.0102	<0.0091	<0.0120	<0.0088	<0.0102	<0.0085	<0.0107	<0.0120	<0.0155	<0.0076	<0.0134	0.0149	<0.0114	<0.0098	<0.0082	<0.0088
Xylenes (Total)	mg/kg	<0.0065	<0.0070	<0.0087	<0.0061	<0.0079	<0.0106	<0.0120	<0.0119	<0.0102	<0.0091	<0.0120	<0.0088	<0.0102	<0.0085	<0.0107	<0.0120	<0.0155	<0.0076	<0.0134	0.0305	<0.0114	<0.0098	<0.0082	<0.0088
Total VOCs (Low Level)	mg/kg	ND	ND	ND	ND	ND	0.0256	0.0273	ND	0.0221	0.0314	0.0171	ND	ND	ND	ND	ND	ND	ND	0.4349	0.4727	0.0535	0.0164	0.0704	0.0259
Semi-Volatile Organic Compounds																									
1,2,4-Trichlorobenzene	mg/kg	<0.934	<1.02	<0.973	<0.966	<0.962	<0.817	<0.947	<0.878	<1.01	<4.01	<1.02	<1.01	<0.997	<0.959	<0.945	<0.839	<0.881	<0.815	<3.92	<0.962	<1.01	<0.938	<0.907	<0.891
1,2-Dichlorobenzene	mg/kg	<0.934	<1.02	<0.973	<0.966	<0.962	<0.817	<0.947	<0.878	<1.01	<4.01	<1.02	<1.01	<0.997	<0.959	<0.945	<0.839	<0.881	<0.815	<3.92	<0.962	<1.01	<0.938	<0.907	<0.891
1,3-Dichlorobenzene	mg/kg	<0.934	<1.02	<0.973	<0.966	<0.962	<0.817	<0.947	<0.878	<1.01	<4.01	<1.02	<1.01	<0.997	<0.959	<0.945	<0.839	<0.881	<0.815	<3.92	<0.962	<1.01	<0.938	<0.907	<0.891
1,4-Dichlorobenzene	mg/kg	<0.468	<0.511	<0.488	<0.484	<0.482	<0.410	<0.475	<0.440	<0.505	<2.01	<0.510	<0.505	<0.500	<0.481	<0.474	<0.421	<0.442	<0.409	<1.97	<0.483	<0.508	<0.471	<0.455	<0.447
2,4,5-Trichlorophenol	mg/kg	<0.934	<1.02	<0.973	<0.966	<0.962	<0.817	<0.947	<0.878	<1.01	<4.01	<1.02	<1.01	<0.997	<0.959	<0.945	<0.839	<0.881	<0.815	<3.92	<0.962	<1.01	<0.938	<0.907	<0.891
2,4,6-Trichlorophenol	mg/kg	<0.934	<1.02	<0.973	<0.966	<0.962	<0.817	<0.947	<0.878	<1.01	<4.01	<1.02	<1.01	<0.997	<0.959	<0.945	<0.839	<0.881	<0.815	<3.92	<0.962	<1.01	<0.938	<0.907	<0.891
2,4-Dichlorophenol	mg/kg	<0.934	<1.02	<0.973	<0.966	<0.962	<0.817	<0.947	<0.878	<1.01	<4.01	<1.02	<1.01	<0.997	<0.959	<0.945	<0.839	<0.881	<0.815	<3.92	<0.962	<1.01	<0.938	<0.907	<0.891
2,4-Dimethylphenol	mg/kg	<0.934	<1.02	<0.973	<0.966	<0.962	<0.817	<0.947	<0.878	<1.01	<4.01	<1.02	<1.01	<0.997	<0.959	<0.945	<0.839	<0.881	<0.815	<3.92	<0.962	<1.01	<0.938	<0.907	<0.891
2,4-Dinitrophenol	mg/kg	<4.68	<5.11	<4.88	<4.84	<4.82	<4.10	<4.75	<4.40	<5.05	<1.00	<0.255	<0.253	<0.250	<0.240	<0.237	<4.21	<4.42	<4.09	<19.7	<4.83	<5.08	<4.71	<4.55	<4.47
2,4-Dinitrotoluene	mg/kg	<0.934	<1.02	<0.973	<0.966	<0.962	<0.817	<0.947	<0.878	<1.01	<1.00	<1.02	<1.01	<0.997	<0.959	<0.945	<0.839	<0.881	<0.815	<0.984	<0.962	<1.01	<0.938	<0.907	<0.891
2,6-Dinitrotoluene	mg/kg	<0.934	<1.02	<0.973	<0.966	<0.962	<0.817	<0.947	<0.878	<1.01	<4.01	<1.02	<1.01	<0.997	<0.959	<0.945	<0.839	<0.881	<0.815	<3.92	<0.962	<1.01	<0.938	<0.907	<0.891
2-Chloronaphthalene	mg/kg	<0.934	<1.02	<0.973	<0.966	<0.962	<0.817	<0.947	<0.878	<1.01	<4.01	<1.02	<1.01	<0.997	<0.959	<0.945	<0.839	<0.881	<0.815	<3.92	<0.962	<1.01	<0.938	<0.907	<0.891
2-Chlorophenol	mg/kg	<0.934	<1.02	<0.973	<0.966	<0.962	<0.817	<0.947	<0.878	<1.01	<4.01	<1.02	<1.01	<0.997	<0.959	<0.945	<0.839	<0.881	<0.815	<3.92	<0.962	<1.01	<0.938	<0.907	<0.891
2-Methylnaphthalene	mg/kg	<0.934	<1.02	<0.973	<0.966	<0.962	<0.817	<0.947	<0.878	3.29	<4.01	<1.02	<1.01	<0.997	<0.959	<0.945	<0.839	<0.881	0.88	33.8	11.4	<1.01	<0.938	<0.907	<0.891
2-Methylphenol	mg/kg	<0.934	<1.02	<0.973	<0.966	<0.962	<0.817	<0.947	<0.878	<1.01	<4.01	<1.02	<1.01	<0.997	<0.959	<0.945	<0.839	<0.881	<0.815	<3.92	<0.962	<1.01	<0.938	<0.907	<0.891
2-Nitrophenol	mg/kg	<0.934	<1.02	<0.973	<0.966	<0.962	<0.817	<0.947	<0.878	<1.01	<4.01	<1.02	<1.01	<0.997	<0.959	<0.945	<0.839	<0.881	<0.815	<3.92	<0.962	<1.01	<0.938	<0.907	<0.891
3,3'-Dichlorobenzidine	mg/kg	<1.87	<2.04	<1.95	<1.93	<1.93	<1.64	<1.90	<1.76	<2.02	<8.03	<2.04	<2.02	<2.00	<1.92	<1.89	<1.68	<1.76	<1.63	<7.86	<1.93	<2.03	<1.88	<1.82	<1.78
3+4-Methylphenol	mg/kg	<1.87	<2.04	<1.95	<1.93	<1.93	<1.64	<1.90	<1.76	<2.02	<8.03	<2.04	<2.02	<2.00	<1.92	<1.89	<1.68	<1.76	<1.63	<7.86	<1.93	<2.03	<1.88	<1.82	<1.78
4-Bromophenyl-phenylether	mg/kg	<0.934	<1.02	<0.973	<0.966	<0.962	<0.817	<0.947	<0.878	<1.01	<4.01	<1.02	<1.01	<0.997	<0.959	<0.945	<0.839	<0.881	<0.815	<3.92	<0.962	<1.01	<0.938	<0.907	<0.891
4-Chloroaniline	mg/kg	<1.87	<2.04	<1.95	<1.93	<1.93	<1.64	<1.90	<1.76	<2.02	<2.01	<2.04	<2.02	<2.00	<1.92	<1.89	<1.68	<1.76	<1.63	<1.97	<1.93	<2.03	<1.88	<1.82	<1.78
4-Nitrophenol	mg/kg	<4.68	<5.11	<4.88	<4.84	<4.82	<4.10	<4.75	<4.40	<5.05	<20.1	<5.10	<5.05	<5.00	<4.81	<4.74	<4.21	<4.42	<4.09	<19.7	<4.83	<5.08	<4.71	<4.55	<4.47
Acenaphthene	mg/kg	<0.934	<1.02	<0.973	<0.966	<0.962	<0.817	<0.947	<0.878	12.7	<4.01	<1.02	<1.01	<0.997	<0.959	<0.945	<0.839	<0.881	2.61	49.9	17.4	<1.01	<0.938	<0.907	<0.891
Acenaphthylene	mg/kg	<0.934	<1.02	<0.973	<0.966	<0.962	<0.817	<0.947	<0.878	<1.01	<4.01	<1.02	<1.01	<0.997	<0.959	<0.945	<0.839	<0.881	<0.815	21.2	13	<1.01	<0.938	<0.907	<0.891
Acetophenone	mg/kg	<1.87	<2.04	<1.95	<1.93	<1.93	<1.64	<1.90	<1.76	<2.02	<8.03	<2.04	<2.02	<2.00	<1.92	<1.89	<1.68	<1.76	<1.63	<7.86	<1.93	<2.03	<1.88	<1.82	<1.78
Aniline	mg/kg	<4.68	<5.11	<4.88	<4.84	<4.82	<4.10	<4.75	<4.40	<5.05	<20.1	<5.10	<5.05	<5.00	<4.81	<4.74	<4.21	<4.42	<4.09	<19.7	<4.83	<5.08	<4.71	<4.55	<4.47
Anthracene	mg/kg	<0.934	<1.02	<0.973	<0.966	<0.962	<0.817	1.57	<0.878	22.6	<4.01	<1.02	<1.01	<0.997	<0.959	<0.945	<0.839	1.12	2.85	126	49.1	<1.01	<0.938	<0.907	<0.891
Azobenzene	mg/kg	<0.934	<1.02	<0.973	<0.966	<0.962	<0.817	<0.947	<0.878	<1.01	<4.01	<1.02	<1.01	<0.997	<0.959	<0.945	<0.839	<0.881	<0.815	<3.92	<0.962	<1.01	<0.938	<0.907	<0.891
Benzo(a)anthracene	mg/kg	<0.934	<1.02	<0.973	<0.966	<0.962	<0.817	5.51	<0.878	30.6	<4.01	<1.02	<1.01	<0.997	<0.959	<0.945	<0.839	1.59	5.16	155	54.9	<1.01	<0.938	<0.907	<0.891
Benzo(a)pyrene	mg/kg	<0.468	<0.511	<0.488	<0.484	<0.482	<0.410	4.41	<0.440	21.4	<2.01	<0.510	<0.505	<0.500	<0.481	<0.474	<0.421	1.24	4.46	122	44.1	<0.508	<0.471	<0.455	<0.447
Benzo(b)fluoranthene	mg/kg	<0.934	<1.02	<0.973	<0.966	<0.962	<0.817	8.19	<0.878	20.1	<4.01	<1.02	<1.01	<0.997	<0.959	<0.945	<0.839	1.88	7.53	142	50.2	<1.01	<0.938	<0.907	<0.891
Benzo(g,h,i)perylene	mg/kg	<0.934	<1.02	<0.973	<0.966	<0.962	<0.817	<0.947	<0.878	5.67	<4.01	<1.02	<1.01	<0.997	<0.959	<0.945	<0.839	<0.881	0.958	17.5	8.42	<1.01	<0.938	<0.907	<0.891
Benzo(k)fluoranthene	mg/kg	<0.934	<1.02	<0.973	<0.966	<0.962	<0.817	4.69	<0.878	13.1	<4.01	<1.02	<1.01	<0.997	<0.959	<0.945	<0.839	<0.881	3.36	39.9	16.3	<1.01	<0.938	<0.907	<0.891
bis(2-Chloroethoxy)methane	mg/kg	<0.934	<1.02	<0.973	<0.966	<0.962	<0.817	<0.947	<0.878	<1.01	<4.01	<1.02	<1.01	<0.997	<0.959	<0.945	<0.839	<0.881	<0.815	<3.92	<0.962	<1.01	<0.938	<0.907	<0.891
bis(2-Chloroethyl)ether	mg/kg	<0.468	<0.511	<0.488	<0.484	<0.482	<0.410	<0.475	<0.440	<0.505	<0.397	<0.510	<0.505	<0.500	<0.481	<0.474	<0.421	<0.442	<0.409	<0.389	<0.483	<0.508	<0.471	<0.455	<0.447
bis(2-chloroisopropyl)Ether	mg/kg	<0.468	<0.511	<0.488	<0.484	<0.482	<0.410	<0.475	<0.440	<0.505	<0.397	<0.510	<0.505	<0.500	<0.481	<0.474	<0.421	<0.442	<0.409	<0.389	<0.483	<0.508	<0.471	<0.455	<0.447
bis(2-Ethylhexyl)phthalate	mg/kg	<0.934	<1.02	<0.973	<0.966	<0.962	<0.817	<0.947	<0.878	<1.01	<4.01	<1.02	<1.01	<0.997	<0.959	<0.945	<0.839	1.97	0.895	<3.92	<0.962	<1.01	<0.938	<0.907	<0.891
Butylbenzylphthalate	mg/kg	<0.934	<1.02	<0.973	<0.966	<0.962	<0.817	<0.947	<0.878	<1.01	<4.01	<1.02	<1.01	<0.997	<0.959	<0.945	<0.839	<0.881	<0.815	<3.92	<0.962	<1.01	<0.938	<0.907	<0.891
Chrysene	mg/kg	<0.468	<0.511	<0.488	<0.484	<0.482	<0.410	4.99	<0.440	23	<2.01	<0.510	<0.505	<0.500	<0.481	<0.474	<0.421	1.34	4.7	130	44.8	<0.508	<0.471	<0.455	<0.447
Dibenzo(a,h)Anthracene	mg/kg	<0.468	<0.511	<0.488	<0.484	<0.482	<0.410	<0.475	<0.440	0.808	<2.01	<0.510	<0.505	<0.500	<0.481	<0.474	<0.421	<0.442	0.495	11.3	5.1	<0.508	<0.471	<0.455	<0.447
Dibenzofuran	mg/kg	<0.934	<1.02	<0.973	<0.966	<0.962	<0.817	<0.947	<0.878	8.84	<4.01	<1.02	<1.01	<0.997	<0.959	<0.945	<0.839	<0.881	1.34	60	22.2	<1.01	<0.938	<0.907	<0.891
Diethylphthalate	mg/kg	<0.934	<1.02	<0.973	<0.966	<0.962	<0.817	<0.947	<0.878	<1.01	<4.01	<1.02	<1.01	<0.997	<0.959	<0.945	<0.839	<0.881	<0.815	<3.92	<0.962	<1.01	<0.938	<0.907	<0.891
Dimethylphthalate	mg/kg	<0.934	<1.02	<0.973	<0.966	<0.962	<0.817	<0.947	<0.878	<1.01	<4.01	<1.02	<1.01	<0.997	<0.959	<0.945	<0.839	<0.881	<0.815	<3.92	<0.962	<1.01	<0.938	<0.907	<0.891
Di-n-butylphthalate	mg/kg	<0.934	<1.02	<0.973	<0.966	<0.962	<0.817	<0.947	<0.878	<1.01	<4.01	<1.02	<1.01	<0.997	<0.959	<0.945	<0.839	<0.881	<0.815	<3.92	<0.962	<1.01	<0.938	<0.907	<0.891
Di-n-octylphthalate	mg/kg	<0.934	<1.02	<0.973	<0.966	<0.962	<0.817	<0.947	<0.878	<1.01	<4.01	<1.02	<1.01	<0.997	<0.959	<0.945	<0.839	<0.881	<0.815	<3.92	<0.962	<1.01	<0.938	<0.907	<0.891
Fluoranthene	mg/kg	<0.934	<1.02	<0.973	<0.966	<0.962	<0.817	9.12	<0.878	76.4	<4.01	<1.02	<1.01	<0.997	<0.959	<0.945	<0.839	3.82	11.1	385	143	<1.01	<0.938	<0.907	<0.891
Fluorene	mg/kg	<0.934	<1.02	<0.973	<0.966	<0.962	<0.817	<0.947	<0.878	13.7	<4.01	<1.02	<1.01	<0.997	<0.959	<0.945	<0.839	<0.881	2.12	77.2	29.8	<1.01	<0.938	<0.907	<0.891
Hexachlorobenzene	mg/kg	<0.468	<0.511	<0.488	<0.484	<0.482	<0.410	<0.475	<0.440	<0.505	<2.01	<0.510	<0.505	<0.500	<0.481	<0.474	<0.421	<0.442	<0.409	<0.984	<0.483	<0.508	<0.471	<0.455	<0.447
Hexachlorobutadiene	mg/kg	<0.934	<1.02	<0.973	<0.966	<0.962	<0.817	<0.947	<0.878	<1.01	<4.01	<1.02	<1.01	<0.997	<0.959	<0.945	<0.839	<0.881	<0.815	<3.92	<0.962	<1.01	<0.938	<0.907	<0.891
Hexachloroethane	mg/kg	<0.934	<1.02	<0.973	<0.966	<0.962	<0.817	<0.947	<0.878	<1.01	<2.01	<1.02	<1.01	<0.997	<0.959	<0.945	<0.839	<0.881	<0.815	<1.97	<0.962	<1.01	<0.938	<0.907	<0.891
Indeno(1,2,3-cd)Pyrene	mg/kg	<0.934	<1.02	<0.973	<0.966	<0.962	<0.817	<0.947	<0.878	6.46	<4.01	<1.02	<1.01	<0.997	<0.959	<0.945	<0.839	<0.881	1.15	21.4	9.74	<1.01	<0.938	<0.907	<0.891
Isophorone	mg/kg	<0.934	<1.02	<0.973	<0.966	<0.962	<0.817	<0.947	<0.878	<1.01	<4.01	<1.02	<1.01	<0.997	<0.959	<0.945	<0.839	<0.881	<0.815	<3.92	<0.962	<1.01	<0.938	<0.907	<0.891
Naphthalene	mg/kg	<0.934	<1.02	<0.973	<0.966	<0.962	<0.817	<0.947	<0.878	4.36	<4.01	<1.02	<1.01	<0.997	<0.959	<0.945	<0.839	<0.881	2.46	74.9	22.9	<1.01	<0.938	<0.907	<0.891
Nitrobenzene	mg/kg	<0.934	<1.02	<0.973	<0.966	<0.962	<0.817	<0.947	<0.878	<1.01	<4.01	<1.02	<1.01	<0.997	<0.959	<0.945	<0.839	<0.881	<0.815	<3.92	<0.962	<1.01	<0.938	<0.907	<0.891
N-Nitrosodimethylamine	mg/kg	<0.934	<1.02	<0.973	<0.966	<0.962	<0.817	<0.947	<0.878	<1.01	<4.01	<1.02	<1.01	<0.997	<0.959	<0.945	<0.839	<0.881	<0.815	<3.92	<0.962	<1.01	<0.938	<0.907	<0.891
Pentachlorophenol	mg/kg	<4.68	<5.11	<4.88	<4.84	<4.82	<4.10	<4.75	<4.40	<5.05	<4.01	<5.10	<5.05	<5.00	<4.81	<4.74	<4.21	<4.42	<4.09	<3.92	<4.83	<5.08	<4.71	<4.55	<4.47
Phenanthrene	mg/kg	<0.934	<1.02	<0.973	<0.966	<0.962	<0.817	4.58	<0.878	88.3	<4.01	<1.02	<1.01	<0.997	<0.959	<0.945	<0.839	4.37	8.45	425	164	<1.01	<0.938	<0.907	<0.891
Phenol	mg/kg	<0.934	<1.02	<0.973	<0.966	<0.962	<0.817	<0.947	<0.878	<1.01	<4.01	<1.02	<1.01	<0.997	<0.959	<0.945	<0.839	<0.881	<0.815	<3.92	<0.962	<1.01	<0.938	<0.907	<0.891
Pyrene	mg/kg	<0.934	<1.02	<0.973	<0.966	<0.962	<0.817	6.17	<0.878	52.4	<4.01	<1.02	<1.01	<0.997	<0.959	<0.945	<0.839	2.95	8.67	273	96.9	<1.01	<0.938	<0.907	<0.891
Total SVOCs	mg/kg	ND	ND	ND	ND	ND	ND	49.23	ND	101000373.1	ND	ND	ND	ND	ND	ND	ND	20.28	69.188	2165.1	803.26	ND	ND	ND	ND
Classic Chemistry																									
Corrosivity (pH)	S.U.	6.71	6.83	7.01	6.49	5.37	8.58	7.94	10.6	8.96	7.74	8.1	7.63	7.06	4.88	5.06	9.51	8.19	7.94	7.06	9.25	5.62	5.65	5.23	5.41
Conductivity	umhos/cm	1560	1550	1550	1160	830	118	182	439	304	623	685	615	227	803	635	168	1070	686	818	1080	724	514	408	27
Flashpoint	°F	--	--	--	--	--	>200	>200	>200	>200	>200	--	--	--	--	--	>200	>200	--	>200	>200	--	--	--	--
Reactive Cyanide	mg/kg	--	--	--	--	--	<2.0	<2.0	<2.0	<2.0	<2.0	--	--	--	--	--	<2.0	<2.0	--	<2.0	<2.0	--	--	--	--
Reactive Sulfide	mg/kg	--	--	--	--	--	<2.0	<2.0	<2.0	<2.0	<2.0	--	--	--	--	--	<2.0	<2.0	--	<2.0	<2.0	--	--	--	--

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	F11 F11S13S14 1503211 Natural Sand/Gravel 34 - 38 3/11/2015	F12 F12S01S02A 1501393 Fill 0 - 3.3 1/20/2015	F12 F12S02BS03 1501393 Fill 3.3 - 5.7 1/20/2015	F12 F12S05S06 1501393 Fill 7 - 10 1/20/2015	F12 F12S07 1501393 Natural Clay 10 - 12 1/20/2015	F12 F12S08 1501393 Natural Clay 14 - 16 1/20/2015	F12 F12S09 1501393 Natural Clay 19 - 21 1/20/2015	F12 F12S10 1501393 Natural Sand/Gravel 24 - 26 1/20/2015	F12 F12S11 1501393 Natural Sand/Gravel 29 - 31 1/20/2015	F12 F12S12S13 1501393 Natural Sand/Gravel 34 - 38 1/20/2015	F13 F13S01S02A 1502102 Fill 0 - 3.3 2/6/2015	F13 F13S02BS04A 1502102 Fill 3.3 - 6.6 2/6/2015	F13 F13S04BS05 1502102 Fill 6.6 - 10 2/6/2015	F13 F13S06S07A 1502102 Fill 10 - 13.3 2/6/2015	F13 F13S07B 1502102 Fill 13.3 - 14 2/6/2015	F13 F13S08 1502141 Fill 14 - 16 2/11/2015	F13 F13S09 1502141 Natural Sand/Gravel 16 - 18 2/11/2015	F13 F13S10 1502141 Natural Clay 19 - 21 2/11/2015	F13 F13S11 1502141 Natural Sand/Gravel 24 - 26 2/11/2015	F13 F13S12 1502141 Natural Sand/Gravel 29 - 31 2/11/2015	F13 F13S13S14 1502141 Natural Sand/Gravel 34 - 38 2/11/2015	F14 F14S01S02 1501359 Fill 0 - 2.8 1/19/2015	F14 F14S03S04A 1501359 Fill 4 - 6.6 1/19/2015	F14 F14S04BS05 1501359 Fill 6.6 - 10 1/19/2015
Preliminary Disposal Facility Category		MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Uncontaminated	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type B-1	MCP Regulated Type A	Uncontaminated	MCP Restricted	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A
RCRA 8 Metals	**Units**																								
Arsenic	mg/kg	9.49	11.6	9.44	23.9	12.4	15.7	20.8	13.6	28.4	10.4	8.29	<6.81	7.05	9.69	12.2	<8.17	<7.31	14.9	<7.38	15.4	16.5	<6.82	<7.21	58.8
Barium	mg/kg	37.4	19.3	26.7	71.6	84.5	75	85.2	33.7	60	17.1	45.2	25.6	130	237	99.7	58.1	36.6	112	20.8	49.5	23.9	25	24.4	92.3
Cadmium	mg/kg	<1.32	<1.33	<1.16	<1.37	3.28	<1.47	<1.32	<1.48	<1.33	<1.14	<1.47	<1.36	<1.36	<1.42	<1.38	<1.63	<1.46	<1.60	<1.48	<1.48	<1.48	<1.36	<1.44	2.46
Chromium	mg/kg	23.6	30.3	21.7	25	34.3	41.6	39.7	18.9	16	15.5	51.1	27.7	39.1	22.5	20.7	23.1	20.9	49.6	13.4	41.3	20.9	23.2	15.8	12.3
Lead	mg/kg	<13.2	23.5	29	230	50	<14.7	19.2	<14.8	43.8	<11.4	124	14.7	207	244	263	178	102	31	56.9	<14.8	<14.8	56.3	65.1	1350
Selenium	mg/kg	<6.60	<6.63	<5.81	<6.85	<8.43	<7.34	<6.62	<7.38	<6.63	<5.71	<7.33	<6.81	<6.78	<7.12	<6.89	<8.17	<7.31	<7.98	<7.38	<7.40	<7.38	<6.82	<7.21	<7.33
Silver	mg/kg	<1.32	<1.33	<1.16	1.54	<1.69	<1.47	<1.32	<1.48	<1.33	<1.14	<1.47	<1.36	<1.36	<1.42	<1.38	<1.63	<1.46	<1.60	<1.48	<1.48	<1.48	<1.36	<1.44	6.47
Mercury	mg/kg	<0.036	<0.026	0.106	0.053	<0.037	<0.040	0.119	<0.031	0.043	<0.036	0.039	<0.036	0.578	0.787	0.543	0.065	<0.042	<0.037	<0.037	<0.035	0.09	<0.032	0.074	0.596
Metals by Toxicity Characteristic Leaching Procedure (TCLP)																									
Arsenic	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead	mg/L	--	--	--	0.118	--	--	--	--	--	--	<0.050	--	0.502	0.614	0.645	0.202	0.296	--	--	--	--	--	--	1.58
Selenium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Herbicides																									
2,4,5-T	mg/kg	--	<0.0088	<0.0091	<0.0099	--	<0.010	--	--	--	--	<0.051	<0.051	<0.056	<0.053	<0.057	<0.055	--	--	--	--	--	<0.043	<0.044	<0.24
2,4-D	mg/kg	--	<0.0088	<0.0091	<0.0099	--	<0.010	--	--	--	--	<0.051	<0.051	<0.056	<0.053	<0.057	<0.055	--	--	--	--	--	<0.22	<0.22	<1.2
2,4-DB	mg/kg	--	<0.0088	<0.0091	<0.0099	--	<0.010	--	--	--	--	<0.051	<0.051	<0.056	<0.053	<0.057	<0.055	--	--	--	--	--	<0.016	<0.017	<0.090
Dalapon	mg/kg	--	<0.11	<0.11	<0.12	--	<0.13	--	--	--	--	<0.62	<0.61	<0.67	<0.64	<0.69	<0.67	--	--	--	--	--	<1.3	<1.3	<7.2
Dicamba	mg/kg	--	<0.0088	<0.0091	<0.0099	--	<0.010	--	--	--	--	<0.051	<0.051	<0.056	<0.053	<0.057	<0.055	--	--	--	--	--	<0.065	<0.066	<0.36
Dichlorprop	mg/kg	--	<0.0088	<0.0091	<0.0099	--	<0.010	--	--	--	--	<0.051	<0.051	<0.056	<0.053	<0.057	<0.055	--	--	--	--	--	<0.14	<0.14	<0.78
Dinoseb	mg/kg	--	<0.053	<0.055	<0.060	--	<0.063	--	--	--	--	<0.31	<0.31	<0.34	<0.32	<0.35	<0.33	--	--	--	--	--	<0.22	<0.22	<1.2
MCPA	mg/kg	--	<2.1	<2.2	<2.4	--	<2.5	--	--	--	--	<12	<12	<13	<13	<14	<13	--	--	--	--	--	<54	<55	<300
MCPP	mg/kg	--	<2.1	<2.2	<2.4	--	<2.5	--	--	--	--	<12	<12	<13	<13	<14	<13	--	--	--	--	--	<54	<55	<300
Silvex (2,4,5-TP)	mg/kg	--	<0.0088	<0.0091	<0.0099	--	<0.010	--	--	--	--	<0.051	<0.051	<0.056	<0.053	<0.057	<0.055	--	--	--	--	--	<0.043	<0.044	<0.24
Pesticides																									
4,4'-DDD	mg/kg	--	<0.0084	<0.034	<0.017	--	<0.0017	--	--	--	--	<0.0038	<0.0018	<0.0020	<0.0040	<0.0040	<0.0037	--	--	--	--	--	<0.0091	<0.0037	<0.010
4,4'-DDE	mg/kg	--	<0.0084	<0.034	<0.017	--	<0.0017	--	--	--	--	<0.0038	<0.0018	<0.0020	<0.0040	<0.0040	<0.0037	--	--	--	--	--	<0.0091	<0.0037	<0.010
4,4'-DDT	mg/kg	--	<0.0084	<0.034	<0.017	--	<0.0017	--	--	--	--	<0.0038	<0.0018	<0.0020	<0.0040	<0.0040	<0.0037	--	--	--	--	--	<0.0091	<0.0037	<0.010
Aldrin	mg/kg	--	<0.0084	<0.034	<0.017	--	<0.0017	--	--	--	--	<0.0038	<0.0018	<0.0020	<0.0040	<0.0040	<0.0038	--	--	--	--	--	<0.0091	<0.0037	<0.010
alpha-BHC	mg/kg	--	<0.0084	<0.034	<0.017	--	<0.0017	--	--	--	--	<0.0038	<0.0018	<0.0020	<0.0040	<0.0040	<0.0038	--	--	--	--	--	<0.0091	<0.0037	<0.010
beta-BHC	mg/kg	--	<0.0084	<0.034	<0.017	--	<0.0017	--	--	--	--	<0.0038	<0.0018	<0.0020	<0.0040	<0.0040	<0.0038	--	--	--	--	--	<0.0091	<0.0037	<0.010
Chlordane (technical)	mg/kg	--	<0.25	<0.99	<0.50	--	<0.049	--	--	--	--	<0.038	<0.018	<0.020	<0.040	<0.040	<0.038	--	--	--	--	--	<0.091	<0.037	<0.10
delta-BHC	mg/kg	--	<0.0084	<0.034	<0.017	--	<0.0017	--	--	--	--	<0.0038	<0.0018	<0.0020	<0.0040	<0.0040	<0.0038	--	--	--	--	--	<0.0091	<0.0037	<0.010
Dieldrin	mg/kg	--	<0.0084	<0.034	<0.017	--	<0.0017	--	--	--	--	<0.0038	<0.0018	<0.0020	<0.0040	<0.0040	<0.0038	--	--	--	--	--	<0.0091	<0.0037	<0.010
Endosulfan I	mg/kg	--	<0.0084	<0.034	<0.017	--	<0.0017	--	--	--	--	<0.0038	<0.0018	<0.0020	<0.0040	<0.0040	<0.0038	--	--	--	--	--	<0.0091	<0.0037	<0.010
Endosulfan II	mg/kg	--	<0.0084	<0.034	<0.017	--	<0.0017	--	--	--	--	<0.0038	<0.0018	<0.0020	<0.0040	<0.0040	<0.0038	--	--	--	--	--	<0.0091	<0.0037	<0.010
Endosulfan sulfate	mg/kg	--	<0.0084	<0.034	<0.017	--	<0.0017	--	--	--	--	<0.0038	<0.0018	<0.0020	<0.0040	<0.0040	<0.0038	--	--	--	--	--	<0.0091	<0.0037	<0.010
Endrin	mg/kg	--	<0.0084	<0.034	<0.017	--	<0.0017	--	--	--	--	<0.0038	<0.0018	<0.0020	<0.0040	<0.0040	<0.0038	--	--	--	--	--	<0.0091	<0.0037	<0.010
Endrin ketone	mg/kg	--	<0.0084	<0.034	<0.017	--	<0.0017	--	--	--	--	<0.0038	<0.0018	<0.0020	<0.0040	<0.0040	<0.0038	--	--	--	--	--	<0.0091	<0.0037	<0.010
gamma-BHC (Lindane)	mg/kg	--	<0.0084	<0.034	<0.017	--	<0.0017	--	--	--	--	<0.0038	<0.0018	<0.0020	<0.0040	<0.0040	<0.0038	--	--	--	--	--	<0.0091	<0.0037	<0.010
Heptachlor	mg/kg	--	<0.0084	<0.034	<0.017	--	<0.0017	--	--	--	--	<0.0038	<0.0018	<0.0020	<0.0040	<0.0040	<0.0038	--	--	--	--	--	<0.0091	<0.0037	<0.010
Heptachlor epoxide	mg/kg	--	<0.0084	<0.034	<0.017	--	<0.0017	--	--	--	--	<0.0038	<0.0018	<0.0020	<0.0040	<0.0040	<0.0038	--	--	--	--	--	<0.0091	<0.0037	<0.010
Hexachlorobenzene	mg/kg	--	<0.0084	<0.034	<0.017	--	<0.0017	--	--	--	--	<0.0038	<0.0018	<0.0020	<0.0040	<0.0040	<0.0038	--	--	--	--	--	<0.0091	<0.0037	<0.010
Methoxychlor	mg/kg	--	<0.016	<0.066	<0.033	--	<0.0033	--	--	--	--	<0.0038	<0.0018	<0.0020	<0.0040	<0.0040	<0.0038	--	--	--	--	--	<0.0091	<0.0037	<0.010
Polychlorinated Biphenyls																									
Aroclor 1016	mg/kg	<0.143	<0.131	<0.127	<0.138	<0.159	<0.147	<0.148	<0.153	<0.136	<0.132	<0.131	<0.124	<0.134	<0.138	<0.147	<0.152	<0.152	<0.156	<0.150	<0.154	<0.137	<0.124	<0.128	<0.141
Aroclor 1221	mg/kg	<0.143	<0.131	<0.127	<0.138	<0.159	<0.147	<0.148	<0.153	<0.136	<0.132	<0.131	<0.124	<0.134	<0.138	<0.147	<0.152	<0.152	<0.156	<0.150	<0.154	<0.137	<0.124	<0.128	<0.141
Aroclor 1232	mg/kg	<0.143	<0.131	<0.127	<0.138	<0.159	<0.147	<0.148	<0.153	<0.136	<0.132	<0.131	<0.124	<0.134	<0.138	<0.147	<0.152	<0.152	<0.156	<0.150	<0.154	<0.137	<0.124	<0.128	<0.141
Aroclor 1242	mg/kg	<0.143	<0.131	<0.127	<0.138	<0.159	<0.147	<0.148	<0.153	<0.136	<0.132	<0.131	<0.124	<0.134	<0.138	<0.147	<0.152	<0.152	<0.156	<0.150	<0.154	<0.137	<0.124	<0.128	<0.141
Aroclor 1248	mg/kg	<0.143	<0.131	<0.127	<0.138	<0.159	<0.147	<0.148	<0.153	<0.136	<0.132	<0.131	<0.124	<0.134	<0.138	<0.147	<0.152	<0.152	<0.156	<0.150	<0.154	<0.137	<0.124	<0.128	<0.141
Aroclor 1254	mg/kg	<0.143	<0.131	<0.127	<0.138	<0.159	<0.147	<0.148	<0.153	<0.136	<0.132	<0.131	<0.124	0.217	<0.138	<0.147	<0.152	<0.152	<0.156	<0.150	<0.154	<0.137	<0.124	<0.128	<0.141
Aroclor 1260	mg/kg	<0.143	<0.131	1.18	<0.138	<0.159	<0.147	<0.148	<0.153	<0.136	<0.132	<0.131	<0.124	<0.134	<0.138	<0.147	<0.152	<0.152	<0.156	<0.150	<0.154	<0.137	<0.124	0.371	0.255
Aroclor 1262	mg/kg	<0.143	<0.131	<0.127	<0.138	<0.159	<0.147	<0.148	<0.153	<0.136	<0.132	<0.131	<0.124	<0.134	<0.138	<0.147	<0.152	<0.152	<0.156	<0.150	<0.154	<0.137	<0.124	<0.128	<0.141
Aroclor 1268	mg/kg	<0.143	<0.131	<0.127	<0.138	<0.159	<0.147	<0.148	<0.153	<0.136	<0.132	<0.131	<0.124	<0.134	<0.138	<0.147	<0.152	<0.152	<0.156	<0.150	<0.154	<0.137	<0.124	<0.128	<0.141
Total PCBs	mg/kg	ND	ND	1.18	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.217	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.371	0.255
Total Petroleum Hydrocarbons	mg/kg	<46.9	<36.4	460	67.7	<46.1	<47.3	<46.7	<47.4	<42.5	<42.2	166	58.4	489	221	2210	784	256	<50.1	<46.5	<49.8	<45.4	245	<39.6	326
Volatile Organic Compounds (VOCs)																									
1,1,1,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.118	<0.137	--	--	--	--	--	--	--
1,1,1-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0590	<0.0684	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0590	<0.0684	--	--	--	--	--	--	--
1,1,2-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0590	<0.0684	--	--	--	--	--	--	--
1,1-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0590	<0.0684	--	--	--	--	--	--	--
1,1-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0590	<0.0684	--	--	--	--	--	--	--
1,1-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0590	<0.0684	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0590	<0.0684	--	--	--	--	--	--	--
1,2,3-Trichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0590	<0.0684	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0590	<0.0684	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2.66	0.757	--	--	--	--	--	--	--
1,2-Dibromo-3-Chloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.236	<0.274	--	--	--	--	--	--	--
1,2-Dibromoethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0590	<0.0684	--	--	--	--	--	--	--
1,2-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0590	<0.0684	--	--	--	--	--	--	--
1,2-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0590	<0.0684	--	--	--	--	--	--	--
1,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0590	<0.0684	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.783	0.224	--	--	--	--	--	--	--
1,3-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0590	<0.0684	--	--	--	--	--	--	--
1,3-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0590	<0.0684	--	--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0590	<0.0684	--	--	--	--	--	--	--
1,4-Dioxane - Screen	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<5.90	<6.84	--	--	--	--	--	--	--
2,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.118	<0.137	--	--	--	--	--	--	--
2-Butanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.236	<0.274	--	--	--	--	--	--	--
2-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0590	<0.0684	--	--	--	--	--	--	--
2-Hexanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.236	<0.274	--	--	--	--	--	--	--
4-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0590	<0.0684	--	--	--	--	--	--	--
4-Isopropyltoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.261	0.0753	--	--	--	--	--	--	--
4-Methyl-2-Pentanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.236	<0.274	--	--	--	--	--	--	--
Acetone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.467	0.554	--	--	--	--	--	--	--
Benzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0590	<0.0684	--	--	--	--	--	--	--
Bromobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0590	<0.0684	--	--	--	--	--	--	--
Bromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0590	<0.0684	--	--	--	--	--	--	--
Bromodichloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0590	<0.0684	--	--	--	--	--	--	--
Bromoform	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0590	<0.0684	--	--	--	--	--	--	--
Bromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.118	<0.137	--	--	--	--	--	--	--
Carbon Disulfide	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0590	<0.0684	--	--	--	--	--	--	--
Carbon Tetrachloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0590	<0.0684	--	--	--	--	--	--	--

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	F11 F11S13S14 1503211 Natural Sand/Gravel 34 - 38 3/11/2015	F12 F12S01S02A 1501393 Fill 0 - 3.3 1/20/2015	F12 F12S02BS03 1501393 Fill 3.3 - 5.7 1/20/2015	F12 F12S05S06 1501393 Fill 7 - 10 1/20/2015	F12 F12S07 1501393 Natural Clay 10 - 12 1/20/2015	F12 F12S08 1501393 Natural Clay 14 - 16 1/20/2015	F12 F12S09 1501393 Natural Clay 19 - 21 1/20/2015	F12 F12S10 1501393 Natural Sand/Gravel 24 - 26 1/20/2015	F12 F12S11 1501393 Natural Sand/Gravel 29 - 31 1/20/2015	F12 F12S12S13 1501393 Natural Sand/Gravel 34 - 38 1/20/2015	F13 F13S01S02A 1502102 Fill 0 - 3.3 2/6/2015	F13 F13S02BS04A 1502102 Fill 3.3 - 6.6 2/6/2015	F13 F13S04BS05 1502102 Fill 6.6 - 10 2/6/2015	F13 F13S06S07A 1502102 Fill 10 - 13.3 2/6/2015	F13 F13S07B 1502102 Fill 13.3 - 14 2/6/2015	F13 F13S08 1502141 Fill 14 - 16 2/11/2015	F13 F13S09 1502141 Natural Sand/Gravel 16 - 18 2/11/2015	F13 F13S10 1502141 Natural Clay 19 - 21 2/11/2015	F13 F13S11 1502141 Natural Sand/Gravel 24 - 26 2/11/2015	F13 F13S12 1502141 Natural Sand/Gravel 29 - 31 2/11/2015	F13 F13S13S14 1502141 Natural Sand/Gravel 34 - 38 2/11/2015	F14 F14S01S02 1501359 Fill 0 - 2.8 1/19/2015	F14 F14S03S04A 1501359 Fill 4 - 6.6 1/19/2015	F14 F14S04BS05 1501359 Fill 6.6 - 10 1/19/2015
Preliminary Disposal Facility Category		MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Uncontaminated	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type B-1	MCP Regulated Type A	Uncontaminated	MCP Restricted	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A
Chlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0590	<0.0684	--	--	--	--	--	--	--
Chloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.118	<0.137	--	--	--	--	--	--	--
Chloroform	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0590	<0.0684	--	--	--	--	--	--	--
Chloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.118	<0.137	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0590	<0.0684	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0590	<0.0684	--	--	--	--	--	--	--
Dibromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0590	<0.0684	--	--	--	--	--	--	--
Dibromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0590	<0.0684	--	--	--	--	--	--	--
Dichlorodifluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0590	<0.0684	--	--	--	--	--	--	--
Diethyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0590	<0.0684	--	--	--	--	--	--	--
Di-isopropyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0590	<0.0684	--	--	--	--	--	--	--
Ethyl tertiary-butyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0590	<0.0684	--	--	--	--	--	--	--
Ethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.197	<0.0684	--	--	--	--	--	--	--
Hexachlorobutadiene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0590	<0.0684	--	--	--	--	--	--	--
Isopropylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.112	<0.0684	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0590	<0.0684	--	--	--	--	--	--	--
Methylene Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.236	<0.274	--	--	--	--	--	--	--
Naphthalene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5.69	1.47	--	--	--	--	--	--	--
n-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.837	0.248	--	--	--	--	--	--	--
n-Propylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.238	0.0712	--	--	--	--	--	--	--
sec-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.167	<0.0684	--	--	--	--	--	--	--
Styrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0590	<0.0684	--	--	--	--	--	--	--
tert-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0590	<0.0684	--	--	--	--	--	--	--
Tertiary-amyl methyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0590	<0.0684	--	--	--	--	--	--	--
Tetrachloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0590	<0.0684	--	--	--	--	--	--	--
Tetrahydrofuran	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.236	<0.274	--	--	--	--	--	--	--
Toluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.16	<0.0684	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0590	<0.0684	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0590	<0.0684	--	--	--	--	--	--	--
Trichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0590	<0.0684	--	--	--	--	--	--	--
Trichlorofluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0590	<0.0684	--	--	--	--	--	--	--
Vinyl Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0590	<0.0684	--	--	--	--	--	--	--
Xylene O	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.45	0.105	--	--	--	--	--	--	--
Xylene P,M	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.821	0.196	--	--	--	--	--	--	--
Xylenes (Total)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.27	0.301	--	--	--	--	--	--	--
Total VOCs	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	14.113	4.0015	--	--	--	--	--	--	--
Volatile Organic Compounds - Low Level Analysis																									
1,1,1,2-Tetrachloroethane	mg/kg	<0.0047	<0.0036	<0.0033	<0.0039	<0.0041	<0.0036	<0.0033	<0.0036	<0.0034	<0.0034	<0.0031	<0.0046	<0.0021	<0.0027	<0.0031	--	--	<0.0033	<0.0037	<0.0028	<0.0025	<0.0037	<0.0030	<0.0040
1,1,1-Trichloroethane	mg/kg	<0.0047	<0.0036	<0.0033	<0.0039	<0.0041	<0.0036	<0.0033	<0.0036	<0.0034	<0.0034	<0.0031	<0.0046	<0.0021	<0.0027	<0.0031	--	--	<0.0033	<0.0037	<0.0028	<0.0025	<0.0037	<0.0030	<0.0040
1,1,2,2-Tetrachloroethane	mg/kg	<0.0019	<0.0014	<0.0013	<0.0016	<0.0016	<0.0015	<0.0013	<0.0014	<0.0014	<0.0013	<0.0013	<0.0018	<0.0009	<0.0011	<0.0012	--	--	<0.0013	<0.0015	<0.0011	<0.0010	<0.0015	<0.0012	<0.0016
1,1,2-Trichloroethane	mg/kg	<0.0047	<0.0036	<0.0033	<0.0039	<0.0041	<0.0036	<0.0033	<0.0036	<0.0034	<0.0034	<0.0031	<0.0046	<0.0021	<0.0027	<0.0031	--	--	<0.0033	<0.0037	<0.0028	<0.0025	<0.0037	<0.0030	<0.0040
1,1-Dichloroethane	mg/kg	<0.0047	<0.0036	<0.0033	<0.0039	<0.0041	<0.0036	0.0055	<0.0036	<0.0034	<0.0034	<0.0031	<0.0046	<0.0021	<0.0027	<0.0031	--	--	<0.0033	<0.0037	<0.0028	<0.0025	<0.0037	<0.0030	<0.0040
1,1-Dichloroethene	mg/kg	<0.0047	<0.0036	<0.0033	<0.0039	<0.0041	<0.0036	<0.0033	<0.0036	<0.0034	<0.0034	<0.0031	<0.0046	<0.0021	<0.0027	<0.0031	--	--	<0.0033	<0.0037	<0.0028	<0.0025	<0.0037	<0.0030	<0.0040
1,1-Dichloropropene	mg/kg	<0.0047	<0.0036	<0.0033	<0.0039	<0.0041	<0.0036	<0.0033	<0.0036	<0.0034	<0.0034	<0.0031	<0.0046	<0.0021	<0.0027	<0.0031	--	--	<0.0033	<0.0037	<0.0028	<0.0025	<0.0037	<0.0030	<0.0040
1,2,3-Trichlorobenzene	mg/kg	<0.0047	<0.0036	<0.0033	<0.0039	<0.0041	<0.0036	<0.0033	<0.0036	<0.0034	<0.0034	<0.0031	<0.0046	<0.0021	<0.0027	<0.0031	--	--	<0.0033	<0.0037	<0.0028	<0.0025	<0.0037	<0.0030	<0.0040
1,2,3-Trichloropropane	mg/kg	<0.0047	<0.0036	<0.0033	<0.0039	<0.0041	<0.0036	<0.0033	<0.0036	<0.0034	<0.0034	<0.0031	<0.0046	<0.0021	<0.0027	<0.0031	--	--	<0.0033	<0.0037	<0.0028	<0.0025	<0.0037	<0.0030	<0.0040
1,2,4-Trichlorobenzene	mg/kg	<0.0047	<0.0036	<0.0033	<0.0039	<0.0041	<0.0036	0.0064	<0.0036	0.0059	<0.0034	<0.0031	<0.0046	<0.0021	<0.0027	<0.0031	--	--	<0.0033	<0.0037	<0.0028	0.0062	<0.0037	<0.0030	<0.0040
1,2,4-Trimethylbenzene	mg/kg	<0.0047	<0.0036	<0.0033	<0.0039	<0.0041	<0.0036	<0.0033	<0.0036	<0.0034	<0.0034	<0.0031	<0.0046	<0.0021	<0.0027	<0.0031	--	--	<0.0033	<0.0037	<0.0028	<0.0025	<0.0037	<0.0030	<0.0040
1,2-Dibromo-3-Chloropropane	mg/kg	<0.0047	<0.0036	<0.0033	<0.0039	<0.0041	<0.0036	<0.0033	<0.0036	<0.0034	<0.0034	<0.0031	<0.0046	<0.0021	<0.0027	<0.0031	--	--	<0.0033	<0.0037	<0.0028	<0.0025	<0.0037	<0.0030	<0.0040
1,2-Dibromoethane	mg/kg	<0.0047	<0.0036	<0.0033	<0.0039	<0.0041	<0.0036	<0.0033	<0.0036	<0.0034	<0.0034	<0.0031	<0.0046	<0.0021	<0.0027	<0.0031	--	--	<0.0033	<0.0037	<0.0028	<0.0025	<0.0037	<0.0030	<0.0040
1,2-Dichlorobenzene	mg/kg	<0.0047	<0.0036	<0.0033	<0.0039	<0.0041	<0.0036	<0.0033	<0.0036	<0.0034	<0.0034	<0.0031	<0.0046	<0.0021	<0.0027	<0.0031	--	--	<0.0033	<0.0037	<0.0028	<0.0025	<0.0037	<0.0030	<0.0040
1,2-Dichloroethane	mg/kg	<0.0047	<0.0036	<0.0033	<0.0039	<0.0041	<0.0036	<0.0033	<0.0036	<0.0034	<0.0034	<0.0031	<0.0046	<0.0021	<0.0027	<0.0031	--	--	<0.0033	<0.0037	<0.0028	<0.0025	<0.0037	<0.0030	<0.0040
1,2-Dichloropropane	mg/kg	<0.0047	<0.0036	<0.0033	<0.0039	<0.0041	<0.0036	<0.0033	<0.0036	<0.0034	<0.0034	<0.0031	<0.0046	<0.0021	<0.0027	<0.0031	--	--	<0.0033	<0.0037	<0.0028	<0.0025	<0.0037	<0.0030	<0.0040
1,3,5-Trimethylbenzene	mg/kg	<0.0047	<0.0036	<0.0033	<0.0039	<0.0041	<0.0036	<0.0033	<0.0036	<0.0034	<0.0034	<0.0031	<0.0046	<0.0021	<0.0027	<0.0031	--	--	<0.0033	<0.0037	<0.0028	<0.0025	<0.0037	<0.0030	<0.0040
1,3-Dichlorobenzene	mg/kg	<0.0047	<0.0036	<0.0033	<0.0039	<0.0041	<0.0036	<0.0033	<0.0036	<0.0034	<0.0034	<0.0031	<0.0046	<0.0021	<0.0027	<0.0031	--	--	<0.0033	<0.0037	<0.0028	<0.0025	<0.0037	<0.0030	<0.0040
1,3-Dichloropropane	mg/kg	<0.0047	<0.0036	<0.0033	<0.0039	<0.0041	<0.0036	<0.0033	<0.0036	<0.0034	<0.0034	<0.0031	<0.0046	<0.0021	<0.0027	<0.0031	--	--	<0.0033	<0.0037	<0.0028	<0.0025	<0.0037	<0.0030	<0.0040
1,4-Dichlorobenzene	mg/kg	<0.0047	<0.0036	<0.0033	<0.0039	<0.0041	<0.0036	<0.0033	<0.0036	<0.0034	<0.0034	<0.0031	<0.0046	<0.0021	<0.0027	<0.0031	--	--	<0.0033	<0.0037	<0.0028	<0.0025	<0.0037	<0.0030	<0.0040
1,4-Dioxane	mg/kg	<0.0931	<0.0723	<0.0655	<0.0781	<0.0811	<0.0729	<0.0667	<0.0710	<0.0689	<0.0675	<0.0627	<0.0915	<0.0427	<0.0532	<0.0623	--	--	<0.0668	<0.0749	<0.0554	<0.0502	<0.0747	<0.0609	<0.0806
2,2-Dichloropropane	mg/kg	<0.0047	<0.0036	<0.0033	<0.0039	<0.0041	<0.0036	<0.0033	<0.0036	<0.0034	<0.0034	<0.0031	<0.0046	<0.0021	<0.0027	<0.0031	--	--	<0.0033	<0.0037	<0.0028	<0.0025	<0.0037	<0.0030	<0.0040
2-Butanone	mg/kg	<0.0093	<0.0072	<0.0065	<0.0078	0.015	<0.0073	<0.0067	<0.0071	<0.0069	<0.0067	<0.0063	<0.0091	0.0063	<0.0053	<0.0062	--	--	<0.0067	<0.0075	<0.0055	<0.0050	<0.0075	<0.0061	<0.0081
2-Chlorotoluene	mg/kg	<0.0047	<0.0036	<0.0033	<0.0039	<0.0041	<0.0036	<0.0033	<0.0036	<0.0034	<0.0034	<0.0031	<0.0046	<0.0021	<0.0027	<0.0031	--	--	<0.0033	<0.0037	<0.0028	<0.0025	<0.0037	<0.0030	<0.0040
2-Hexanone	mg/kg	<0.0093	<0.0072	<0.0065	<0.0078	<0.0081	<0.0073	<0.0067	<0.0071	<0.0069	<0.0067	<0.0063	<0.0091	<0.0043	<0.0053	<0.0062	--	--	<0.0067	<0.0075	<0.0055	<0.0050	<0.0075	<0.0061	<0.0081
4-Chlorotoluene	mg/kg	<0.0047	<0.0036	<0.0033	<0.0039	<0.0041	<0.0036	<0.0033	<0.0036	<0.0034	<0.0034	<0.0031	<0.0046	<0.0021	<0.0027	<0.0031	--	--	<0.0033	<0.0037	<0.0028	<0.0025	<0.0037	<0.0030	<0.0040
4-Isopropyltoluene	mg/kg	<0.0047	<0.0036	<0.0033	<0.0039	<0.0041	<0.0036	<0.0033	<0.0036	<0.0034	<0.0034	<0.0031	<0.0046	0.0025	<0.0027	<0.0031	--	--	<0.0033	<0.0037	<0.0028	<0.0025	<0.0037	<0.0030	<0.0040
4-Methyl-2-Pentanone	mg/kg	<0.0093	<0.0072	<0.0065	<0.0078	<0.0081	<0.0073	<0.0067	<0.0071	<0.0069	<0.0067	<0.0063	<0.0091	<0.0043	<0.0053	<0.0062	--	--	<0.0067	<0.0075	<0.0055	<0.0050	<0.0075	<0.0061	<0.0081
Acetone	mg/kg	0.0122	<0.0072	<0.0065	0.0296	0.0859	0.0242	0.0131	<0.0071	0.0081	0.0085	0.0164	<0.0091	0.0797	0.0275	0.0284	--	--	0.0708	<0.0075	<0.0055	<0.0050	<0.0075	0.009	0.0567
Benzene	mg/kg	<0.0047	<0.0036	<0.0033	<0.0039	<0.0041	<0.0036	<0.0033	<0.0036	<0.0034	<0.0034	<0.0031	<0.0046	<0.0021	<0.0027	<0.0031	--	--	<0.0033	<0.0037	<0.0028	<0.0025	<0.0037	<0.0030	0.0168
Bromobenzene	mg/kg	<0.0047	<0.0036	<0.0033	<0.0039	<0.0041	<0.0036	<0.0033	<0.0036	<0.0034	<0.0034	<0.0031	<0.0046	<0.0021	<0.0027	<0.0031	--	--	<0.0033	<0.0037	<0.0028	<0.0025	<0.0037	<0.0030	<0.0040
Bromochloromethane	mg/kg	<0.0047	<0.0036	<0.0033	<0.0039	<0.0041	<0.0036	<0.0033	<0.0036	<0.0034	<0.0034	<0.0031	<0.0046	<0.0021	<0.0027	<0.0031	--	--	<0.0033	<0.0037	<0.0028	<0.0025	<0.0037	<0.0030	<0.0040
Bromodichloromethane	mg/kg	<0.0047	<0.0036	<0.0033	<0.0039	<0.0041	<0.0036	<0.0033	<0.0036	<0.0034	<0.0034	<0.0031	<0.0046	<0.0021	<0.0027	<0.0031	--	--	<0.0033	<0.0037	<0.0028	<0.0025	<0.0037	<0.0030	<0.0040
Bromoform	mg/kg	<0.0047	<0.0036	<0.0033	<0.0039	<0.0041	<0.0036	<0.0033	<0.0036	<0.0034	<0.0034	<0.0031	<0.0046	<0.0021	<0.0027	<0.0031	--	--	<0.0033	<0.0037	<0.0028	<0.0025	<0.0037	<0.0030	<0.0040
Bromomethane	mg/kg	<0.0093	<0.0072	<0.0065	<0.0078	<0.0081	<0.0073	<0.0067	<0.0071	<0.0069	<0.0067	<0.0063	<0.0091	<0.0043	<0.0053	<0.0062	--	--	<0.0067	<0.0075	<0.0055	<0.0050	<0.0075	<0.0061	<0.0081
Carbon Disulfide	mg/kg	<0.0047	<0.0036	<0.0033	<0.0039	<0.0041	<0.0036	<0.0033	<0.0036	<0.0034	<0.0034	<0.0031	<0.0046	<0.0021	<0.0027	<0.0031	--	--	<0.0033	<0.0037	<0.0028	<0.0025	<0.0037	<0.0030	<0.0040
Carbon Tetrachloride	mg/kg	<0.0047	<0.0036	<0.0033	<0.0039	<0.0041	<0.0036	<0.0033	<0.0036	<0.0034	<0.0034	<0.0031	<0.0046	<0.0021	<0.0027	<0.0031	--	--	<0.0033	<0.0037	<0.0028	<0.0025	<0.0037	<0.0030	<0.0040
Chlorobenzene	mg/kg	<0.0047	<0.0036	<0.0033	<0.0039	<0.0041	<0.0036	<0.0033	<0.0036	<0.0034	<0.0034	<0.0031	<0.0046	<0.0021	<0.0027	<0.0031	--	--	<0.0033	<0.0037	<0.0028	<0.0025	<0.0037	<0.0030	<0.0040
Chloroethane	mg/kg	<0.0093	<0.0072	<0.0065	<0.0078	<0.0081	<0.0073	<0.0067	<0.0071	<0.0069	<0.0067	<0.0063	<0.0091	<0.0043	<0.0053	<0.0062	--	--	<0.0067	<0.0075	<0.0055	<0.0050	<0.0075	<0.0061	<0.0081
Chloroform	mg/kg	<0.0047	<0.0036	<0.0033	<0.0039	<0.0041	<0.0036	<0.0033	<0.0036	<0.0034	<0.0034	<0.0031	<0.0046	<0.0021	<0.0027	<0.0031	--	--	<0.0033	<0.0037	<0.0028	<0.0025	<0.0037	<0.0030	<0.0040
Chloromethane	mg/kg	<0.0093	<0.0072	<0.0065	<0.0078	<0.0081	<0.0073	<0.0067	<0.0071	<0.0069	<0.0067	<0.0063	<0.0091	<0.0043	<0.0053	<0.0062	--	--	<0.0067	<0.0075	<0.0055	<0.0050	<0.0075	<0.0061	<0.0081
cis-1,2-Dichloroethene	mg/kg	<0.0047	<0.0036	<0.0033	<0.0039	<0.0041	<0.0036	<0.0033	<0.0036	<0.0034	<0.0034	<0.0031	<0.0046	<0.0021	<0.0027	<0.0031	--	--	<0.0033	<0.0037	<0.0028	<0.0025	<0.0037	<0.0030	<0.0040
cis-1,3-Dichloropropene	mg/kg	<0.0047	<0.0036	<0.0033	<0.0039	<0.0041	<0.0036	<0.0033	<0.0036	<0.0034	<0.0034	<0.0031	<0.0046	<0.0021	<0.0027	<0.0031	--	--	<0.0033	<0.0037	<0.0028	<0.0025	<0.0037	<0.0030	<0.0040
Dibromochloromethane	mg/kg	<0.0019	<0.0014	<0.0013	<0.0016	<0.0016	<0.0015	<0.0013	<0.0014	<0.0014	<0.0013	<0.0013	<0.0018	<0.0009	<0.0011	<0.0012	--	--	<0.0013	<0.0015	<0.0011	<0.0010	<0.0015	<0.0012	<0.0016
Dibromomethane	mg/kg	<0.0047	<0.0036	<0.0033	<0.0039	<0.0041	<0.0036	<0.0033	<0.0036	<0.0034	<0.0034	<0.0031	<0.0046	<0.0021	<0.0027	<0.0031	--	--	<0.0033	<0.0037	<0.0028	<0.0025	<0.0037	<0.0030	<0.0040
Dichlorodifluoromethane	mg/kg	<0.0093	<0.0072	<0.0065	<0.0078	<0.0081	<0.0073	<0.0067	<0.0071	<0.0069	<0.0067	<0.0063	<0.0091	<0.0043	<0.0053	<0.0062	--	--	<0.0067	<0.0075	<0.0055	<0.0050	<0.0075	<0.0061	<0.0081
Diethyl Ether	mg/kg	<0.0047	<0.0036	<0.0033	<0.0039	<0.0041	<0.0036	<0.0033	<0.0036	<0.0034	<0.0034	<0.0031	<0.0046	<0.0021	<0.0027	<0.0031	--	--	<0.0033	<0.0037	<0.0028	<0.0025	<0.0037	<0.0030	<0.0040
Di-isopropyl ether	mg/kg	<0.0047	<0.0036	<0.0033	<0.0039	<0.0041	<0.0036	<0.0033	<0.0036	<0.0034	<0.0034	<0.0031	<0.0046	<0.0021	<0.0027	<0.0031	--	--	<0.0033	<0.0037	<0.0028	<0.0025	<0.0037	<0.0030	<0.0040
Ethyl tertiary-butyl ether	mg/kg	<0.0047	<0.0036	<0.0033	<0.0039	<0.0041	<0.0036	<0.0033	<0.0036	<0.0034	<0.0034	<0.0031	<0.0046	<0.0021	<0.0027	<0.0031	--	--	<0.0033	<0.0037	<0.0028	<0.0025	<0.0037	<0.0030	<0.0040
Ethylbenzene	mg/kg	<0.0047	<0.0036	<0.0033	<0.0039	<0.0041	<0.0036	<0.0033	<0.0036	<0.0034	<0.0034	<0.0031	<0.0046	<0.0021	<0.0027	<0.0031	--	--	<0.0033	<0.0037	<0.0028	<0.0025	<0.0037	<0.0030	<0.0040
Hexachlorobutadiene	mg/kg	<0.0047	<0.0036	<0.0033	<0.0039	<0.0041	<0.0036	<0.0033	<0.0036	<0.0034	<0.0034	<0.0031	<0.0046	<0.0021	<0.0027	<0.0031	--	--	<0.0033	<0.0037	<0.0028	<0.0025	<0.0037	<0.0030	<0.0040
Isopropylbenzene	mg/kg	<0.0047	<0.0036	<0.0033	<0.0039	<0.0041	<0.0036	<0.0033	<0.0036	<0.0034	<0.0034	<0.0031	<0.0046	<0.0021	<0.0027	<0.0031	--	--	<0.0033	<0.0037	<0.0028	<0.0025	<0.0037	<0.0030	<0.0040
Methyl tert-Butyl Ether	mg/kg	<0.0047	<0.0036	<0.0033	<0.0039	<0.0041	<0.0036	<0.0033	<0.0036	<0.0034	<0.0034	<0.0031	<0.0046	<0.0021	<0.0027	<0.0031	--	--	<0.0033	<0.0037	<0.0028	<0.0025	<0.0037	<0.0030	<0.0040
Methylene Chloride	mg/kg	<0.0093	<0.0072	<0.0065	<0.0078	<0.0081	<0.0073	<0.0067	<0.0071	<0.0069	<0.0067	<0.0063	<0.0091	<0.0043	<0.0053	<0.0062	--	--	<0.0067	<0.0075	<0.0055	<0.0050	<0.0075	<0.0061	<0.0081
Naphthalene	mg/kg	<0.0047	<0.0036	<0.0033	<0.0039	<0.0041	<0.0036	<0.0033	<0.0036	<0.0034	<0.0034	<0.0031	<0.0046	<0.0021	<0.0027	0.014	--	--	<0.0033	<0.0037	<0.0028	<0.0025	<0.0037	<0.0030	<0.0040
n-Butylbenzene	mg/kg	<0.0047	<0.0036	<0.0033	<0.0039	<0.0041	<0.0036	<0.0033	<0.0036	<0.0034	<0.0034	<0.0031	<0.0046	<0.0021	<0.0027	<0.0031	--	--	<0.0033	<0.0037	<0.0028	<0.0025	<0.0037	<0.0030	<0.0040
n-Propylbenzene	mg/kg	<0.0047	<0.0036	<0.0033	<0.0039	<0.0041	<0.0036	<0.0033	<0.0036	<0.0034	<0.0034	<0.0031	<0.0046	<0.0021	<0.0027	<0.0031	--	--	<0.0033	<0.0037	<0.0028	<0.0025	<0.0037	<0.0030	<0.0040
sec-Butylbenzene	mg/kg	<0.0047	<0.0036	<0.0033	<0.0039	<0.0041	<0.0036	<0.0033	<0.0036	<0.0034	<0.0034	<0.0031	<0.0046	<0.0021	<0.0027	<0.0031	--	--	<0.0033	<0.0037	<0.0028	<0.0025	<0.0037	<0.0030	<0.0040

Table 1
Soil Precharacterization Data

Wynn Resort Casino
Everett, Massachusetts

Analyte	Precharacterization Cell	F11	F12	F12	F12	F12	F12	F12	F12	F12	F12	F13	F13	F13	F13	F13	F13	F13	F13	F13	F14	F14	F14	F14
	Sample ID	F11S13S14	F12S01S02A	F12S02B503	F12S05S06	F12S07	F12S08	F12S09	F12S10	F12S11	F12S12S13	F13S01S02A	F13S02BS04A	F13S04BS05	F13S06S07A	F13S07B	F13S08	F13S09	F13S10	F13S11	F13S12	F13S13S14	F14S01S02	F14S03S04A	F14S04BS05
	Laboratory Work Order	1503211	1501393	1501393	1501393	1501393	1501393	1501393	1501393	1501393	1501393	1502102	1502102	1502102	1502102	1502102	1502141	1502141	1502141	1502141	1502141	1502141	1501359	1501359	1501359
	Soil Distinction	Natural	Fill	Fill	Fill	Natural	Clay	Natural	Natural	Natural	Natural	Fill	Fill	Fill	Fill	Fill	Fill	Natural	Natural	Natural	Natural	Natural	Sand/Gravel	Fill	Fill	Fill
	Soil Type	Sand/Gravel				Clay	Clay	Clay	Sand/Gravel	Sand/Gravel	Sand/Gravel							Sand/Gravel	Clay	Sand/Gravel	Sand/Gravel	Sand/Gravel				
	Depth Interval (ft.)	34 - 38	0 - 3.3	3.3 - 5.7	7 - 10	10 - 12	14 - 16	19 - 21	24 - 26	29 - 31	34 - 38	0 - 3.3	3.3 - 6.6	6.6 - 10	10 - 13.3	13.3 - 14	14 - 16	16 - 18	19 - 21	24 - 26	29 - 31	34 - 38	0 - 2.8	4 - 6.6	6.6 - 10
	Sampling Date	3/11/2015	1/20/2015	1/20/2015	1/20/2015	1/20/2015	1/20/2015	1/20/2015	1/20/2015	1/20/2015	1/20/2015	2/6/2015	2/6/2015	2/6/2015	2/6/2015	2/6/2015	2/11/2015	2/11/2015	2/11/2015	2/11/2015	2/11/2015	2/11/2015	1/19/2015	1/19/2015	1/19/2015
Preliminary Disposal Facility Category		MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Uncontaminated	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type B-1	MCP Regulated Type A	Uncontaminated	MCP Restricted	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A
Styrene	mg/kg	<0.0047	<0.0036	<0.0033	<0.0039	<0.0041	<0.0036	<0.0033	<0.0036	<0.0034	<0.0034	<0.0031	<0.0046	<0.0021	<0.0027	<0.0031	--	--	<0.0033	<0.0037	<0.0028	<0.0025	<0.0037	<0.0030	<0.0040
tert-Butylbenzene	mg/kg	<0.0047	<0.0036	<0.0033	<0.0039	<0.0041	<0.0036	<0.0033	<0.0036	<0.0034	<0.0034	<0.0031	<0.0046	<0.0021	<0.0027	<0.0031	--	--	<0.0033	<0.0037	<0.0028	<0.0025	<0.0037	<0.0030	<0.0040
Tertiary-amyl methyl ether	mg/kg	<0.0047	<0.0036	<0.0033	<0.0039	<0.0041	<0.0036	<0.0033	<0.0036	<0.0034	<0.0034	<0.0031	<0.0046	<0.0021	<0.0027	<0.0031	--	--	<0.0033	<0.0037	<0.0028	<0.0025	<0.0037	<0.0030	<0.0040
Tetrachloroethene	mg/kg	<0.0047	<0.0036	<0.0033	<0.0039	<0.0041	<0.0036	<0.0033	<0.0036	<0.0034	<0.0034	<0.0031	<0.0046	<0.0021	<0.0027	<0.0031	--	--	<0.0033	<0.0037	<0.0028	<0.0025	<0.0037	<0.0030	<0.0040
Tetrahydrofuran	mg/kg	<0.0047	<0.0036	<0.0033	<0.0039	<0.0041	<0.0036	<0.0033	<0.0036	<0.0034	<0.0034	<0.0031	<0.0046	<0.0021	<0.0027	<0.0031	--	--	<0.0033	<0.0037	<0.0028	<0.0025	<0.0037	<0.0030	<0.0040
Toluene	mg/kg	<0.0047	<0.0036	<0.0033	<0.0039	<0.0041	<0.0036	<0.0033	<0.0036	<0.0034	<0.0034	<0.0031	<0.0046	<0.0021	<0.0027	<0.0031	--	--	<0.0033	<0.0037	<0.0028	<0.0025	<0.0037	<0.0030	<0.0040
trans-1,2-Dichloroethene	mg/kg	<0.0047	<0.0036	<0.0033	<0.0039	<0.0041	<0.0036	<0.0033	<0.0036	<0.0034	<0.0034	<0.0031	<0.0046	<0.0021	<0.0027	<0.0031	--	--	<0.0033	<0.0037	<0.0028	<0.0025	<0.0037	<0.0030	<0.0040
trans-1,3-Dichloropropene	mg/kg	<0.0047	<0.0036	<0.0033	<0.0039	<0.0041	<0.0036	<0.0033	<0.0036	<0.0034	<0.0034	<0.0031	<0.0046	<0.0021	<0.0027	<0.0031	--	--	<0.0033	<0.0037	<0.0028	<0.0025	<0.0037	<0.0030	<0.0040
Trichloroethene	mg/kg	<0.0047	<0.0036	<0.0033	<0.0039	<0.0041	<0.0036	<0.0033	<0.0036	<0.0034	<0.0034	<0.0031	<0.0046	<0.0021	<0.0027	<0.0031	--	--	<0.0033	<0.0037	<0.0028	<0.0025	<0.0037	<0.0030	<0.0040
Trichlorofluoromethane	mg/kg	<0.0047	<0.0036	<0.0033	<0.0039	<0.0041	<0.0036	<0.0033	<0.0036	<0.0034	<0.0034	<0.0031	<0.0046	<0.0021	<0.0027	<0.0031	--	--	<0.0033	<0.0037	<0.0028	<0.0025	<0.0037	<0.0030	<0.0040
Vinyl Chloride	mg/kg	<0.0093	<0.0072	<0.0065	<0.0078	<0.0081	<0.0073	<0.0067	<0.0071	<0.0069	<0.0067	<0.0063	<0.0091	<0.0043	<0.0053	<0.0062	--	--	<0.0067	<0.0075	<0.0055	<0.0050	<0.0075	<0.0061	<0.0081
Xylene O	mg/kg	<0.0047	<0.0036	<0.0033	<0.0039	<0.0041	<0.0036	<0.0033	<0.0036	<0.0034	<0.0034	<0.0031	<0.0046	<0.0021	<0.0027	<0.0031	--	--	<0.0033	<0.0037	<0.0028	<0.0025	<0.0037	<0.0030	<0.0040
Xylene P,M	mg/kg	<0.0093	<0.0072	<0.0065	<0.0078	<0.0081	<0.0073	<0.0067	<0.0071	<0.0069	<0.0067	<0.0063	<0.0091	<0.0043	<0.0053	<0.0062	--	--	<0.0067	<0.0075	<0.0055	<0.0050	<0.0075	<0.0061	<0.0081
Xylenes (Total)	mg/kg	<0.0093	<0.0072	<0.0065	<0.0078	<0.0081	<0.0073	<0.0067	<0.0071	<0.0069	<0.0067	<0.0063	<0.0091	<0.0043	<0.0053	<0.0062	--	--	<0.0067	<0.0075	<0.0055	<0.0050	<0.0075	<0.0061	<0.0081
Total VOCs (Low Level)	mg/kg	0.0122	ND	ND	0.0296	0.1009	0.0242	0.025	ND	0.014	0.0085	0.0164	ND	0.0885	0.0275	0.0424	--	--	0.0708	ND	ND	ND	0.0062	ND	0.009	0.0735
Semi-Volatile Organic Compounds																									
1,2,4-Trichlorobenzene	mg/kg	<0.965	<0.865	<0.867	<0.979	<1.02	<0.998	<1.04	<0.906	<0.896	<0.939	<0.860	<0.874	<0.886	<0.942	<1.01	<0.989	<1.02	<1.02	<0.979	<1.02	<0.887	<0.806	<0.836	<0.922
1,2-Dichlorobenzene	mg/kg	<0.965	<0.865	<0.867	<0.979	<1.02	<0.998	<1.04	<0.906	<0.896	<0.939	<0.860	<0.874	<0.886	<0.942	<1.01	<0.989	<1.02	<1.02	<0.979	<1.02	<0.887	<0.806	<0.836	<0.922
1,3-Dichlorobenzene	mg/kg	<0.965	<0.865	<0.867	<0.979	<1.02	<0.998	<1.04	<0.906	<0.896	<0.939	<0.860	<0.874	<0.886	<0.942	<1.01	<0.989	<1.02	<1.02	<0.979	<1.02	<0.887	<0.806	<0.836	<0.922
1,4-Dichlorobenzene	mg/kg	<0.484	<0.434	<0.435	<0.491	<0.509	<0.501	<0.520	<0.455	<0.449	<0.471	<0.431	<0.438	<0.444	<0.472	<0.508	<0.496	<0.511	<0.512	<0.491	<0.511	<0.445	<0.404	<0.419	<0.462
2,4,5-Trichlorophenol	mg/kg	<0.965	<0.865	<0.867	<0.979	<1.02	<0.998	<1.04	<0.906	<0.896	<0.939	<0.860	<0.874	<0.886	<0.942	<1.01	<0.989	<1.02	<1.02	<0.979	<1.02	<0.887	<0.806	<0.836	<0.922
2,4,6-Trichlorophenol	mg/kg	<0.965	<0.865	<0.867	<0.979	<1.02	<0.998	<1.04	<0.906	<0.896	<0.939	<0.860	<0.874	<0.886	<0.942	<1.01	<0.989	<1.02	<1.02	<0.979	<1.02	<0.887	<0.806	<0.836	<0.922
2,4-Dichlorophenol	mg/kg	<0.965	<0.865	<0.867	<0.979	<1.02	<0.998	<1.04	<0.906	<0.896	<0.939	<0.860	<0.874	<0.886	<0.942	<1.01	<0.989	<1.02	<1.02	<0.979	<1.02	<0.887	<0.806	<0.836	<0.922
2,4-Dimethylphenol	mg/kg	<0.965	<0.865	<0.867	<0.979	<1.02	<0.998	<1.04	<0.906	<0.896	<0.939	<0.860	<0.874	<0.886	<0.942	<1.01	<0.989	<1.02	<1.02	<0.979	<1.02	<0.887	<0.806	<0.836	<0.922
2,4-Dinitrophenol	mg/kg	<4.84	<4.34	<4.35	<4.91	<5.09	<5.01	<5.20	<4.55	<4.49	<4.71	<4.31	<4.38	<4.44	<4.72	<5.08	<4.96	<5.11	<5.12	<4.91	<5.11	<4.45	<4.04	<4.19	<4.62
2,4-Dinitrotoluene	mg/kg	<0.965	<0.865	<0.867	<0.979	<1.02	<0.998	<1.04	<0.906	<0.896	<0.939	<0.860	<0.874	<0.886	<0.942	<1.01	<0.989	<1.02	<1.02	<0.979	<1.02	<0.887	<0.806	<0.836	<0.922
2,6-Dinitrotoluene	mg/kg	<0.965	<0.865	<0.867	<0.979	<1.02	<0.998	<1.04	<0.906	<0.896	<0.939	<0.860	<0.874	<0.886	<0.942	<1.01	<0.989	<1.02	<1.02	<0.979	<1.02	<0.887	<0.806	<0.836	<0.922
2-Chloronaphthalene	mg/kg	<0.965	<0.865	<0.867	<0.979	<1.02	<0.998	<1.04	<0.906	<0.896	<0.939	<0.860	<0.874	<0.886	<0.942	<1.01	<0.989	<1.02	<1.02	<0.979	<1.02	<0.887	<0.806	<0.836	<0.922
2-Chlorophenol	mg/kg	<0.965	<0.865	<0.867	<0.979	<1.02	<0.998	<1.04	<0.906	<0.896	<0.939	<0.860	<0.874	<0.886	<0.942	<1.01	<0.989	<1.02	<1.02	<0.979	<1.02	<0.887	<0.806	<0.836	<0.922
2-Methylnaphthalene	mg/kg	<0.965	<0.865	<0.867	<0.979	<1.02	<0.998	<1.04	<0.906	<0.896	<0.939	<0.860	<0.874	<0.886	<0.942	3.03	3.39	1.08	<1.02	<0.979	<1.02	<0.887	<0.806	<0.836	<0.922
2-Methylphenol	mg/kg	<0.965	<0.865	<0.867	<0.979	<1.02	<0.998	<1.04	<0.906	<0.896	<0.939	<0.860	<0.874	<0.886	<0.942	<1.01	<0.989	<1.02	<1.02	<0.979	<1.02	<0.887	<0.806	<0.836	<0.922
2-Nitrophenol	mg/kg	<0.965	<0.865	<0.867	<0.979	<1.02	<0.998	<1.04	<0.906	<0.896	<0.939	<0.860	<0.874	<0.886	<0.942	<1.01	<0.989	<1.02	<1.02	<0.979	<1.02	<0.887	<0.806	<0.836	<0.922
3,3'-Dichlorobenzidine	mg/kg	<1.93	<1.73	<1.74	<1.96	<2.03	<2.00	<2.08	<1.82	<1.79	<1.88	<1.72	<1.75	<1.78	<1.89	<2.03	<1.98	<2.04	<2.05	<1.96	<2.04	<1.78	<1.61	<1.67	<1.85
3+4-Methylphenol	mg/kg	<1.93	<1.73	<1.74	<1.96	<2.03	<2.00	<2.08	<1.82	<1.79	<1.88	<1.72	<1.75	<1.78	<1.89	<2.03	<1.98	<2.04	<2.05	<1.96	<2.04	<1.78	<1.61	<1.67	<1.85
4-Bromophenyl-phenylether	mg/kg	<0.965	<0.865	<0.867	<0.979	<1.02	<0.998	<1.04	<0.906	<0.896	<0.939	<0.860	<0.874	<0.886	<0.942	<1.01	<0.989	<1.02	<1.02	<0.979	<1.02	<0.887	<0.806	<0.836	<0.922
4-Chloroaniline	mg/kg	<1.93	<1.73	<1.74	<1.96	<2.03	<2.00	<2.08	<1.82	<1.79	<1.88	<1.72	<1.75	<1.78	<1.89	<2.03	<1.98	<2.04	<2.05	<1.96	<2.04	<1.78	<1.61	<1.67	<1.85
4-Nitrophenol	mg/kg	<4.84	<4.34	<4.35	<4.91	<5.09	<5.01	<5.20	<4.55	<4.49	<4.71	<4.31	<4.38	<4.44	<4.72	<5.08	<4.96	<5.11	<5.12	<4.91	<5.11	<4.45	<4.04	<4.19	<4.62
Acenaphthene	mg/kg	<0.965	<0.865	<0.867	<0.979	<1.02	<0.998	<1.04	<0.906	<0.896	<0.939	<0.860	<0.874	1.66	<0.942	10.1	<0.989	<1.02	<1.02	<0.979	<1.02	<0.887	<0.806	<0.836	<0.922
Acenaphthylene	mg/kg	<0.965	<0.865	<0.867	<0.979	<1.02	<0.998	<1.04	<0.906	<0.896	<0.939	<0.860	<0.874	<0.886	<0.942	<1.01	<0.989	<1.02	<1.02	<0.979	<1.02	<0.887	<0.806	<0.836	<0.922
Acetophenone	mg/kg	<1.93	<1.73	<1.74	<1.96	<2.03	<2.00	<2.08	<1.82	<1.79	<1.88	<1.72	<1.75	<1.78	<1.89	<2.03	<1.98	<2.04	<2.05	<1.96	<2.04	<1.78	<1.61	<1.67	<1.85
Aniline	mg/kg	<4.84	<4.34	<4.35	<4.91	<5.09	<5.01	<5.20	<4.55	<4.49	<4.71	<4.31	<4.38	<4.44	<4.72	<5.08	<4.96	<5.11	<5.12	<4.91	<5.11	<4.45	<4.04	<4.19	<4.62
Anthracene	mg/kg	<0.965	<0.865	<0.867	<0.979	<1.02	<0.998	<1.04	<0.906	<0.896	<0.939	<0.860	<0.874	3.47	2	11.9	<0.989	<1.02	<1.02	<0.979	<1.02	<0.887	<0.806	<0.836	<0.922
Azobenzene	mg/kg	<0.965	<0.865	<0.867	<0.979	<1.02	<0.998	<1.04	<0.906	<0.896	<0.939	<0.860	<0.874	<0.886	<0.942	<1.01	<0.989	<1.02	<1.02	<0.979	<1.02	<0.887	<0.806	<0.836	<0.922
Benzo(a)anthracene	mg/kg	<0.965	<0.865	<0.867	<0.979	<1.02	<0.998	<1.04	<0.906	<0.896	<0.939	<0.860	<0.874	6.61	4.07	21	<0.989	<1.02	<1.02	<0.979	<1.02	<0.887	<0.806	<0.836	<0.922
Benzo(a)pyrene	mg/kg	<0.484	<0.434	<0.435	<0.491	<0.509	<0.501	<0.520	<0.455	<0.449	<0.471	<0.431	<0.438	5.78	3.63	16.9	<0.496	<0.511	<0.512	<0.491	<0.511	<0.445	<0.404	<0.419	<0.462
Benzo(b)fluoranthene	mg/kg	<0.965	<0.865	<0.867	<0.979	<1.02	<0.998	<1.04	<0.906	<0.896	<0.939	<0.860	<0.874	6.24	4.09	21.1	<0.989	<1.02	<1.02	<0.979	<1.02	<0.887	<0.806	<0.836	<0.922
Benzo(g,h,i)perylene	mg/kg	<0.965	<0.865	<0.867	<0.979	<1.02	<0.998	<1.04	<0.906	<0.896	<0.939	<0.860	<0.874	1.96	1.23	3.63	<0.989	<1.02	<1.02	<0.979	<1.02	<0.887	<0.806	<0.836	<0.922
Benzo(k)fluoranthene	mg/kg	<0.965	<0.865	<0.867	<0.979	<1.02	<0.998	<1.04	<0.906	<0.896	<0.939	<0.860	<0.874	2.64	1.7	4.8	<0.989	<1.02	<1.02	<0.979	<1.02	<0.887	<0.806	<0.836	<0.922
bis(2-Chloroethoxy)methane	mg/kg	<0.965	<0.865	<0.867	<0.979	<1.02	<0.998	<1.04	<0.906	<0.896	<0.939	<0.860	<0.874	<0.886	<0.942	<1.01	<0.989	<1.02	<1.02	<0.979	<1.02	<0.887	<0.806	<0.836	<0.922
bis(2-Chloroethyl)ether	mg/kg	<0.484	<0.434	<0.435	<0.491	<0.509	<0.501	<0.520	<0.455	<0.449	<0.471	<0.431	<0.438	<0.444	<0.472	<0.508	<0.496	<0.511	<0.512	<0.491	<0.511	<0.445	<0.404	<0.419	<0.462
bis(2-chloroisopropyl)Ether	mg/kg	<0.484	<0.434	<0.435	<0.491	<0.509	<0.501	<0.520	<0.455	<0.449	<0.471	<0.431	<0.438	<0.444	<0.472	<0.508	<0.496	<0.511	<0.512	<0.491	<0.511	<0.445	<0.404	<0.419	<0.462
bis(2-Ethylhexyl)phthalate	mg/kg	<0.965	<0.865	<0.867	<0.979	<1.02	<0.998	<1.04	<0.906	<0.896	<0.939	<0.860	1.28	1.25	<0.942	<1.01	<0.989	<1.02	<1.02	<0.979	<1.02	<0.887	<0.806	<0.836	<0.922
Butylbenzylphthalate	mg/kg	<0.965	<0.865	<0.867	<0.979	<1.02	<0.998	<1.04	<0.906	<0.896	<0.939	<0.860	<0.874	<0.886	<0.942	<1.01	<0.989	<1.02	<1.02	<0.979	<1.02	<0.887	<0.806	<0.836	<0.922
Chrysene	mg/kg	<0.484	<0.434	<0.435	<0.491	<0.509	<0.501	<0.520	<0.455	<0.449	<0.471	<0.431	<0.438	6.3	4.16	22.6	<0.496	<0.511	<0.512	<0.491	<0.511	<0.445	<0.404	<0.419	0.588
Dibenzo(a,h)Anthracene	mg/kg	<0.484	<0.434	<0.435	<0.491	<0.509	<0.501	<0.520	<0.455	<0.449	<0.471	<0.431	<0.438	<0.444	0.619	0.844	<0.496	<0.511	<0.512	<0.491	<0.511	<0.445	<0.404	<0.419	<0.462
Dibenzofuran	mg/kg	<0.965	<0.865	<0.867	<0.979	<1.02	<0.998	<1.04	<0.906	<0.896	<0.939	<0.860	<0.874	0.923	<0.942	4	<0.989	<1.02	<1.02	<0.979	<1.02	<0.887	<0.806	<0.836	<0.922
Diethylphthalate	mg/kg	<0.965	<0.865	<0.867	<0.979	<1.02	<0.998	<1.04	<0.906	<0.896	<0.939	<0.860	<0.874	<0.886	<0.942	<1.01	<0.989	<1.02	<1.02	<0.979	<1.02	<0.887	<0.806	<0.836	<0.922
Dimethylphthalate	mg/kg	<0.965	<0.865	<0.867	<0.979	<1.02	<0.998	<1.04	<0.906	<0.896	<0.939	<0.860	<0.874	<0.886	<0.942	<1.01	<0.989	<1.02	<1.02	<0.979	<1.02	<0.887	<0.806	<0.836	<0.922
Di-n-butylphthalate	mg/kg	<0.965	<0.865	<0.867	<0.979	<1.02	<0.998	<1.04	<0.906	<0.896	<0.939	<0.860	<0.874	<0.886	<0.942	<1.01	<0.989	<1.02	<1.02	<0.979	<1.02	<0.887	<0.806	<0.836	<0.922
Di-n-octylphthalate	mg/kg	<0.965	<0.865	<0.867	<0.979	<1.02	<0.998	<1.04	<0.906	<0.896	<0.939	<0.860	<0.874	<0.886	<0.942	<1.01	<0.989	<1.02	<1.02	<0.979	<1.02	<0.887	<0.806	<0.836	<0.922
Fluoranthene	mg/kg	<0.965	<0.865	<0.867	<0.979	<1.02	<0.998	<1.04	<0.906	<0.896	<0.939	<0.860	<0.874	12.3	8.71	48.4	1.09	<1.02	<1.02	<0.979	<1.02	<0.887	<0.806	<0.836	1.08
Fluorene	mg/kg	<0.965	<0.865	<0.867	<0.979	<1.02	<0.998	<1.04	<0.906	<0.896	<0.939	<0.860	<0.874	1.57	<0.942	9.04	<0.989	<1.02	<1.02	<0.979	<1.02	<0.887	<0.806	<0.836	<0.922
Hexachlorobenzene	mg/kg	<0.484	<0.434	<0.435	<0.491	<0.509	<0.501	<0.520	<0.455	<0.449	<0.471	<0.431	<0.438	<0.444	<0.472	<0.508	<0.496	<0.511	<0.512	<0.491	<0.511	<0.445	<0.404	<0.419	<0.462
Hexachlorobutadiene	mg/kg	<0.965	<0.865	<0.867	<0.979	<1.02	<0.998	<1.04	<0.906	<0.896	<0.939	<0.860	<0.874	<0.886	<0.942	<1.01	<0.989	<1.02	<1.02	<0.979	<1.02	<0.887	<0.806	<0.836	<0.922
Hexachloroethane	mg/kg	<0.965	<0.865	<0.867	<0.979	<1.02	<0.998	<1.04	<0.906	<0.896	<0.939	<0.860	<0.874	<0.886	<0.942	<1.01	<0.989	<1.02	<1.02	<0.979	<1.02	<0.887	<0.806	<0.836	<0.922
Indeno(1,2,3-cd)Pyrene	mg/kg	<0.965	<0.865	<0.867	<0.979	<1.02	<0.998	<1.04	<0.906	<0.896	<0.939	<0.860	<0.874	1.96	1.21	3.51	<0.989	<1.02	<1.02	<0.979	<1.02	<0.887	<0.806	<0.836	<0.922
Isophorone	mg/kg	<0.965	<0.865	<0.867	<0.979	<1.02	<0.998	<1.04	<0.906	<0.896	<0.939	<0.860	<0.874	<0.886	<0.942	<1.01	<0.989	<1.02	<1.02	<0.979	<1.02	<0.887	<0.806	<0.836	<0.922
Naphthalene	mg/kg	<0.965	<0.865	<0.867	<0.979	<1.02	<0.998	<1.04	<0.906	<0.896	<0.939	<0.860	<0.874	<0.886	<0.942	3.25	<0.989	<1.02	<1.02	<0.979	<1.02	<0.887	<0.806	<0.836	<0.922
Nitrobenzene	mg/kg	<0.965	<0.865	<0.867	<0.979	<1.02	<0.998	<1.04	<0.906	<0.896	<0.939	<0.860	<0.874	<0.886	<0.942	<1.01	<0.989	<1.02	<1.02	<0.979	<1.02	<0.887	<0.806	<0.836	<0.922
N-Nitrosodimethylamine	mg/kg	<0.965	<0.865	<0.867	<0.979	<1.02	<0.998	<1.04	<0.906	<0.896	<0.939	<0.860	<0.874	<0.886	<0.942	<1.01	<0.989	<1.02	<1.02	<0.979	<1.02	<0.887	<0.806	<0.836	<0.922
Pentachlorophenol	mg/kg	<4.84	<4.34	<4.35	<4.91	<5.09	<5.01	<5.20	<4.55	<4.49	<4.71	<4.31	<4.38	<4.44	<4.72	<5.08	<4.96	<5.11	<5.12	<4.91	<5.11	<4.45	<4.04	<4.19	<4.62
Phenanthrene	mg/kg	<0.965	<0.865	<0.867	<0.979	<1.02	<0.998	<1.04	<0.906	<0.896	<0.939	<0.860	<0.874	10.5	7.38	63.9	1.85	<1.02	<1.02	<0.979	<1.02	<0.887	<0.806	<0.836	1.19
Phenol	mg/kg	<0.965	<0.865	<0.867	<0.979	<1.02	<0.998	<1.04	<0.906	<0.896	<0.939	<0.860	<0.874	<0.886	<0.942	<1.01	<0.989	<1.02	<1.02	<0.979	<1.02	<0.887	<0.806	<0.836	<0.922
Pyrene	mg/kg	<0.965	<0.865	<0.867	<0.979	<1.02	<0.998	<1.04	<0.906	<0.896	<0.939	<0.860	<0.874	12.9	8.41	53.3	<0.989	<1.02	<1.02	<0.979	<1.02	<0.887	<0.806	<0.836	<0.922
Total SVOCs	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.28	76.063	47.209	301.304	6.33	1.08	ND	ND	ND	ND	ND	ND	2.858
Classic Chemistry																									
Corrosivity (pH)	S.U.	5.08	8.07	8.55	4.93	5.88	5.8	5.16	5.09	4.92	5.23	9.85	9.59	8.25	8.21	8.01	10.8	10.8	5.26	5.87	4.7	4.99	9.53	8.67	7.51
Conductivity	umhos/cm	10	134	137	1630	1220	1180	654	385	289	317	265	182	678	669	450	641	806	1480	507	808	1020	208	1990	1130
Flashpoint	°F	--	>200	>200	>200	--	--	--	--	--	--	>200	>200	>200	>200	>200	>200	--	--	--	--	--	>200	>200	>200
Reactive Cyanide	mg/kg	--	<2.0	<2.0	<2.0	--	--	--	--	--	--	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--	--	--	--	--	<2.0	<2.0	<2.0
Reactive Sulfide	mg/kg	--	<2.0	<2.0	<2.0	--	--	--	--	--	--	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--	--	--	--	--	<2.0	<2.0	<2.0

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	F14 F14S06S07A 1501359 Fill 10 - 12.3 1/19/2015	F14 F14S07BS08 1501359 Natural Clay 12.3 - 16 1/19/2015	F14 F14S09 1501393 Natural Clay 19 - 21 1/20/2015	F14 F14S10 1501393 Natural Clay 24 - 26 1/20/2015	F14 F14S11 1501393 Natural Clay 29 - 31 1/20/2015	F14 F14S12S13 1501393 Natural Clay 34 - 38 1/20/2015	F15 F15S01 1503097 Fill 3 - 5 3/5/2015	F15 GZ011S01S02 1411172 Fill 0 - 3.9 11/7/2014	F15 GZ011S03S05 1411172 Fill 5 - 11 11/7/2014	F15 GZ011S06S07 1411172 Fill 11 - 15 11/7/2014	F15 GZ011S08S10 1411172 Natural Organics 15 - 21 11/7/2014	F15 GZ011S11S13 1411172 Natural Sand/Gravel 24 - 36 11/7/2014	F15 GZ011S14 1411172 See GZ011S14S15 39 - 41 11/7/2014	F15 GZ011S14S15 1411194 Natural Sand/Gravel 39 - 46 11/10/2014	F16 F16S01S02A 1502392 Fill 0 - 3.3 2/26/2015	F16 F16S02BS04A 1502392 Fill 3.3 - 6.6 2/26/2015	F16 F16S04BS05 1502392 Fill 6.6 - 10 2/26/2015	F16 F16S06S07A 1502392 Fill 10 - 13.3 2/26/2015	F16 F16S07BS08 1502392 Fill 13.3 - 16 2/26/2015	F16 F16S09 1502392 Natural Sand/Gravel 16 - 18 2/26/2015	F16 F16S10 1502392 Natural Sand/Gravel 19 - 21 2/26/2015	F16 F16S11 1502392 Natural Sand/Gravel 24 - 26 2/26/2015	F16 F16S12 1502392 Natural Sand/Gravel 29 - 31 2/26/2015	F16 F16S13S14 1502392 Natural Sand/Gravel 34 - 38 2/26/2015
Preliminary Disposal Facility Category		MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Uncontaminated	Hazardous Material Type A	MCP Regulated Type A	Hazardous Material Type B	Hazardous Material Type A	MCP Regulated Type A	Uncontaminated	MCP Regulated Type A	See GZ011S14S15	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	Uncontaminated	MCP Regulated Type A	Uncontaminated
RCRA 8 Metals	**Units**																								
Arsenic	mg/kg	34.8	12.4	22.2	16.6	15.2	13.1	<6.55	5	77.6	54.7	13.7	8.78	--	6.81	12	8.4	33.9	17.9	50	13.3	33.9	10.2	7.61	15.1
Barium	mg/kg	149	93.3	116	22.3	37.5	31.1	15.9	12.3	381	177	13.5	9.74	--	11	26.6	13.8	202	123	109	14.2	12.6	14.6	12.8	18.2
Cadmium	mg/kg	2.24	<1.64	<1.61	<1.65	<1.52	<1.28	<1.31	<0.44	5.61	8.77	4.86	<0.46	--	<0.49	<1.32	<1.29	1.6	<1.48	2.93	3.47	<1.55	<1.48	<1.38	<1.34
Chromium	mg/kg	34.6	56.2	63.8	18.1	25.7	21.8	17.2	15.3	13.9	4.99	15.9	10.6	--	14.4	33.1	20.8	12.5	8.92	6.85	14.1	18	11	22.7	18.8
Lead	mg/kg	1150	18.3	18.5	<16.5	<15.2	<12.8	17.1	5.65	2160	514	25.2	5.04	--	<4.92	43.6	<12.9	786	431	1610	<16.0	35.1	20.1	<13.8	28.7
Selenium	mg/kg	<8.48	<8.22	<8.05	<8.25	<7.60	<6.40	<6.55	<2.20	<3.95	<3.40	--	<2.29	--	<14.8	<6.60	<6.45	<7.32	<7.39	<6.74	<8.02	<7.75	<7.41	<6.91	<6.70
Silver	mg/kg	3.97	<1.64	<1.61	<1.65	<1.52	<1.28	<1.31	<0.44	12.4	14	<0.52	<0.46	--	<0.49	<1.32	<1.29	12.5	2.2	6.65	<1.60	<1.55	<1.48	<1.38	<1.34
Mercury	mg/kg	0.263	<0.041	<0.041	0.06	<0.035	0.047	<0.034	<0.033	0.272	1.73	0.073	<0.037	--	0.046	<0.025	<0.029	0.166	0.101	0.918	<0.032	<0.026	<0.030	<0.023	<0.039
Metals by Toxicity Characteristic Leaching Procedure (TCLP)																									
Arsenic	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead	mg/L	2.33	--	--	--	--	--	--	--	6.25	0.158	--	--	--	--	--	--	0.171	0.953	1.46	--	--	--	--	--
Selenium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Herbicides																									
2,4,5-T	mg/kg	<0.27	--	--	--	--	<0.010	<0.22	<0.061	<0.33	<0.078	<0.062	<0.055	--	--	<0.052	<0.052	<0.055	<0.052	<0.065	<0.061	--	--	--	--
2,4-D	mg/kg	<1.3	--	--	--	--	<0.010	<1.1	<0.061	<0.33	<0.078	<0.062	<0.055	--	--	<0.052	<0.052	<0.055	<0.052	<0.065	<0.061	--	--	--	--
2,4-DB	mg/kg	<0.099	--	--	--	--	<0.010	<0.082	<0.061	<0.33	<0.078	<0.062	<0.055	--	--	<0.052	<0.052	<0.055	<0.052	<0.065	<0.061	--	--	--	--
Dalapon	mg/kg	<8.0	--	--	--	--	<0.12	<6.5	<0.73	<3.9	<0.94	<0.75	<0.67	--	--	<0.62	<0.63	<0.66	<0.63	<0.78	<0.73	--	--	--	--
Dicamba	mg/kg	<0.40	--	--	--	--	<0.010	<0.33	<0.061	<0.33	<0.078	<0.062	<0.055	--	--	<0.052	<0.052	<0.055	<0.052	<0.065	<0.061	--	--	--	--
Dichlorprop	mg/kg	<0.86	--	--	--	--	<0.010	<0.71	<0.061	<0.33	<0.078	<0.062	<0.055	--	--	<0.052	<0.052	<0.055	<0.052	<0.065	<0.061	--	--	--	--
Dinoseb	mg/kg	<1.3	--	--	--	--	<0.062	<1.1	<0.37	<2.0	<0.47	<0.37	<0.33	--	--	<0.31	<0.32	<0.33	<0.31	<0.39	<0.37	--	--	--	--
MCPA	mg/kg	<330	--	--	--	--	<2.5	<270	<15	<78	<19	<15	<13	--	--	<12	<13	<13	<13	<16	<15	--	--	--	--
MCPP	mg/kg	<330	--	--	--	--	<2.5	<270	<15	<78	<19	<15	<13	--	--	<12	<13	<13	<13	<16	<15	--	--	--	--
Silvex (2,4,5-TP)	mg/kg	<0.27	--	--	--	--	<0.010	<0.22	<0.061	<0.33	<0.078	<0.062	<0.055	--	--	<0.052	<0.052	<0.055	<0.052	<0.065	<0.061	--	--	--	--
Pesticides																									
4,4'-DDD	mg/kg	<0.011	--	--	--	--	<0.0017	<0.0037	<0.0021	<0.0047	<0.0055	<0.0021	<0.0019	--	--	<0.0018	<0.0018	<0.0041	<0.0095	<0.0024	<0.0021	--	--	--	--
4,4'-DDE	mg/kg	<0.011	--	--	--	--	<0.0017	<0.0037	<0.0021	<0.0047	<0.0055	<0.0021	<0.0019	--	--	<0.0018	<0.0018	<0.0041	<0.0095	<0.0024	<0.0021	--	--	--	--
4,4'-DDT	mg/kg	<0.011	--	--	--	--	<0.0017	<0.0037	<0.0021	<0.0047	<0.0055	<0.0021	<0.0019	--	--	<0.0018	<0.0018	<0.0041	<0.0095	<0.0024	<0.0021	--	--	--	--
Aldrin	mg/kg	<0.011	--	--	--	--	<0.0017	<0.0037	<0.0021	<0.0047	<0.0055	<0.0021	<0.0019	--	--	<0.0018	<0.0018	<0.0041	<0.0095	<0.0024	<0.0021	--	--	--	--
alpha-BHC	mg/kg	<0.011	--	--	--	--	<0.0017	<0.0037	<0.0021	<0.0047	<0.0055	<0.0021	<0.0019	--	--	<0.0018	<0.0018	<0.0041	<0.0095	<0.0024	<0.0021	--	--	--	--
beta-BHC	mg/kg	<0.011	--	--	--	--	<0.0017	<0.0037	<0.0021	<0.0047	<0.0055	<0.0021	<0.0019	--	--	<0.0018	<0.0018	<0.0041	<0.0095	<0.0024	<0.0021	--	--	--	--
Chlordane (technical)	mg/kg	<0.11	--	--	--	--	<0.050	<0.037	<0.021	<0.047	<0.055	<0.021	<0.019	--	--	<0.018	<0.018	<0.041	<0.095	<0.024	<0.021	--	--	--	--
delta-BHC	mg/kg	<0.011	--	--	--	--	<0.0017	<0.0037	<0.0021	<0.0047	<0.0055	<0.0021	<0.0019	--	--	<0.0018	<0.0018	<0.0041	<0.0095	<0.0024	<0.0021	--	--	--	--
Dieldrin	mg/kg	<0.011	--	--	--	--	<0.0017	<0.0037	<0.0021	<0.0047	<0.0055	<0.0021	<0.0019	--	--	<0.0018	<0.0018	<0.0041	<0.0095	<0.0024	<0.0021	--	--	--	--
Endosulfan I	mg/kg	<0.011	--	--	--	--	<0.0017	<0.0037	<0.0021	<0.0047	<0.0055	<0.0021	<0.0019	--	--	<0.0018	<0.0018	<0.0041	<0.0095	<0.0024	<0.0021	--	--	--	--
Endosulfan II	mg/kg	<0.011	--	--	--	--	<0.0017	<0.0037	<0.0021	<0.0047	<0.0055	<0.0021	<0.0019	--	--	<0.0018	<0.0018	<0.0041	<0.0095	<0.0024	<0.0021	--	--	--	--
Endosulfan sulfate	mg/kg	<0.011	--	--	--	--	<0.0017	<0.0037	<0.0021	<0.0047	<0.0055	<0.0021	<0.0019	--	--	<0.0018	<0.0018	<0.0041	<0.0095	<0.0024	<0.0021	--	--	--	--
Endrin	mg/kg	<0.011	--	--	--	--	<0.0017	<0.0037	<0.0021	<0.0047	<0.0055	<0.0021	<0.0019	--	--	<0.0018	<0.0018	<0.0041	<0.0095	<0.0024	<0.0021	--	--	--	--
Endrin ketone	mg/kg	<0.011	--	--	--	--	<0.0017	<0.0037	<0.0021	<0.0047	<0.0055	<0.0021	<0.0019	--	--	<0.0018	<0.0018	<0.0041	<0.0095	<0.0024	<0.0021	--	--	--	--
gamma-BHC (Lindane)	mg/kg	<0.011	--	--	--	--	<0.0017	<0.0037	<0.0021	<0.0047	<0.0055	<0.0021	<0.0019	--	--	<0.0018	<0.0018	<0.0041	<0.0095	<0.0024	<0.0021	--	--	--	--
Heptachlor	mg/kg	<0.011	--	--	--	--	<0.0017	<0.0037	<0.0021	<0.0047	<0.0055	<0.0021	<0.0019	--	--	<0.0018	<0.0018	<0.0041	<0.0095	<0.0024	<0.0021	--	--	--	--
Heptachlor epoxide	mg/kg	<0.011	--	--	--	--	<0.0017	<0.0037	<0.0021	<0.0047	<0.0055	<0.0021	<0.0019	--	--	<0.0018	<0.0018	<0.0041	<0.0095	<0.0024	<0.0021	--	--	--	--
Hexachlorobenzene	mg/kg	<0.011	--	--	--	--	<0.0017	<0.0037	<0.0021	<0.0047	<0.0055	<0.0021	<0.0019	--	--	<0.0018	<0.0018	<0.0041	<0.0095	<0.0024	<0.0021	--	--	--	--
Methoxychlor	mg/kg	<0.011	--	--	--	--	<0.0033	<0.0037	<0.0021	<0.0047	<0.0055	<0.0021	<0.0019	--	--	<0.0018	<0.0018	<0.0041	<0.0095	<0.0024	<0.0021	--	--	--	--
Polychlorinated Biphenyls																									
Aroclor 1016	mg/kg	<0.159	<0.161	<0.158	<0.153	<0.151	<0.147	<0.135	<0.215	<0.226	<0.272	<0.210	<0.207	--	<0.211	<0.140	<0.135	<0.144	<0.133	<0.151	<0.153	<0.133	<0.136	<0.126	<0.150
Aroclor 1221	mg/kg	<0.159	<0.161	<0.158	<0.153	<0.151	<0.147	<0.135	<0.215	<0.226	<0.272	<0.210	<0.207	--	<0.211	<0.140	<0.135	<0.144	<0.133	<0.151	<0.153	<0.133	<0.136	<0.126	<0.150
Aroclor 1232	mg/kg	<0.159	<0.161	<0.158	<0.153	<0.151	<0.147	<0.135	<0.215	<0.226	<0.272	<0.210	<0.207	--	<0.211	<0.140	<0.135	<0.144	<0.133	<0.151	<0.153	<0.133	<0.136	<0.126	<0.150
Aroclor 1242	mg/kg	<0.159	<0.161	<0.158	<0.153	<0.151	<0.147	<0.135	<0.215	<0.226	<0.272	<0.210	<0.207	--	<0.211	<0.140	<0.135	<0.144	<0.133	<0.151	<0.153	<0.133	<0.136	<0.126	<0.150
Aroclor 1248	mg/kg	<0.159	<0.161	<0.158	<0.153	<0.151	<0.147	<0.135	<0.215	<0.226	<0.272	<0.210	<0.207	--	<0.211	<0.140	<0.135	<0.144	<0.133	<0.151	<0.153	<0.133	<0.136	<0.126	<0.150
Aroclor 1254	mg/kg	<0.159	<0.161	<0.158	<0.153	<0.151	<0.147	<0.135	<0.215	<0.226	<0.272	<0.210	<0.207	--	<0.211	<0.140	<0.135	0.757	<0.133	<0.151	<0.153	<0.133	<0.136	<0.126	<0.150
Aroclor 1260	mg/kg	<0.159	<0.161	<0.158	<0.153	<0.151	<0.147	<0.135	<0.215	<0.226	<0.272	<0.210	<0.207	--	<0.211	0.564	<0.135	0.297	<0.133	<0.151	<0.153	<0.133	<0.136	<0.126	<0.150
Aroclor 1262	mg/kg	0.18	<0.161	<0.158	<0.153	<0.151	<0.147	<0.135	<0.215	<0.226	<0.272	<0.210	<0.207	--	<0.211	<0.140	<0.135	<0.144	<0.133	<0.151	<0.153	<0.133	<0.136	<0.126	<0.150
Aroclor 1268	mg/kg	<0.159	<0.161	<0.158	<0.153	<0.151	<0.147	<0.135	<0.215	<0.226	<0.272	<0.210	<0.207	--	<0.211	<0.140	<0.135	<0.144	<0.133	<0.151	<0.153	<0.133	<0.136	<0.126	<0.150
Total PCBs	mg/kg	0.18	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	0.564	ND	1.054	ND	ND	ND	ND	ND	ND	ND
Total Petroleum Hydrocarbons	mg/kg	926	<47.8	<51.3	<42.6	<47.1	<48.8	488	<42.1	285	71.5	<46.3	<43.9	--	<43.1	66.8	<40.1	60.3	193	71.2	150	<46.8	<40.4	<41.2	<48.4
Volatile Organic Compounds (VOCs)																									
1,1,1,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	<0.0720	--	<0.0846	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	mg/kg	--	--	--	--	--	--	<0.0360	--	<0.0423	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	<0.0360	--	<0.0423	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	mg/kg	--	--	--	--	--	--	<0.0360	--	<0.0423	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	mg/kg	--	--	--	--	--	--	<0.0360	--	<0.0423	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	mg/kg	--	--	--	--	--	--	<0.0360	--	<0.0423	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloropropene	mg/kg	--	--	--	--	--	--	<0.0360	--	<0.0423	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	mg/kg	--	--	--	--	--	--	<0.0360	--	<0.0423	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	mg/kg	--	--	--	--	--	--	<0.0360	--	<0.0423	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	mg/kg	--	--	--	--	--	--	<0.0360	--	<0.0423	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	mg/kg	--	--	--	--	--	--	<0.0360	--	<0.0423	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-Chloropropane	mg/kg	--	--	--	--	--	--	<0.144	--	<0.169	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	mg/kg	--	--	--	--	--	--	<0.0360	--	<0.0423	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	mg/kg	--	--	--	--	--	--	<0.0360	--	<0.0423	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	mg/kg	--	--	--	--	--	--	<0.0360	--	<0.0423	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	mg/kg	--	--	--	--	--	--	<0.0360	--	<0.0423	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	mg/kg	--	--	--	--	--	--	<0.0360	--	<0.0423	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	mg/kg	--	--	--	--	--	--	<0.0360	--	<0.0423	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichloropropane	mg/kg	--	--	--	--	--	--	<0.0360	--	<0.0423	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg	--	--	--	--	--	--	<0.0360	--	<0.0423	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane - Screen	mg/kg	--	--	--	--	--	--	<3.60	--	<4.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,2-Dichloropropane	mg/kg	--	--	--	--	--	--	<0.0720	--	<0.0846	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Butanone	mg/kg	--	--	--	--	--	--	<0.144	--	<0.169	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chlorotoluene	mg/kg	--	--	--	--	--	--	<0.0360	--	<0.0423	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	mg/kg	--	--	--	--	--	--	<0.144	--	<0.169	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Chlorotoluene	mg/kg	--	--	--	--	--	--	<0.0360	--	<0.0423	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Isopropyltoluene	mg/kg	--	--	--	--	--	--	<0.0360	--	<0.0423	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-Pentanone	mg/kg	--	--	--	--	--	--	<0.144	--	<0.169	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	mg/kg	--	--	--	--	--	--	0.219	--	<0.169	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzene	mg/kg	--	--	--	--	--	--	<0.0360	--	<0.0423	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromobenzene	mg/kg	--	--	--	--	--	--	<0.0360	--	<0.0423	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	mg/kg	--	--	--	--	--	--	<0.0360	--	<0.0423	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	mg/kg	--	--	--	--	--	--	<0.0360	--	<0.0423	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	mg/kg	--	--	--	--	--	--	<0.0360	--	<0.0423	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	mg/kg	--	--	--	--	--	--	<0.0720	--	<0.0846	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Disulfide	mg/kg	--	--	--	--	--	--	<0.0360	--	<0.0423	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	mg/kg	--	--	--	--	--	--	<0.0360	--	<0.0423	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	F14 F14S06S07A 1501359 Fill 10 - 12.3 1/19/2015	F14 F14S07BS08 1501359 Natural Clay 12.3 - 16 1/19/2015	F14 F14S09 1501393 Natural Clay 19 - 21 1/20/2015	F14 F14S10 1501393 Natural Clay 24 - 26 1/20/2015	F14 F14S11 1501393 Natural Clay 29 - 31 1/20/2015	F14 F14S12S13 1501393 Natural Clay 34 - 38 1/20/2015	F15 F15S01 1503097 Fill 3 - 5 3/5/2015	F15 GZ011S01S02 1411172 Fill 0 - 3.9 11/7/2014	F15 GZ011S03S05 1411172 Fill 5 - 11 11/7/2014	F15 GZ011S06S07 1411172 Fill 11 - 15 11/7/2014	F15 GZ011S08S10 1411172 Natural Organics 15 - 21 11/7/2014	F15 GZ011S11S13 1411172 Natural Sand/Gravel 24 - 36 11/7/2014	F15 GZ011S14 1411172 See GZ011S14S15 39 - 41 11/7/2014	F15 GZ011S14S15 1411194 Natural Sand/Gravel 39 - 46 11/10/2014	F16 F16S01S02A 1502392 Fill 0 - 3.3 2/26/2015	F16 F16S02BS04A 1502392 Fill 3.3 - 6.6 2/26/2015	F16 F16S04BS05 1502392 Fill 6.6 - 10 2/26/2015	F16 F16S06S07A 1502392 Fill 10 - 13.3 2/26/2015	F16 F16S07BS08 1502392 Fill 13.3 - 16 2/26/2015	F16 F16S09 1502392 Natural Sand/Gravel 16 - 18 2/26/2015	F16 F16S10 1502392 Natural Sand/Gravel 19 - 21 2/26/2015	F16 F16S11 1502392 Natural Sand/Gravel 24 - 26 2/26/2015	F16 F16S12 1502392 Natural Sand/Gravel 29 - 31 2/26/2015	F16 F16S13S14 1502392 Natural Sand/Gravel 34 - 38 2/26/2015
Preliminary Disposal Facility Category		MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Uncontaminated	Hazardous Material Type A	MCP Regulated Type A	Hazardous Material Type B	Hazardous Material Type A	MCP Regulated Type A	Uncontaminated	MCP Regulated Type A	See GZ011S14S15	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	Uncontaminated	MCP Regulated Type A	Uncontaminated
Chlorobenzene	mg/kg	--	--	--	--	--	--	<0.0360	--	<0.0423	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	mg/kg	--	--	--	--	--	--	<0.0720	--	<0.0846	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	mg/kg	--	--	--	--	--	--	<0.0360	--	<0.0423	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	mg/kg	--	--	--	--	--	--	<0.0720	--	<0.0846	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	<0.0360	--	<0.0423	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	<0.0360	--	<0.0423	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	mg/kg	--	--	--	--	--	--	<0.0360	--	<0.0423	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromomethane	mg/kg	--	--	--	--	--	--	<0.0360	--	<0.0423	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	mg/kg	--	--	--	--	--	--	<0.0360	--	<0.0423	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Diethyl Ether	mg/kg	--	--	--	--	--	--	<0.0360	--	<0.0423	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Di-isopropyl ether	mg/kg	--	--	--	--	--	--	<0.0360	--	<0.0423	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethyl tertiary-butyl ether	mg/kg	--	--	--	--	--	--	<0.0360	--	<0.0423	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	mg/kg	--	--	--	--	--	--	<0.0360	--	<0.0423	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	mg/kg	--	--	--	--	--	--	<0.0360	--	<0.0423	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene	mg/kg	--	--	--	--	--	--	<0.0360	--	<0.0423	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	mg/kg	--	--	--	--	--	--	<0.0360	--	<0.0423	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride	mg/kg	--	--	--	--	--	--	<0.144	--	<0.169	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	mg/kg	--	--	--	--	--	--	14.5	--	<0.0423	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	mg/kg	--	--	--	--	--	--	<0.0360	--	<0.0423	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	mg/kg	--	--	--	--	--	--	<0.0360	--	<0.0423	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	mg/kg	--	--	--	--	--	--	<0.0360	--	<0.0423	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	mg/kg	--	--	--	--	--	--	0.036	--	<0.0423	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
tert-Butylbenzene	mg/kg	--	--	--	--	--	--	<0.0360	--	<0.0423	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tertiary-amyl methyl ether	mg/kg	--	--	--	--	--	--	<0.0360	--	<0.0423	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	mg/kg	--	--	--	--	--	--	<0.0360	--	<0.0423	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	mg/kg	--	--	--	--	--	--	<0.144	--	<0.169	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	mg/kg	--	--	--	--	--	--	<0.0360	--	<0.0423	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	<0.0360	--	<0.0423	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	<0.0360	--	<0.0423	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene	mg/kg	--	--	--	--	--	--	<0.0360	--	<0.0423	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane	mg/kg	--	--	--	--	--	--	<0.0360	--	<0.0423	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	mg/kg	--	--	--	--	--	--	<0.0360	--	<0.0423	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene O	mg/kg	--	--	--	--	--	--	<0.0360	--	<0.0423	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene P,M	mg/kg	--	--	--	--	--	--	<0.0720	--	<0.0846	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylenes (Total)	mg/kg	--	--	--	--	--	--	<0.0720	--	<0.0846	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total VOCs	mg/kg	--	--	--	--	--	--	14.755	--	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds - Low Level Analysis																									
1,1,1,2-Tetrachloroethane	mg/kg	<0.0048	<0.0043	<0.0038	<0.0035	<0.0038	<0.0042	<0.0042	<0.0020	<0.0018	<0.0038	<0.0031	<0.0022	<0.0025	--	<0.0069	<0.0035	<0.0045	<0.0031	<0.0028	<0.0036	<0.0028	<0.0039	<0.0028	<0.0035
1,1,1-Trichloroethane	mg/kg	<0.0048	<0.0043	<0.0038	<0.0035	<0.0038	<0.0042	<0.0042	<0.0020	<0.0018	<0.0038	<0.0031	<0.0022	<0.0025	--	<0.0069	<0.0035	<0.0045	<0.0031	<0.0028	<0.0036	<0.0028	<0.0039	<0.0028	<0.0035
1,1,2,2-Tetrachloroethane	mg/kg	<0.0019	<0.0017	<0.0015	<0.0014	<0.0015	<0.0017	<0.0017	<0.0008	<0.0007	<0.0015	<0.0012	<0.0009	<0.0010	--	<0.0028	<0.0014	<0.0018	<0.0012	<0.0011	<0.0014	<0.0011	<0.0016	<0.0011	<0.0014
1,1,2-Trichloroethane	mg/kg	<0.0048	<0.0043	<0.0038	<0.0035	<0.0038	<0.0042	<0.0042	<0.0020	<0.0018	<0.0038	<0.0031	<0.0022	<0.0025	--	<0.0069	<0.0035	<0.0045	<0.0031	<0.0028	<0.0036	<0.0028	<0.0039	<0.0028	<0.0035
1,1-Dichloroethane	mg/kg	<0.0048	<0.0043	<0.0038	<0.0035	<0.0038	<0.0042	<0.0042	<0.0020	<0.0018	<0.0038	<0.0031	<0.0022	<0.0025	--	<0.0069	<0.0035	<0.0045	<0.0031	<0.0028	<0.0036	<0.0028	<0.0039	<0.0028	<0.0035
1,1-Dichloroethene	mg/kg	<0.0048	<0.0043	<0.0038	<0.0035	<0.0038	<0.0042	<0.0042	<0.0020	<0.0018	<0.0038	<0.0031	<0.0022	<0.0025	--	<0.0069	<0.0035	<0.0045	<0.0031	<0.0028	<0.0036	<0.0028	<0.0039	<0.0028	<0.0035
1,1-Dichloropropene	mg/kg	<0.0048	<0.0043	<0.0038	<0.0035	<0.0038	<0.0042	<0.0042	<0.0020	<0.0018	<0.0038	<0.0031	<0.0022	<0.0025	--	<0.0069	<0.0035	<0.0045	<0.0031	<0.0028	<0.0036	<0.0028	<0.0039	<0.0028	<0.0035
1,2,3-Trichlorobenzene	mg/kg	<0.0048	<0.0043	<0.0038	<0.0035	<0.0038	<0.0042	<0.0042	<0.0020	<0.0018	<0.0038	<0.0031	<0.0022	<0.0025	--	<0.0069	<0.0035	<0.0045	<0.0031	<0.0028	<0.0036	<0.0028	<0.0039	<0.0028	<0.0035
1,2,3-Trichloropropane	mg/kg	<0.0048	<0.0043	<0.0038	<0.0035	<0.0038	<0.0042	<0.0042	<0.0020	<0.0018	<0.0038	<0.0031	<0.0022	<0.0025	--	<0.0069	<0.0035	<0.0045	<0.0031	<0.0028	<0.0036	<0.0028	<0.0039	<0.0028	<0.0035
1,2,4-Trichlorobenzene	mg/kg	<0.0048	<0.0043	<0.0038	<0.0035	<0.0038	<0.0042	<0.0042	<0.0020	<0.0018	<0.0038	<0.0031	<0.0022	<0.0025	--	<0.0069	<0.0035	<0.0045	<0.0031	<0.0028	<0.0036	<0.0028	<0.0039	<0.0028	<0.0035
1,2,4-Trimethylbenzene	mg/kg	0.0247	<0.0043	<0.0038	<0.0035	<0.0038	<0.0042	0.0059	<0.0020	<0.0018	<0.0038	<0.0031	<0.0022	<0.0025	--	<0.0069	<0.0035	<0.0045	<0.0031	<0.0028	<0.0036	<0.0028	<0.0039	<0.0028	<0.0035
1,2-Dibromo-3-Chloropropane	mg/kg	<0.0048	<0.0043	<0.0038	<0.0035	<0.0038	<0.0042	<0.0042	<0.0020	<0.0018	<0.0038	<0.0031	<0.0022	<0.0025	--	<0.0069	<0.0035	<0.0045	<0.0031	<0.0028	<0.0036	<0.0028	<0.0039	<0.0028	<0.0035
1,2-Dibromoethane	mg/kg	<0.0048	<0.0043	<0.0038	<0.0035	<0.0038	<0.0042	<0.0042	<0.0020	<0.0018	<0.0038	<0.0031	<0.0022	<0.0025	--	<0.0069	<0.0035	<0.0045	<0.0031	<0.0028	<0.0036	<0.0028	<0.0039	<0.0028	<0.0035
1,2-Dichlorobenzene	mg/kg	<0.0048	<0.0043	<0.0038	<0.0035	<0.0038	<0.0042	<0.0042	<0.0020	<0.0018	<0.0038	<0.0031	<0.0022	<0.0025	--	<0.0069	<0.0035	<0.0045	<0.0031	<0.0028	<0.0036	<0.0028	<0.0039	<0.0028	<0.0035
1,2-Dichloroethane	mg/kg	<0.0048	<0.0043	<0.0038	<0.0035	<0.0038	<0.0042	<0.0042	<0.0020	<0.0018	<0.0038	<0.0031	<0.0022	<0.0025	--	<0.0069	<0.0035	<0.0045	<0.0031	<0.0028	<0.0036	<0.0028	<0.0039	<0.0028	<0.0035
1,2-Dichloropropane	mg/kg	<0.0048	<0.0043	<0.0038	<0.0035	<0.0038	<0.0042	<0.0042	<0.0020	<0.0018	<0.0038	<0.0031	<0.0022	<0.0025	--	<0.0069	<0.0035	<0.0045	<0.0031	<0.0028	<0.0036	<0.0028	<0.0039	<0.0028	<0.0035
1,3,5-Trimethylbenzene	mg/kg	0.0164	<0.0043	<0.0038	<0.0035	<0.0038	<0.0042	<0.0042	<0.0020	<0.0018	<0.0038	<0.0031	<0.0022	<0.0025	--	<0.0069	<0.0035	<0.0045	<0.0031	<0.0028	<0.0036	<0.0028	<0.0039	<0.0028	<0.0035
1,3-Dichlorobenzene	mg/kg	<0.0048	<0.0043	<0.0038	<0.0035	<0.0038	<0.0042	<0.0042	<0.0020	<0.0018	<0.0038	<0.0031	<0.0022	<0.0025	--	<0.0069	<0.0035	<0.0045	<0.0031	<0.0028	<0.0036	<0.0028	<0.0039	<0.0028	<0.0035
1,3-Dichloropropane	mg/kg	<0.0048	<0.0043	<0.0038	<0.0035	<0.0038	<0.0042	<0.0042	<0.0020	<0.0018	<0.0038	<0.0031	<0.0022	<0.0025	--	<0.0069	<0.0035	<0.0045	<0.0031	<0.0028	<0.0036	<0.0028	<0.0039	<0.0028	<0.0035
1,4-Dichlorobenzene	mg/kg	<0.0048	<0.0043	<0.0038	<0.0035	<0.0038	<0.0042	<0.0042	<0.0020	<0.0018	<0.0038	<0.0031	<0.0022	<0.0025	--	<0.0069	<0.0035	<0.0045	<0.0031	<0.0028	<0.0036	<0.0028	<0.0039	<0.0028	<0.0035
1,4-Dioxane	mg/kg	<0.0956	<0.0854	<0.0754	<0.0698	<0.0753	<0.0840	<0.0842	<0.0398	<0.0350	<0.0761	<0.0622	<0.0450	<0.0497	--	<0.138	<0.0706	<0.0896	<0.0622	<0.0565	<0.0725	<0.0570	<0.0783	<0.0554	<0.0710
2,2-Dichloropropane	mg/kg	<0.0048	<0.0043	<0.0038	<0.0035	<0.0038	<0.0042	<0.0042	<0.0020	<0.0018	<0.0038	<0.0031	<0.0022	<0.0025	--	<0.0069	<0.0035	<0.0045	<0.0031	<0.0028	<0.0036	<0.0028	<0.0039	<0.0028	<0.0035
2-Butanone	mg/kg	<0.0096	<0.0085	<0.0075	<0.0070	<0.0075	<0.0084	<0.0084	<0.0040	<0.0035	<0.0076	<0.0062	<0.0045	<0.0050	--	<0.0138	<0.0071	<0.0090	<0.0062	<0.0056	0.0135	<0.0057	<0.0078	<0.0055	<0.0071
2-Chlorotoluene	mg/kg	<0.0048	<0.0043	<0.0038	<0.0035	<0.0038	<0.0042	<0.0042	<0.0020	<0.0018	<0.0038	<0.0031	<0.0022	<0.0025	--	<0.0069	<0.0035	<0.0045	<0.0031	<0.0028	<0.0036	<0.0028	<0.0039	<0.0028	<0.0035
2-Hexanone	mg/kg	<0.0096	<0.0085	<0.0075	<0.0070	<0.0075	<0.0084	<0.0084	<0.0040	<0.0035	<0.0076	<0.0062	<0.0045	<0.0050	--	<0.0138	<0.0071	<0.0090	<0.0062	<0.0056	<0.0072	<0.0057	<0.0078	<0.0055	<0.0071
4-Chlorotoluene	mg/kg	<0.0048	<0.0043	<0.0038	<0.0035	<0.0038	<0.0042	<0.0042	<0.0020	<0.0018	<0.0038	<0.0031	<0.0022	<0.0025	--	<0.0069	<0.0035	<0.0045	<0.0031	<0.0028	<0.0036	<0.0028	<0.0039	<0.0028	<0.0035
4-Isopropyltoluene	mg/kg	0.0071	<0.0043	<0.0038	<0.0035	<0.0038	<0.0042	<0.0042	<0.0020	<0.0018	<0.0038	<0.0031	<0.0022	<0.0025	--	<0.0069	<0.0035	<0.0045	<0.0031	<0.0028	<0.0036	<0.0028	<0.0039	<0.0028	<0.0035
4-Methyl-2-Pentanone	mg/kg	<0.0096	<0.0085	<0.0075	<0.0070	<0.0075	<0.0084	<0.0084	<0.0040	<0.0035	<0.0076	<0.0062	<0.0045	<0.0050	--	<0.0138	<0.0071	<0.0090	<0.0062	<0.0056	<0.0072	<0.0057	<0.0078	<0.0055	<0.0071
Acetone	mg/kg	0.0756	0.0453	<0.0075	0.008	0.0093	<0.0084	<0.0084	<0.0040	<0.0035	0.0081	0.023	<0.0045	<0.0050	--	<0.0138	<0.0071	0.063	<0.0062	<0.0056	0.0932	0.0145	<0.0078	0.0056	<0.0071
Benzene	mg/kg	0.0073	<0.0043	<0.0038	<0.0035	<0.0038	<0.0042	<0.0042	<0.0020	<0.0018	<0.0038	<0.0031	<0.0022	<0.0025	--	<0.0069	<0.0035	<0.0045	<0.0031	<0.0028	<0.0036	<0.0028	<0.0039	<0.0028	<0.0035
Bromobenzene	mg/kg	<0.0048	<0.0043	<0.0038	<0.0035	<0.0038	<0.0042	<0.0042	<0.0020	<0.0018	<0.0038	<0.0031	<0.0022	<0.0025	--	<0.0069	<0.0035	<0.0045	<0.0031	<0.0028	<0.0036	<0.0028	<0.0039	<0.0028	<0.0035
Bromochloromethane	mg/kg	<0.0048	<0.0043	<0.0038	<0.0035	<0.0038	<0.0042	<0.0042	<0.0020	<0.0018	<0.0038	<0.0031	<0.0022	<0.0025	--	<0.0069	<0.0035	<0.0045	<0.0031	<0.0028	<0.0036	<0.0028	<0.0039	<0.0028	<0.0035
Bromodichloromethane	mg/kg	<0.0048	<0.0043	<0.0038	<0.0035	<0.0038	<0.0042	<0.0042	<0.0020	<0.0018	<0.0038	<0.0031	<0.0022	<0.0025	--	<0.0069	<0.0035	<0.0045	<0.0031	<0.0028	<0.0036	<0.0028	<0.0039	<0.0028	<0.0035
Bromoform	mg/kg	<0.0048	<0.0043	<0.0038	<0.0035	<0.0038	<0.0042	<0.0042	<0.0020	<0.0018	<0.0038	<0.0031	<0.0022	<0.0025	--	<0.0069	<0.0035	<0.0045	<0.0031	<0.0028	<0.0036	<0.0028	<0.0039	<0.0028	<0.0035
Bromomethane	mg/kg	<0.0096	<0.0085	<0.0075	<0.0070	<0.0075	<0.0084	<0.0084	<0.0040	<0.0035	<0.0076	<0.0062	<0.0045	<0.0050	--	<0.0138	<0.0071	<0.0090	<0.0062	<0.0056	<0.0072	<0.0057	<0.0078	<0.0055	<0.0071
Carbon Disulfide	mg/kg	<0.0048	<0.0043	<0.0038	<0.0035	<0.0038	<0.0042	<0.0042	<0.0020	<0.0018	<0.0038	0.0063	<0.0022	<0.0025	--	<0.0069	<0.0035	<0.0045	<0.0031	<0.0028	<0.0036	<0.0028	<0.0039	<0.0028	<0.0035
Carbon Tetrachloride	mg/kg	<0.0048	<0.0043	<0.0038	<0.0035	<0.0038	<0.0042	<0.0042	<0.0020	<0.0018	<0.0038	<0.0031	<0.0022	<0.0025	--	<0.0069	<0.0035	<0.0045	<0.0031	<0.0028	<0.0036	<0.0028	<0.0039	<0.0028	<0.0035
Chlorobenzene	mg/kg	<0.0048	<0.0043	<0.0038	<0.0035	<0.0038	<0.0042	<0.0042	<0.0020	<0.0018	<0.0038	<0.0031	<0.0022	<0.0025	--	<0.0069	<0.0035	<0.0045	<0.0031	<0.0028	<0.0036	<0.0028	<0.0039	<0.0028	<0.0035
Chloroethane	mg/kg	<0.0096	<0.0085	<0.0075	<0.0070	<0.0075	<0.0084	<0.0084	<0.0040	<0.0035	<0.0076	<0.0062	<0.0045	<0.0050	--	<0.0138	<0.0071	<0.0090	<0.0062	<0.0056	<0.0072	<0.0057	<0.0078	<0.0055	<0.0071
Chloroform	mg/kg	<0.0048	<0.0043	<0.0038	<0.0035	<0.0038	<0.0042	<0.0042	<0.0020	<0.0018	<0.0038	<0.0031	<0.0022	<0.0025	--	<0.0069	<0.0035	<0.0045	<0.0031	<0.0028	<0.0036	<0.0028	<0.0039	<0.0028	<0.0035
Chloromethane	mg/kg	<0.0096	<0.0085	<0.0075	<0.0070	<0.0075	<0.0084	<0.0084	<0.0040	<0.0035	<0.0076	<0.0062	<0.0045	<0.0050	--	<0.0138	<0.0071	<0.0090	<0.0062	<0.0056	<0.0072	<0.0057	<0.0078	<0.0055	<0.0071
cis-1,2-Dichloroethene	mg/kg	<0.0048	<0.0043	<0.0038	<0.0035	<0.0038	<0.0042	<0.0042	<0.0020	<0.0018	<0.0038	<0.0031	<0.0022	<0.0025	--	<0.0069	<0.0035	<0.0045	<0.0031	<0.0028	<0.0036	<0.0028	<0.0039	<0.0028	<0.0035
cis-1,3-Dichloropropene	mg/kg	<0.0048	<0.0043	<0.0038	<0.0035	<0.0038	<0.0042	<0.0042	<0.0020	<0.0018	<0.0038	<0.0031	<0.0022	<0.0025	--	<0.0069	<0.0035	<0.0045	<0.0031	<0.0028	<0.0036	<0.0028	<0.0039	<0.0028	<0.0035
Dibromochloromethane	mg/kg	<0.0019	<0.0017	<0.0015	<0.0014	<0.0015	<0.0017	<0.0017	<0.0008	<0.0007	<0.0015	<0.0012	<0.0009	<0.0010	--	<0.0028	<0.0014	<0.0018	<0.0012	<0.0011	<0.0014	<0.0011	<0.0016	<0.0011	<0.0014
Dibromomethane	mg/kg	<0.0048	<0.0043	<0.0038	<0.0035	<0.0038	<0.0042	<0.0042	<0.0020	<0.0018	<0.0038	<0.0031	<0.0022	<0.0025	--	<0.0069	<0.0035	<0.0045	<0.0031	<0.0028	<0.0036	<0.0028	<0.0039	<0.0028	<0.0035
Dichlorodifluoromethane	mg/kg	<0.0096	<0.0085	<0.0075	<0.0070	<0.0075	<0.0084	<0.0084	<0.0040	<0.0035	<0.0076	<0.0062	<0.0045	<0.0050	--	<0.0138	<0.0071	<0.0090	<0.0062	<0.0056	<0.0072	<0.0057	<0.0078	<0.0055	<0.0071
Diethyl Ether	mg/kg	<0.0048	<0.0043	<0.0038	<0.0035	<0.0038	<0.0042	<0.0042	<0.0020	<0.0018	<0.0038	<0.0031	<0.0022	<0.0025	--	<0.0069	<0.0035	<0.0045	<0.0031	<0.0028	<0.0036	<0.0028	<0.0039	<0.0028	<0.0035
Di-isopropyl ether	mg/kg	<0.0048	<0.0043	<0.0038	<0.0035	<0.0038	<0.0042	<0.0042	<0.0020	<0.0018	<0.0038	<0.0031	<0.0022	<0.0025	--	<0.0069	<0.0035	<0.0045	<0.0031	<0.0028	<0.0036	<0.0028	<0.0039	<0.0028	<0.0035
Ethyl tertiary-butyl ether	mg/kg	<0.0048	<0.0043	<0.0038	<0.0035	<0.0038	<0.0042	<0.0042	<0.0020	<0.0018	<0.0038	<0.0031	<0.0022	<0.0025	--	<0.0069	<0.0035	<0.0045	<0.0031	<0.0028	<0.0036	<0.0028	<0.0039	<0.0028	<0.0035
Ethylbenzene	mg/kg	0.0051	<0.0043	<0.0038	<0.0035	<0.0038	<0.0042	<0.0042	<0.0020	<0.0018	<0.0038	<0.0031	<0.0022	<0.0025	--	<0.0069	<0.0035	<0.0045	<0.0031	<0.0028	<0.0036	<0.0028	<0.0039	<0.0028	<0.0035
Hexachlorobutadiene	mg/kg	<0.0048	<0.0043	<0.0038	<0.0035	<0.0038	<0.0042	<0.0042	<0.0020	<0.0018	<0.0038	<0.0031	<0.0022	<0.0025	--	<0.0069	<0.0035	<0.0045	<0.0031	<0.0028	<0.0036	<0.0028	<0.0039	<0.0028	<0.0035
Isopropylbenzene	mg/kg	0.0053	<0.0043	<0.0038	<0.0035	<0.0038	<0.0042	<0.0042	<0.0020	<0.0018	<0.0038	<0.0031	<0.0022	<0.0025	--	<0.0069	<0.0035	<0.0045	<0.0031	<0.0028	<0.0036	<0.0028	<0.0039	<0.0028	<0.0035
Methyl tert-Butyl Ether	mg/kg	<0.0048	<0.0043	<0.0038	<0.0035	<0.0038	<0.0042	<0.0042	<0.0020	<0.0018	<0.0038	<0.0031	<0.0022	<0.0025	--	<0.0069	<0.0035	<0.0045	<0.0031	<0.0028	<0.0036	<0.0028	<0.0039	<0.0028	<0.0035
Methylene Chloride	mg/kg	<0.0096	<0.0085	<0.0075	<0.0070	<0.0075	<0.0084	<0.0084	<0.0040	<0.0035	<0.0076	<0.0062	<0.0045	<0.0050	--	<0.0138	<0.0071	<0.0090	<0.0062	<0.0056	<0.0072	<0.0057	<0.0078	<0.0055	<0.0071
Naphthalene	mg/kg	0.0088	<0.0043	<0.0038	<0.0035	<0.0038	<0.0042	0.642	<0.0020	<0.0018	<0.0038	<0.0031	<0.0022	<0.0025	--	<0.0069	<0.0035	<0.0045	<0.0031	<0.0028	<0.0036	<0.0028	<0.0039	<0.0028	<0.0035
n-Butylbenzene	mg/kg	0.0069	<0.0043	<0.0038	<0.0035	<0.0038	<0.0042	<0.0042	<0.0020	<0.0018	<0.0038	<0.0031	<0.0022	<0.0025	--	<0.0069	<0.0035	<0.0045	<0.0031	<0.0028	<0.0036	<0.0028	<0.0039	<0.0028	<0.0035
n-Propylbenzene	mg/kg	<0.0048	<0.0043	<0.0038	<0.0035	<0.0038	<0.0042	<0.0042	<0.0020	<0.0018	<0.0038	<0.0031	<0.0022	<0.0025	--	<0.0069	<0.0035	<0.0045	<0.0031	<0.0028	<0.0036	<0.0028	<0.0039	<0.0028	<0.0035
sec-Butylbenzene	mg/kg	0.0048	<0.0043	<0.0038	<0.0035	<0.0038	<0.0042	<0.0042	<0.0020	<0.0018	<0.0038	<0.0031	<0.0022	<0.0025	--	<0.0069	<0.0035	<0.0045	<0.0031	<0.0028	<0.0036	<0.0028	<0.0039	<0.0028	<0.0035

J:\170,000-179,999\171521\171521-02.DEL\Supplemental Phase II\Appendices\Appendix H\172521.12 Table 1 2015-12-01.xlsx/172521.12 Table 1 2015-12-01.xlsx - Table 1

Table 1
Soil Precharacterization Data

Wynn Resort Casino
Everett, Massachusetts

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	F14 F14S06S07A 1501359 Fill 10 - 12.3 1/19/2015	F14 F14S07BS08 1501359 Natural Clay 12.3 - 16 1/19/2015	F14 F14S09 1501393 Natural Clay 19 - 21 1/20/2015	F14 F14S10 1501393 Natural Clay 24 - 26 1/20/2015	F14 F14S11 1501393 Natural Clay 29 - 31 1/20/2015	F14 F14S12S13 1501393 Natural Clay 34 - 38 1/20/2015	F15 F15S01 1503097 Fill 3 - 5 3/5/2015	F15 GZ011S01S02 1411172 Fill 0 - 3.9 11/7/2014	F15 GZ011S03S05 1411172 Fill 5 - 11 11/7/2014	F15 GZ011S06S07 1411172 Fill 11 - 15 11/7/2014	F15 GZ011S08S10 1411172 Natural Organics 15 - 21 11/7/2014	F15 GZ011S11S13 1411172 Natural Sand/Gravel 24 - 36 11/7/2014	F15 GZ011S14 1411172 See GZ011S14S15 39 - 41 11/7/2014	F15 GZ011S14S15 1411194 Natural Sand/Gravel 39 - 46 11/10/2014	F16 F16S01S02A 1502392 Fill 0 - 3.3 2/26/2015	F16 F16S02BS04A 1502392 Fill 3.3 - 6.6 2/26/2015	F16 F16S04BS05 1502392 Fill 6.6 - 10 2/26/2015	F16 F16S06S07A 1502392 Fill 10 - 13.3 2/26/2015	F16 F16S07BS08 1502392 Fill 13.3 - 16 2/26/2015	F16 F16S09 1502392 Natural Sand/Gravel 16 - 18 2/26/2015	F16 F16S10 1502392 Natural Sand/Gravel 19 - 21 2/26/2015	F16 F16S11 1502392 Natural Sand/Gravel 24 - 26 2/26/2015	F16 F16S12 1502392 Natural Sand/Gravel 29 - 31 2/26/2015	F16 F16S13S14 1502392 Natural Sand/Gravel 34 - 38 2/26/2015
Preliminary Disposal Facility Category		MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Uncontaminated	Hazardous Material Type A	MCP Regulated Type A	Hazardous Material Type B	Hazardous Material Type A	MCP Regulated Type A	Uncontaminated	MCP Regulated Type A	See GZ011S14S15	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	Uncontaminated	MCP Regulated Type A	Uncontaminated
Styrene	mg/kg	<0.0048	<0.0043	<0.0038	<0.0035	<0.0038	<0.0042	0.0141	<0.0020	<0.0018	<0.0038	<0.0031	<0.0022	<0.0025	--	<0.0069	<0.0035	<0.0045	<0.0031	<0.0028	<0.0036	<0.0028	<0.0039	<0.0028	<0.0035
tert-Butylbenzene	mg/kg	<0.0048	<0.0043	<0.0038	<0.0035	<0.0038	<0.0042	<0.0042	<0.0020	<0.0018	<0.0038	<0.0031	<0.0022	<0.0025	--	<0.0069	<0.0035	<0.0045	<0.0031	<0.0028	<0.0036	<0.0028	<0.0039	<0.0028	<0.0035
Tertiary-amyl methyl ether	mg/kg	<0.0048	<0.0043	<0.0038	<0.0035	<0.0038	<0.0042	<0.0042	<0.0020	<0.0018	<0.0038	<0.0031	<0.0022	<0.0025	--	<0.0069	<0.0035	<0.0045	<0.0031	<0.0028	<0.0036	<0.0028	<0.0039	<0.0028	<0.0035
Tetrachloroethene	mg/kg	<0.0048	<0.0043	<0.0038	<0.0035	<0.0038	<0.0042	<0.0042	<0.0020	<0.0018	<0.0038	<0.0031	<0.0022	<0.0025	--	<0.0069	<0.0035	<0.0045	<0.0031	<0.0028	<0.0036	<0.0028	<0.0039	<0.0028	<0.0035
Tetrahydrofuran	mg/kg	<0.0048	<0.0043	<0.0038	<0.0035	<0.0038	<0.0042	<0.0042	<0.0020	<0.0018	<0.0038	<0.0031	<0.0022	<0.0025	--	<0.0069	<0.0035	<0.0045	<0.0031	<0.0028	<0.0036	<0.0028	<0.0039	<0.0028	<0.0035
Toluene	mg/kg	0.0079	<0.0043	<0.0038	<0.0035	<0.0038	<0.0042	<0.0042	<0.0020	<0.0018	<0.0038	<0.0031	<0.0022	<0.0025	--	<0.0069	<0.0035	<0.0045	<0.0031	<0.0028	<0.0036	<0.0028	<0.0039	<0.0028	<0.0035
trans-1,2-Dichloroethene	mg/kg	<0.0048	<0.0043	<0.0038	<0.0035	<0.0038	<0.0042	<0.0042	<0.0020	<0.0018	<0.0038	<0.0031	<0.0022	<0.0025	--	<0.0069	<0.0035	<0.0045	<0.0031	<0.0028	<0.0036	<0.0028	<0.0039	<0.0028	<0.0035
trans-1,3-Dichloropropene	mg/kg	<0.0048	<0.0043	<0.0038	<0.0035	<0.0038	<0.0042	<0.0042	<0.0020	<0.0018	<0.0038	<0.0031	<0.0022	<0.0025	--	<0.0069	<0.0035	<0.0045	<0.0031	<0.0028	<0.0036	<0.0028	<0.0039	<0.0028	<0.0035
Trichloroethene	mg/kg	<0.0048	<0.0043	<0.0038	<0.0035	<0.0038	<0.0042	<0.0042	<0.0020	<0.0018	<0.0038	<0.0031	<0.0022	<0.0025	--	<0.0069	<0.0035	<0.0045	<0.0031	<0.0028	<0.0036	<0.0028	<0.0039	<0.0028	<0.0035
Trichlorofluoromethane	mg/kg	<0.0048	<0.0043	<0.0038	<0.0035	<0.0038	<0.0042	<0.0042	<0.0020	<0.0018	<0.0038	<0.0031	<0.0022	<0.0025	--	<0.0069	<0.0035	<0.0045	<0.0031	<0.0028	<0.0036	<0.0028	<0.0039	<0.0028	<0.0035
Vinyl Chloride	mg/kg	<0.0096	<0.0085	<0.0075	<0.0070	<0.0075	<0.0084	<0.0084	<0.0040	<0.0035	<0.0076	<0.0062	<0.0045	<0.0050	--	<0.0138	<0.0071	<0.0090	<0.0062	<0.0056	<0.0072	<0.0057	<0.0078	<0.0055	<0.0071
Xylene O	mg/kg	0.0099	<0.0043	<0.0038	<0.0035	<0.0038	<0.0042	0.0048	<0.0020	<0.0018	<0.0038	<0.0031	<0.0022	<0.0025	--	<0.0069	<0.0035	<0.0045	<0.0031	<0.0028	<0.0036	<0.0028	<0.0039	<0.0028	<0.0035
Xylene P,M	mg/kg	0.0113	<0.0085	<0.0075	<0.0070	<0.0075	<0.0084	<0.0084	<0.0040	<0.0035	<0.0076	<0.0062	<0.0045	<0.0050	--	<0.0138	<0.0071	<0.0090	<0.0062	<0.0056	<0.0072	<0.0057	<0.0078	<0.0055	<0.0071
Xylenes (Total)	mg/kg	0.0213	<0.0085	<0.0075	<0.0070	<0.0075	<0.0084	<0.0084	<0.0040	<0.0035	<0.0076	<0.0062	<0.0045	<0.0050	--	<0.0138	<0.0071	<0.0090	<0.0062	<0.0056	<0.0072	<0.0057	<0.0078	<0.0055	<0.0071
Total VOCs (Low Level)	mg/kg	0.2124	0.0453	ND	0.008	0.0093	ND	0.6668	ND	ND	0.0081	0.0293	ND	ND	--	ND	ND	0.063	ND	ND	0.1067	0.0145	ND	0.0056	ND
Semi-Volatile Organic Compounds																									
1,2,4-Trichlorobenzene	mg/kg	<1.03	<1.07	<1.09	<0.981	<1.01	<1.03	<0.876	<0.886	<0.962	<1.13	<0.901	<0.882	--	<0.856	<0.908	<0.889	<0.994	<0.907	<0.980	<1.03	<0.914	<0.912	<0.886	<1.00
1,2-Dichlorobenzene	mg/kg	<1.03	<1.07	<1.09	<0.981	<1.01	<1.03	<0.876	<0.886	<0.962	<1.13	<0.901	<0.882	--	<0.856	<0.908	<0.889	<0.994	<0.907	<0.980	<1.03	<0.914	<0.912	<0.886	<1.00
1,3-Dichlorobenzene	mg/kg	<1.03	<1.07	<1.09	<0.981	<1.01	<1.03	<0.876	<0.886	<0.962	<1.13	<0.901	<0.882	--	<0.856	<0.908	<0.889	<0.994	<0.907	<0.980	<1.03	<0.914	<0.912	<0.886	<1.00
1,4-Dichlorobenzene	mg/kg	<0.515	<0.535	<0.548	<0.492	<0.506	<0.515	<0.439	<0.445	<0.483	<0.568	<0.452	<0.442	--	<0.429	<0.455	<0.446	<0.499	<0.455	<0.491	<0.515	<0.458	<0.457	<0.444	<0.502
2,4,5-Trichlorophenol	mg/kg	<1.03	<1.07	<1.09	<0.981	<1.01	<1.03	<0.876	<0.886	<0.962	<1.13	<0.901	<0.882	--	<0.856	<0.908	<0.889	<0.994	<0.907	<0.980	<1.03	<0.914	<0.912	<0.886	<1.00
2,4,6-Trichlorophenol	mg/kg	<1.03	<1.07	<1.09	<0.981	<1.01	<1.03	<0.876	<0.886	<0.962	<1.13	<0.901	<0.882	--	<0.856	<0.908	<0.889	<0.994	<0.907	<0.980	<1.03	<0.914	<0.912	<0.886	<1.00
2,4-Dichlorophenol	mg/kg	<1.03	<1.07	<1.09	<0.981	<1.01	<1.03	<0.876	<0.886	<0.962	<1.13	<0.901	<0.882	--	<0.856	<0.908	<0.889	<0.994	<0.907	<0.980	<1.03	<0.914	<0.912	<0.886	<1.00
2,4-Dimethylphenol	mg/kg	<1.03	<1.07	<1.09	<0.981	<1.01	<1.03	<0.876	<0.886	<0.962	<1.13	<0.901	<0.882	--	<0.856	<0.908	<0.889	<0.994	<0.907	<0.980	<1.03	<0.914	<0.912	<0.886	<1.00
2,4-Dinitrophenol	mg/kg	<5.15	<5.35	<5.48	<4.92	<5.06	<5.15	<4.39	<4.45	<4.83	<5.68	<4.52	<4.42	--	<4.29	<4.55	<4.46	<4.99	<4.55	<4.91	<5.15	<4.58	<4.57	<4.44	<5.02
2,4-Dinitrotoluene	mg/kg	<1.03	<1.07	<1.09	<0.981	<1.01	<1.03	<0.876	<0.886	<0.962	<1.13	<0.901	<0.882	--	<0.856	<0.908	<0.889	<0.994	<0.907	<0.980	<1.03	<0.914	<0.912	<0.886	<1.00
2,6-Dinitrotoluene	mg/kg	<1.03	<1.07	<1.09	<0.981	<1.01	<1.03	<0.876	<0.886	<0.962	<1.13	<0.901	<0.882	--	<0.856	<0.908	<0.889	<0.994	<0.907	<0.980	<1.03	<0.914	<0.912	<0.886	<1.00
2-Chloronaphthalene	mg/kg	<1.03	<1.07	<1.09	<0.981	<1.01	<1.03	<0.876	<0.886	<0.962	<1.13	<0.901	<0.882	--	<0.856	<0.908	<0.889	<0.994	<0.907	<0.980	<1.03	<0.914	<0.912	<0.886	<1.00
2-Chlorophenol	mg/kg	<1.03	<1.07	<1.09	<0.981	<1.01	<1.03	<0.876	<0.886	<0.962	<1.13	<0.901	<0.882	--	<0.856	<0.908	<0.889	<0.994	<0.907	<0.980	<1.03	<0.914	<0.912	<0.886	<1.00
2-Methylnaphthalene	mg/kg	<1.03	<1.07	<1.09	<0.981	<1.01	<1.03	4.32	<0.886	<0.962	<1.13	<0.901	<0.882	--	<0.856	<0.908	<0.889	<0.994	<0.907	<0.980	<1.03	<0.914	<0.912	<0.886	<1.00
2-Methylphenol	mg/kg	<1.03	<1.07	<1.09	<0.981	<1.01	<1.03	<0.876	<0.886	<0.962	<1.13	<0.901	<0.882	--	<0.856	<0.908	<0.889	<0.994	<0.907	<0.980	<1.03	<0.914	<0.912	<0.886	<1.00
2-Nitrophenol	mg/kg	<1.03	<1.07	<1.09	<0.981	<1.01	<1.03	<0.876	<0.886	<0.962	<1.13	<0.901	<0.882	--	<0.856	<0.908	<0.889	<0.994	<0.907	<0.980	<1.03	<0.914	<0.912	<0.886	<1.00
3,3´-Dichlorobenzidine	mg/kg	<2.06	<2.14	<2.19	<1.97	<2.02	<2.06	<1.75	<1.78	<1.93	<2.27	<1.80	<1.77	--	<1.71	<1.82	<1.78	<1.99	<1.82	<1.96	<2.06	<1.83	<1.83	<1.77	<2.01
3+4-Methylphenol	mg/kg	<2.06	<2.14	<2.19	<1.97	<2.02	<2.06	<1.75	<1.78	<1.93	<2.27	<1.80	<1.77	--	<1.71	<1.82	<1.78	<1.99	<1.82	<1.96	<2.06	<1.83	<1.83	<1.77	<2.01
4-Bromophenyl-phenylether	mg/kg	<1.03	<1.07	<1.09	<0.981	<1.01	<1.03	<0.876	<0.886	<0.962	<1.13	<0.901	<0.882	--	<0.856	<0.908	<0.889	<0.994	<0.907	<0.980	<1.03	<0.914	<0.912	<0.886	<1.00
4-Chloroaniline	mg/kg	<2.06	<2.14	<2.19	<1.97	<2.02	<2.06	<1.75	<1.78	<1.93	<2.27	<1.80	<1.77	--	<1.71	<1.82	<1.78	<1.99	<1.82	<1.96	<2.06	<1.83	<1.83	<1.77	<2.01
4-Nitrophenol	mg/kg	<5.15	<5.35	<5.48	<4.92	<5.06	<5.15	<4.39	<4.45	<4.83	<5.68	<4.52	<4.42	--	<4.29	<4.55	<4.46	<4.99	<4.55	<4.91	<5.15	<4.58	<4.57	<4.44	<5.02
Acenaphthene	mg/kg	<1.03	<1.07	<1.09	<0.981	<1.01	<1.03	4.62	<0.886	<0.962	<1.13	<0.901	<0.882	--	<0.856	<0.908	<0.889	<0.994	<0.907	<0.980	<1.03	<0.914	<0.912	<0.886	<1.00
Acenaphthylene	mg/kg	<1.03	<1.07	<1.09	<0.981	<1.01	<1.03	<0.876	<0.886	<0.962	<1.13	<0.901	<0.882	--	<0.856	<0.908	<0.889	<0.994	<0.907	<0.980	<1.03	<0.914	<0.912	<0.886	<1.00
Acetophenone	mg/kg	<2.06	<2.14	<2.19	<1.97	<2.02	<2.06	<1.75	<1.78	<1.93	<2.27	<1.80	<1.77	--	<1.71	<1.82	<1.78	<1.99	<1.82	<1.96	<2.06	<1.83	<1.83	<1.77	<2.01
Aniline	mg/kg	<5.15	<5.35	<5.48	<4.92	<5.06	<5.15	<4.39	<4.45	<4.83	<5.68	<4.52	<4.42	--	<4.29	<4.55	<4.46	<4.99	<4.55	<4.91	<5.15	<4.58	<4.57	<4.44	<5.02
Anthracene	mg/kg	<1.03	<1.07	<1.09	<0.981	<1.01	<1.03	9.54	<0.886	<0.962	1.76	<0.901	<0.882	--	<0.856	<0.908	<0.889	<0.994	<0.907	<0.980	<1.03	<0.914	<0.912	<0.886	<1.00
Azobenzene	mg/kg	<1.03	<1.07	<1.09	<0.981	<1.01	<1.03	<0.876	<0.886	<0.962	<1.13	<0.901	<0.882	--	<0.856	<0.908	<0.889	<0.994	<0.907	<0.980	<1.03	<0.914	<0.912	<0.886	<1.00
Benzo(a)anthracene	mg/kg	<1.03	<1.07	<1.09	<0.981	<1.01	<1.03	9.11	<0.886	<0.962	3	<0.901	<0.882	--	<0.856	<0.908	<0.889	<0.994	1.1	<0.980	<1.03	<0.914	<0.912	<0.886	<1.00
Benzo(a)pyrene	mg/kg	<0.515	<0.535	<0.548	<0.492	<0.506	<0.515	6.87	<0.445	0.641	2.77	<0.452	<0.442	--	<0.429	<0.455	<0.446	<0.499	0.846	<0.491	0.671	<0.458	<0.457	<0.444	<0.502
Benzo(b)fluoranthene	mg/kg	<1.03	<1.07	<1.09	<0.981	<1.01	<1.03	7.32	<0.886	1.47	3.05	<0.901	<0.882	--	<0.856	<0.908	<0.889	<0.994	1.22	<0.980	<1.03	<0.914	<0.912	<0.886	<1.00
Benzo(g,h,i)perylene	mg/kg	<1.03	<1.07	<1.09	<0.981	<1.01	<1.03	2.92	<0.886	<0.962	1.65	<0.901	<0.882	--	<0.856	<0.908	<0.889	<0.994	<0.907	<0.980	<1.03	<0.914	<0.912	<0.886	<1.00
Benzo(k)fluoranthene	mg/kg	<1.03	<1.07	<1.09	<0.981	<1.01	<1.03	2.91	<0.886	<0.962	1.31	<0.901	<0.882	--	<0.856	<0.908	<0.889	<0.994	<0.907	<0.980	<1.03	<0.914	<0.912	<0.886	<1.00
bis(2-Chloroethoxy)methane	mg/kg	<1.03	<1.07	<1.09	<0.981	<1.01	<1.03	<0.876	<0.886	<0.962	<1.13	<0.901	<0.882	--	<0.856	<0.908	<0.889	<0.994	<0.907	<0.980	<1.03	<0.914	<0.912	<0.886	<1.00
bis(2-Chloroethyl)ether	mg/kg	<0.515	<0.535	<0.548	<0.492	<0.506	<0.515	<0.439	<0.445	<0.483	<0.568	<0.452	<0.442	--	<0.429	<0.455	<0.446	<0.499	<0.455	<0.491	<0.515	<0.458	<0.457	<0.444	<0.502
bis(2-chloroisopropyl)Ether	mg/kg	<0.515	<0.535	<0.548	<0.492	<0.506	<0.515	<0.439	<0.445	<0.483	<0.568	<0.452	<0.442	--	<0.429	<0.455	<0.446	<0.499	<0.455	<0.491	<0.515	<0.458	<0.457	<0.444	<0.502
bis(2-Ethylhexyl)phthalate	mg/kg	<1.03	<1.07	<1.09	<0.981	<1.01	<1.03	2.46	<0.886	<0.962	<1.13	<0.901	<0.882	--	<0.856	<0.908	<0.889	<0.994	<0.907	<0.980	<1.03	<0.914	<0.912	1.45	<1.00
Butylbenzylphthalate	mg/kg	<1.03	<1.07	<1.09	<0.981	<1.01	<1.03	<0.876	<0.886	<0.962	<1.13	<0.901	<0.882	--	<0.856	<0.908	<0.889	<0.994	<0.907	<0.980	<1.03	<0.914	<0.912	<0.886	<1.00
Chrysene	mg/kg	0.661	<0.535	<0.548	<0.492	<0.506	<0.515	7.45	<0.445	1.04	3.1	<0.452	<0.442	--	<0.429	<0.455	<0.446	<0.499	1.06	<0.491	0.7	<0.458	<0.457	<0.444	<0.502
Dibenzo(a,h)Anthracene	mg/kg	<0.515	<0.535	<0.548	<0.492	<0.506	<0.515	1.88	<0.445	<0.483	<0.568	<0.452	<0.442	--	<0.429	<0.455	<0.446	<0.499	<0.455	<0.491	<0.515	<0.458	<0.457	<0.444	<0.502
Dibenzofuran	mg/kg	<1.03	<1.07	<1.09	<0.981	<1.01	<1.03	5.19	<0.886	<0.962	<1.13	<0.901	<0.882	--	<0.856	<0.908	<0.889	<0.994	<0.907	<0.980	<1.03	<0.914	<0.912	<0.886	<1.00
Diethylphthalate	mg/kg	<1.03	<1.07	<1.09	<0.981	<1.01	<1.03	<0.876	<0.886	<0.962	<1.13	<0.901	<0.882	--	<0.856	<0.908	<0.889	<0.994	<0.907	<0.980	<1.03	<0.914	<0.912	<0.886	<1.00
Dimethylphthalate	mg/kg	<1.03	<1.07	<1.09	<0.981	<1.01	<1.03	<0.876	<0.886	<0.962	<1.13	<0.901	<0.882	--	<0.856	<0.908	<0.889	<0.994	<0.907	<0.980	<1.03	<0.914	<0.912	<0.886	<1.00
Di-n-butylphthalate	mg/kg	<1.03	<1.07	<1.09	<0.981	<1.01	<1.03	<0.876	<0.886	<0.962	<1.13	<0.901	<0.882	--	<0.856	<0.908	<0.889	<0.994	<0.907	<0.980	<1.03	<0.914	<0.912	<0.886	<1.00
Di-n-octylphthalate	mg/kg	<1.03	<1.07	<1.09	<0.981	<1.01	<1.03	<0.876	<0.886	<0.962	<1.13	<0.901	<0.882	--	<0.856	<0.908	<0.889	<0.994	<0.907	<0.980	<1.03	<0.914	<0.912	<0.886	<1.00
Fluoranthene	mg/kg	<1.03	<1.07	<1.09	<0.981	<1.01	<1.03	19	<0.886	1.3	6.92	<0.901	<0.882	--	<0.856	<0.908	<0.889	<0.994	2.23	<0.980	1.69	<0.914	<0.912	<0.886	<1.00
Fluorene	mg/kg	<1.03	<1.07	<1.09	<0.981	<1.01	<1.03	5.17	<0.886	<0.962	<1.13	<0.901	<0.882	--	<0.856	<0.908	<0.889	<0.994	<0.907	<0.980	<1.03	<0.914	<0.912	<0.886	<1.00
Hexachlorobenzene	mg/kg	<0.515	<0.535	<0.548	<0.492	<0.506	<0.515	<0.439	<0.445	<0.483	<0.568	<0.452	<0.442	--	<0.429	<0.455	<0.446	<0.499	<0.455	<0.491	<0.515	<0.458	<0.457	<0.444	<0.502
Hexachlorobutadiene	mg/kg	<1.03	<1.07	<1.09	<0.981	<1.01	<1.03	<0.876	<0.886	<0.962	<1.13	<0.901	<0.882	--	<0.856	<0.908	<0.889	<0.994	<0.907	<0.980	<1.03	<0.914	<0.912	<0.886	<1.00
Hexachloroethane	mg/kg	<1.03	<1.07	<1.09	<0.981	<1.01	<1.03	<0.876	<0.886	<0.962	<1.13	<0.901	<0.882	--	<0.856	<0.908	<0.889	<0.994	<0.907	<0.980	<1.03	<0.914	<0.912	<0.886	<1.00
Indeno(1,2,3-cd)Pyrene	mg/kg	<1.03	<1.07	<1.09	<0.981	<1.01	<1.03	2.91	<0.886	<0.962	1.55	<0.901	<0.882	--	<0.856	<0.908	<0.889	<0.994	<0.907	<0.980	<1.03	<0.914	<0.912	<0.886	<1.00
Isophorone	mg/kg	<1.03	<1.07	<1.09	<0.981	<1.01	<1.03	<0.876	<0.886	<0.962	<1.13	<0.901	<0.882	--	<0.856	<0.908	<0.889	<0.994	<0.907	<0.980	<1.03	<0.914	<0.912	<0.886	<1.00
Naphthalene	mg/kg	1.07	<1.07	<1.09	<0.981	<1.01	<1.03	7.65	<0.886	1	<1.13	<0.901	<0.882	--	<0.856	<0.908	<0.889	<0.994	<0.907	<0.980	<1.03	<0.914	<0.912	<0.886	<1.00
Nitrobenzene	mg/kg	<1.03	<1.07	<1.09	<0.981	<1.01	<1.03	<0.876	<0.886	<0.962	<1.13	<0.901	<0.882	--	<0.856	<0.908	<0.889	<0.994	<0.907	<0.980	<1.03	<0.914	<0.912	<0.886	<1.00
N-Nitrosodimethylamine	mg/kg	<1.03	<1.07	<1.09	<0.981	<1.01	<1.03	<0.876	<0.886	<0.962	<1.13	<0.901	<0.882	--	<0.856	<0.908	<0.889	<0.994	<0.907	<0.980	<1.03	<0.914	<0.912	<0.886	<1.00
Pentachlorophenol	mg/kg	<5.15	<5.35	<5.48	<4.92	<5.06	<5.15	<4.39	<4.45	<4.83	<5.68	<4.52	<4.42	--	<4.29	<4.55	<4.46	<4.99	<4.55	<4.91	<5.15	<4.58	<4.57	<4.44	<5.02
Phenanthrene	mg/kg	<1.03	<1.07	<1.09	<0.981	<1.01	<1.03	42.4	<0.886	1.09	6.05	<0.901	<0.882	--	<0.856	<0.908	<0.889	<0.994	1.07	<0.980	<1.03	<0.914	<0.912	<0.886	<1.00
Phenol	mg/kg	<1.03	<1.07	<1.09	<0.981	<1.01	<1.03	<0.876	<0.886	<0.962	<1.13	<0.901	<0.882	--	<0.856	<0.908	<0.889	<0.994	<0.907	<0.980	<1.03	<0.914	<0.912	<0.886	<1.00
Pyrene	mg/kg	1.35	<1.07	<1.09	<0.981	<1.01	<1.03	16.7	<0.886	1.1	5.71	<0.901	<0.882	--	<0.856	<0.908	<0.889	<0.994	1.64	<0.980	1.15	<0.914	<0.912	<0.886	<1.00
Total SVOCs	mg/kg	3.081	ND	ND	ND	ND	ND	158.42	ND	7.641	36.87	ND	ND	--	ND	ND	ND	ND	9.166	ND	4.211	ND	ND	1.45	ND
Classic Chemistry																									
Corrosivity (pH)	S.U.	6.18	5.79	7.32	7.38	5.76	5.28	9.34	9.11	6.99	6.19	5.81	5.27	--	5.53	8.78	8.68	7.4	8.22	6.91	6.12	5.74	5.24	5.35	5.51
Conductivity	umhos/cm	2140	6230	2940	171	534	798	225	247	2670	1650	1160	1870	--	1840	111	73	658	225	355	629	272	130	39	147
Flashpoint	°F	>200	--	--	--	--	--	>200	>200	>200	>200	>200	>200	--	>200	>200	>200	>200	>200	>200	--	--	--	--	--
Reactive Cyanide	mg/kg	<2.0	--	--	--	--	--	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--	--	--	--	--
Reactive Sulfide	mg/kg	<2.0	--	--	--	--	--	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--	--	--	--	--

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	F17 F17S01S02A 1501359 Fill 0 - 3.3 1/19/2015	F17 F17S02BS04A 1501359 Fill 3.3 - 6.6 1/19/2015	F17 F17S04BS05 1501359 Fill 6.6 - 10 1/19/2015	F17 F17S06S07A 1501359 Fill 10 - 13.3 1/19/2015	F17 F17S07BS08A 1501359 Natural Sand/Gravel 13.3 - 14.1 1/19/2015	F17 F17S08B 1501359 Natural Clay 14.1 - 16 1/19/2015	F17 F17S09 1501359 Natural Organics 19 - 21 1/19/2015	F17 F17S10 1501359 Natural Sand/Gravel 24 - 26 1/19/2015	F17 F17S11 1501359 Natural Clay 29 - 31 1/19/2015	F17 F17S12S13 1501359 Natural Clay 34 - 38 1/19/2015	F18 F18S01S02A 1501031 Fill 0.03 - 3.3 1/5/2015	F18 F18S02BS04A 1501031 Fill 3.3 - 6.6 1/5/2015	F18 F18S04BS05 1501031 Fill 6.6 - 9 1/5/2015	F18 F18S06 1501031 Natural Organics 9 - 11 1/5/2015	F18 F18S07 1501031 Natural Sand/Gravel 14 - 16 1/5/2015	F18 F18S08 1501031 Natural Sand/Gravel 19 - 21 1/5/2015	F18 F18S09 1501031 Natural Organics 24 - 26 1/5/2015	F18 F18S10 1501031 Natural Organics 29 - 31 1/5/2015	F18 F18S11S12 1501031 Natural Sand/Gravel 34 - 38 1/5/2015	F19 F19S01S02A 1502257 Fill 0 - 3.3 2/18/2015	F19 F19S02BS04A 1502257 Fill 3.3 - 6.6 2/18/2015	F19 F19S04BS05 1502257 Fill 6.6 - 10 2/18/2015	F19 F19S06 1502257 Natural Organics 10 - 12 2/18/2015	F19 F19S07 1502257 Natural Organics 14 - 16 2/18/2015
Preliminary Disposal Facility Category		MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A
RCRA 8 Metals	**Units**																									
Arsenic	mg/kg	11	8.28	53.9	111	75.3	30.6	11.4	<7.17	<7.67	<7.68	6.14	4.82	21.2	3.03	5.06	26.7	153	343	16	10.9	10.1	27.5	28.1	32.5
Barium	mg/kg	14	25.9	183	253	208	25.7	15.3	<7.17	112	21.5	15.1	15.4	70.3	4.05	11.6	29.8	24.6	206	21.3	17.9	150	31.5	<6.46	28.3
Cadmium	mg/kg	<1.30	<1.32	2.29	8.5	7.75	<1.68	8.94	<1.43	<1.53	<1.54	<0.47	<0.43	0.85	<0.49	<0.51	0.78	3.29	9.12	0.54	<1.37	<1.39	<1.39	<1.29	<1.64
Chromium	mg/kg	21.4	22	19.3	14.1	10.6	10.6	16.1	8.86	43.1	20.1	17.3	16.8	21.3	6.3	9.56	18.5	18.5	81.1	9.96	20.8	37.5	21.2	9.97	42.9
Lead	mg/kg	<13.0	15.8	497	920	886	409	<15.6	<14.3	<15.3	<15.4	10.5	10.5	348	9.72	17.1	87.9	150	2190	142	18.8	95.3	110	<12.9	93.3
Selenium	mg/kg	<6.52	<6.62	<7.07	<8.27	<8.97	<8.38	<15.6	<14.3	<7.67	<7.68	<9.46	<8.66	<10.1	<9.72	<10.1	<12.6	<13.2	98.4	<10.6	<6.87	<6.97	<6.95	<6.46	<8.18
Silver	mg/kg	<1.30	<1.32	3.6	6.33	3.74	5.66	<1.56	<1.43	<1.53	<1.54	<0.47	<0.43	0.53	<0.49	<0.51	<0.63	<0.66	1.58	<0.53	<1.37	<1.39	<1.39	<1.29	<1.64
Mercury	mg/kg	<0.034	<0.034	0.481	0.177	0.092	1.78	<0.035	<0.036	<0.034	<0.038	<0.035	0.142	0.452	<0.039	0.297	2.05	3.39	10.5	0.18	<0.033	<0.037	0.758	0.092	1.06
Metals by Toxicity Characteristic Leaching Procedure (TCLP)																										
Arsenic	mg/L	--	--	--	<0.050	--	--	--	--	--	--	--	--	--	--	--	--	1.74	0.63	--	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead	mg/L	--	--	0.215	0.785	0.211	<0.050	--	--	--	--	--	--	0.058	--	--	--	<0.050	<0.050	0.279	--	--	<0.050	--	--
Selenium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.050	--	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.00050	--	--	--	--	--	--
Herbicides																										
2,4,5-T	mg/kg	<0.043	<0.043	<0.046	<0.052	<0.054	--	--	--	<0.049	--	<0.054	<0.057	<0.056	--	--	--	--	--	--	<0.053	<0.053	<0.056	<0.057	--
2,4-D	mg/kg	<0.22	<0.22	<0.23	<0.26	<0.27	--	--	--	<0.24	--	<0.054	<0.057	<0.056	--	--	--	--	--	--	<0.053	<0.053	<0.056	<0.057	--
2,4-DB	mg/kg	<0.016	<0.016	<0.017	<0.020	<0.020	--	--	--	<0.018	--	<0.054	<0.057	<0.056	--	--	--	--	--	--	<0.053	<0.053	<0.056	<0.057	--
Dalapon	mg/kg	<1.3	<1.3	<1.4	<1.6	<1.6	--	--	--	<1.5	--	<0.65	<0.69	<0.68	--	--	--	--	--	--	<0.64	<0.64	<0.68	<0.69	--
Dicamba	mg/kg	<0.065	<0.065	<0.069	<0.079	<0.080	--	--	--	<0.073	--	<0.054	<0.057	<0.056	--	--	--	--	--	--	<0.053	<0.053	<0.056	<0.057	--
Dichlorprop	mg/kg	<0.14	<0.14	<0.15	<0.17	<0.17	--	--	--	<0.16	--	<0.054	<0.057	<0.056	--	--	--	--	--	--	<0.053	<0.053	<0.056	<0.057	--
Dinoseb	mg/kg	<0.22	<0.22	<0.23	<0.26	<0.27	--	--	--	<0.24	--	<0.32	<0.35	<0.34	--	--	--	--	--	--	<0.32	<0.32	<0.34	<0.34	--
MCPA	mg/kg	<54	<54	<58	<66	<67	--	--	--	<61	--	<13	<14	<14	--	--	--	--	--	--	<13	<13	<14	<14	--
MCPP	mg/kg	<54	<54	<58	<66	<67	--	--	--	<61	--	<13	<14	<14	--	--	--	--	--	--	<13	<13	<14	<14	--
Silvex (2,4,5-TP)	mg/kg	<0.043	<0.043	<0.046	<0.052	<0.054	--	--	--	<0.049	--	<0.054	<0.057	<0.056	--	--	--	--	--	--	<0.053	<0.053	<0.056	<0.057	--
Pesticides																										
4,4'-DDD	mg/kg	<0.0018	<0.018	<0.0039	<0.0044	<0.0023	--	--	--	<0.0021	--	<0.0018	<0.0019	<0.0095	--	--	--	--	--	--	<0.0019	<0.0019	<0.0020	<0.0020	--
4,4'-DDE	mg/kg	<0.0018	<0.018	<0.0039	<0.0044	<0.0023	--	--	--	<0.0021	--	<0.0018	<0.0019	<0.0095	--	--	--	--	--	--	<0.0019	<0.0019	<0.0020	<0.0020	--
4,4'-DDT	mg/kg	<0.0018	<0.018	<0.0039	<0.0044	<0.0023	--	--	--	<0.0021	--	<0.0018	<0.0019	<0.0095	--	--	--	--	--	--	<0.0019	<0.0019	<0.0020	<0.0020	--
Aldrin	mg/kg	<0.0018	<0.018	<0.0039	<0.0044	<0.0023	--	--	--	<0.0021	--	<0.0018	<0.0019	<0.0095	--	--	--	--	--	--	<0.0019	<0.0019	<0.0020	<0.0020	--
alpha-BHC	mg/kg	<0.0018	<0.018	<0.0039	<0.0044	<0.0023	--	--	--	<0.0021	--	<0.0018	<0.0019	<0.0095	--	--	--	--	--	--	<0.0019	<0.0019	<0.0020	<0.0020	--
beta-BHC	mg/kg	<0.0018	<0.018	<0.0039	<0.0044	<0.0023	--	--	--	<0.0021	--	<0.0018	<0.0019	<0.0095	--	--	--	--	--	--	<0.0019	<0.0019	<0.0020	<0.0020	--
Chlordane (technical)	mg/kg	<0.018	<0.18	<0.039	<0.044	<0.023	--	--	--	<0.021	--	<0.018	<0.019	<0.095	--	--	--	--	--	--	<0.019	<0.019	<0.020	<0.020	--
delta-BHC	mg/kg	<0.0018	<0.018	<0.0039	<0.0044	<0.0023	--	--	--	<0.0021	--	<0.0018	<0.0019	<0.0095	--	--	--	--	--	--	<0.0019	<0.0019	<0.0020	<0.0020	--
Dieldrin	mg/kg	<0.0018	<0.018	<0.0039	<0.0044	<0.0023	--	--	--	<0.0021	--	<0.0018	<0.0019	<0.0095	--	--	--	--	--	--	<0.0019	<0.0019	<0.0020	<0.0020	--
Endosulfan I	mg/kg	<0.0018	<0.018	<0.0039	<0.0044	<0.0023	--	--	--	<0.0021	--	<0.0018	<0.0019	<0.0095	--	--	--	--	--	--	<0.0019	<0.0019	<0.0020	<0.0020	--
Endosulfan II	mg/kg	<0.0018	<0.018	<0.0039	<0.0044	<0.0023	--	--	--	<0.0021	--	<0.0018	<0.0019	<0.0095	--	--	--	--	--	--	<0.0019	<0.0019	<0.0020	<0.0020	--
Endosulfan sulfate	mg/kg	<0.0018	<0.018	<0.0039	<0.0044	<0.0023	--	--	--	<0.0021	--	<0.0018	<0.0019	<0.0095	--	--	--	--	--	--	<0.0019	<0.0019	<0.0020	<0.0020	--
Endrin	mg/kg	<0.0018	<0.018	<0.0039	<0.0044	<0.0023	--	--	--	<0.0021	--	<0.0018	<0.0019	<0.0095	--	--	--	--	--	--	<0.0019	<0.0019	<0.0020	<0.0020	--
Endrin ketone	mg/kg	<0.0018	<0.018	<0.0039	<0.0044	<0.0023	--	--	--	<0.0021	--	<0.0018	<0.0019	<0.0095	--	--	--	--	--	--	<0.0019	<0.0019	<0.0020	<0.0020	--
gamma-BHC (Lindane)	mg/kg	<0.0018	<0.018	<0.0039	<0.0044	<0.0023	--	--	--	<0.0021	--	<0.0018	<0.0019	<0.0095	--	--	--	--	--	--	<0.0019	<0.0019	<0.0020	<0.0020	--
Heptachlor	mg/kg	<0.0018	<0.018	<0.0039	<0.0044	<0.0023	--	--	--	<0.0021	--	<0.0018	<0.0019	<0.0095	--	--	--	--	--	--	<0.0019	<0.0019	<0.0020	<0.0020	--
Heptachlor epoxide	mg/kg	<0.0018	<0.018	<0.0039	<0.0044	<0.0023	--	--	--	<0.0021	--	<0.0018	<0.0019	<0.0095	--	--	--	--	--	--	<0.0019	<0.0019	<0.0020	<0.0020	--
Hexachlorobenzene	mg/kg	<0.0018	<0.018	<0.0039	<0.0044	<0.0023	--	--	--	<0.0021	--	<0.0018	<0.0019	<0.0095	--	--	--	--	--	--	<0.0019	<0.0019	<0.0020	<0.0020	--
Methoxychlor	mg/kg	<0.0018	<0.018	<0.0039	<0.0044	<0.0023	--	--	--	<0.0021	--	<0.0018	<0.0019	<0.0095	--	--	--	--	--	--	<0.0019	<0.0019	<0.0020	<0.0020	--
Polychlorinated Biphenyls																										
Aroclor 1016	mg/kg	<0.130	<0.123	<0.137	<0.149	<0.172	<0.160	<0.148	<0.131	<0.136	<0.136	<0.127	<0.126	<0.140	<0.146	<0.160	<0.166	<0.163	<0.185	<0.143	<0.133	<0.131	<0.148	<0.136	<0.179
Aroclor 1221	mg/kg	<0.130	<0.123	<0.137	<0.149	<0.172	<0.160	<0.148	<0.131	<0.136	<0.136	<0.127	<0.126	<0.140	<0.146	<0.160	<0.166	<0.163	<0.185	<0.143	<0.133	<0.131	<0.148	<0.136	<0.179
Aroclor 1232	mg/kg	<0.130	<0.123	<0.137	<0.149	<0.172	<0.160	<0.148	<0.131	<0.136	<0.136	<0.127	<0.126	<0.140	<0.146	<0.160	<0.166	<0.163	<0.185	<0.143	<0.133	<0.131	<0.148	<0.136	<0.179
Aroclor 1242	mg/kg	<0.130	<0.123	<0.137	<0.149	<0.172	<0.160	<0.148	<0.131	<0.136	<0.136	<0.127	<0.126	<0.140	<0.146	<0.160	<0.166	<0.163	<0.185	<0.143	<0.133	<0.131	<0.148	<0.136	<0.179
Aroclor 1248	mg/kg	<0.130	<0.123	<0.137	<0.149	<0.172	<0.160	<0.148	<0.131	<0.136	<0.136	<0.127	<0.126	<0.140	<0.146	<0.160	<0.166	<0.163	<0.185	<0.143	<0.133	<0.131	<0.148	<0.136	<0.179
Aroclor 1254	mg/kg	<0.130	<0.123	<0.137	<0.149	<0.172	<0.160	<0.148	<0.131	<0.136	<0.136	<0.127	<0.126	<0.140	<0.146	<0.160	<0.166	<0.163	<0.185	<0.143	<0.133	1.02	0.316	<0.136	<0.179
Aroclor 1260	mg/kg	<0.130	<0.123	0.227	<0.149	<0.172	<0.160	<0.148	<0.131	<0.136	<0.136	<0.127	<0.126	0.422	<0.146	<0.160	<0.166	<0.163	<0.185	<0.143	<0.133	0.357	<0.148	<0.136	<0.179
Aroclor 1262	mg/kg	<0.130	<0.123	<0.137	<0.149	<0.172	<0.160	<0.148	<0.131	<0.136	<0.136	<0.127	<0.126	<0.140	<0.146	<0.160	<0.166	<0.163	<0.185	<0.143	<0.133	<0.131	<0.148	<0.136	<0.179
Aroclor 1268	mg/kg	<0.130	<0.123	<0.137	<0.149	<0.172	<0.160	<0.148	<0.131	<0.136	<0.136	<0.127	<0.126	<0.140	<0.146	<0.160	<0.166	<0.163	<0.185	<0.143	<0.133	<0.131	<0.148	<0.136	<0.179
Total PCBs	mg/kg	ND	ND	0.227	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.422	ND	ND	ND	ND	ND	ND	ND	1.377	0.316	ND	ND
Total Petroleum Hydrocarbons	mg/kg	<39.7	<39.7	146	471	<52.8	47.2	<47.8	<42.2	<44.0	<44.7	<41.8	<43.8	213	<46.1	40.5	128	175	1010	<37.8	<40.2	77.1	442	<44.7	79.2
Volatile Organic Compounds (VOCs)																										
1,1,1,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-Chloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane - Screen	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Butanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Isopropyltoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-Pentanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Disulfide	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	F17 F17S01S02A 1501359 Fill 0 - 3.3 1/19/2015	F17 F17S02BS04A 1501359 Fill 3.3 - 6.6 1/19/2015	F17 F17S04BS05 1501359 Fill 6.6 - 10 1/19/2015	F17 F17S06S07A 1501359 Fill 10 - 13.3 1/19/2015	F17 F17S07BS08A 1501359 Natural Sand/Gravel 13.3 - 14.1 1/19/2015	F17 F17S08B 1501359 Natural Clay 14.1 - 16 1/19/2015	F17 F17S09 1501359 Natural Organics 19 - 21 1/19/2015	F17 F17S10 1501359 Natural Sand/Gravel 24 - 26 1/19/2015	F17 F17S11 1501359 Natural Clay 29 - 31 1/19/2015	F17 F17S12S13 1501359 Natural Clay 34 - 38 1/19/2015	F18 F18S01S02A 1501031 Fill 0.03 - 3.3 1/5/2015	F18 F18S02BS04A 1501031 Fill 3.3 - 6.6 1/5/2015	F18 F18S04BS05 1501031 Fill 6.6 - 9 1/5/2015	F18 F18S06 1501031 Natural Organics 9 - 11 1/5/2015	F18 F18S07 1501031 Natural Sand/Gravel 14 - 16 1/5/2015	F18 F18S08 1501031 Natural Sand/Gravel 19 - 21 1/5/2015	F18 F18S09 1501031 Natural Organics 24 - 26 1/5/2015	F18 F18S10 1501031 Natural Organics 29 - 31 1/5/2015	F18 F18S11S12 1501031 Natural Sand/Gravel 34 - 38 1/5/2015	F19 F19S01S02A 1502257 Fill 0 - 3.3 2/18/2015	F19 F19S02BS04A 1502257 Fill 3.3 - 6.6 2/18/2015	F19 F19S04BS05 1502257 Fill 6.6 - 10 2/18/2015	F19 F19S06 1502257 Natural Organics 10 - 12 2/18/2015	F19 F19S07 1502257 Natural Organics 14 - 16 2/18/2015
Preliminary Disposal Facility Category		MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A
Chlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Diethyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Di-isopropyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethyl tertiary-butyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
tert-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tertiary-amyl methyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene O	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene P,M	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylenes (Total)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total VOCs	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds - Low Level Analysis																									
1,1,1,2-Tetrachloroethane	mg/kg	<0.0045	<0.0036	<0.0038	<0.0039	<0.0047	<0.0050	<0.0035	<0.0034	<0.0037	<0.0036	<0.0034	<0.0041	<0.0035	<0.0039	<0.0039	<0.0042	<0.0045	<0.0054	<0.0039	<0.0054	<0.0065	<0.0058	<0.0032	<0.0041
1,1,1-Trichloroethane	mg/kg	<0.0045	<0.0036	<0.0038	<0.0039	<0.0047	<0.0050	<0.0035	<0.0034	<0.0037	<0.0036	<0.0034	<0.0041	<0.0035	<0.0039	<0.0039	<0.0042	<0.0045	<0.0054	<0.0039	<0.0054	<0.0065	<0.0058	<0.0032	<0.0041
1,1,2,2-Tetrachloroethane	mg/kg	<0.0018	<0.0014	<0.0015	<0.0016	<0.0019	<0.0020	<0.0014	<0.0014	<0.0015	<0.0014	<0.0014	<0.0016	<0.0014	<0.0016	<0.0016	<0.0017	<0.0018	<0.0022	<0.0015	<0.0022	<0.0026	<0.0023	<0.0013	<0.0016
1,1,2-Trichloroethane	mg/kg	<0.0045	<0.0036	<0.0038	<0.0039	<0.0047	<0.0050	<0.0035	<0.0034	<0.0037	<0.0036	<0.0034	<0.0041	<0.0035	<0.0039	<0.0039	<0.0042	<0.0045	<0.0054	<0.0039	<0.0054	<0.0065	<0.0058	<0.0032	<0.0041
1,1-Dichloroethane	mg/kg	<0.0045	<0.0036	<0.0038	<0.0039	<0.0047	<0.0050	<0.0035	<0.0034	<0.0037	<0.0036	<0.0034	<0.0041	<0.0035	<0.0039	<0.0039	<0.0042	<0.0045	<0.0054	<0.0039	<0.0054	<0.0065	<0.0058	<0.0032	<0.0041
1,1-Dichloroethene	mg/kg	<0.0045	<0.0036	<0.0038	<0.0039	<0.0047	<0.0050	<0.0035	<0.0034	<0.0037	<0.0036	<0.0034	<0.0041	<0.0035	<0.0039	<0.0039	<0.0042	<0.0045	<0.0054	<0.0039	<0.0054	<0.0065	<0.0058	<0.0032	<0.0041
1,1-Dichloropropene	mg/kg	<0.0045	<0.0036	<0.0038	<0.0039	<0.0047	<0.0050	<0.0035	<0.0034	<0.0037	<0.0036	<0.0034	<0.0041	<0.0035	<0.0039	<0.0039	<0.0042	<0.0045	<0.0054	<0.0039	<0.0054	<0.0065	<0.0058	<0.0032	<0.0041
1,2,3-Trichlorobenzene	mg/kg	<0.0045	<0.0036	<0.0038	<0.0039	<0.0047	<0.0050	<0.0035	<0.0034	<0.0037	<0.0036	<0.0034	<0.0041	<0.0035	<0.0039	<0.0039	<0.0042	<0.0045	<0.0054	<0.0039	<0.0054	<0.0065	<0.0058	<0.0032	<0.0041
1,2,3-Trichloropropane	mg/kg	<0.0045	<0.0036	<0.0038	<0.0039	<0.0047	<0.0050	<0.0035	<0.0034	<0.0037	<0.0036	<0.0034	<0.0041	<0.0035	<0.0039	<0.0039	<0.0042	<0.0045	<0.0054	<0.0039	<0.0054	<0.0065	<0.0058	<0.0032	<0.0041
1,2,4-Trichlorobenzene	mg/kg	<0.0045	<0.0036	<0.0038	<0.0039	<0.0047	<0.0050	<0.0035	<0.0034	<0.0037	<0.0036	<0.0034	<0.0041	<0.0035	<0.0039	<0.0039	<0.0042	<0.0045	<0.0054	<0.0039	<0.0054	<0.0065	<0.0058	<0.0032	<0.0041
1,2,4-Trimethylbenzene	mg/kg	<0.0045	<0.0036	<0.0038	<0.0039	<0.0047	<0.0050	<0.0035	<0.0034	<0.0037	<0.0036	<0.0034	<0.0041	<0.0035	<0.0039	<0.0039	<0.0042	<0.0045	<0.0054	<0.0039	<0.0054	<0.0065	<0.0058	<0.0032	<0.0041
1,2-Dibromo-3-Chloropropane	mg/kg	<0.0045	<0.0036	<0.0038	<0.0039	<0.0047	<0.0050	<0.0035	<0.0034	<0.0037	<0.0036	<0.0034	<0.0041	<0.0035	<0.0039	<0.0039	<0.0042	<0.0045	<0.0054	<0.0039	<0.0054	<0.0065	<0.0058	<0.0032	<0.0041
1,2-Dibromoethane	mg/kg	<0.0045	<0.0036	<0.0038	<0.0039	<0.0047	<0.0050	<0.0035	<0.0034	<0.0037	<0.0036	<0.0034	<0.0041	<0.0035	<0.0039	<0.0039	<0.0042	<0.0045	<0.0054	<0.0039	<0.0054	<0.0065	<0.0058	<0.0032	<0.0041
1,2-Dichlorobenzene	mg/kg	<0.0045	<0.0036	<0.0038	<0.0039	<0.0047	<0.0050	<0.0035	<0.0034	<0.0037	<0.0036	<0.0034	<0.0041	<0.0035	<0.0039	<0.0039	<0.0042	<0.0045	<0.0054	<0.0039	<0.0054	<0.0065	<0.0058	<0.0032	<0.0041
1,2-Dichloroethane	mg/kg	<0.0045	<0.0036	<0.0038	<0.0039	<0.0047	<0.0050	<0.0035	<0.0034	<0.0037	<0.0036	<0.0034	<0.0041	<0.0035	<0.0039	<0.0039	<0.0042	<0.0045	<0.0054	<0.0039	<0.0054	<0.0065	<0.0058	<0.0032	<0.0041
1,2-Dichloropropane	mg/kg	<0.0045	<0.0036	<0.0038	<0.0039	<0.0047	<0.0050	<0.0035	<0.0034	<0.0037	<0.0036	<0.0034	<0.0041	<0.0035	<0.0039	<0.0039	<0.0042	<0.0045	<0.0054	<0.0039	<0.0054	<0.0065	<0.0058	<0.0032	<0.0041
1,3,5-Trimethylbenzene	mg/kg	<0.0045	<0.0036	<0.0038	<0.0039	<0.0047	<0.0050	<0.0035	<0.0034	<0.0037	<0.0036	<0.0034	<0.0041	<0.0035	<0.0039	<0.0039	<0.0042	<0.0045	<0.0054	<0.0039	<0.0054	<0.0065	<0.0058	<0.0032	<0.0041
1,3-Dichlorobenzene	mg/kg	<0.0045	<0.0036	<0.0038	<0.0039	<0.0047	<0.0050	<0.0035	<0.0034	<0.0037	<0.0036	<0.0034	<0.0041	<0.0035	<0.0039	<0.0039	<0.0042	<0.0045	<0.0054	<0.0039	<0.0054	<0.0065	<0.0058	<0.0032	<0.0041
1,3-Dichloropropane	mg/kg	<0.0045	<0.0036	<0.0038	<0.0039	<0.0047	<0.0050	<0.0035	<0.0034	<0.0037	<0.0036	<0.0034	<0.0041	<0.0035	<0.0039	<0.0039	<0.0042	<0.0045	<0.0054	<0.0039	<0.0054	<0.0065	<0.0058	<0.0032	<0.0041
1,4-Dichlorobenzene	mg/kg	<0.0045	<0.0036	<0.0038	<0.0039	<0.0047	<0.0050	<0.0035	<0.0034	<0.0037	<0.0036	<0.0034	<0.0041	<0.0035	<0.0039	<0.0039	<0.0042	<0.0045	<0.0054	<0.0039	<0.0054	<0.0065	<0.0058	<0.0032	<0.0041
1,4-Dioxane	mg/kg	<0.0899	<0.0719	<0.0766	<0.0783	<0.0940	<0.101	<0.0697	<0.0685	<0.0739	<0.0713	<0.0677	<0.0815	<0.0700	<0.0776	<0.0782	<0.0850	<0.0898	<0.108	<0.0771	<0.108	<0.130	<0.116	<0.0630	<0.0813
2,2-Dichloropropane	mg/kg	<0.0045	<0.0036	<0.0038	<0.0039	<0.0047	<0.0050	<0.0035	<0.0034	<0.0037	<0.0036	<0.0034	<0.0041	<0.0035	<0.0039	<0.0039	<0.0042	<0.0045	<0.0054	<0.0039	<0.0054	<0.0065	<0.0058	<0.0032	<0.0041
2-Butanone	mg/kg	<0.0090	<0.0072	<0.0077	<0.0078	<0.0094	<0.0101	0.0099	<0.0069	<0.0074	<0.0071	<0.0068	<0.0081	<0.0070	<0.0078	<0.0078	<0.0085	<0.0090	0.0233	<0.0077	<0.0108	<0.0130	<0.0116	<0.0063	<0.0081
2-Chlorotoluene	mg/kg	<0.0045	<0.0036	<0.0038	<0.0039	<0.0047	<0.0050	<0.0035	<0.0034	<0.0037	<0.0036	<0.0034	<0.0041	<0.0035	<0.0039	<0.0039	<0.0042	<0.0045	<0.0054	<0.0039	<0.0054	<0.0065	<0.0058	<0.0032	<0.0041
2-Hexanone	mg/kg	<0.0090	<0.0072	<0.0077	<0.0078	<0.0094	<0.0101	<0.0070	<0.0069	<0.0074	<0.0071	<0.0068	<0.0081	<0.0070	<0.0078	<0.0078	<0.0085	<0.0090	<0.0108	<0.0077	<0.0108	<0.0130	<0.0116	<0.0063	<0.0081
4-Chlorotoluene	mg/kg	<0.0045	<0.0036	<0.0038	<0.0039	<0.0047	<0.0050	<0.0035	<0.0034	<0.0037	<0.0036	<0.0034	<0.0041	<0.0035	<0.0039	<0.0039	<0.0042	<0.0045	<0.0054	<0.0039	<0.0054	<0.0065	<0.0058	<0.0032	<0.0041
4-Isopropyltoluene	mg/kg	<0.0045	<0.0036	<0.0038	<0.0039	<0.0047	<0.0050	<0.0035	<0.0034	<0.0037	<0.0036	<0.0034	<0.0041	<0.0035	<0.0039	<0.0039	<0.0042	<0.0045	<0.0054	<0.0039	<0.0054	<0.0065	<0.0058	<0.0032	<0.0041
4-Methyl-2-Pentanone	mg/kg	<0.0090	<0.0072	<0.0077	<0.0078	<0.0094	<0.0101	<0.0070	<0.0069	<0.0074	<0.0071	<0.0068	<0.0081	<0.0070	<0.0078	<0.0078	<0.0085	<0.0090	<0.0108	<0.0077	<0.0108	<0.0130	<0.0116	<0.0063	<0.0081
Acetone	mg/kg	<0.0090	<0.0072	0.0161	0.0285	0.017	0.0297	0.069	0.0269	0.0304	0.0085	<0.0068	<0.0081	0.0567	0.0454	0.0234	0.0237	0.0609	0.164	0.0341	<0.0108	<0.0130	0.055	0.0366	0.0328
Benzene	mg/kg	<0.0045	<0.0036	<0.0038	<0.0039	<0.0047	<0.0050	<0.0035	<0.0034	<0.0037	<0.0036	<0.0034	<0.0041	<0.0035	<0.0039	<0.0039	<0.0042	<0.0045	<0.0054	<0.0039	<0.0054	<0.0065	<0.0058	<0.0032	<0.0041
Bromobenzene	mg/kg	<0.0045	<0.0036	<0.0038	<0.0039	<0.0047	<0.0050	<0.0035	<0.0034	<0.0037	<0.0036	<0.0034	<0.0041	<0.0035	<0.0039	<0.0039	<0.0042	<0.0045	<0.0054	<0.0039	<0.0054	<0.0065	<0.0058	<0.0032	<0.0041
Bromochloromethane	mg/kg	<0.0045	<0.0036	<0.0038	<0.0039	<0.0047	<0.0050	<0.0035	<0.0034	<0.0037	<0.0036	<0.0034	<0.0041	<0.0035	<0.0039	<0.0039	<0.0042	<0.0045	<0.0054	<0.0039	<0.0054	<0.0065	<0.0058	<0.0032	<0.0041
Bromodichloromethane	mg/kg	<0.0045	<0.0036	<0.0038	<0.0039	<0.0047	<0.0050	<0.0035	<0.0034	<0.0037	<0.0036	<0.0034	<0.0041	<0.0035	<0.0039	<0.0039	<0.0042	<0.0045	<0.0054	<0.0039	<0.0054	<0.0065	<0.0058	<0.0032	<0.0041
Bromoform	mg/kg	<0.0045	<0.0036	<0.0038	<0.0039	<0.0047	<0.0050	<0.0035	<0.0034	<0.0037	<0.0036	<0.0034	<0.0041	<0.0035	<0.0039	<0.0039	<0.0042	<0.0045	<0.0054	<0.0039	<0.0054	<0.0065	<0.0058	<0.0032	<0.0041
Bromomethane	mg/kg	<0.0090	<0.0072	<0.0077	<0.0078	<0.0094	<0.0101	<0.0070	<0.0069	<0.0074	<0.0071	<0.0068	<0.0081	<0.0070	<0.0078	<0.0078	<0.0085	<0.0090	<0.0108	<0.0077	<0.0108	<0.0130	<0.0116	<0.0063	<0.0081
Carbon Disulfide	mg/kg	<0.0045	<0.0036	<0.0038	<0.0039	<0.0047	<0.0050	<0.0035	<0.0034	<0.0037	<0.0036	<0.0034	<0.0041	<0.0035	<0.0039	0.0046	0.0078	<0.0045	<0.0054	<0.0039	<0.0054	<0.0065	<0.0058	0.0066	<0.0041
Carbon Tetrachloride	mg/kg	<0.0045	<0.0036	<0.0038	<0.0039	<0.0047	<0.0050	<0.0035	<0.0034	<0.0037	<0.0036	<0.0034	<0.0041	<0.0035	<0.0039	<0.0039	<0.0042	<0.0045	<0.0054	<0.0039	<0.0054	<0.0065	<0.0058	<0.0032	<0.0041
Chlorobenzene	mg/kg	<0.0045	<0.0036	<0.0038	<0.0039	<0.0047	<0.0050	<0.0035	<0.0034	<0.0037	<0.0036	<0.0034	<0.0041	<0.0035	<0.0039	<0.0039	<0.0042	<0.0045	<0.0054	<0.0039	<0.0054	<0.0065	<0.0058	<0.0032	<0.0041
Chloroethane	mg/kg	<0.0090	<0.0072	<0.0077	<0.0078	<0.0094	<0.0101	<0.0070	<0.0069	<0.0074	<0.0071	<0.0068	<0.0081	<0.0070	<0.0078	<0.0078	<0.0085	<0.0090	<0.0108	<0.0077	<0.0108	<0.0130	<0.0116	<0.0063	<0.0081
Chloroform	mg/kg	<0.0045	<0.0036	<0.0038	<0.0039	<0.0047	<0.0050	<0.0035	<0.0034	<0.0037	<0.0036	<0.0034	<0.0041	<0.0035	<0.0039	<0.0039	<0.0042	<0.0045	<0.0054	<0.0039	<0.0054	<0.0065	<0.0058	<0.0032	<0.0041
Chloromethane	mg/kg	<0.0090	<0.0072	<0.0077	<0.0078	<0.0094	<0.0101	<0.0070	<0.0069	<0.0074	<0.0071	<0.0068	<0.0081	<0.0070	<0.0078	<0.0078	<0.0085	<0.0090	<0.0108	<0.0077	<0.0108	<0.0130	<0.0116	<0.0063	<0.0081
cis-1,2-Dichloroethene	mg/kg	<0.0045	<0.0036	<0.0038	<0.0039	<0.0047	<0.0050	<0.0035	<0.0034	<0.0037	<0.0036	<0.0034	<0.0041	<0.0035	<0.0039	<0.0039	<0.0042	<0.0045	<0.0054	<0.0039	<0.0054	<0.0065	<0.0058	<0.0032	<0.0041
cis-1,3-Dichloropropene	mg/kg	<0.0045	<0.0036	<0.0038	<0.0039	<0.0047	<0.0050	<0.0035	<0.0034	<0.0037	<0.0036	<0.0034	<0.0041	<0.0035	<0.0039	<0.0039	<0.0042	<0.0045	<0.0054	<0.0039	<0.0054	<0.0065	<0.0058	<0.0032	<0.0041
Dibromochloromethane	mg/kg	<0.0018	<0.0014	<0.0015	<0.0016	<0.0019	<0.0020	<0.0014	<0.0014	<0.0015	<0.0014	<0.0014	<0.0016	<0.0014	<0.0016	<0.0016	<0.0017	<0.0018	<0.0022	<0.0015	<0.0022	<0.0026	<0.0023	<0.0013	<0.0016
Dibromomethane	mg/kg	<0.0045	<0.0036	<0.0038	<0.0039	<0.0047	<0.0050	<0.0035	<0.0034	<0.0037	<0.0036	<0.0034	<0.0041	<0.0035	<0.0039	<0.0039	<0.0042	<0.0045	<0.0054	<0.0039	<0.0054	<0.0065	<0.0058	<0.0032	<0.0041
Dichlorodifluoromethane	mg/kg	<0.0090	<0.0072	<0.0077	<0.0078	<0.0094	<0.0101	<0.0070	<0.0069	<0.0074	<0.0071	<0.0068	<0.0081	<0.0070	<0.0078	<0.0078	<0.0085	<0.0090	<0.0108	<0.0077	<0.0108	<0.0130	<0.0116	<0.0063	<0.0081
Diethyl Ether	mg/kg	<0.0045	<0.0036	<0.0038	<0.0039	<0.0047	<0.0050	<0.0035	<0.0034	<0.0037	<0.0036	<0.0034	<0.0041	<0.0035	<0.0039	<0.0039	<0.0042	<0.0045	<0.0054	<0.0039	<0.0054	<0.0065	<0.0058	<0.0032	<0.0041
Di-isopropyl ether	mg/kg	<0.0045	<0.0036	<0.0038	<0.0039	<0.0047	<0.0050	<0.0035	<0.0034	<0.0037	<0.0036	<0.0034	<0.0041	<0.0035	<0.0039	<0.0039	<0.0042	<0.0045	<0.0054	<0.0039	<0.0054	<0.0065	<0.0058	<0.0032	<0.0041
Ethyl tertiary-butyl ether	mg/kg	<0.0045	<0.0036	<0.0038	<0.0039	<0.0047	<0.0050	<0.0035	<0.0034	<0.0037	<0.0036	<0.0034	<0.0041	<0.0035	<0.0039	<0.0039	<0.0042	<0.0045	<0.0054	<0.0039	<0.0054	<0.0065	<0.0058	<0.0032	<0.0041
Ethylbenzene	mg/kg	<0.0045	<0.0036	<0.0038	<0.0039	<0.0047	<0.0050	<0.0035	<0.0034	<0.0037	<0.0036	<0.0034	<0.0041	<0.0035	<0.0039	<0.0039	<0.0042	<0.0045	<0.0054	<0.0039	<0.0054	<0.0065	<0.0058	<0.0032	<0.0041
Hexachlorobutadiene	mg/kg	<0.0045	<0.0036	<0.0038	<0.0039	<0.0047	<0.0050	<0.0035	<0.0034	<0.0037	<0.0036	<0.0034	<0.0041	<0.0035	<0.0039	<0.0039	<0.0042	<0.0045	<0.0054	<0.0039	<0.0054	<0.0065	<0.0058	<0.0032	<0.0041
Isopropylbenzene	mg/kg	<0.0045	<0.0036	<0.0038	<0.0039	<0.0047	<0.0050	<0.0035	<0.0034	<0.0037	<0.0036	<0.0034	<0.0041	<0.0035	<0.0039	<0.0039	<0.0042	<0.0045	<0.0054	<0.0039	<0.0054	<0.0065	<0.0058	<0.0032	<0.0041
Methyl tert-Butyl Ether	mg/kg	<0.0045	<0.0036	<0.0038	<0.0039	<0.0047	<0.0050	<0.0035	<0.0034	<0.0037	<0.0036	<0.0034	<0.0041	<0.0035	<0.0039	<0.0039	<0.0042	<0.0045	<0.0054	<0.0039	<0.0054	<0.0065	<0.0058	<0.0032	<0.0041
Methylene Chloride	mg/kg	<0.0090	<0.0072	<0.0077	<0.0078	<0.0094	<0.0101	<0.0070	<0.0069	<0.0074	<0.0071	<0.0068	<0.0081	<0.0070	<0.0078	<0.0078	<0.0085	<0.0090	<0.0108	<0.0077	<0.0108	<0.0130	<0.0116	<0.0063	<0.0081
Naphthalene	mg/kg	<0.0045	<0.0036	<0.0038	<0.0039	<0.0047	<0.0050	<0.0035	<0.0034	<0.0037	<0.0036	<0.0034	<0.0041	<0.0035	<0.0039	<0.0039	<0.0042	<0.0045	0.0242	<0.0039	<0.0054	<0.0065	<0.0058	<0.0032	<0.0041
n-Butylbenzene	mg/kg	<0.0045	<0.0036	<0.0038	<0.0039	<0.0047	<0.0050	<0.0035	<0.0034	<0.0037	<0.0036	<0.0034	<0.0041	<0.0035	<0.0039	<0.0039	<0.0042	<0.0045	<0.0054	<0.0039	<0.0054	<0.0065	<0.0058	<0.0032	<0.0041
n-Propylbenzene	mg/kg	<0.0045	<0.0036	<0.0038	<0.0039	<0.0047	<0.0050	<0.0035	<0.0034	<0.0037	<0.0036	<0.0034	<0.0041	<0.0035	<0.0039	<0.0039	<0.0042	<0.0045	<0.0054	<0.0039	<0.0054	<0.0065	<0.0058	<0.0032	<0.0041
sec-Butylbenzene	mg/kg	<0.0045	<0.0036	<0.0038	<0.0039	<0.0047	<0.0050	<0.0035	<0.0034	<0.0037	<0.0036	<0.0034	<0.0041	<0.0035	<0.0039	<0.0039	<0.0042	<0.0045	<0.0054	<0.0039	<0.0054	<0.0065	<0.0058	<0.0032	<0.0041

Table 1
Soil Precharacterization Data

Wynn Resort Casino
Everett, Massachusetts

Analyte	Precharacterization Cell	F17	F17	F17	F17	F17	F17	F17	F17	F17	F17	F18	F18	F18	F18	F18	F18	F18	F18	F19	F19	F19	F19	F19
	Sample ID	F17S01S02A	F17S02BS04A	F17S04BS05	F17S06S07A	F17S07BS08A	F17S08B	F17S09	F17S10	F17S11	F17S12S13	F18S01S02A	F18S02BS04A	F18S04BS05	F18S06	F18S07	F18S08	F18S09	F18S10	F18S11S12	F19S01S02A	F19S02BS04A	F19S04BS05	F19S06	F19S07
	Laboratory Work Order	1501359	1501359	1501359	1501359	1501359	1501359	1501359	1501359	1501359	1501359	1501031	1501031	1501031	1501031	1501031	1501031	1501031	1501031	1501031	1502257	1502257	1502257	1502257	1502257
	Soil Distinction	Fill	Fill	Fill	Fill	Natural	Natural	Natural	Natural	Natural	Natural	Fill	Fill	Fill	Natural	Natural	Natural	Natural	Natural	Natural	Fill	Fill	Fill	Natural	Natural
	Soil Type					Sand/Gravel	Clay	Organics	Sand/Gravel	Clay	Clay				Organics	Sand/Gravel	Sand/Gravel	Organics	Organics	Sand/Gravel				Organics	Organics
	Depth Interval (ft.)	0 - 3.3	3.3 - 6.6	6.6 - 10	10 - 13.3	13.3 - 14.1	14.1 - 16	19 - 21	24 - 26	29 - 31	34 - 38	0.03 - 3.3	3.3 - 6.6	6.6 - 9	9 - 11	14 - 16	19 - 21	24 - 26	29 - 31	34 - 38	0 - 3.3	3.3 - 6.6	6.6 - 10	10 - 12	14 - 16
	Sampling Date	1/19/2015	1/19/2015	1/19/2015	1/19/2015	1/19/2015	1/19/2015	1/19/2015	1/19/2015	1/19/2015	1/19/2015	1/5/2015	1/5/2015	1/5/2015	1/5/2015	1/5/2015	1/5/2015	1/5/2015	1/5/2015	1/5/2015	2/18/2015	2/18/2015	2/18/2015	2/18/2015	2/18/2015
Preliminary Disposal Facility Category		MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A
Styrene	mg/kg	<0.0045	<0.0036	<0.0038	<0.0039	<0.0047	<0.0050	<0.0035	<0.0034	<0.0037	<0.0036	<0.0034	<0.0041	<0.0035	<0.0039	<0.0039	<0.0042	<0.0045	<0.0054	<0.0039	<0.0054	<0.0065	<0.0058	<0.0032	<0.0041
tert-Butylbenzene	mg/kg	<0.0045	<0.0036	<0.0038	<0.0039	<0.0047	<0.0050	<0.0035	<0.0034	<0.0037	<0.0036	<0.0034	<0.0041	<0.0035	<0.0039	<0.0039	<0.0042	<0.0045	<0.0054	<0.0039	<0.0054	<0.0065	<0.0058	<0.0032	<0.0041
Tertiary-amyl methyl ether	mg/kg	<0.0045	<0.0036	<0.0038	<0.0039	<0.0047	<0.0050	<0.0035	<0.0034	<0.0037	<0.0036	<0.0034	<0.0041	<0.0035	<0.0039	<0.0039	<0.0042	<0.0045	<0.0054	<0.0039	<0.0054	<0.0065	<0.0058	<0.0032	<0.0041
Tetrachloroethene	mg/kg	<0.0045	<0.0036	<0.0038	<0.0039	<0.0047	<0.0050	<0.0035	<0.0034	<0.0037	<0.0036	<0.0034	<0.0041	<0.0035	<0.0039	<0.0039	<0.0042	<0.0045	<0.0054	<0.0039	<0.0054	<0.0065	<0.0058	<0.0032	<0.0041
Tetrahydrofuran	mg/kg	<0.0045	<0.0036	<0.0038	<0.0039	<0.0047	<0.0050	<0.0035	<0.0034	<0.0037	<0.0036	<0.0034	<0.0041	<0.0035	<0.0039	<0.0039	<0.0042	<0.0045	<0.0054	<0.0039	<0.0054	<0.0065	<0.0058	<0.0032	<0.0041
Toluene	mg/kg	<0.0045	<0.0036	<0.0038	<0.0039	<0.0047	<0.0050	<0.0035	<0.0034	<0.0037	<0.0036	<0.0034	<0.0041	<0.0035	<0.0039	<0.0039	<0.0042	<0.0045	<0.0054	<0.0039	<0.0054	<0.0065	<0.0058	<0.0032	<0.0041
trans-1,2-Dichloroethene	mg/kg	<0.0045	<0.0036	<0.0038	<0.0039	<0.0047	<0.0050	<0.0035	<0.0034	<0.0037	<0.0036	<0.0034	<0.0041	<0.0035	<0.0039	<0.0039	<0.0042	<0.0045	<0.0054	<0.0039	<0.0054	<0.0065	<0.0058	<0.0032	<0.0041
trans-1,3-Dichloropropene	mg/kg	<0.0045	<0.0036	<0.0038	<0.0039	<0.0047	<0.0050	<0.0035	<0.0034	<0.0037	<0.0036	<0.0034	<0.0041	<0.0035	<0.0039	<0.0039	<0.0042	<0.0045	<0.0054	<0.0039	<0.0054	<0.0065	<0.0058	<0.0032	<0.0041
Trichloroethene	mg/kg	<0.0045	<0.0036	<0.0038	<0.0039	<0.0047	<0.0050	<0.0035	<0.0034	<0.0037	<0.0036	<0.0034	<0.0041	<0.0035	<0.0039	<0.0039	<0.0042	<0.0045	<0.0054	<0.0039	<0.0054	<0.0065	<0.0058	<0.0032	<0.0041
Trichlorofluoromethane	mg/kg	<0.0045	<0.0036	<0.0038	<0.0039	<0.0047	<0.0050	<0.0035	<0.0034	<0.0037	<0.0036	<0.0034	<0.0041	<0.0035	<0.0039	<0.0039	<0.0042	<0.0045	<0.0054	<0.0039	<0.0054	<0.0065	<0.0058	<0.0032	<0.0041
Vinyl Chloride	mg/kg	<0.0090	<0.0072	<0.0077	<0.0078	<0.0094	<0.0101	<0.0070	<0.0069	<0.0074	<0.0071	<0.0068	<0.0081	<0.0070	<0.0078	<0.0078	<0.0085	<0.0090	<0.0108	<0.0077	<0.0108	<0.0130	<0.0116	<0.0063	<0.0081
Xylene O	mg/kg	<0.0045	<0.0036	<0.0038	<0.0039	<0.0047	<0.0050	<0.0035	<0.0034	<0.0037	<0.0036	<0.0034	<0.0041	<0.0035	<0.0039	<0.0039	<0.0042	<0.0045	<0.0054	<0.0039	<0.0054	<0.0065	<0.0058	<0.0032	<0.0041
Xylene P,M	mg/kg	<0.0090	<0.0072	<0.0077	<0.0078	<0.0094	<0.0101	<0.0070	<0.0069	<0.0074	<0.0071	<0.0068	<0.0081	<0.0070	<0.0078	<0.0078	<0.0085	<0.0090	<0.0108	<0.0077	<0.0108	<0.0130	<0.0116	<0.0063	<0.0081
Xylenes (Total)	mg/kg	<0.0090	<0.0072	<0.0077	<0.0078	<0.0094	<0.0101	<0.0070	<0.0069	<0.0074	<0.0071	<0.0068	<0.0081	<0.0070	<0.0078	<0.0078	<0.0085	<0.0090	<0.0108	<0.0077	<0.0108	<0.0130	<0.0116	<0.0063	<0.0081
Total VOCs (Low Level)	mg/kg	ND	ND	0.0161	0.0285	0.017	0.0297	0.0789	0.0269	0.0304	0.0085	ND	ND	ND	0.0567	0.0454	0.028	0.0315	0.0609	0.2115	0.0341	ND	ND	0.055	0.0432	0.0328
Semi-Volatile Organic Compounds																									
1,2,4-Trichlorobenzene	mg/kg	<0.858	<0.828	<0.968	<0.951	<1.14	<1.03	<0.998	<0.849	<0.932	<0.898	<0.798	<0.813	<0.742	<1.04	<1.03	<0.835	<0.833	<0.941	<0.837	<0.820	<0.873	<0.985	<0.978	<1.17
1,2-Dichlorobenzene	mg/kg	<0.858	<0.828	<0.968	<0.951	<1.14	<1.03	<0.998	<0.849	<0.932	<0.898	<0.798	<0.813	<0.742	<1.04	<1.03	<0.835	<0.833	<0.941	<0.837	<0.820	<0.873	<0.985	<0.978	<1.17
1,3-Dichlorobenzene	mg/kg	<0.858	<0.828	<0.968	<0.951	<1.14	<1.03	<0.998	<0.849	<0.932	<0.898	<0.798	<0.813	<0.742	<1.04	<1.03	<0.835	<0.833	<0.941	<0.837	<0.820	<0.873	<0.985	<0.978	<1.17
1,4-Dichlorobenzene	mg/kg	<0.430	<0.415	<0.485	<0.477	<0.569	<0.516	<0.500	<0.426	<0.468	<0.450	<0.400	<0.408	<0.372	<0.520	<0.515	<0.419	<0.418	<0.472	<0.420	<0.411	<0.438	<0.494	<0.491	<0.586
2,4,5-Trichlorophenol	mg/kg	<0.858	<0.828	<0.968	<0.951	<1.14	<1.03	<0.998	<0.849	<0.932	<0.898	<0.798	<0.813	<0.742	<1.04	<1.03	<0.835	<0.833	<0.941	<0.837	<0.820	<0.873	<0.985	<0.978	<1.17
2,4,6-Trichlorophenol	mg/kg	<0.858	<0.828	<0.968	<0.951	<1.14	<1.03	<0.998	<0.849	<0.932	<0.898	<0.798	<0.813	<0.742	<1.04	<1.03	<0.835	<0.833	<0.941	<0.837	<0.820	<0.873	<0.985	<0.978	<1.17
2,4-Dichlorophenol	mg/kg	<0.858	<0.828	<0.968	<0.951	<1.14	<1.03	<0.998	<0.849	<0.932	<0.898	<0.798	<0.813	<0.742	<1.04	<1.03	<0.835	<0.833	<0.941	<0.837	<0.820	<0.873	<0.985	<0.978	<1.17
2,4-Dimethylphenol	mg/kg	<0.858	<0.828	<0.968	<0.951	<1.14	<1.03	<0.998	<0.849	<0.932	<0.898	<0.798	<0.813	<0.742	<1.04	<1.03	<0.835	<0.833	<0.941	<0.837	<0.820	<0.873	<0.985	<0.978	<1.17
2,4-Dinitrophenol	mg/kg	<4.30	<4.15	<4.85	<4.77	<5.69	<5.16	<5.00	<4.26	<4.68	<4.50	<4.00	<4.08	<3.72	<5.20	<5.15	<4.19	<4.18	<4.72	<4.20	<4.11	<4.38	<4.94	<4.91	<5.86
2,4-Dinitrotoluene	mg/kg	<0.858	<0.828	<0.968	<0.951	<1.14	<1.03	<0.998	<0.849	<0.932	<0.898	<0.798	<0.813	<0.742	<1.04	<1.03	<0.835	<0.833	<0.941	<0.837	<0.820	<0.873	<0.985	<0.978	<1.17
2,6-Dinitrotoluene	mg/kg	<0.858	<0.828	<0.968	<0.951	<1.14	<1.03	<0.998	<0.849	<0.932	<0.898	<0.798	<0.813	<0.742	<1.04	<1.03	<0.835	<0.833	<0.941	<0.837	<0.820	<0.873	<0.985	<0.978	<1.17
2-Chloronaphthalene	mg/kg	<0.858	<0.828	<0.968	<0.951	<1.14	<1.03	<0.998	<0.849	<0.932	<0.898	<0.798	<0.813	<0.742	<1.04	<1.03	<0.835	<0.833	<0.941	<0.837	<0.820	<0.873	<0.985	<0.978	<1.17
2-Chlorophenol	mg/kg	<0.858	<0.828	<0.968	<0.951	<1.14	<1.03	<0.998	<0.849	<0.932	<0.898	<0.798	<0.813	<0.742	<1.04	<1.03	<0.835	<0.833	<0.941	<0.837	<0.820	<0.873	<0.985	<0.978	<1.17
2-Methylnaphthalene	mg/kg	<0.858	<0.828	<0.968	<0.951	<1.14	<1.03	<0.998	<0.849	<0.932	<0.898	<0.798	<0.813	<0.742	<1.04	<1.03	<0.835	<0.833	<0.941	<0.837	<0.820	<0.873	<0.985	<0.978	<1.17
2-Methylphenol	mg/kg	<0.858	<0.828	<0.968	<0.951	<1.14	<1.03	<0.998	<0.849	<0.932	<0.898	<0.798	<0.813	<0.742	<1.04	<1.03	<0.835	<0.833	<0.941	<0.837	<0.820	<0.873	<0.985	<0.978	<1.17
2-Nitrophenol	mg/kg	<0.858	<0.828	<0.968	<0.951	<1.14	<1.03	<0.998	<0.849	<0.932	<0.898	<0.798	<0.813	<0.742	<1.04	<1.03	<0.835	<0.833	<0.941	<0.837	<0.820	<0.873	<0.985	<0.978	<1.17
3,3´-Dichlorobenzidine	mg/kg	<1.72	<1.66	<1.94	<1.91	<2.27	<2.06	<2.00	<1.70	<1.87	<1.80	<1.60	<1.63	<1.49	<2.08	<2.06	<1.67	<1.67	<1.88	<1.68	<1.64	<1.75	<1.97	<1.96	<2.34
3+4-Methylphenol	mg/kg	<1.72	<1.66	<1.94	<1.91	<2.27	<2.06	<2.00	<1.70	<1.87	<1.80	<1.60	<1.63	<1.49	<2.08	<2.06	<1.67	<1.67	<1.88	<1.68	<1.64	<1.75	<1.97	<1.96	<2.34
4-Bromophenyl-phenylether	mg/kg	<0.858	<0.828	<0.968	<0.951	<1.14	<1.03	<0.998	<0.849	<0.932	<0.898	<0.798	<0.813	<0.742	<1.04	<1.03	<0.835	<0.833	<0.941	<0.837	<0.820	<0.873	<0.985	<0.978	<1.17
4-Chloroaniline	mg/kg	<1.72	<1.66	<1.94	<1.91	<2.27	<2.06	<2.00	<1.70	<1.87	<1.80	<1.60	<1.63	<1.49	<2.08	<2.06	<1.67	<1.67	<1.88	<1.68	<1.64	<1.75	<1.97	<1.96	<2.34
4-Nitrophenol	mg/kg	<4.30	<4.15	<4.85	<4.77	<5.69	<5.16	<5.00	<4.26	<4.68	<4.50	<4.00	<4.08	<3.72	<5.20	<5.15	<4.19	<4.18	<4.72	<4.20	<4.11	<4.38	<4.94	<4.91	<5.86
Acenaphthene	mg/kg	<0.858	<0.828	<0.968	<0.951	<1.14	<1.03	<0.998	<0.849	<0.932	<0.898	<0.798	<0.813	<0.742	<1.04	<1.03	<0.835	<0.833	<0.941	<0.837	<0.820	<0.873	<0.985	<0.978	<1.17
Acenaphthylene	mg/kg	<0.858	<0.828	<0.968	<0.951	<1.14	<1.03	<0.998	<0.849	<0.932	<0.898	<0.798	<0.813	<0.742	<1.04	<1.03	<0.835	<0.833	1.43	<0.837	<0.820	<0.873	<0.985	<0.978	<1.17
Acetophenone	mg/kg	<1.72	<1.66	<1.94	<1.91	<2.27	<2.06	<2.00	<1.70	<1.87	<1.80	<1.60	<1.63	<1.49	<2.08	<2.06	<1.67	<1.67	<1.88	<1.68	<1.64	<1.75	<1.97	<1.96	<2.34
Aniline	mg/kg	<4.30	<4.15	<4.85	<4.77	<5.69	<5.16	<5.00	<4.26	<4.68	<4.50	<4.00	<4.08	<3.72	<5.20	<5.15	<4.19	<4.18	<4.72	<4.20	<4.11	<4.38	<4.94	<4.91	<5.86
Anthracene	mg/kg	<0.858	<0.828	<0.968	<0.951	<1.14	<1.03	<0.998	<0.849	<0.932	<0.898	<0.798	<0.813	<0.742	<1.04	<1.03	<0.835	<0.833	3.81	<0.837	<0.820	<0.873	<0.985	<0.978	<1.17
Azobenzene	mg/kg	<0.858	<0.828	<0.968	<0.951	<1.14	<1.03	<0.998	<0.849	<0.932	<0.898	<0.798	<0.813	<0.742	<1.04	<1.03	<0.835	<0.833	<0.941	<0.837	<0.820	<0.873	<0.985	<0.978	<1.17
Benzo(a)anthracene	mg/kg	<0.858	<0.828	<0.968	<0.951	<1.14	<1.03	<0.998	<0.849	<0.932	<0.898	<0.798	<0.813	1.51	<1.04	<1.03	<0.835	<0.833	5.93	<0.837	<0.820	<0.873	<0.985	<0.978	<1.17
Benzo(a)pyrene	mg/kg	<0.430	<0.415	<0.485	<0.477	<0.569	<0.516	<0.500	<0.426	<0.468	<0.450	<0.400	<0.408	1.53	<0.520	<0.515	<0.419	0.624	4.89	<0.420	<0.411	<0.438	0.624	<0.491	<0.586
Benzo(b)fluoranthene	mg/kg	<0.858	<0.828	<0.968	<0.951	<1.14	<1.03	<0.998	<0.849	<0.932	<0.898	<0.798	<0.813	2.54	<1.04	<1.03	<0.835	<0.833	5.03	<0.837	<0.820	<0.873	<0.985	<0.978	<1.17
Benzo(g,h,i)perylene	mg/kg	<0.858	<0.828	<0.968	<0.951	<1.14	<1.03	<0.998	<0.849	<0.932	<0.898	<0.798	<0.813	<0.742	<1.04	<1.03	<0.835	<0.833	<0.941	<0.837	<0.820	<0.873	<0.985	<0.978	<1.17
Benzo(k)fluoranthene	mg/kg	<0.858	<0.828	<0.968	<0.951	<1.14	<1.03	<0.998	<0.849	<0.932	<0.898	<0.798	<0.813	0.783	<1.04	<1.03	<0.835	<0.833	2.02	<0.837	<0.820	<0.873	<0.985	<0.978	<1.17
bis(2-Chloroethoxy)methane	mg/kg	<0.858	<0.828	<0.968	<0.951	<1.14	<1.03	<0.998	<0.849	<0.932	<0.898	<0.798	<0.813	<0.742	<1.04	<1.03	<0.835	<0.833	<0.941	<0.837	<0.820	<0.873	<0.985	<0.978	<1.17
bis(2-Chloroethyl)ether	mg/kg	<0.430	<0.415	<0.485	<0.477	<0.569	<0.516	<0.500	<0.426	<0.468	<0.450	<0.400	<0.408	<0.372	<0.520	<0.515	<0.419	<0.418	<0.472	<0.420	<0.411	<0.438	<0.494	<0.491	<0.586
bis(2-chloroisopropyl)Ether	mg/kg	<0.430	<0.415	<0.485	<0.477	<0.569	<0.516	<0.500	<0.426	<0.468	<0.450	<0.400	<0.408	<0.372	<0.520	<0.515	<0.419	<0.418	<0.472	<0.420	<0.411	<0.438	<0.494	<0.491	<0.586
bis(2-Ethylhexyl)phthalate	mg/kg	<0.858	<0.828	<0.968	<0.951	<1.14	<1.03	<0.998	<0.849	<0.932	<0.898	<0.798	<0.813	<0.742	<1.04	<1.03	<0.835	<0.833	<0.941	<0.837	<0.820	<0.873	<0.985	<0.978	<1.17
Butylbenzylphthalate	mg/kg	<0.858	<0.828	<0.968	<0.951	<1.14	<1.03	<0.998	<0.849	<0.932	<0.898	<0.798	<0.813	<0.742	<1.04	<1.03	<0.835	<0.833	<0.941	<0.837	<0.820	<0.873	<0.985	<0.978	<1.17
Chrysene	mg/kg	<0.430	<0.415	0.533	<0.477	<0.569	<0.516	<0.500	<0.426	<0.468	<0.450	<0.400	<0.408	1.51	<0.520	<0.515	<0.419	0.854	6.65	<0.420	<0.411	<0.438	0.797	<0.491	<0.586
Dibenzo(a,h)Anthracene	mg/kg	<0.430	<0.415	<0.485	<0.477	<0.569	<0.516	<0.500	<0.426	<0.468	<0.450	<0.400	<0.408	<0.372	<0.520	<0.515	<0.419	<0.418	<0.472	<0.420	<0.411	<0.438	<0.494	<0.491	<0.586
Dibenzofuran	mg/kg	<0.858	<0.828	<0.968	<0.951	<1.14	<1.03	<0.998	<0.849	<0.932	<0.898	<0.798	<0.813	<0.742	<1.04	<1.03	<0.835	<0.833	<0.941	<0.837	<0.820	<0.873	<0.985	<0.978	<1.17
Diethylphthalate	mg/kg	<0.858	<0.828	<0.968	<0.951	<1.14	<1.03	<0.998	<0.849	<0.932	<0.898	<0.798	<0.813	<0.742	<1.04	<1.03	<0.835	<0.833	<0.941	<0.837	<0.820	<0.873	<0.985	<0.978	<1.17
Dimethylphthalate	mg/kg	<0.858	<0.828	<0.968	<0.951	<1.14	<1.03	<0.998	<0.849	<0.932	<0.898	<0.798	<0.813	<0.742	<1.04	<1.03	<0.835	<0.833	<0.941	<0.837	<0.820	<0.873	<0.985	<0.978	<1.17
Di-n-butylphthalate	mg/kg	<0.858	<0.828	<0.968	<0.951	<1.14	<1.03	<0.998	<0.849	<0.932	<0.898	<0.798	<0.813	<0.742	<1.04	<1.03	<0.835	<0.833	<0.941	<0.837	<0.820	<0.873	<0.985	<0.978	<1.17
Di-n-octylphthalate	mg/kg	<0.858	<0.828	<0.968	<0.951	<1.14	<1.03	<0.998	<0.849	<0.932	<0.898	<0.798	<0.813	<0.742	<1.04	<1.03	<0.835	<0.833	<0.941	<0.837	<0.820	<0.873	<0.985	<0.978	<1.17
Fluoranthene	mg/kg	<0.858	<0.828	<0.968	<0.951	<1.14	<1.03	<0.998	<0.849	<0.932	<0.898	<0.798	<0.813	3.12	<1.04	<1.03	<0.835	1.41	9.66	<0.837	<0.820	<0.873	1.5	<0.978	<1.17
Fluorene	mg/kg	<0.858	<0.828	<0.968	<0.951	<1.14	<1.03	<0.998	<0.849	<0.932	<0.898	<0.798	<0.813	<0.742	<1.04	<1.03	<0.835	<0.833	<0.941	<0.837	<0.820	<0.873	<0.985	<0.978	<1.17
Hexachlorobenzene	mg/kg	<0.430	<0.415	<0.485	<0.477	<0.569	<0.516	<0.500	<0.426	<0.468	<0.450	<0.400	<0.408	<0.372	<0.520	<0.515	<0.419	<0.418	<0.472	<0.420	<0.411	<0.438	<0.494	<0.491	<0.586
Hexachlorobutadiene	mg/kg	<0.858	<0.828	<0.968	<0.951	<1.14	<1.03	<0.998	<0.849	<0.932	<0.898	<0.798	<0.813	<0.742	<1.04	<1.03	<0.835	<0.833	<0.941	<0.837	<0.820	<0.873	<0.985	<0.978	<1.17
Hexachloroethane	mg/kg	<0.858	<0.828	<0.968	<0.951	<1.14	<1.03	<0.998	<0.849	<0.932	<0.898	<0.798	<0.813	<0.742	<1.04	<1.03	<0.835	<0.833	<0.941	<0.837	<0.820	<0.873	<0.985	<0.978	<1.17
Indeno(1,2,3-cd)Pyrene	mg/kg	<0.858	<0.828	<0.968	<0.951	<1.14	<1.03	<0.998	<0.849	<0.932	<0.898	<0.798	<0.813	<0.742	<1.04	<1.03	<0.835	<0.833	<0.941	<0.837	<0.820	<0.873	<0.985	<0.978	<1.17
Isophorone	mg/kg	<0.858	<0.828	<0.968	<0.951	<1.14	<1.03	<0.998	<0.849	<0.932	<0.898	<0.798	<0.813	<0.742	<1.04	<1.03	<0.835	<0.833	<0.941	<0.837	<0.820	<0.873	<0.985	<0.978	<1.17
Naphthalene	mg/kg	<0.858	<0.828	<0.968	<0.951	<1.14	<1.03	<0.998	<0.849	<0.932	<0.898	<0.798	<0.813	<0.742	<1.04	<1.03	<0.835	<0.833	1.78	<0.837	<0.820	<0.873	<0.985	<0.978	<1.17
Nitrobenzene	mg/kg	<0.858	<0.828	<0.968	<0.951	<1.14	<1.03	<0.998	<0.849	<0.932	<0.898	<0.798	<0.813	<0.742	<1.04	<1.03	<0.835	<0.833	<0.941	<0.837	<0.820	<0.873	<0.985	<0.978	<1.17
N-Nitrosodimethylamine	mg/kg	<0.858	<0.828	<0.968	<0.951	<1.14	<1.03	<0.998	<0.849	<0.932	<0.898	<0.798	<0.813	<0.742	<1.04	<1.03	<0.835	<0.833	<0.941	<0.837	<0.820	<0.873	<0.985	<0.978	<1.17
Pentachlorophenol	mg/kg	<4.30	<4.15	<4.85	<4.77	<5.69	<5.16	<5.00	<4.26	<4.68	<4.50	<4.00	<4.08	<3.72	<5.20	<5.15	<4.19	<4.18	<4.72	<4.20	<4.11	<4.38	<4.94	<4.91	<5.86
Phenanthrene	mg/kg	<0.858	<0.828	<0.968	<0.951	<1.14	<1.03	<0.998	<0.849	<0.932	<0.898	<0.798	<0.813	1.92	<1.04	<1.03	<0.835	<0.833	10.4	<0.837	<0.820	<0.873	1.59	<0.978	<1.17
Phenol	mg/kg	<0.858	<0.828	<0.968	<0.951	<1.14	<1.03	<0.998	<0.849	<0.932	<0.898	<0.798	<0.813	<0.742	<1.04	<1.03	<0.835	<0.833	<0.941	<0.837	<0.820	<0.873	<0.985	<0.978	<1.17
Pyrene	mg/kg	<0.858	<0.828	<0.968	<0.951	<1.14	<1.03	<0.998	<0.849	<0.932	<0.898	<0.798	<0.813	2.44	<1.04	<1.03	<0.835	1.51	11.1	<0.837	<0.820	<0.873	1.28	<0.978	<1.17
Total SVOCs	mg/kg	ND	ND	0.533	ND	ND	ND	ND	ND	ND	ND	ND	ND	15.353	ND	ND	ND	4.398	62.7	ND	ND	ND	5.791	ND	ND
Classic Chemistry																									
Corrosivity (pH)	S.U.	9.01	9.28	8.19	6.27	6.11	6	5.38	5.01	5.12	5.62	8.5	8.73	7.28	7.04	7.83	9.1	9.61	8.58	3.83	8.35	7.58	7.34	6.62	4.14
Conductivity	umhos/cm	97	138	598	401	317	187	226	284	2830	1190	120	257	1130	1350	1810	3780	4080	1820	5960	224	1540	1340	1330	2720
Flashpoint	°F	>200	>200	>200	>200	>200	--	--	--	--	--	>200	>200	>200	--	--	--	--	--	--	>200	>200	>200	>200	--
Reactive Cyanide	mg/kg	<2.0	<2.0	<2.0	<2.0	<2.0	--	--	--	--	--	<2.0	<2.0	<2.0	--	--	--	--	--	--	<2.0	<2.0	<2.0	<2.0	--
Reactive Sulfide	mg/kg	<2.0	<2.0	<2.0	<2.0	<2.0	--	--	--	--	--	<2.0	<2.0	<2.0	--	--	--	--	--	--	<2.0	<2.0	<2.0	<2.0	--

Table 1
Soil Precharacterization Data

Wynn Resort Casino
Everett, Massachusetts

Analyte	Precharacterization Cell	F19	F19	F19	F19	F20	F20	F20	F20	F20	F20	F20	F20	F20	G04	G04	G04	G04	G04	G04	G04	G04	G05	G05	G05
	Sample ID	F19S08	F19S09	F19S10	F19S11S12	F20S01S02A	F20S02BS04A	F20S04B	F20S05S06	F20S07	F20S08	F20S09	F20S10	F20S11S12	G04S01S02A	G04S02BS04A	G04S05	G04S06	G04S07	G04S08	G04S09	G04S10S11	G05S01S02A	G05S03S04	G05S05
	Laboratory Work Order	1502257	1502257	1502288	1502288	1502333	1502333	1502333	1502333	1502333	1502333	1502379	1502379	1502379	1503095	1503095	1503095	1503095	1503095	1503095	1503095	1503095	1503046	1503046	1503046
	Soil Distinction	Natural	Natural	Natural	Natural	Fill	Fill	Fill	Natural	Natural	Natural	Natural	Natural	Natural	Fill	Fill	Natural	Natural	Natural	Natural	Natural	Natural	Fill	Natural	Natural
	Soil Type	Organics	Organics	Clay	Clay				Organics	Organics	Organics	Organics	Organics	Clay			Organics	Clay	Clay	Clay	Clay	Sand/Gravel		Sand/Gravel	Sand/Gravel
	Depth Interval (ft.)	19 - 21	24 - 26	29 - 31	34 - 38	0 - 3.3	3.3 - 6.6	6.6 - 8	8 - 12	14 - 16	19 - 21	24 - 26	29 - 31	34 - 38	0 - 3.3	3.3 - 6.6	8 - 10	14 - 16	19 - 21	24 - 26	29 - 31	34 - 38	0 - 3.3	5 - 9	10 - 12
	Sampling Date	2/18/2015	2/18/2015	2/19/2015	2/19/2015	2/23/2015	2/23/2015	2/23/2015	2/23/2015	2/23/2015	2/23/2015	2/25/2015	2/25/2015	2/25/2015	3/5/2015	3/5/2015	3/5/2015	3/5/2015	3/5/2015	3/5/2015	3/5/2015	3/5/2015	3/5/2015	3/3/2015	3/3/2015	3/3/2015
Preliminary Disposal Facility Category		Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	TSCA Material	Hazardous Material Type A	MCP Regulated Material Type B-2	MCP Regulated Type B-1	Hazardous Material Type A	Uncontaminated	Uncontaminated	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Restricted	MCP Restricted	MCP Restricted	MCP Restricted	MCP Restricted	MCP Restricted	Hazardous Material Type A	MCP Regulated Type A	MCP Restricted
RCRA 8 Metals	**Units**																								
Arsenic	mg/kg	65.7	287	13.3	20.6	7.03	30.9	105	9.08	13.8	184	14.4	<6.69	15.3	9.43	50.9	373	11.1	<7.21	11.2	<7.45	10.3	108	<7.26	10.4
Barium	mg/kg	44.6	35.7	87.9	111	16.5	78.9	65.3	8.14	23.7	23.4	<7.23	14.7	102	62.1	185	101	87.8	75	44.2	75	99.4	72.6	7.35	17.8
Cadmium	mg/kg	<1.66	<1.76	<1.51	<1.64	<1.31	<1.38	<1.51	<1.60	<1.39	<1.94	<1.45	<1.34	<1.56	<1.48	<1.54	<6.55	<1.57	<1.44	<1.52	<1.49	<1.42	<1.30	<1.45	<1.48
Chromium	mg/kg	28.4	26.8	45.3	54.3	20.7	25.2	15.5	7.65	21	25.7	10.1	14.6	56.7	71.1	42.3	17.4	56.2	40.1	33.4	34.4	15	44.2	4.26	6.57
Lead	mg/kg	140	288	15.8	16.9	15	749	1330	101	31.8	405	<14.5	<13.4	21.2	231	1160	7860	16.1	<14.4	<15.2	<14.9	<14.2	568	<14.5	95.4
Selenium	mg/kg	<8.28	<8.82	<7.57	<8.20	<6.55	10.5	18.3	<7.99	<6.94	<9.70	<7.23	<6.69	<7.82	<7.41	41.4	98.8	<7.84	<7.21	<7.60	<7.45	<7.10	<6.48	<7.26	<7.42
Silver	mg/kg	<1.66	<1.76	<3.78	<2.05	<1.31	<1.38	2.71	<1.60	<1.39	<1.94	<1.45	<1.34	<1.56	<1.48	<1.54	<2.62	<1.57	<1.44	<1.52	<1.49	<1.42	2.02	<1.45	<1.48
Mercury	mg/kg	4.35	2.45	<0.032	<0.038	<0.028	4.54	4.18	0.058	0.353	1.05	0.044	<0.040	<0.034	0.33	5.48	3.75	<0.038	<0.035	<0.042	<0.040	<0.038	0.859	<0.024	0.411
Metals by Toxicity Characteristic Leaching Procedure (TCLP)																									
Arsenic	mg/L	--	1.92	--	--	--	--	<0.500	--	--	<25.0	--	--	--	--	--	<0.500	--	--	--	--	--	<0.500	--	--
Cadmium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead	mg/L	1.48	0.135	--	--	--	1.69	<0.500	9.98	--	0.777	--	--	--	0.853	1.52	3.67	--	--	--	--	--	0.522	--	--
Selenium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.500	<0.500	--	--	--	--	--	--	--	--
Mercury	mg/L	<0.00050	--	--	--	--	<0.00050	<0.00050	--	--	--	--	--	--	--	<0.00050	--	--	--	--	--	--	--	--	--
Herbicides																									
2,4,5-T	mg/kg	--	--	--	--	<0.054	<0.057	<0.057	<0.066	--	--	--	--	--	<0.047	<0.049	<0.22	--	--	--	--	--	<0.091	--	--
2,4-D	mg/kg	--	--	--	--	<0.054	<0.057	<0.057	<0.066	--	--	--	--	--	<0.24	<0.24	<1.1	--	--	--	--	--	<0.45	--	--
2,4-DB	mg/kg	--	--	--	--	<0.054	<0.057	<0.057	<0.066	--	--	--	--	--	<0.018	<0.018	<0.083	--	--	--	--	--	<0.034	--	--
Dalapon	mg/kg	--	--	--	--	<0.65	<0.68	<0.69	<0.79	--	--	--	--	--	<1.4	<1.5	<6.6	--	--	--	--	--	<2.7	--	--
Dicamba	mg/kg	--	--	--	--	<0.054	<0.057	<0.057	<0.066	--	--	--	--	--	<0.071	<0.073	<0.33	--	--	--	--	--	<0.14	--	--
Dichlorprop	mg/kg	--	--	--	--	<0.054	<0.057	<0.057	<0.066	--	--	--	--	--	<0.15	<0.16	<0.72	--	--	--	--	--	<0.30	--	--
Dinoseb	mg/kg	--	--	--	--	<0.32	<0.34	<0.35	<0.40	--	--	--	--	--	<0.24	<0.24	<1.1	--	--	--	--	--	<0.45	--	--
MCPA	mg/kg	--	--	--	--	<13	<14	<14	<16	--	--	--	--	--	<59	<61	<280	--	--	--	--	--	<110	--	--
MCPP	mg/kg	--	--	--	--	<13	<14	<14	<16	--	--	--	--	--	<59	<61	<280	--	--	--	--	--	<110	--	--
Silvex (2,4,5-TP)	mg/kg	--	--	--	--	<0.054	<0.057	<0.057	<0.066	--	--	--	--	--	<0.047	<0.049	<0.22	--	--	--	--	--	<0.091	--	--
Pesticides																									
4,4'-DDD	mg/kg	--	--	--	--	<0.0018	<0.0020	<0.0020	<0.0022	--	--	--	--	--	<0.0099	<0.010	<0.019	--	--	--	--	--	<0.0097	--	--
4,4'-DDE	mg/kg	--	--	--	--	<0.0018	<0.0020	<0.0020	<0.0022	--	--	--	--	--	<0.0099	<0.010	<0.019	--	--	--	--	--	<0.0097	--	--
4,4'-DDT	mg/kg	--	--	--	--	<0.0018	<0.0020	<0.0020	<0.0022	--	--	--	--	--	<0.0099	<0.010	<0.019	--	--	--	--	--	<0.0097	--	--
Aldrin	mg/kg	--	--	--	--	<0.0018	<0.0020	<0.0020	<0.0022	--	--	--	--	--	<0.0099	<0.010	<0.019	--	--	--	--	--	<0.0097	--	--
alpha-BHC	mg/kg	--	--	--	--	<0.0018	<0.0020	<0.0020	<0.0022	--	--	--	--	--	<0.0099	<0.010	<0.019	--	--	--	--	--	<0.0097	--	--
beta-BHC	mg/kg	--	--	--	--	<0.0018	<0.0020	<0.0020	<0.0022	--	--	--	--	--	<0.0099	<0.010	<0.019	--	--	--	--	--	<0.0097	--	--
Chlordane (technical)	mg/kg	--	--	--	--	<0.018	<0.020	<0.020	<0.022	--	--	--	--	--	<0.099	<0.10	<0.19	--	--	--	--	--	<0.097	--	--
delta-BHC	mg/kg	--	--	--	--	<0.0018	<0.0020	<0.0020	<0.0022	--	--	--	--	--	<0.0099	<0.010	<0.019	--	--	--	--	--	<0.0097	--	--
Dieldrin	mg/kg	--	--	--	--	<0.0018	<0.0020	<0.0020	<0.0022	--	--	--	--	--	<0.0099	<0.010	<0.019	--	--	--	--	--	<0.0097	--	--
Endosulfan I	mg/kg	--	--	--	--	<0.0018	<0.0020	<0.0020	<0.0022	--	--	--	--	--	<0.0099	<0.010	<0.019	--	--	--	--	--	<0.0097	--	--
Endosulfan II	mg/kg	--	--	--	--	<0.0018	<0.0020	<0.0020	<0.0022	--	--	--	--	--	<0.0099	<0.010	<0.019	--	--	--	--	--	<0.0097	--	--
Endosulfan sulfate	mg/kg	--	--	--	--	<0.0018	<0.0020	<0.0020	<0.0022	--	--	--	--	--	<0.0099	<0.010	<0.019	--	--	--	--	--	<0.0097	--	--
Endrin	mg/kg	--	--	--	--	<0.0018	<0.0020	<0.0020	<0.0022	--	--	--	--	--	<0.0099	<0.010	<0.019	--	--	--	--	--	<0.0097	--	--
Endrin ketone	mg/kg	--	--	--	--	<0.0018	<0.0020	<0.0020	<0.0022	--	--	--	--	--	<0.0099	<0.010	<0.019	--	--	--	--	--	<0.0097	--	--
gamma-BHC (Lindane)	mg/kg	--	--	--	--	<0.0018	<0.0020	<0.0020	<0.0022	--	--	--	--	--	<0.0099	<0.010	<0.019	--	--	--	--	--	<0.0097	--	--
Heptachlor	mg/kg	--	--	--	--	<0.0018	<0.0020	<0.0020	<0.0022	--	--	--	--	--	<0.0099	<0.010	<0.019	--	--	--	--	--	<0.0097	--	--
Heptachlor epoxide	mg/kg	--	--	--	--	<0.0018	<0.0020	<0.0020	<0.0022	--	--	--	--	--	<0.0099	<0.010	<0.019	--	--	--	--	--	<0.0097	--	--
Hexachlorobenzene	mg/kg	--	--	--	--	<0.0018	<0.0020	<0.0020	<0.0022	--	--	--	--	--	<0.0099	<0.010	<0.019	--	--	--	--	--	<0.0097	--	--
Methoxychlor	mg/kg	--	--	--	--	<0.0018	<0.0020	<0.0020	<0.0022	--	--	--	--	--	<0.0099	<0.010	<0.019	--	--	--	--	--	<0.0097	--	--
Polychlorinated Biphenyls																									
Aroclor 1016	mg/kg	<0.177	<0.180	<0.157	<0.166	<0.137	<6.97	<0.144	<0.160	<0.153	<0.186	<0.149	<0.152	<0.159	<0.145	<0.144	<0.299	<0.162	<0.164	<0.156	<0.158	<0.140	<0.130	<0.133	<0.137
Aroclor 1221	mg/kg	<0.177	<0.180	<0.157	<0.166	<0.137	<6.97	<0.144	<0.160	<0.153	<0.186	<0.149	<0.152	<0.159	<0.145	<0.144	<0.299	<0.162	<0.164	<0.156	<0.158	<0.140	<0.130	<0.133	<0.137
Aroclor 1232	mg/kg	<0.177	<0.180	<0.157	<0.166	<0.137	<6.97	<0.144	<0.160	<0.153	<0.186	<0.149	<0.152	<0.159	<0.145	<0.144	<0.299	<0.162	<0.164	<0.156	<0.158	<0.140	<0.130	<0.133	<0.137
Aroclor 1242	mg/kg	<0.177	<0.180	<0.157	<0.166	<0.137	<6.97	<0.144	<0.160	<0.153	<0.186	<0.149	<0.152	<0.159	<0.145	<0.144	<0.299	<0.162	<0.164	<0.156	<0.158	<0.140	<0.130	<0.133	<0.137
Aroclor 1248	mg/kg	<0.177	<0.180	<0.157	<0.166	<0.137	<6.97	<0.144	<0.160	<0.153	<0.186	<0.149	<0.152	<0.159	<0.145	<0.144	<0.299	<0.162	<0.164	<0.156	<0.158	<0.140	<0.130	<0.133	<0.137
Aroclor 1254	mg/kg	<0.177	<0.180	<0.157	<0.166	<0.137	69	0.341	0.242	<0.153	<0.186	<0.149	<0.152	<0.159	<0.145	0.847	<0.299	<0.162	<0.164	<0.156	<0.158	<0.140	0.318	<0.133	<0.137
Aroclor 1260	mg/kg	<0.177	<0.180	<0.157	<0.166	<0.137	23.7	<0.144	<0.160	<0.153	<0.186	<0.149	<0.152	<0.159	<0.145	<0.144	<0.299	<0.162	<0.164	<0.156	<0.158	<0.140	<0.130	<0.133	<0.137
Aroclor 1262	mg/kg	<0.177	<0.180	<0.157	<0.166	<0.137	<6.97	<0.144	<0.160	<0.153	<0.186	<0.149	<0.152	<0.159	<0.145	<0.144	<0.299	<0.162	<0.164	<0.156	<0.158	<0.140	0.205	<0.133	<0.137
Aroclor 1268	mg/kg	<0.177	<0.180	<0.157	<0.166	<0.137	<6.97	<0.144	<0.160	<0.153	<0.186	<0.149	<0.152	<0.159	<0.145	<0.144	<0.299	<0.162	<0.164	<0.156	<0.158	<0.140	<0.130	<0.133	<0.137
Total PCBs	mg/kg	ND	ND	ND	ND	ND	92.7	0.341	0.242	ND	ND	ND	ND	ND	ND	0.847	ND	ND	ND	ND	ND	ND	0.523	ND	ND
Total Petroleum Hydrocarbons	mg/kg	98.8	272	<45.6	<52.4	<43.5	229	160	<47.5	<49.0	175	<47.0	<46.4	<48.1	473	405	509	119	<51.6	<49.4	<47.7	<44.3	467	49.5	<46.0
Volatile Organic Compounds (VOCs)																									
1,1,1,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	<0.173	--	--	--	--	--	<0.461	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	<0.0866	--	--	--	--	--	<0.231	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	<0.0866	--	--	--	--	--	<0.231	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	<0.0866	--	--	--	--	--	<0.231	--	--	--	--	--	--	--	--
1,1-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	<0.0866	--	--	--	--	--	<0.231	--	--	--	--	--	--	--	--
1,1-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	<0.0866	--	--	--	--	--	<0.231	--	--	--	--	--	--	--	--
1,1-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	<0.0866	--	--	--	--	--	<0.231	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	<0.0866	--	--	--	--	--	<0.231	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	<0.0866	--	--	--	--	--	<0.231	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	<0.0866	--	--	--	--	--	<0.231	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	<0.0866	--	--	--	--	--	<0.231	--	--	--	--	--	--	--	--
1,2-Dibromo-3-Chloropropane	mg/kg	--	--	--	--	--	--	--	--	--	<0.346	--	--	--	--	--	<0.923	--	--	--	--	--	--	--	--
1,2-Dibromoethane	mg/kg	--	--	--	--	--	--	--	--	--	<0.0866	--	--	--	--	--	<0.231	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	<0.0866	--	--	--	--	--	<0.231	--	--	--	--	--	--	--	--
1,2-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	<0.0866	--	--	--	--	--	<0.231	--	--	--	--	--	--	--	--
1,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	<0.0866	--	--	--	--	--	<0.231	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	<0.0866	--	--	--	--	--	<0.231	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	<0.0866	--	--	--	--	--	<0.231	--	--	--	--	--	--	--	--
1,3-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	<0.0866	--	--	--	--	--	<0.231	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	<0.0866	--	--	--	--	--	<0.231	--	--	--	--	--	--	--	--
1,4-Dioxane - Screen	mg/kg	--	--	--	--	--	--	--	--	--	<8.66	--	--	--	--	--	<23.1	--	--	--	--	--	--	--	--
2,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	<0.173	--	--	--	--	--	<0.461	--	--	--	--	--	--	--	--
2-Butanone	mg/kg	--	--	--	--	--	--	--	--	--	<0.346	--	--	--	--	--	<0.923	--	--	--	--	--	--	--	--
2-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	<0.0866	--	--	--	--	--	<0.231	--	--	--	--	--	--	--	--
2-Hexanone	mg/kg	--	--	--	--	--	--	--	--	--	<0.346	--	--	--	--	--	<0.923	--	--	--	--	--	--	--	--
4-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	<0.0866	--	--	--	--	--	<0.231	--	--	--	--	--	--	--	--
4-Isopropyltoluene	mg/kg	--	--	--	--	--	--	--	--	--	<0.0866	--	--	--	--	--	<0.231	--	--	--	--	--	--	--	--
4-Methyl-2-Pentanone	mg/kg	--	--	--	--	--	--	--	--	--	<0.346	--	--	--	--	--	<0.923	--	--	--	--	--	--	--	--
Acetone	mg/kg	--	--	--	--	--	--	--	--	--	<0.346	--	--	--	--	--	1.21	--	--	--	--	--	--	--	--
Benzene	mg/kg	--	--	--	--	--	--	--	--	--	<0.0866	--	--	--	--	--	<0.231	--	--	--	--	--	--	--	--
Bromobenzene	mg/kg	--	--	--	--	--	--	--	--	--	<0.0866	--	--	--	--	--	<0.231	--	--	--	--	--	--	--	--
Bromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	<0.0866	--	--	--	--	--	<0.231	--	--	--	--	--	--	--	--
Bromodichloromethane	mg/kg	--	--	--	--	--	--	--	--	--	<0.0866	--	--	--	--	--	<0.231	--	--	--	--	--	--	--	--
Bromoform	mg/kg	--	--	--	--	--	--	--	--	--	<0.0866	--	--	--	--	--	<0.231	--	--	--	--	--	--	--	--
Bromomethane	mg/kg	--	--	--	--	--	--	--	--	--	<0.173	--	--	--	--	--	<0.461	--	--	--	--	--	--	--	--
Carbon Disulfide	mg/kg	--	--	--	--	--	--	--	--	--	<0.0866	--	--	--	--	--	<0.231	--	--	--	--	--	--	--	--
Carbon Tetrachloride	mg/kg	--	--	--	--	--	--	--	--	--	<0.0866	--	--	--	--	--	<0.231	--	--	--	--	--	--	--	--

Analyte	Precharacterization Cell	F19	F19	F19	F19	F20	F20	F20	F20	F20	F20	F20	F20	F20	G04	G04	G04	G04	G04	G04	G04	G05	G05	G05
	Sample ID	F19S08	F19S09	F19S10	F19S11S12	F20S01S02A	F20S02BS04A	F20S04B	F20S05S06	F20S07	F20S08	F20S09	F20S10	F20S11S12	G04S01S02A	G04S02BS04A	G04S05	G04S06	G04S07	G04S08	G04S09	G04S10S11	G05S01S02A	G05S03S04	G05S05
	Laboratory Work Order	1502257	1502257	1502288	1502288	1502333	1502333	1502333	1502333	1502333	1502333	1502379	1502379	1502379	1503095	1503095	1503095	1503095	1503095	1503095	1503095	1503095	1503046	1503046	1503046
	Soil Distinction	Natural	Natural	Natural	Natural	Fill	Fill	Fill	Natural	Natural	Natural	Natural	Natural	Natural	Fill	Fill	Natural	Natural	Natural	Natural	Natural	Sand/Gravel	Fill	Natural	Natural
	Soil Type	Organics	Organics	Clay	Clay				Organics	Organics	Organics	Organics	Organics	Clay			Organics	Clay	Clay	Clay	Clay	Sand/Gravel		Sand/Gravel	Sand/Gravel
	Depth Interval (ft.)	19 - 21	24 - 26	29 - 31	34 - 38	0 - 3.3	3.3 - 6.6	6.6 - 8	8 - 12	14 - 16	19 - 21	24 - 26	29 - 31	34 - 38	0 - 3.3	3.3 - 6.6	8 - 10	14 - 16	19 - 21	24 - 26	29 - 31	34 - 38	0 - 3.3	5 - 9	10 - 12
	Sampling Date	2/18/2015	2/18/2015	2/19/2015	2/19/2015	2/23/2015	2/23/2015	2/23/2015	2/23/2015	2/23/2015	2/23/2015	2/25/2015	2/25/2015	2/25/2015	3/5/2015	3/5/2015	3/5/2015	3/5/2015	3/5/2015	3/5/2015	3/5/2015	3/5/2015	3/3/2015	3/3/2015	3/3/2015
Preliminary Disposal Facility Category		Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	TSCA Material	Hazardous Material Type A	MCP Regulated Material Type B-2	MCP Regulated Type B-1	Hazardous Material Type A	Uncontaminated	Uncontaminated	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Restricted	MCP Restricted	MCP Restricted	MCP Restricted	MCP Restricted	Hazardous Material Type A	MCP Regulated Type A	MCP Restricted
Chlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	<0.0866	--	--	--	--	--	<0.231	--	--	--	--	--	--	--	--
Chloroethane	mg/kg	--	--	--	--	--	--	--	--	--	<0.173	--	--	--	--	--	<0.461	--	--	--	--	--	--	--	--
Chloroform	mg/kg	--	--	--	--	--	--	--	--	--	<0.0866	--	--	--	--	--	<0.231	--	--	--	--	--	--	--	--
Chloromethane	mg/kg	--	--	--	--	--	--	--	--	--	<0.173	--	--	--	--	--	<0.461	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	<0.0866	--	--	--	--	--	<0.231	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	<0.0866	--	--	--	--	--	<0.231	--	--	--	--	--	--	--	--
Dibromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	<0.0866	--	--	--	--	--	<0.231	--	--	--	--	--	--	--	--
Dibromomethane	mg/kg	--	--	--	--	--	--	--	--	--	<0.0866	--	--	--	--	--	<0.231	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	<0.0866	--	--	--	--	--	<0.231	--	--	--	--	--	--	--	--
Diethyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	<0.0866	--	--	--	--	--	<0.231	--	--	--	--	--	--	--	--
Di-isopropyl ether	mg/kg	--	--	--	--	--	--	--	--	--	<0.0866	--	--	--	--	--	<0.231	--	--	--	--	--	--	--	--
Ethyl tertiary-butyl ether	mg/kg	--	--	--	--	--	--	--	--	--	<0.0866	--	--	--	--	--	<0.231	--	--	--	--	--	--	--	--
Ethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	<0.0866	--	--	--	--	--	<0.231	--	--	--	--	--	--	--	--
Hexachlorobutadiene	mg/kg	--	--	--	--	--	--	--	--	--	<0.0866	--	--	--	--	--	<0.231	--	--	--	--	--	--	--	--
Isopropylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	<0.0866	--	--	--	--	--	<0.231	--	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	<0.0866	--	--	--	--	--	<0.231	--	--	--	--	--	--	--	--
Methylene Chloride	mg/kg	--	--	--	--	--	--	--	--	--	<0.346	--	--	--	--	--	<0.923	--	--	--	--	--	--	--	--
Naphthalene	mg/kg	--	--	--	--	--	--	--	--	--	4.07	--	--	--	--	--	<0.231	--	--	--	--	--	--	--	--
n-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	<0.0866	--	--	--	--	--	<0.231	--	--	--	--	--	--	--	--
n-Propylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	<0.0866	--	--	--	--	--	<0.231	--	--	--	--	--	--	--	--
sec-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	<0.0866	--	--	--	--	--	<0.231	--	--	--	--	--	--	--	--
Styrene	mg/kg	--	--	--	--	--	--	--	--	--	<0.0866	--	--	--	--	--	<0.231	--	--	--	--	--	--	--	--
tert-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	<0.0866	--	--	--	--	--	<0.231	--	--	--	--	--	--	--	--
Tertiary-amyl methyl ether	mg/kg	--	--	--	--	--	--	--	--	--	<0.0866	--	--	--	--	--	<0.231	--	--	--	--	--	--	--	--
Tetrachloroethene	mg/kg	--	--	--	--	--	--	--	--	--	<0.0866	--	--	--	--	--	<0.231	--	--	--	--	--	--	--	--
Tetrahydrofuran	mg/kg	--	--	--	--	--	--	--	--	--	<0.346	--	--	--	--	--	<0.923	--	--	--	--	--	--	--	--
Toluene	mg/kg	--	--	--	--	--	--	--	--	--	<0.0866	--	--	--	--	--	<0.231	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	<0.0866	--	--	--	--	--	<0.231	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	<0.0866	--	--	--	--	--	<0.231	--	--	--	--	--	--	--	--
Trichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	<0.0866	--	--	--	--	--	<0.231	--	--	--	--	--	--	--	--
Trichlorofluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	<0.0866	--	--	--	--	--	<0.231	--	--	--	--	--	--	--	--
Vinyl Chloride	mg/kg	--	--	--	--	--	--	--	--	--	<0.0866	--	--	--	--	--	<0.231	--	--	--	--	--	--	--	--
Xylene O	mg/kg	--	--	--	--	--	--	--	--	--	<0.0866	--	--	--	--	--	<0.231	--	--	--	--	--	--	--	--
Xylene P,M	mg/kg	--	--	--	--	--	--	--	--	--	<0.173	--	--	--	--	--	<0.461	--	--	--	--	--	--	--	--
Xylenes (Total)	mg/kg	--	--	--	--	--	--	--	--	--	<0.173	--	--	--	--	--	<0.461	--	--	--	--	--	--	--	--
Total VOCs	mg/kg	--	--	--	--	--	--	--	--	--	4.07	--	--	--	--	--	1.21	--	--	--	--	--	--	--	--
Volatile Organic Compounds - Low Level Analysis																									
1,1,1,2-Tetrachloroethane	mg/kg	<0.0040	<0.0038	<0.0041	<0.0040	<0.0061	<0.0056	<0.0050	<0.0038	<0.0040	<0.0035	<0.0032	<0.0030	<0.0029	<0.0026	<0.0063	<0.0129	<0.0039	<0.0036	<0.0044	<0.0038	<0.0056	<0.0046	<0.0036	<0.0037
1,1,1-Trichloroethane	mg/kg	<0.0040	<0.0038	<0.0041	<0.0040	<0.0061	<0.0056	<0.0050	<0.0038	<0.0040	<0.0035	<0.0032	<0.0030	<0.0029	<0.0026	<0.0063	<0.0129	<0.0039	<0.0036	<0.0044	<0.0038	<0.0056	<0.0046	<0.0036	<0.0037
1,1,2,2-Tetrachloroethane	mg/kg	<0.0016	<0.0015	<0.0017	<0.0016	<0.0024	<0.0022	<0.0020	<0.0015	<0.0016	<0.0014	<0.0013	<0.0012	<0.0012	<0.0010	<0.0025	<0.0051	<0.0015	<0.0015	<0.0018	<0.0015	<0.0022	<0.0018	<0.0014	<0.0015
1,1,2-Trichloroethane	mg/kg	<0.0040	<0.0038	<0.0041	<0.0040	<0.0061	<0.0056	<0.0050	<0.0038	<0.0040	<0.0035	<0.0032	<0.0030	<0.0029	<0.0026	<0.0063	<0.0129	<0.0039	<0.0036	<0.0044	<0.0038	<0.0056	<0.0046	<0.0036	<0.0037
1,1-Dichloroethane	mg/kg	<0.0040	<0.0038	<0.0041	<0.0040	<0.0061	<0.0056	<0.0050	<0.0038	<0.0040	<0.0035	<0.0032	<0.0030	<0.0029	<0.0026	<0.0063	<0.0129	<0.0039	<0.0036	<0.0044	<0.0038	<0.0056	<0.0046	<0.0036	<0.0037
1,1-Dichloroethene	mg/kg	<0.0040	<0.0038	<0.0041	<0.0040	<0.0061	<0.0056	<0.0050	<0.0038	<0.0040	<0.0035	<0.0032	<0.0030	<0.0029	<0.0026	<0.0063	<0.0129	<0.0039	<0.0036	<0.0044	<0.0038	<0.0056	<0.0046	<0.0036	<0.0037
1,1-Dichloropropene	mg/kg	<0.0040	<0.0038	<0.0041	<0.0040	<0.0061	<0.0056	<0.0050	<0.0038	<0.0040	<0.0035	<0.0032	<0.0030	<0.0029	<0.0026	<0.0063	<0.0129	<0.0039	<0.0036	<0.0044	<0.0038	<0.0056	<0.0046	<0.0036	<0.0037
1,2,3-Trichlorobenzene	mg/kg	<0.0040	<0.0038	<0.0041	<0.0040	<0.0061	<0.0056	<0.0050	<0.0038	<0.0040	<0.0035	<0.0032	<0.0030	<0.0029	<0.0026	<0.0063	<0.0129	<0.0039	<0.0036	<0.0044	<0.0038	<0.0056	<0.0046	<0.0036	<0.0037
1,2,3-Trichloropropane	mg/kg	<0.0040	<0.0038	<0.0041	<0.0040	<0.0061	<0.0056	<0.0050	<0.0038	<0.0040	<0.0035	<0.0032	<0.0030	<0.0029	<0.0026	<0.0063	<0.0129	<0.0039	<0.0036	<0.0044	<0.0038	<0.0056	<0.0046	<0.0036	<0.0037
1,2,4-Trichlorobenzene	mg/kg	<0.0040	<0.0038	<0.0041	<0.0040	<0.0061	<0.0056	<0.0050	<0.0038	<0.0040	<0.0035	<0.0032	<0.0030	<0.0029	<0.0026	<0.0063	<0.0129	<0.0039	<0.0036	<0.0044	<0.0038	<0.0056	<0.0046	<0.0036	<0.0037
1,2,4-Trimethylbenzene	mg/kg	<0.0040	<0.0038	<0.0041	<0.0040	<0.0061	<0.0056	<0.0050	<0.0038	<0.0040	<0.0035	<0.0032	<0.0030	<0.0029	<0.0026	<0.0063	<0.0129	<0.0039	<0.0036	<0.0044	<0.0038	<0.0056	<0.0046	<0.0036	<0.0037
1,2-Dibromo-3-Chloropropane	mg/kg	<0.0040	<0.0038	<0.0041	<0.0040	<0.0061	<0.0056	<0.0050	<0.0038	<0.0040	<0.0035	<0.0032	<0.0030	<0.0029	<0.0026	<0.0063	<0.0129	<0.0039	<0.0036	<0.0044	<0.0038	<0.0056	<0.0046	<0.0036	<0.0037
1,2-Dibromoethane	mg/kg	<0.0040	<0.0038	<0.0041	<0.0040	<0.0061	<0.0056	<0.0050	<0.0038	<0.0040	<0.0035	<0.0032	<0.0030	<0.0029	<0.0026	<0.0063	<0.0129	<0.0039	<0.0036	<0.0044	<0.0038	<0.0056	<0.0046	<0.0036	<0.0037
1,2-Dichlorobenzene	mg/kg	<0.0040	<0.0038	<0.0041	<0.0040	<0.0061	<0.0056	<0.0050	<0.0038	<0.0040	<0.0035	<0.0032	<0.0030	<0.0029	<0.0026	<0.0063	<0.0129	<0.0039	<0.0036	<0.0044	<0.0038	<0.0056	<0.0046	<0.0036	<0.0037
1,2-Dichloroethane	mg/kg	<0.0040	<0.0038	<0.0041	<0.0040	<0.0061	<0.0056	<0.0050	<0.0038	<0.0040	<0.0035	<0.0032	<0.0030	<0.0029	<0.0026	<0.0063	<0.0129	<0.0039	<0.0036	<0.0044	<0.0038	<0.0056	<0.0046	<0.0036	<0.0037
1,2-Dichloropropane	mg/kg	<0.0040	<0.0038	<0.0041	<0.0040	<0.0061	<0.0056	<0.0050	<0.0038	<0.0040	<0.0035	<0.0032	<0.0030	<0.0029	<0.0026	<0.0063	<0.0129	<0.0039	<0.0036	<0.0044	<0.0038	<0.0056	<0.0046	<0.0036	<0.0037
1,3,5-Trimethylbenzene	mg/kg	<0.0040	<0.0038	<0.0041	<0.0040	<0.0061	<0.0056	<0.0050	<0.0038	<0.0040	<0.0035	<0.0032	<0.0030	<0.0029	<0.0026	<0.0063	<0.0129	<0.0039	<0.0036	<0.0044	<0.0038	<0.0056	<0.0046	<0.0036	<0.0037
1,3-Dichlorobenzene	mg/kg	<0.0040	<0.0038	<0.0041	<0.0040	<0.0061	<0.0056	<0.0050	<0.0038	<0.0040	<0.0035	<0.0032	<0.0030	<0.0029	<0.0026	<0.0063	<0.0129	<0.0039	<0.0036	<0.0044	<0.0038	<0.0056	<0.0046	<0.0036	<0.0037
1,3-Dichloropropane	mg/kg	<0.0040	<0.0038	<0.0041	<0.0040	<0.0061	<0.0056	<0.0050	<0.0038	<0.0040	<0.0035	<0.0032	<0.0030	<0.0029	<0.0026	<0.0063	<0.0129	<0.0039	<0.0036	<0.0044	<0.0038	<0.0056	<0.0046	<0.0036	<0.0037
1,4-Dichlorobenzene	mg/kg	<0.0040	<0.0038	<0.0041	<0.0040	<0.0061	<0.0056	<0.0050	<0.0038	<0.0040	<0.0035	<0.0032	<0.0030	<0.0029	<0.0026	<0.0063	<0.0129	<0.0039	<0.0036	<0.0044	<0.0038	<0.0056	<0.0046	<0.0036	<0.0037
1,4-Dioxane	mg/kg	<0.0805	<0.0754	<0.0829	<0.0802	<0.122	<0.111	<0.0994	<0.0757	<0.0805	<0.0692	<0.0637	<0.0607	<0.0577	<0.0523	<0.125	<0.257	<0.0775	<0.0730	<0.0875	<0.0768	<0.112	<0.0919	<0.0724	<0.0750
2,2-Dichloropropane	mg/kg	<0.0040	<0.0038	<0.0041	<0.0040	<0.0061	<0.0056	<0.0050	<0.0038	<0.0040	<0.0035	<0.0032	<0.0030	<0.0029	<0.0026	<0.0063	<0.0129	<0.0039	<0.0036	<0.0044	<0.0038	<0.0056	<0.0046	<0.0036	<0.0037
2-Butanone	mg/kg	<0.0081	0.0117	<0.0083	<0.0080	<0.0122	<0.0111	<0.0099	<0.0076	<0.0081	<0.0069	<0.0064	<0.0061	<0.0058	0.0058	<0.0125	0.0781	<0.0077	<0.0073	<0.0088	<0.0077	<0.0112	<0.0092	<0.0072	<0.0075
2-Chlorotoluene	mg/kg	<0.0040	<0.0038	<0.0041	<0.0040	<0.0061	<0.0056	<0.0050	<0.0038	<0.0040	<0.0035	<0.0032	<0.0030	<0.0029	<0.0026	<0.0063	<0.0129	<0.0039	<0.0036	<0.0044	<0.0038	<0.0056	<0.0046	<0.0036	<0.0037
2-Hexanone	mg/kg	<0.0081	<0.0075	<0.0083	<0.0080	<0.0122	<0.0111	<0.0099	<0.0076	<0.0081	<0.0069	<0.0064	<0.0061	<0.0058	<0.0052	<0.0125	<0.0257	<0.0077	<0.0073	<0.0088	<0.0077	<0.0112	<0.0092	<0.0072	<0.0075
4-Chlorotoluene	mg/kg	<0.0040	<0.0038	<0.0041	<0.0040	<0.0061	<0.0056	<0.0050	<0.0038	<0.0040	<0.0035	<0.0032	<0.0030	<0.0029	<0.0026	<0.0063	<0.0129	<0.0039	<0.0036	<0.0044	<0.0038	<0.0056	<0.0046	<0.0036	<0.0037
4-Isopropyltoluene	mg/kg	<0.0040	<0.0038	<0.0041	<0.0040	<0.0061	<0.0056	<0.0050	<0.0038	<0.0040	<0.0035	<0.0032	<0.0030	<0.0029	<0.0026	<0.0063	<0.0129	<0.0039	<0.0036	<0.0044	<0.0038	<0.0056	<0.0046	<0.0036	<0.0037
4-Methyl-2-Pentanone	mg/kg	<0.0081	<0.0075	<0.0083	<0.0080	<0.0122	<0.0111	<0.0099	<0.0076	<0.0081	<0.0069	<0.0064	<0.0061	<0.0058	<0.0052	<0.0125	<0.0257	<0.0077	<0.0073	<0.0088	<0.0077	<0.0112	<0.0092	<0.0072	<0.0075
Acetone	mg/kg	0.0286	0.141	0.015	<0.0080	<0.0122	0.0502	<0.0099	0.0304	0.046	0.0162	<0.0064	<0.0061	<0.0058	0.0406	0.0396	0.592	<0.0077	<0.0073	<0.0088	<0.0077	<0.0112	0.0247	0.016	<0.0075
Benzene	mg/kg	<0.0040	<0.0038	<0.0041	<0.0040	<0.0061	<0.0056	<0.0050	<0.0038	<0.0040	<0.0035	<0.0032	<0.0030	<0.0029	<0.0026	<0.0063	<0.0129	<0.0039	<0.0036	<0.0044	<0.0038	<0.0056	<0.0046	<0.0036	<0.0037
Bromobenzene	mg/kg	<0.0040	<0.0038	<0.0041	<0.0040	<0.0061	<0.0056	<0.0050	<0.0038	<0.0040	<0.0035	<0.0032	<0.0030	<0.0029	<0.0026	<0.0063	<0.0129	<0.0039	<0.0036	<0.0044	<0.0038	<0.0056	<0.0046	<0.0036	<0.0037
Bromochloromethane	mg/kg	<0.0040	<0.0038	<0.0041	<0.0040	<0.0061	<0.0056	<0.0050	<0.0038	<0.0040	<0.0035	<0.0032	<0.0030	<0.0029	<0.0026	<0.0063	<0.0129	<0.0039	<0.0036	<0.0044	<0.0038	<0.0056	<0.0046	<0.0036	<0.0037
Bromodichloromethane	mg/kg	<0.0040	<0.0038	<0.0041	<0.0040	<0.0061	<0.0056	<0.0050	<0.0038	<0.0040	<0.0035	<0.0032	<0.0030	<0.0029	<0.0026	<0.0063	<0.0129	<0.0039	<0.0036	<0.0044	<0.0038	<0.0056	<0.0046	<0.0036	<0.0037
Bromoform	mg/kg	<0.0040	<0.0038	<0.0041	<0.0040	<0.0061	<0.0056	<0.0050	<0.0038	<0.0040	<0.0035	<0.0032	<0.0030	<0.0029	<0.0026	<0.0063	<0.0129	<0.0039	<0.0036	<0.0044	<0.0038	<0.0056	<0.0046	<0.0036	<0.0037
Bromomethane	mg/kg	<0.0081	<0.0075	<0.0083	<0.0080	<0.0122	<0.0111	<0.0099	<0.0076	<0.0081	<0.0069	<0.0064	<0.0061	<0.0058	<0.0052	<0.0125	<0.0257	<0.0077	<0.0073	<0.0088	<0.0077	<0.0112	<0.0092	<0.0072	<0.0075
Carbon Disulfide	mg/kg	0.0055	0.0237	<0.0041	<0.0040	<0.0061	<0.0056	<0.0050	<0.0038	<0.0040	0.0187	<0.0032	<0.0030	<0.0029	<0.0026	<0.0063	0.0241	<0.0039	<0.0036	<0.0044	<0.0038	<0.0056	<0.0046	<0.0036	<0.0037
Carbon Tetrachloride	mg/kg	<0.0040	<0.0038	<0.0041	<0.0040	<0.0061	<0.0056	<0.0050	<0.0038	<0.0040	<0.0035	<0.0032	<0.0030	<0.0029	<0.0026	<0.0063	<0.0129	<0.0039	<0.0036	<0.0044	<0.0038	<0.0056	<0.0046	<0.0036	<0.0037
Chlorobenzene	mg/kg	<0.0040	<0.0038	<0.0041	<0.0040	<0.0061	<0.0056	<0.0050	<0.0038	<0.0040	<0.0035	<0.0032	<0.0030	<0.0029	<0.0026	<0.0063	<0.0129	<0.0039	<0.0036	<0.0044	<0.0038	<0.0056	<0.0046	<0.0036	<0.0037
Chloroethane	mg/kg	<0.0081	<0.0075	<0.0083	<0.0080	<0.0122	<0.0111	<0.0099	<0.0076	<0.0081	<0.0069	<0.0064	<0.0061	<0.0058	<0.0052	<0.0125	<0.0257	<0.0077	<0.0073	<0.0088	<0.0077	<0.0112	<0.0092	<0.0072	<0.0075
Chloroform	mg/kg	<0.0040	<0.0038	<0.0041	<0.0040	<0.0061	<0.0056	<0.0050	<0.0038	<0.0040	<0.0035	<0.0032	<0.0030	<0.0029	<0.0026	<0.0063	<0.0129	<0.0039	<0.0036	<0.0044	<0.0038	<0.0056	<0.0046	<0.0036	<0.0037
Chloromethane	mg/kg	<0.0081	<0.0075	<0.0083	<0.0080	<0.0122	<0.0111	<0.0099	<0.0076	<0.0081	<0.0069	<0.0064	<0.0061	<0.0058	<0.0052	<0.0125	<0.0257	<0.0077	<0.0073	<0.0088	<0.0077	<0.0112	<0.0092	<0.0072	<0.0075
cis-1,2-Dichloroethene	mg/kg	<0.0040	<0.0038	<0.0041	<0.0040	<0.0061	<0.0056	<0.0050	<0.0038	<0.0040	<0.0035	<0.0032	<0.0030	<0.0029	<0.0026	<0.0063	<0.0129	<0.0039	<0.0036	<0.0044	<0.0038	<0.0056	<0.0046	<0.0036	<0.0037
cis-1,3-Dichloropropene	mg/kg	<0.0040	<0.0038	<0.0041	<0.0040	<0.0061	<0.0056	<0.0050	<0.0038	<0.0040	<0.0035	<0.0032	<0.0030	<0.0029	<0.0026	<0.0063	<0.0129	<0.0039	<0.0036	<0.0044	<0.0038	<0.0056	<0.0046	<0.0036	<0.0037
Dibromochloromethane	mg/kg	<0.0016	<0.0015	<0.0017	<0.0016	<0.0024	<0.0022	<0.0020	<0.0015	<0.0016	<0.0014	<0.0013	<0.0012	<0.0012	<0.0010	<0.0025	<0.0051	<0.0015	<0.0015	<0.0018	<0.0015	<0.0022	<0.0018	<0.0014	<0.0015
Dibromomethane	mg/kg	<0.0040	<0.0038	<0.0041	<0.0040	<0.0061	<0.0056	<0.0050	<0.0038	<0.0040	<0.0035	<0.0032	<0.0030	<0.0029	<0.0026	<0.0063	<0.0129	<0.0039	<0.0036	<0.0044	<0.0038	<0.0056	<0.0046	<0.0036	<0.0037
Dichlorodifluoromethane	mg/kg	<0.0081	<0.0075	<0.0083	<0.0080	<0.0122	<0.0111	<0.0099	<0.0076	<0.0081	<0.0069	<0.0064	<0.0061	<0.0058	<0.0052	<0.0125	<0.0257	<0.0077	<0.0073	<0.0088	<0.0077	<0.0112	<0.0092	<0.0072	<0.0075
Diethyl Ether	mg/kg	<0.0040	<0.0038	<0.0041	<0.0040	<0.0061	<0.0056	<0.0050	<0.0038	<0.0040	<0.0035	<0.0032	<0.0030	<0.0029	<0.0026	<0.0063	<0.0129	<0.0039	<0.0036	<0.0044	<0.0038	<0.0056	<0.0046	<0.0036	<0.0037
Di-isopropyl ether	mg/kg	<0.0040	<0.0038	<0.0041	<0.0040	<0.0061	<0.0056	<0.0050	<0.0038	<0.0040	<0.0035	<0.0032	<0.0030	<0.0029	<0.0026	<0.0063	<0.0129	<0.0039	<0.0036	<0.0044	<0.0038	<0.0056	<0.0046	<0.0036	<0.0037
Ethyl tertiary-butyl ether	mg/kg	<0.0040	<0.0038	<0.0041	<0.0040	<0.0061	<0.0056	<0.0050	<0.0038	<0.0040	<0.0035	<0.0032	<0.0030	<0.0029	<0.0026	<0.0063	<0.0129	<0.0039	<0.0036	<0.0044	<0.0038	<0.0056	<0.0046	<0.0036	<0.0037
Ethylbenzene	mg/kg	<0.0040	<0.0038	<0.0041	<0.0040	<0.0061	<0.0056	<0.0050	<0.0038	<0.0040	<0.0035	<0.0032	<0.0030	<0.0029	<0.0026	<0.0063	<0.0129	<0.0039	<0.0036	<0.0044	<0.0038	<0.0056	<0.0046	<0.0036	<0.0037
Hexachlorobutadiene	mg/kg	<0.0040	<0.0038	<0.0041	<0.0040	<0.0061	<0.0056	<0.0050	<0.0038	<0.0040	<0.0035	<0.0032	<0.0030	<0.0029	<0.0026	<0.0063	<0.0129	<0.0039	<0.0036	<0.0044	<0.0038	<0.0056	<0.0046	<0.0036	<0.0037
Isopropylbenzene	mg/kg	<0.0040	<0.0038	<0.0041	<0.0040	<0.0061	<0.0056	<0.0050	<0.0038	<0.0040	<0.0035	<0.0032	<0.0030	<0.0029	<0.0026	<0.0063	<0.0129	<0.0039	<0.0036	<0.0044	<0.0038	<0.0056	<0.0046	<0.0036	<0.0037
Methyl tert-Butyl Ether	mg/kg	<0.0040	<0.0038	<0.0041	<0.0040	<0.0061	<0.0056	<0.0050	<0.0038	<0.0040	<0.0035	<0.0032	<0.0030	<0.0029	<0.0026	<0.0063	<0.0129	<0.0039	<0.0036	<0.0044	<0.0038	<0.0056	<0.0046	<0.0036	<0.0037
Methylene Chloride	mg/kg	<0.0081	<0.0075	<0.0083	<0.0080	<0.0122	<0.0111	<0.0099	<0.0076	<0.0081	<0.0069	<0.0064	<0.0061	<0.0058	<0.0052	<0.0125	<0.0257	<0.0077	<0.0073	<0.0088	<0.0077	<0.0112	<0.0092	<0.0072	<0.0075
Naphthalene	mg/kg	<0.0040	<0.0038	<0.0041	<0.0040	<0.0061	<0.0056	<0.0050	<0.0038	<0.0040	0.425	<0.0032	<0.0030	<0.0029	0.022	<0.0063	<0.0129	<0.0039	<0.0036	<0.0044	<0.0038	<0.0056	<0.0046	<0.0036	<0.0037
n-Butylbenzene	mg/kg	<0.0040	<0.0038	<0.0041	<0.0040	<0.0061	<0.0056	<0.0050	<0.0038	<0.0040	<0.0035	<0.0032	<0.0030	<0.0029	<0.0026	<0.0063	<0.0129	<0.0039	<0.0036	<0.0044	<0.0038	<0.0056	<0.0046	<0.0036	<0.0037
n-Propylbenzene	mg/kg	<0.0040	<0.0038	<0.0041	<0.0040	<0.0061	<0.0056	<0.0050	<0.0038	<0.0040	<0.0035	<0.0032	<0.0030	<0.0029	<0.0026	<0.0063	<0.0129	<0.0039	<0.0036	<0.0044	<0.0038	<0.0056	<0.0046	<0.0036	<0.0037
sec-Butylbenzene	mg/kg	<0.0040	<0.0038	<0.0041	<0.0040	<0.0061	<0.0056	<0.0050	<0.0038	<0.0040	<0.0035	<0.0032	<0.0030	<0.0029	<0.0026	<0.0063	<0.0129	<0.0039	<0.0036	<0.0044	<0.0038	<0.0056	<0.0046	<0.0036	<0.0037

J:\170,000-179,999\171521\171521-02.DEL\Supplemental Phase II\Appendices\Appendix H

Table 1
Soil Precharacterization Data

Wynn Resort Casino
Everett, Massachusetts

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	F19 F19S08 1502257 Natural Organics 19 - 21 2/18/2015	F19 F19S09 1502257 Natural Organics 24 - 26 2/18/2015	F19 F19S10 1502288 Natural Clay 29 - 31 2/19/2015	F19 F19S11S12 1502288 Natural Clay 34 - 38 2/19/2015	F20 F20S01S02A 1502333 Fill 0 - 3.3 2/23/2015	F20 F20S02B S04A 1502333 Fill 3.3 - 6.6 2/23/2015	F20 F20S04B 1502333 Fill 6.6 - 8 2/23/2015	F20 F20S05S06 1502333 Natural Organics 8 - 12 2/23/2015	F20 F20S07 1502333 Natural Organics 14 - 16 2/23/2015	F20 F20S08 1502333 Natural Organics 19 - 21 2/23/2015	F20 F20S09 1502379 Natural Organics 24 - 26 2/25/2015	F20 F20S10 1502379 Natural Organics 29 - 31 2/25/2015	F20 F20S11S12 1502379 Natural Clay 34 - 38 2/25/2015	G04 G04S01S02A 1503095 Fill 0 - 3.3 3/5/2015	G04 G04S02B S04A 1503095 Fill 3.3 - 6.6 3/5/2015	G04 G04S05 1503095 Natural Organics 8 - 10 3/5/2015	G04 G04S06 1503095 Natural Clay 14 - 16 3/5/2015	G04 G04S07 1503095 Natural Clay 19 - 21 3/5/2015	G04 G04S08 1503095 Natural Clay 24 - 26 3/5/2015	G04 G04S09 1503095 Natural Clay 29 - 31 3/5/2015	G04 G04S10S11 1503095 Natural Sand/Gravel 34 - 38 3/5/2015	G05 G05S01S02A 1503046 Fill 0 - 3.3 3/3/2015	G05 G05S03S04 1503046 Natural Sand/Gravel 5 - 9 3/3/2015	G05 G05S05 1503046 Natural Sand/Gravel 10 - 12 3/3/2015
Preliminary Disposal Facility Category		Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	TSCA Material	Hazardous Material Type A	MCP Regulated Material Type B-2	MCP Regulated Type B-1	Hazardous Material Type A	Uncontaminated	Uncontaminated	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Restricted	MCP Restricted	MCP Restricted	MCP Restricted	MCP Restricted	MCP Restricted	Hazardous Material Type A	MCP Regulated Type A	MCP Restricted
Styrene	mg/kg	<0.0040	<0.0038	<0.0041	<0.0040	<0.0061	<0.0056	<0.0050	<0.0038	<0.0040	<0.0035	<0.0032	<0.0030	<0.0029	<0.0026	<0.0063	<0.0129	<0.0039	<0.0036	<0.0044	<0.0038	<0.0056	<0.0046	<0.0036	<0.0037
tert-Butylbenzene	mg/kg	<0.0040	<0.0038	<0.0041	<0.0040	<0.0061	<0.0056	<0.0050	<0.0038	<0.0040	<0.0035	<0.0032	<0.0030	<0.0029	<0.0026	<0.0063	<0.0129	<0.0039	<0.0036	<0.0044	<0.0038	<0.0056	<0.0046	<0.0036	<0.0037
Tertiary-amyl methyl ether	mg/kg	<0.0040	<0.0038	<0.0041	<0.0040	<0.0061	<0.0056	<0.0050	<0.0038	<0.0040	<0.0035	<0.0032	<0.0030	<0.0029	<0.0026	<0.0063	<0.0129	<0.0039	<0.0036	<0.0044	<0.0038	<0.0056	<0.0046	<0.0036	<0.0037
Tetrachloroethene	mg/kg	<0.0040	<0.0038	<0.0041	<0.0040	<0.0061	<0.0056	<0.0050	<0.0038	<0.0040	<0.0035	<0.0032	<0.0030	<0.0029	<0.0026	<0.0063	<0.0129	<0.0039	<0.0036	<0.0044	<0.0038	<0.0056	<0.0046	<0.0036	<0.0037
Tetrahydrofuran	mg/kg	<0.0040	<0.0038	<0.0041	<0.0040	<0.0061	<0.0056	<0.0050	<0.0038	<0.0040	<0.0035	<0.0032	<0.0030	<0.0029	<0.0026	<0.0063	<0.0129	<0.0039	<0.0036	<0.0044	<0.0038	<0.0056	<0.0046	<0.0036	<0.0037
Toluene	mg/kg	<0.0040	<0.0038	<0.0041	<0.0040	<0.0061	<0.0056	<0.0050	<0.0038	<0.0040	<0.0035	<0.0032	<0.0030	<0.0029	<0.0026	<0.0063	<0.0129	<0.0039	<0.0036	<0.0044	<0.0038	<0.0056	<0.0046	<0.0036	<0.0037
trans-1,2-Dichloroethene	mg/kg	<0.0040	<0.0038	<0.0041	<0.0040	<0.0061	<0.0056	<0.0050	<0.0038	<0.0040	<0.0035	<0.0032	<0.0030	<0.0029	<0.0026	<0.0063	<0.0129	<0.0039	<0.0036	<0.0044	<0.0038	<0.0056	<0.0046	<0.0036	<0.0037
trans-1,3-Dichloropropene	mg/kg	<0.0040	<0.0038	<0.0041	<0.0040	<0.0061	<0.0056	<0.0050	<0.0038	<0.0040	<0.0035	<0.0032	<0.0030	<0.0029	<0.0026	<0.0063	<0.0129	<0.0039	<0.0036	<0.0044	<0.0038	<0.0056	<0.0046	<0.0036	<0.0037
Trichloroethene	mg/kg	<0.0040	<0.0038	<0.0041	<0.0040	<0.0061	<0.0056	<0.0050	<0.0038	<0.0040	<0.0035	<0.0032	<0.0030	<0.0029	<0.0026	<0.0063	<0.0129	<0.0039	<0.0036	<0.0044	<0.0038	<0.0056	<0.0046	<0.0036	<0.0037
Trichlorofluoromethane	mg/kg	<0.0040	<0.0038	<0.0041	<0.0040	<0.0061	<0.0056	<0.0050	<0.0038	<0.0040	<0.0035	<0.0032	<0.0030	<0.0029	<0.0026	<0.0063	<0.0129	<0.0039	<0.0036	<0.0044	<0.0038	<0.0056	<0.0046	<0.0036	<0.0037
Vinyl Chloride	mg/kg	<0.0081	<0.0075	<0.0083	<0.0080	<0.0122	<0.0111	<0.0099	<0.0076	<0.0081	<0.0069	<0.0064	<0.0061	<0.0058	<0.0052	<0.0125	<0.0257	<0.0077	<0.0073	<0.0088	<0.0077	<0.0112	<0.0092	<0.0072	<0.0075
Xylene O	mg/kg	<0.0040	<0.0038	<0.0041	<0.0040	<0.0061	<0.0056	<0.0050	<0.0038	<0.0040	<0.0035	<0.0032	<0.0030	<0.0029	<0.0026	<0.0063	<0.0129	<0.0039	<0.0036	<0.0044	<0.0038	<0.0056	<0.0046	<0.0036	<0.0037
Xylene P,M	mg/kg	<0.0081	<0.0075	<0.0083	<0.0080	<0.0122	<0.0111	<0.0099	<0.0076	<0.0081	<0.0069	<0.0064	<0.0061	<0.0058	<0.0052	<0.0125	<0.0257	<0.0077	<0.0073	<0.0088	<0.0077	<0.0112	<0.0092	<0.0072	<0.0075
Xylenes (Total)	mg/kg	<0.0081	<0.0075	<0.0083	<0.0080	<0.0122	<0.0111	<0.0099	<0.0076	<0.0081	<0.0069	<0.0064	<0.0061	<0.0058	<0.0052	<0.0125	<0.0257	<0.0077	<0.0073	<0.0088	<0.0077	<0.0112	<0.0092	<0.0072	<0.0075
Total VOCs (Low Level)	mg/kg	0.0341	0.1764	0.015	ND	ND	0.0502	ND	0.0304	0.046	0.4599	ND	ND	ND	0.0684	0.0396	0.6942	ND	ND	ND	ND	ND	0.0247	0.016	ND
Semi-Volatile Organic Compounds																									
1,2,4-Trichlorobenzene	mg/kg	<1.20	<1.15	<1.04	<1.10	<0.891	<0.937	<0.973	<1.08	<1.07	<1.19	<0.977	<0.901	<1.01	<0.947	<0.940	<1.86	<1.07	<1.05	<1.06	<1.03	<0.952	<0.915	<0.910	<0.936
1,2-Dichlorobenzene	mg/kg	<1.20	<1.15	<1.04	<1.10	<0.891	<0.937	<0.973	<1.08	<1.07	<1.19	<0.977	<0.901	<1.01	<0.947	<0.940	<1.86	<1.07	<1.05	<1.06	<1.03	<0.952	<0.915	<0.910	<0.936
1,3-Dichlorobenzene	mg/kg	<1.20	<1.15	<1.04	<1.10	<0.891	<0.937	<0.973	<1.08	<1.07	<1.19	<0.977	<0.901	<1.01	<0.947	<0.940	<1.86	<1.07	<1.05	<1.06	<1.03	<0.952	<0.915	<0.910	<0.936
1,4-Dichlorobenzene	mg/kg	<0.604	<0.578	<0.522	<0.552	<0.447	<0.470	<0.488	<0.542	<0.536	<0.598	<0.490	<0.452	<0.508	<0.475	<0.471	<0.934	<0.536	<0.525	<0.529	<0.518	<0.478	<0.459	<0.456	<0.469
2,4,5-Trichlorophenol	mg/kg	<1.20	<1.15	<1.04	<1.10	<0.891	<0.937	<0.973	<1.08	<1.07	<1.19	<0.977	<0.901	<1.01	<0.947	<0.940	<1.86	<1.07	<1.05	<1.06	<1.03	<0.952	<0.915	<0.910	<0.936
2,4,6-Trichlorophenol	mg/kg	<1.20	<1.15	<1.04	<1.10	<0.891	<0.937	<0.973	<1.08	<1.07	<1.19	<0.977	<0.901	<1.01	<0.947	<0.940	<1.86	<1.07	<1.05	<1.06	<1.03	<0.952	<0.915	<0.910	<0.936
2,4-Dichlorophenol	mg/kg	<1.20	<1.15	<1.04	<1.10	<0.891	<0.937	<0.973	<1.08	<1.07	<1.19	<0.977	<0.901	<1.01	<0.947	<0.940	<1.86	<1.07	<1.05	<1.06	<1.03	<0.952	<0.915	<0.910	<0.936
2,4-Dimethylphenol	mg/kg	<1.20	<1.15	<1.04	<1.10	<0.891	<0.937	<0.973	<1.08	<1.07	<1.19	<0.977	<0.901	<1.01	<0.947	<0.940	<1.86	<1.07	<1.05	<1.06	<1.03	<0.952	<0.915	<0.910	<0.936
2,4-Dinitrophenol	mg/kg	<6.04	<5.78	<5.22	<5.52	<4.47	<4.70	<4.88	<5.42	<5.36	<5.98	<4.90	<4.52	<5.08	<4.75	<4.71	<9.34	<5.36	<5.25	<5.29	<5.18	<4.78	<4.59	<4.56	<4.69
2,4-Dinitrotoluene	mg/kg	<1.20	<1.15	<0.261	<0.276	<0.891	<0.937	<0.973	<1.08	<1.07	<1.19	<0.977	<0.901	<1.01	<0.947	<0.940	<1.86	<1.07	<1.05	<1.06	<1.03	<0.952	<0.915	<0.910	<0.936
2,6-Dinitrotoluene	mg/kg	<1.20	<1.15	<1.04	<1.10	<0.891	<0.937	<0.973	<1.08	<1.07	<1.19	<0.977	<0.901	<1.01	<0.947	<0.940	<1.86	<1.07	<1.05	<1.06	<1.03	<0.952	<0.915	<0.910	<0.936
2-Chloronaphthalene	mg/kg	<1.20	<1.15	<1.04	<1.10	<0.891	<0.937	<0.973	<1.08	<1.07	<1.19	<0.977	<0.901	<1.01	<0.947	<0.940	<1.86	<1.07	<1.05	<1.06	<1.03	<0.952	<0.915	<0.910	<0.936
2-Chlorophenol	mg/kg	<1.20	<1.15	<1.04	<1.10	<0.891	<0.937	<0.973	<1.08	<1.07	<1.19	<0.977	<0.901	<1.01	<0.947	<0.940	<1.86	<1.07	<1.05	<1.06	<1.03	<0.952	<0.915	<0.910	<0.936
2-Methylnaphthalene	mg/kg	<1.20	<1.15	<1.04	<1.10	<0.891	<0.937	<0.973	<1.08	<1.07	<1.19	<0.977	<0.901	<1.01	<0.947	<0.940	<1.86	<1.07	<1.05	<1.06	<1.03	<0.952	<0.915	<0.910	<0.936
2-Methylphenol	mg/kg	<1.20	<1.15	<1.04	<1.10	<0.891	<0.937	<0.973	<1.08	<1.07	<1.19	<0.977	<0.901	<1.01	<0.947	<0.940	<1.86	<1.07	<1.05	<1.06	<1.03	<0.952	<0.915	<0.910	<0.936
2-Nitrophenol	mg/kg	<1.20	<1.15	<1.04	<1.10	<0.891	<0.937	<0.973	<1.08	<1.07	<1.19	<0.977	<0.901	<1.01	<0.947	<0.940	<1.86	<1.07	<1.05	<1.06	<1.03	<0.952	<0.915	<0.910	<0.936
3,3'-Dichlorobenzidine	mg/kg	<2.41	<2.31	<2.08	<2.21	<1.78	<1.88	<1.95	<2.16	<2.14	<2.39	<1.96	<1.81	<2.03	<1.90	<1.88	<3.73	<2.14	<2.10	<2.11	<2.07	<1.91	<1.83	<1.82	<1.88
3+4-Methylphenol	mg/kg	<2.41	<2.31	<2.08	<2.21	<1.78	<1.88	<1.95	<2.16	<2.14	<2.39	<1.96	<1.81	<2.03	<1.90	<1.88	<3.73	<2.14	<2.10	<2.11	<2.07	<1.91	<1.83	<1.82	<1.88
4-Bromophenyl-phenylether	mg/kg	<1.20	<1.15	<1.04	<1.10	<0.891	<0.937	<0.973	<1.08	<1.07	<1.19	<0.977	<0.901	<1.01	<0.947	<0.940	<1.86	<1.07	<1.05	<1.06	<1.03	<0.952	<0.915	<0.910	<0.936
4-Chloroaniline	mg/kg	<2.41	<2.31	<2.08	<2.21	<1.78	<1.88	<1.95	<2.16	<2.14	<2.39	<1.96	<1.81	<2.03	<1.90	<1.88	<3.73	<2.14	<2.10	<2.11	<2.07	<1.91	<1.83	<1.82	<1.88
4-Nitrophenol	mg/kg	<6.04	<5.78	<5.22	<5.52	<4.47	<4.70	<4.88	<5.42	<5.36	<5.98	<4.90	<4.52	<5.08	<4.75	<4.71	<9.34	<5.36	<5.25	<5.29	<5.18	<4.78	<4.59	<4.56	<4.69
Acenaphthene	mg/kg	<1.20	<1.15	<1.04	<1.10	<0.891	<0.937	<0.973	<1.08	<1.07	<1.19	<0.977	<0.901	<1.01	<0.947	<0.940	<1.86	<1.07	<1.05	<1.06	<1.03	<0.952	<0.915	<0.910	<0.936
Acenaphthylene	mg/kg	<1.20	<1.15	<1.04	<1.10	<0.891	<0.937	<0.973	<1.08	<1.07	<1.19	<0.977	<0.901	<1.01	<0.947	<0.940	<1.86	<1.07	<1.05	<1.06	<1.03	<0.952	<0.915	<0.910	<0.936
Acetophenone	mg/kg	<2.41	<2.31	<2.08	<2.21	<1.78	<1.88	<1.95	<2.16	<2.14	<2.39	<1.96	<1.81	<2.03	<1.90	<1.88	<3.73	<2.14	<2.10	<2.11	<2.07	<1.91	<1.83	<1.82	<1.88
Aniline	mg/kg	<6.04	<5.78	<5.22	<5.52	<4.47	<4.70	<4.88	<5.42	<5.36	<5.98	<4.90	<4.52	<5.08	<4.75	<4.71	<9.34	<5.36	<5.25	<5.29	<5.18	<4.78	<4.59	<4.56	<4.69
Anthracene	mg/kg	<1.20	<1.15	<1.04	<1.10	<0.891	<0.937	<0.973	<1.08	<1.07	<1.19	<0.977	<0.901	<1.01	3.59	2.05	<1.86	<1.07	<1.05	<1.06	<1.03	<0.952	<0.915	<0.910	<0.936
Azobenzene	mg/kg	<1.20	<1.15	<1.04	<1.10	<0.891	<0.937	<0.973	<1.08	<1.07	<1.19	<0.977	<0.901	<1.01	<0.947	<0.940	<1.86	<1.07	<1.05	<1.06	<1.03	<0.952	<0.915	<0.910	<0.936
Benzo(a)anthracene	mg/kg	<1.20	<1.15	<1.04	<1.10	<0.891	<0.937	2.57	<1.08	<1.07	<1.19	<0.977	<0.901	<1.01	8.3	6.86	<1.86	<1.07	<1.05	<1.06	<1.03	<0.952	2.97	<0.910	<0.936
Benzo(a)pyrene	mg/kg	<0.604	0.905	<0.522	<0.552	<0.447	<0.470	2.11	<0.542	<0.536	0.609	<0.490	<0.452	<0.508	7.32	5.98	<0.934	<0.536	<0.525	<0.529	<0.518	<0.478	2.46	<0.456	<0.469
Benzo(b)fluoranthene	mg/kg	<1.20	<1.15	<1.04	<1.10	<0.891	<0.937	3.31	<1.08	<1.07	<1.19	<0.977	<0.901	<1.01	7.9	5.04	<1.86	<1.07	<1.05	<1.06	<1.03	<0.952	2.17	<0.910	<0.936
Benzo(g,h,i)perylene	mg/kg	<1.20	<1.15	<1.04	<1.10	<0.891	<0.937	1.14	<1.08	<1.07	<1.19	<0.977	<0.901	<1.01	2.35	2.02	<1.86	<1.07	<1.05	<1.06	<1.03	<0.952	<0.915	<0.910	<0.936
Benzo(k)fluoranthene	mg/kg	<1.20	<1.15	<1.04	<1.10	<0.891	<0.937	1.13	<1.08	<1.07	<1.19	<0.977	<0.901	<1.01	6.26	5.97	<1.86	<1.07	<1.05	<1.06	<1.03	<0.952	1.79	<0.910	<0.936
bis(2-Chloroethoxy)methane	mg/kg	<1.20	<1.15	<1.04	<1.10	<0.891	<0.937	<0.973	<1.08	<1.07	<1.19	<0.977	<0.901	<1.01	<0.947	<0.940	<1.86	<1.07	<1.05	<1.06	<1.03	<0.952	<0.915	<0.910	<0.936
bis(2-Chloroethyl)ether	mg/kg	<0.604	<0.578	<0.522	<0.552	<0.447	<0.470	<0.488	<0.542	<0.536	<0.598	<0.490	<0.452	<0.508	<0.475	<0.471	<0.467	<0.536	<0.525	<0.529	<0.518	<0.478	<0.459	<0.456	<0.469
bis(2-chloroisopropyl)Ether	mg/kg	<0.604	<0.578	<0.522	<0.552	<0.447	<0.470	<0.488	<0.542	<0.536	<0.598	<0.490	<0.452	<0.508	<0.475	<0.471	<0.467	<0.536	<0.525	<0.529	<0.518	<0.478	<0.459	<0.456	<0.469
bis(2-Ethylhexyl)phthalate	mg/kg	<1.20	<1.15	<1.04	<1.10	<0.891	<0.937	<0.973	<1.08	<1.07	<1.19	<0.977	<0.901	<1.01	<0.947	<0.940	<1.86	<1.07	<1.05	<1.06	<1.03	<0.952	17.4	<0.910	<0.936
Butylbenzylphthalate	mg/kg	<1.20	<1.15	<1.04	<1.10	<0.891	<0.937	<0.973	<1.08	<1.07	<1.19	<0.977	<0.901	<1.01	<0.947	<0.940	<1.86	<1.07	<1.05	<1.06	<1.03	<0.952	<0.915	<0.910	<0.936
Chrysene	mg/kg	<0.604	1.17	<0.522	<0.552	<0.447	0.657	2.76	<0.542	<0.536	0.821	<0.490	<0.452	<0.508	6.69	5.56	<0.934	<0.536	<0.525	<0.529	<0.518	<0.478	2.89	<0.456	<0.469
Dibenzo(a,h)Anthracene	mg/kg	<0.604	<0.578	<0.522	<0.552	<0.447	<0.470	0.828	<0.542	<0.536	<0.598	<0.490	<0.452	<0.508	1.54	1.44	<0.934	<0.536	<0.525	<0.529	<0.518	<0.478	0.541	<0.456	<0.469
Dibenzofuran	mg/kg	<1.20	<1.15	<1.04	<1.10	<0.891	<0.937	<0.973	<1.08	<1.07	<1.19	<0.977	<0.901	<1.01	1.06	<0.940	<1.86	<1.07	<1.05	<1.06	<1.03	<0.952	<0.915	<0.910	<0.936
Diethylphthalate	mg/kg	<1.20	<1.15	<1.04	<1.10	<0.891	<0.937	<0.973	<1.08	<1.07	<1.19	<0.977	<0.901	<1.01	<0.947	<0.940	<1.86	<1.07	<1.05	<1.06	<1.03	<0.952	<0.915	<0.910	<0.936
Dimethylphthalate	mg/kg	<1.20	<1.15	<1.04	<1.10	<0.891	<0.937	<0.973	<1.08	<1.07	<1.19	<0.977	<0.901	<1.01	<0.947	<0.940	<1.86	<1.07	<1.05	<1.06	<1.03	<0.952	<0.915	<0.910	<0.936
Di-n-butylphthalate	mg/kg	<1.20	<1.15	<1.04	<1.10	<0.891	<0.937	<0.973	<1.08	<1.07	<1.19	<0.977	<0.901	<1.01	<0.947	<0.940	<1.86	<1.07	<1.05	<1.06	<1.03	<0.952	<0.915	<0.910	<0.936
Di-n-octylphthalate	mg/kg	<1.20	<1.15	<1.04	<1.10	<0.891	<0.937	<0.973	<1.08	<1.07	<1.19	<0.977	<0.901	<1.01	<0.947	<0.940	<1.86	<1.07	<1.05	<1.06	<1.03	<0.952	<0.915	<0.910	<0.936
Fluoranthene	mg/kg	<1.20	1.87	<1.04	<1.10	<0.891	<0.937	4.41	<1.08	<1.07	1.95	<0.977	<0.901	<1.01	17.3	13.9	<1.86	<1.07	<1.05	<1.06	<1.03	<0.952	5.12	<0.910	<0.936
Fluorene	mg/kg	<1.20	<1.15	<1.04	<1.10	<0.891	<0.937	<0.973	<1.08	<1.07	<1.19	<0.977	<0.901	<1.01	1.85	<0.940	<1.86	<1.07	<1.05	<1.06	<1.03	<0.952	<0.915	<0.910	<0.936
Hexachlorobenzene	mg/kg	<0.604	<0.578	<0.522	<0.552	<0.447	<0.470	<0.488	<0.542	<0.536	<0.598	<0.490	<0.452	<0.508	<0.475	<0.471	<0.934	<0.536	<0.525	<0.529	<0.518	<0.478	<0.459	<0.456	<0.469
Hexachlorobutadiene	mg/kg	<1.20	<1.15	<1.04	<1.10	<0.891	<0.937	<0.973	<1.08	<1.07	<1.19	<0.977	<0.901	<1.01	<0.947	<0.940	<1.86	<1.07	<1.05	<1.06	<1.03	<0.952	<0.915	<0.910	<0.936
Hexachloroethane	mg/kg	<1.20	<1.15	<1.04	<1.10	<0.891	<0.937	<0.973	<1.08	<1.07	<1.19	<0.977	<0.901	<1.01	<0.947	<0.940	<1.86	<1.07	<1.05	<1.06	<1.03	<0.952	<0.915	<0.910	<0.936
Indeno(1,2,3-cd)Pyrene	mg/kg	<1.20	<1.15	<1.04	<1.10	<0.891	<0.937	1.3	<1.08	<1.07	<1.19	<0.977	<0.901	<1.01	2.5	2.19	<1.86	<1.07	<1.05	<1.06	<1.03	<0.952	<0.915	<0.910	<0.936
Isophorone	mg/kg	<1.20	<1.15	<1.04	<1.10	<0.891	<0.937	<0.973	<1.08	<1.07	<1.19	<0.977	<0.901	<1.01	<0.947	<0.940	<1.86	<1.07	<1.05	<1.06	<1.03	<0.952	<0.915	<0.910	<0.936
Naphthalene	mg/kg	<1.20	<1.15	<1.04	<1.10	<0.891	<0.937	<0.973	<1.08	<1.07	5.1	<0.977	<0.901	<1.01	<0.947	<0.940	<1.86	<1.07	<1.05	<1.06	<1.03	<0.952	<0.915	<0.910	<0.936
Nitrobenzene	mg/kg	<1.20	<1.15	<1.04	<1.10	<0.891	<0.937	<0.973	<1.08	<1.07	<1.19	<0.977	<0.901	<1.01	<0.947	<0.940	<1.86	<1.07	<1.05	<1.06	<1.03	<0.952	<0.915	<0.910	<0.936
N-Nitrosodimethylamine	mg/kg	<1.20	<1.15	<1.04	<1.10	<0.891	<0.937	<0.973	<1.08	<1.07	<1.19	<0.977	<0.901	<1.01	<0.947	<0.940	<1.86	<1.07	<1.05	<1.06	<1.03	<0.952	<0.915	<0.910	<0.936
Pentachlorophenol	mg/kg	<6.04	<5.78	<5.22	<5.52	<4.47	<4.70	<4.88	<5.42	<5.36	<5.98	<4.90	<4.52	<5.08	<4.75	<4.71	<9.34	<5.36	<5.25	<5.29	<5.18	<4.78	<4.59	<4.56	<4.69
Phenanthrene	mg/kg	<1.20	<1.15	<1.04	<1.10	<0.891	<0.937	2.77	<1.08	<1.07	<1.19	<0.977	<0.901	<1.01	12.1	6.17	<1.86	<1.07	<1.05	<1.06	<1.03	<0.952	3	<0.910	<0.936
Phenol	mg/kg	<1.20	<1.15	<1.04	<1.10	<0.891	<0.937	<0.973	<1.08	<1.07	<1.19	<0.977	<0.901	<1.01	<0.947	<0.940	<1.86	<1.07	<1.05	<1.06	<1.03	<0.952	<0.915	<0.910	<0.936
Pyrene	mg/kg	<1.20	2.04	<1.04	<1.10	<0.891	<0.937	3.34	<1.08	<1.07	1.6	<0.977	<0.901	<1.01	10.4	9.32	<1.86	<1.07	<1.05	<1.06	<1.03	<0.952	3.96	<0.910	<0.936
Total SVOCs	mg/kg	ND	5.985	ND	ND	ND	0.657	25.668	ND	ND	10.08	ND	ND	ND	89.16	66.5	ND	ND	ND	ND	ND	ND	42.301	ND	ND
Classic Chemistry																									
Corrosivity (pH)	S.U.	4.3	4.46	6.72	7.67	8.58	8.7	6.86	7.01	6.59	4.32	4.6	4.99	6.27	7.85	7.55	7.49	7.82	7.61	7.56	7.39	7.84	7.66	7.5	7.7
Conductivity	umhos/cm	2590	9010	2270	2680	241	913	916	1790	7290	1460	2050	3170	2460	309	929	905	878	1680	1860	1200	460	1630	153	164
Flashpoint	°F	--	--	--	--	>200	>200	>200	--	--	--	--	--	--	>200	>200	--	--	--	--	--	--	>200	--	--
Reactive Cyanide	mg/kg	--	--	--	--	<2.0	<2.0	<2.0	--	--	--	--	--	--	<2.0	<2.0	--	--	--	--	--	--	<2.0	--	--
Reactive Sulfide	mg/kg	--	--	--	--	<2.0	<2.0	<2.0	--	--	--	--	--	--	<2.0	<2.0	--	--	--	--	--	--	<2.0	--	--

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	G05 G05S07 1503046 Natural Clay 16 - 18 3/3/2015	G05 G05S08 1503046 Natural Clay 19 - 21 3/3/2015	G05 G05S09 1503046 Natural Clay 24 - 26 3/3/2015	G05 G05S10 1503046 Natural Clay 29 - 31 3/3/2015	G05 G05S11512 1503046 Natural Clay 34 - 38 3/3/2015	G06 G06S01S02A 1501511 Fill 0 - 3.3 1/26/2015	G06 G06S02BS04A 1501511 Fill 3.3 - 6.6 1/26/2015	G06 G06S04B 1501511 Fill 6.6 - 8 1/26/2015	G06 G06S05S06 1501511 Natural Organics 8 - 12 1/26/2015	G06 G06S07 1501511 Natural Clay 14 - 16 1/26/2015	G06 G06S08 1501511 Natural Clay 19 - 21 1/26/2015	G06 G06S09 1501511 Natural Clay 24 - 26 1/26/2015	G06 G06S10 1501511 Natural Clay 29 - 31 1/26/2015	G06 G06S11512 1501511 Natural Clay 34 - 38 1/26/2015	G07 G07S01S02A 1501510 Fill 0 - 3.3 1/26/2015	G07 G07S02BS04A 1501510 Fill 3.3 - 6.6 1/26/2015	G07 G07S04B 1501510 Fill 6.6 - 8 1/26/2015	G07 G07S05S06 1501510 Natural Organics 8 - 12 1/26/2015	G07 G07S07 1501510 Natural Clay 14 - 16 1/26/2015	G07 G07S08 1501510 Natural Clay 19 - 21 1/26/2015	G07 G07S09 1501510 Natural Clay 24 - 26 1/26/2015	G07 G07S10 1501510 Natural Clay 29 - 31 1/26/2015	G07 G07S11512 1501510 Natural Clay 34 - 38 1/26/2015	G08 G08S01S02A 1501272 Fill 0 - 3.3 1/14/2015
Preliminary Disposal Facility Category		MCP Restricted	MCP Restricted	MCP Regulated Type A	MCP Regulated Type A	MCP Restricted	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Restricted	Uncontaminated	MCP Regulated Type B-1	Uncontaminated	MCP Regulated Type B-1
RCRA 8 Metals	**Units**																								
Arsenic	mg/kg	13.2	9.8	22.5	11.3	14.2	56.3	15.7	8.96	<12.0	<8.27	<7.89	<8.31	<7.05	<8.31	<7.00	8.45	<8.52	<7.84	<8.83	<8.24	<7.36	<7.41	<7.63	14.2
Barium	mg/kg	81.5	56.3	45.6	53.3	55.6	46.2	51.5	23	<12.0	82.2	79.9	50.9	31.5	96.5	37.1	59.8	35.7	99.8	103	85	25	31.5	30.4	23.3
Cadmium	mg/kg	<1.43	<1.32	<1.59	<1.75	<1.40	<1.33	<1.59	<1.48	<2.40	<1.65	<1.58	<1.66	<1.41	<1.66	<1.40	<1.40	<1.70	<1.57	<1.77	<1.65	<1.47	<1.48	<1.53	<1.44
Chromium	mg/kg	55.2	43.3	27	35.9	33.1	26.9	18.3	8.06	7.88	42.9	54.6	38.5	20.1	47	23	12.9	13.9	47	54.8	45.6	19.5	22.5	20.5	20.9
Lead	mg/kg	16.9	<13.2	<15.9	<17.5	<14.0	281	170	26.3	<24.0	<16.5	<15.8	<16.6	<14.1	<16.6	170	155	17.4	<15.7	<17.7	<16.5	<14.7	<14.8	<15.3	1000
Selenium	mg/kg	<7.14	<6.61	<7.94	<8.75	<7.02	<6.64	<7.93	<14.8	<12.0	<8.27	<7.89	<8.31	<7.05	<8.31	<7.00	<6.98	<8.52	<7.84	<8.83	<8.24	<7.36	<14.8	<7.63	<7.22
Silver	mg/kg	<1.43	<1.32	<1.59	<1.75	<1.40	<1.33	<1.59	<1.48	<2.40	<1.65	<1.58	<1.66	<1.41	<1.66	<1.40	<1.40	<1.70	<1.57	<1.77	<1.65	<1.47	<1.48	<1.53	<1.44
Mercury	mg/kg	<0.038	<0.034	<0.028	<0.037	<0.036	1.07	0.866	0.117	<0.060	<0.037	<0.040	<0.036	<0.033	<0.042	0.067	0.153	<0.039	<0.039	<0.043	<0.041	<0.035	<0.036	<0.035	0.057
Metals by Toxicity Characteristic Leaching Procedure (TCLP)																									
Arsenic	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead	mg/L	--	--	--	--	--	0.148	0.248	--	--	--	--	--	--	--	0.787	0.11	--	--	--	--	--	--	--	1.16
Selenium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Herbicides																									
2,4,5-T	mg/kg	--	--	--	--	--	<0.054	<0.056	<0.058	<0.080	--	--	--	--	--	<0.57	<0.052	<0.058	--	--	--	--	--	--	<0.29
2,4-D	mg/kg	--	--	--	--	--	<0.054	<0.056	<0.058	<0.080	--	--	--	--	--	<0.57	<0.052	<0.058	--	--	--	--	--	--	<0.29
2,4-DB	mg/kg	--	--	--	--	--	<0.054	<0.056	<0.058	<0.080	--	--	--	--	--	<0.57	<0.052	<0.058	--	--	--	--	--	--	<0.29
Dalapon	mg/kg	--	--	--	--	--	<0.65	<0.68	<0.70	<0.96	--	--	--	--	--	<6.9	<0.63	<0.70	--	--	--	--	--	--	<3.4
Dicamba	mg/kg	--	--	--	--	--	<0.054	<0.056	<0.058	<0.080	--	--	--	--	--	<0.57	<0.052	<0.058	--	--	--	--	--	--	<0.29
Dichlorprop	mg/kg	--	--	--	--	--	<0.054	<0.056	<0.058	<0.080	--	--	--	--	--	<0.57	<0.052	<0.058	--	--	--	--	--	--	<0.29
Dinoseb	mg/kg	--	--	--	--	--	<0.32	<0.34	<0.35	<0.48	--	--	--	--	--	<3.4	<0.32	<0.35	--	--	--	--	--	--	<1.7
MCPA	mg/kg	--	--	--	--	--	<13	<14	<14	<19	--	--	--	--	--	<140	<13	<14	--	--	--	--	--	--	<69
MCPP	mg/kg	--	--	--	--	--	<13	<14	<14	<19	--	--	--	--	--	<140	<13	<14	--	--	--	--	--	--	<69
Silvex (2,4,5-TP)	mg/kg	--	--	--	--	--	<0.054	<0.056	<0.058	<0.080	--	--	--	--	--	<0.57	<0.052	<0.058	--	--	--	--	--	--	<0.29
Pesticides																									
4,4'-DDD	mg/kg	--	--	--	--	--	<0.0094	<0.0039	<0.0020	<0.0027	--	--	--	--	--	<0.038	<0.0036	<0.0020	--	--	--	--	--	--	<0.019
4,4'-DDE	mg/kg	--	--	--	--	--	<0.0094	<0.0039	<0.0020	<0.0027	--	--	--	--	--	<0.038	<0.0036	<0.0020	--	--	--	--	--	--	<0.019
4,4'-DDT	mg/kg	--	--	--	--	--	<0.0094	<0.0039	<0.0020	<0.0027	--	--	--	--	--	<0.038	<0.0036	<0.0020	--	--	--	--	--	--	<0.019
Aldrin	mg/kg	--	--	--	--	--	<0.0094	<0.0039	<0.0020	<0.0027	--	--	--	--	--	<0.038	<0.0036	<0.0020	--	--	--	--	--	--	<0.019
alpha-BHC	mg/kg	--	--	--	--	--	<0.0094	<0.0039	<0.0020	0.0033	--	--	--	--	--	<0.038	<0.0036	<0.0020	--	--	--	--	--	--	<0.019
beta-BHC	mg/kg	--	--	--	--	--	<0.0094	<0.0039	<0.0020	<0.0027	--	--	--	--	--	<0.038	<0.0036	<0.0020	--	--	--	--	--	--	<0.019
Chlordane (technical)	mg/kg	--	--	--	--	--	<0.094	<0.039	<0.020	<0.027	--	--	--	--	--	<0.38	<0.036	<0.020	--	--	--	--	--	--	<0.19
delta-BHC	mg/kg	--	--	--	--	--	<0.0094	<0.0039	<0.0020	<0.0027	--	--	--	--	--	<0.038	<0.0036	<0.0020	--	--	--	--	--	--	<0.019
Dieldrin	mg/kg	--	--	--	--	--	<0.0094	<0.0039	<0.0020	<0.0027	--	--	--	--	--	<0.038	<0.0036	<0.0020	--	--	--	--	--	--	<0.019
Endosulfan I	mg/kg	--	--	--	--	--	<0.0094	<0.0039	<0.0020	<0.0027	--	--	--	--	--	<0.038	<0.0036	<0.0020	--	--	--	--	--	--	<0.019
Endosulfan II	mg/kg	--	--	--	--	--	<0.0094	<0.0039	<0.0020	<0.0027	--	--	--	--	--	<0.038	<0.0036	<0.0020	--	--	--	--	--	--	<0.019
Endosulfan sulfate	mg/kg	--	--	--	--	--	<0.0094	<0.0039	<0.0020	<0.0027	--	--	--	--	--	<0.038	<0.0036	<0.0020	--	--	--	--	--	--	<0.019
Endrin	mg/kg	--	--	--	--	--	<0.0094	<0.0039	<0.0020	<0.0027	--	--	--	--	--	<0.038	<0.0036	<0.0020	--	--	--	--	--	--	<0.019
Endrin ketone	mg/kg	--	--	--	--	--	<0.0094	<0.0039	<0.0020	<0.0027	--	--	--	--	--	<0.038	<0.0036	<0.0020	--	--	--	--	--	--	<0.019
gamma-BHC (Lindane)	mg/kg	--	--	--	--	--	<0.0094	<0.0039	<0.0020	<0.0027	--	--	--	--	--	<0.038	<0.0036	<0.0020	--	--	--	--	--	--	<0.019
Heptachlor	mg/kg	--	--	--	--	--	<0.0094	<0.0039	<0.0020	<0.0027	--	--	--	--	--	<0.038	<0.0036	<0.0020	--	--	--	--	--	--	<0.019
Heptachlor epoxide	mg/kg	--	--	--	--	--	<0.0094	<0.0039	<0.0020	<0.0027	--	--	--	--	--	<0.038	<0.0036	<0.0020	--	--	--	--	--	--	<0.019
Hexachlorobenzene	mg/kg	--	--	--	--	--	<0.0094	<0.0039	<0.0020	<0.0027	--	--	--	--	--	<0.038	<0.0036	<0.0020	--	--	--	--	--	--	<0.019
Methoxychlor	mg/kg	--	--	--	--	--	<0.0094	<0.0039	<0.0020	<0.0027	--	--	--	--	--	<0.038	<0.0036	<0.0020	--	--	--	--	--	--	<0.019
Polychlorinated Biphenyls																									
Aroclor 1016	mg/kg	<0.161	<0.149	<0.154	<0.161	<0.150	<0.133	<0.148	<0.146	<0.233	<0.157	<0.153	<0.154	<0.149	<0.159	<0.130	<0.126	<0.149	<0.155	<0.159	<0.154	<0.139	<0.141	<0.152	<0.131
Aroclor 1221	mg/kg	<0.161	<0.149	<0.154	<0.161	<0.150	<0.133	<0.148	<0.146	<0.233	<0.157	<0.153	<0.154	<0.149	<0.159	<0.130	<0.126	<0.149	<0.155	<0.159	<0.154	<0.139	<0.141	<0.152	<0.131
Aroclor 1232	mg/kg	<0.161	<0.149	<0.154	<0.161	<0.150	<0.133	<0.148	<0.146	<0.233	<0.157	<0.153	<0.154	<0.149	<0.159	<0.130	<0.126	<0.149	<0.155	<0.159	<0.154	<0.139	<0.141	<0.152	<0.131
Aroclor 1242	mg/kg	<0.161	<0.149	<0.154	<0.161	<0.150	<0.133	<0.148	<0.146	<0.233	<0.157	<0.153	<0.154	<0.149	<0.159	<0.130	<0.126	<0.149	<0.155	<0.159	<0.154	<0.139	<0.141	<0.152	<0.131
Aroclor 1248	mg/kg	<0.161	<0.149	<0.154	<0.161	<0.150	<0.133	<0.148	<0.146	<0.233	<0.157	<0.153	<0.154	<0.149	<0.159	<0.130	<0.126	<0.149	<0.155	<0.159	<0.154	<0.139	<0.141	<0.152	<0.131
Aroclor 1254	mg/kg	<0.161	<0.149	<0.154	<0.161	<0.150	0.152	0.423	<0.146	<0.233	<0.157	<0.153	<0.154	<0.149	<0.159	<0.130	<0.126	<0.149	<0.155	<0.159	<0.154	<0.139	<0.141	<0.152	<0.131
Aroclor 1260	mg/kg	<0.161	<0.149	<0.154	<0.161	<0.150	<0.133	0.234	<0.146	<0.233	<0.157	<0.153	<0.154	<0.149	<0.159	<0.130	<0.126	<0.149	<0.155	<0.159	<0.154	<0.139	<0.141	<0.152	<0.131
Aroclor 1262	mg/kg	<0.161	<0.149	<0.154	<0.161	<0.150	<0.133	<0.148	<0.146	<0.233	<0.157	<0.153	<0.154	<0.149	<0.159	<0.130	<0.126	<0.149	<0.155	<0.159	<0.154	<0.139	<0.141	<0.152	<0.131
Aroclor 1268	mg/kg	<0.161	<0.149	<0.154	<0.161	<0.150	<0.133	<0.148	<0.146	<0.233	<0.157	<0.153	<0.154	<0.149	<0.159	<0.130	<0.126	<0.149	<0.155	<0.159	<0.154	<0.139	<0.141	<0.152	<0.131
Total PCBs	mg/kg	ND	ND	ND	ND	ND	0.152	0.657	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Petroleum Hydrocarbons	mg/kg	<47.5	<45.2	<47.2	<48.4	<48.8	560	434	108	552	<48.0	<51.6	<43.0	<43.9	<48.2	575	433	<43.6	<46.2	<51.4	<46.9	<41.5	<42.2	<41.3	139
Volatile Organic Compounds (VOCs)																									
1,1,1,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-Chloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane - Screen	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Butanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Isopropyltoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-Pentanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Disulfide	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	G05 G05S07 1503046 Natural Clay 16 - 18 3/3/2015	G05 G05S08 1503046 Natural Clay 19 - 21 3/3/2015	G05 G05S09 1503046 Natural Clay 24 - 26 3/3/2015	G05 G05S10 1503046 Natural Clay 29 - 31 3/3/2015	G05 G05S111512 1503046 Natural Clay 34 - 38 3/3/2015	G06 G06S01S02A 1501511 Fill 0 - 3.3 1/26/2015	G06 G06S02BS04A 1501511 Fill 3.3 - 6.6 1/26/2015	G06 G06S04B 1501511 Fill 6.6 - 8 1/26/2015	G06 G06S05S06 1501511 Natural Organics 8 - 12 1/26/2015	G06 G06S07 1501511 Natural Clay 14 - 16 1/26/2015	G06 G06S08 1501511 Natural Clay 19 - 21 1/26/2015	G06 G06S09 1501511 Natural Clay 24 - 26 1/26/2015	G06 G06S10 1501511 Natural Clay 29 - 31 1/26/2015	G06 G06S111512 1501511 Natural Clay 34 - 38 1/26/2015	G07 G07S01S02A 1501510 Fill 0 - 3.3 1/26/2015	G07 G07S02BS04A 1501510 Fill 3.3 - 6.6 1/26/2015	G07 G07S04B 1501510 Fill 6.6 - 8 1/26/2015	G07 G07S05S06 1501510 Natural Organics 8 - 12 1/26/2015	G07 G07S07 1501510 Natural Clay 14 - 16 1/26/2015	G07 G07S08 1501510 Natural Clay 19 - 21 1/26/2015	G07 G07S09 1501510 Natural Clay 24 - 26 1/26/2015	G07 G07S10 1501510 Natural Clay 29 - 31 1/26/2015	G07 G07S111512 1501510 Natural Clay 34 - 38 1/26/2015	G08 G08S01S02A 1501272 Fill 0 - 3.3 1/14/2015
Preliminary Disposal Facility Category		MCP Restricted	MCP Restricted	MCP Regulated Type A	MCP Regulated Type A	MCP Restricted	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Restricted	Uncontaminated	MCP Regulated Type B-1	Uncontaminated	MCP Regulated Type B-1
Chlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Diethyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Di-isopropyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethyl tertiary-butyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
tert-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tertiary-amyl methyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene O	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene P,M	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylenes (Total)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total VOCs	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds - Low Level Analysis																										
1,1,1,2-Tetrachloroethane	mg/kg	<0.0041	<0.0035	<0.0038	<0.0036	<0.0035	<0.0057	<0.0043	<0.0034	<0.0116	<0.0035	<0.0029	<0.0025	<0.0028	<0.0030	<0.0038	<0.0040	<0.0043	<0.0045	<0.0037	<0.0040	<0.0036	<0.0037	<0.0035	<0.0060
1,1,1-Trichloroethane	mg/kg	<0.0041	<0.0035	<0.0038	<0.0036	<0.0035	<0.0057	<0.0043	<0.0034	<0.0116	<0.0035	<0.0029	<0.0025	<0.0028	<0.0030	<0.0038	<0.0040	<0.0043	<0.0045	<0.0037	<0.0040	<0.0036	<0.0037	<0.0035	<0.0060
1,1,2,2-Tetrachloroethane	mg/kg	<0.0016	<0.0014	<0.0015	<0.0014	<0.0014	<0.0023	<0.0017	<0.0014	<0.0047	<0.0014	<0.0012	<0.0010	<0.0011	<0.0012	<0.0015	<0.0016	<0.0017	<0.0018	<0.0015	<0.0016	<0.0014	<0.0015	<0.0014	<0.0024
1,1,2-Trichloroethane	mg/kg	<0.0041	<0.0035	<0.0038	<0.0036	<0.0035	<0.0057	<0.0043	<0.0034	<0.0116	<0.0035	<0.0029	<0.0025	<0.0028	<0.0030	<0.0038	<0.0040	<0.0043	<0.0045	<0.0037	<0.0040	<0.0036	<0.0037	<0.0035	<0.0060
1,1-Dichloroethane	mg/kg	<0.0041	<0.0035	<0.0038	<0.0036	<0.0035	<0.0057	<0.0043	<0.0034	<0.0116	<0.0035	<0.0029	<0.0025	<0.0028	<0.0030	<0.0038	<0.0040	<0.0043	<0.0045	<0.0037	<0.0040	<0.0036	<0.0037	<0.0035	<0.0060
1,1-Dichloroethene	mg/kg	<0.0041	<0.0035	<0.0038	<0.0036	<0.0035	<0.0057	<0.0043	<0.0034	<0.0116	<0.0035	<0.0029	<0.0025	<0.0028	<0.0030	<0.0038	<0.0040	<0.0043	<0.0045	<0.0037	<0.0040	<0.0036	<0.0037	<0.0035	<0.0060
1,1-Dichloropropene	mg/kg	<0.0041	<0.0035	<0.0038	<0.0036	<0.0035	<0.0057	<0.0043	<0.0034	<0.0116	<0.0035	<0.0029	<0.0025	<0.0028	<0.0030	<0.0038	<0.0040	<0.0043	<0.0045	<0.0037	<0.0040	<0.0036	<0.0037	<0.0035	<0.0060
1,2,3-Trichlorobenzene	mg/kg	<0.0041	<0.0035	<0.0038	<0.0036	<0.0035	<0.0057	<0.0043	<0.0034	<0.0116	<0.0035	<0.0029	<0.0025	<0.0028	<0.0030	<0.0038	<0.0040	<0.0043	<0.0045	<0.0037	<0.0040	<0.0036	<0.0037	<0.0035	<0.0060
1,2,3-Trichloropropane	mg/kg	<0.0041	<0.0035	<0.0038	<0.0036	<0.0035	<0.0057	<0.0043	<0.0034	<0.0116	<0.0035	<0.0029	<0.0025	<0.0028	<0.0030	<0.0038	<0.0040	<0.0043	<0.0045	<0.0037	<0.0040	<0.0036	<0.0037	<0.0035	<0.0060
1,2,4-Trichlorobenzene	mg/kg	<0.0041	<0.0035	<0.0038	<0.0036	<0.0035	<0.0057	<0.0043	<0.0034	<0.0116	<0.0035	<0.0029	<0.0025	<0.0028	<0.0030	<0.0038	<0.0040	<0.0043	<0.0045	<0.0037	<0.0040	<0.0036	<0.0037	<0.0035	<0.0060
1,2,4-Trimethylbenzene	mg/kg	<0.0041	<0.0035	<0.0038	<0.0036	<0.0035	<0.0057	<0.0043	<0.0034	<0.0116	<0.0035	<0.0029	<0.0025	<0.0028	<0.0030	<0.0038	<0.0040	<0.0043	<0.0045	<0.0037	<0.0040	<0.0036	<0.0037	<0.0035	<0.0060
1,2-Dibromo-3-Chloropropane	mg/kg	<0.0041	<0.0035	<0.0038	<0.0036	<0.0035	<0.0057	<0.0043	<0.0034	<0.0116	<0.0035	<0.0029	<0.0025	<0.0028	<0.0030	<0.0038	<0.0040	<0.0043	<0.0045	<0.0037	<0.0040	<0.0036	<0.0037	<0.0035	<0.0060
1,2-Dibromoethane	mg/kg	<0.0041	<0.0035	<0.0038	<0.0036	<0.0035	<0.0057	<0.0043	<0.0034	<0.0116	<0.0035	<0.0029	<0.0025	<0.0028	<0.0030	<0.0038	<0.0040	<0.0043	<0.0045	<0.0037	<0.0040	<0.0036	<0.0037	<0.0035	<0.0060
1,2-Dichlorobenzene	mg/kg	<0.0041	<0.0035	<0.0038	<0.0036	<0.0035	<0.0057	<0.0043	<0.0034	<0.0116	<0.0035	<0.0029	<0.0025	<0.0028	<0.0030	<0.0038	<0.0040	<0.0043	<0.0045	<0.0037	<0.0040	<0.0036	<0.0037	<0.0035	<0.0060
1,2-Dichloroethane	mg/kg	<0.0041	<0.0035	<0.0038	<0.0036	<0.0035	<0.0057	<0.0043	<0.0034	<0.0116	<0.0035	<0.0029	<0.0025	<0.0028	<0.0030	<0.0038	<0.0040	<0.0043	<0.0045	<0.0037	<0.0040	<0.0036	<0.0037	<0.0035	<0.0060
1,2-Dichloropropane	mg/kg	<0.0041	<0.0035	<0.0038	<0.0036	<0.0035	<0.0057	<0.0043	<0.0034	<0.0116	<0.0035	<0.0029	<0.0025	<0.0028	<0.0030	<0.0038	<0.0040	<0.0043	<0.0045	<0.0037	<0.0040	<0.0036	<0.0037	<0.0035	<0.0060
1,3,5-Trimethylbenzene	mg/kg	<0.0041	<0.0035	<0.0038	<0.0036	<0.0035	<0.0057	<0.0043	<0.0034	<0.0116	<0.0035	<0.0029	<0.0025	<0.0028	<0.0030	<0.0038	<0.0040	<0.0043	<0.0045	<0.0037	<0.0040	<0.0036	<0.0037	<0.0035	<0.0060
1,3-Dichlorobenzene	mg/kg	<0.0041	<0.0035	<0.0038	<0.0036	<0.0035	<0.0057	<0.0043	<0.0034	<0.0116	<0.0035	<0.0029	<0.0025	<0.0028	<0.0030	<0.0038	<0.0040	<0.0043	<0.0045	<0.0037	<0.0040	<0.0036	<0.0037	<0.0035	<0.0060
1,3-Dichloropropane	mg/kg	<0.0041	<0.0035	<0.0038	<0.0036	<0.0035	<0.0057	<0.0043	<0.0034	<0.0116	<0.0035	<0.0029	<0.0025	<0.0028	<0.0030	<0.0038	<0.0040	<0.0043	<0.0045	<0.0037	<0.0040	<0.0036	<0.0037	<0.0035	<0.0060
1,4-Dichlorobenzene	mg/kg	<0.0041	<0.0035	<0.0038	<0.0036	<0.0035	<0.0057	<0.0043	<0.0034	<0.0116	<0.0035	<0.0029	<0.0025	<0.0028	<0.0030	<0.0038	<0.0040	<0.0043	<0.0045	<0.0037	<0.0040	<0.0036	<0.0037	<0.0035	<0.0060
1,4-Dioxane	mg/kg	<0.0818	<0.0709	<0.0767	<0.0721	<0.0691	<0.115	<0.0855	<0.0682	<0.233	<0.0709	<0.0589	<0.0496	<0.0563	<0.0595	<0.0762	<0.0801	<0.0858	<0.0896	<0.0746	<0.0792	<0.0723	<0.0746	<0.0690	<0.120
2,2-Dichloropropane	mg/kg	<0.0041	<0.0035	<0.0038	<0.0036	<0.0035	<0.0057	<0.0043	<0.0034	<0.0116	<0.0035	<0.0029	<0.0025	<0.0028	<0.0030	<0.0038	<0.0040	<0.0043	<0.0045	<0.0037	<0.0040	<0.0036	<0.0037	<0.0035	<0.0060
2-Butanone	mg/kg	<0.0082	<0.0071	<0.0077	<0.0072	<0.0069	<0.0115	<0.0085	<0.0068	<0.0233	<0.0071	<0.0059	<0.0050	<0.0056	<0.0060	<0.0076	<0.0080	0.0138	<0.0090	<0.0075	<0.0079	<0.0072	<0.0075	<0.0069	<0.0120
2-Chlorotoluene	mg/kg	<0.0041	<0.0035	<0.0038	<0.0036	<0.0035	<0.0057	<0.0043	<0.0034	<0.0116	<0.0035	<0.0029	<0.0025	<0.0028	<0.0030	<0.0038	<0.0040	<0.0043	<0.0045	<0.0037	<0.0040	<0.0036	<0.0037	<0.0035	<0.0060
2-Hexanone	mg/kg	<0.0082	<0.0071	<0.0077	<0.0072	<0.0069	<0.0115	<0.0085	<0.0068	<0.0233	<0.0071	<0.0059	<0.0050	<0.0056	<0.0060	<0.0076	<0.0080	<0.0086	<0.0090	<0.0075	<0.0079	<0.0072	<0.0075	<0.0069	<0.0120
4-Chlorotoluene	mg/kg	<0.0041	<0.0035	<0.0038	<0.0036	<0.0035	<0.0057	<0.0043	<0.0034	<0.0116	<0.0035	<0.0029	<0.0025	<0.0028	<0.0030	<0.0038	<0.0040	<0.0043	<0.0045	<0.0037	<0.0040	<0.0036	<0.0037	<0.0035	<0.0060
4-Isopropyltoluene	mg/kg	<0.0041	<0.0035	<0.0038	<0.0036	<0.0035	<0.0057	<0.0043	<0.0034	<0.0116	<0.0035	<0.0029	<0.0025	<0.0028	<0.0030	<0.0038	<0.0040	<0.0043	<0.0045	<0.0037	<0.0040	<0.0036	<0.0037	<0.0035	<0.0060
4-Methyl-2-Pentanone	mg/kg	<0.0082	<0.0071	<0.0077	<0.0072	<0.0069	<0.0115	<0.0085	<0.0068	<0.0233	<0.0071	<0.0059	<0.0050	<0.0056	<0.0060	<0.0076	<0.0080	<0.0086	<0.0090	<0.0075	<0.0079	<0.0072	<0.0075	<0.0069	<0.0120
Acetone	mg/kg	<0.0082	<0.0071	<0.0077	<0.0072	<0.0069	<0.0115	0.0264	0.0167	0.0591	0.0088	0.0069	<0.0050	0.009	0.0109	<0.0076	<0.0080	0.11	0.0239	0.0078	<0.0079	<0.0072	0.0096	<0.0069	<0.0120
Benzene	mg/kg	<0.0041	<0.0035	<0.0038	<0.0036	<0.0035	<0.0057	<0.0043	<0.0034	<0.0116	<0.0035	<0.0029	<0.0025	<0.0028	<0.0030	<0.0038	<0.0040	<0.0043	<0.0045	<0.0037	<0.0040	<0.0036	<0.0037	<0.0035	<0.0060
Bromobenzene	mg/kg	<0.0041	<0.0035	<0.0038	<0.0036	<0.0035	<0.0057	<0.0043	<0.0034	<0.0116	<0.0035	<0.0029	<0.0025	<0.0028	<0.0030	<0.0038	<0.0040	<0.0043	<0.0045	<0.0037	<0.0040	<0.0036	<0.0037	<0.0035	<0.0060
Bromochloromethane	mg/kg	<0.0041	<0.0035	<0.0038	<0.0036	<0.0035	<0.0057	<0.0043	<0.0034	<0.0116	<0.0035	<0.0029	<0.0025	<0.0028	<0.0030	<0.0038	<0.0040	<0.0043	<0.0045	<0.0037	<0.0040	<0.0036	<0.0037	<0.0035	<0.0060
Bromodichloromethane	mg/kg	<0.0041	<0.0035	<0.0038	<0.0036	<0.0035	<0.0057	<0.0043	<0.0034	<0.0116	<0.0035	<0.0029	<0.0025	<0.0028	<0.0030	<0.0038	<0.0040	<0.0043	<0.0045	<0.0037	<0.0040	<0.0036	<0.0037	<0.0035	<0.0060
Bromoform	mg/kg	<0.0041	<0.0035	<0.0038	<0.0036	<0.0035	<0.0057	<0.0043	<0.0034	<0.0116	<0.0035	<0.0029	<0.0025	<0.0028	<0.0030	<0.0038	<0.0040	<0.0043	<0.0045	<0.0037	<0.0040	<0.0036	<0.0037	<0.0035	<0.0060
Bromomethane	mg/kg	<0.0082	<0.0071	<0.0077	<0.0072	<0.0069	<0.0115	<0.0085	<0.0068	<0.0233	<0.0071	<0.0059	<0.0050	<0.0056	<0.0060	<0.0076	<0.0080	<0.0086	<0.0090	<0.0075	<0.0079	<0.0072	<0.0075	<0.0069	<0.0120
Carbon Disulfide	mg/kg	<0.0041	<0.0035	<0.0038	<0.0036	<0.0035	<0.0057	<0.0043	<0.0034	<0.0116	<0.0035	<0.0029	<0.0025	<0.0028	<0.0030	<0.0038	<0.0040	<0.0043	<0.0045	<0.0037	<0.0040	<0.0036	<0.0037	<0.0035	<0.0060
Carbon Tetrachloride	mg/kg	<0.0041	<0.0035	<0.0038	<0.0036	<0.0035	<0.0057	<0.0043	<0.0034	<0.0116	<0.0035	<0.0029	<0.0025	<0.0028	<0.0030	<0.0038	<0.0040	<0.0043	<0.0045	<0.0037	<0.0040	<0.0036	<0.0037	<0.0035	<0.0060
Chlorobenzene	mg/kg	<0.0041	<0.0035	<0.0038	<0.0036	<0.0035	<0.0057	<0.0043	<0.0034	<0.0116	<0.0035	<0.0029	<0.0025	<0.0028	<0.0030	<0.0038	<0.0040	<0.0043	<0.0045	<0.0037	<0.0040	<0.0036	<0.0037	<0.0035	<0.0060
Chloroethane	mg/kg	<0.0082	<0.0071	<0.0077	<0.0072	<0.0069	<0.0115	<0.0085	<0.0068	<0.0233	<0.0071	<0.0059	<0.0050	<0.0056	<0.0060	<0.0076	<0.0080	<0.0086	<0.0090	<0.0075	<0.0079	<0.0072	<0.0075	<0.0069	<0.0120
Chloroform	mg/kg	<0.0041	<0.0035	<0.0038	<0.0036	<0.0035	<0.0057	<0.0043	<0.0034	<0.0116	<0.0035	<0.0029	<0.0025	<0.0028	<0.0030	<0.0038	<0.0040	<0.0043	<0.0045	<0.0037	<0.0040	<0.0036	<0.0037	<0.0035	<0.0060
Chloromethane	mg/kg	<0.0082	<0.0071	<0.0077	<0.0072	<0.0069	<0.0115	<0.0085	<0.0068	<0.0233	<0.0071	<0.0059	<0.0050	<0.0056	<0.0060	<0.0076	<0.0080	<0.0086	<0.0090	<0.0075	<0.0079	<0.0072	<0.0075	<0.0069	<0.0120
cis-1,2-Dichloroethene	mg/kg	<0.0041	<0.0035	<0.0038	<0.0036	<0.0035	<0.0057	<0.0043	<0.0034	<0.0116	<0.0035	<0.0029	<0.0025	<0.0028	<0.0030	<0.0038	<0.0040	<0.0043	<0.0045	<0.0037	<0.0040	<0.0036	<0.0037	<0.0035	<0.0060
cis-1,3-Dichloropropene	mg/kg	<0.0041	<0.0035	<0.0038	<0.0036	<0.0035	<0.0057	<0.0043	<0.0034	<0.0116	<0.0035	<0.0029	<0.0025	<0.0028	<0.0030	<0.0038	<0.0040	<0.0043	<0.0045	<0.0037	<0.0040	<0.0036	<0.0037	<0.0035	<0.0060
Dibromochloromethane	mg/kg	<0.0016	<0.0014	<0.0015	<0.0014	<0.0014	<0.0023	<0.0017	<0.0014	<0.0047	<0.0014	<0.0012	<0.0010	<0.0011	<0.0012	<0.0015	<0.0016	<0.0017	<0.0018	<0.0015	<0.0016	<0.0014	<0.0015	<0.0014	<0.0024
Dibromomethane	mg/kg	<0.0041	<0.0035	<0.0038	<0.0036	<0.0035	<0.0057	<0.0043	<0.0034	<0.0116	<0.0035	<0.0029	<0.0025	<0.0028	<0.0030	<0.0038	<0.0040	<0.0043	<0.0045	<0.0037	<0.0040	<0.0036	<0.0037	<0.0035	<0.0060
Dichlorodifluoromethane	mg/kg	<0.0082	<0.0071	<0.0077	<0.0072	<0.0069	<0.0115	<0.0085	<0.0068	<0.0233	<0.0071	<0.0059	<0.0050	<0.0056	<0.0060	<0.0076	<0.0080	<0.0086	<0.0090	<0.0075	<0.0079	<0.0072	<0.0075	<0.0069	<0.0120
Diethyl Ether	mg/kg	<0.0041	<0.0035	<0.0038	<0.0036	<0.0035	<0.0057	<0.0043	<0.0034	<0.0116	<0.0035	<0.0029	<0.0025	<0.0028	<0.0030	<0.0038	<0.0040	<0.0043	<0.0045	<0.0037	<0.0040	<0.0036	<0.0037	<0.0035	<0.0060
Di-isopropyl ether	mg/kg	<0.0041	<0.0035	<0.0038	<0.0036	<0.0035	<0.0057	<0.0043	<0.0034	<0.0116	<0.0035	<0.0029	<0.0025	<0.0028	<0.0030	<0.0038	<0.0040	<0.0043	<0.0045	<0.0037	<0.0040	<0.0036	<0.0037	<0.0035	<0.0060
Ethyl tertiary-butyl ether	mg/kg	<0.0041	<0.0035	<0.0038	<0.0036	<0.0035	<0.0057	<0.0043	<0.0034	<0.0116	<0.0035	<0.0029	<0.0025	<0.0028	<0.0030	<0.0038	<0.0040	<0.0043	<0.0045	<0.0037	<0.0040	<0.0036	<0.0037	<0.0035	<0.0060
Ethylbenzene	mg/kg	<0.0041	<0.0035	<0.0038	<0.0036	<0.0035	<0.0057	<0.0043	<0.0034	<0.0116	<0.0035	<0.0029	<0.0025	<0.0028	<0.0030	<0.0038	<0.0040	<0.0043	<0.0045	<0.0037	<0.0040	<0.0036	<0.0037	<0.0035	<0.0060
Hexachlorobutadiene	mg/kg	<0.0041	<0.0035	<0.0038	<0.0036	<0.0035	<0.0057	<0.0043	<0.0034	<0.0116	<0.0035	<0.0029	<0.0025	<0.0028	<0.0030	<0.0038	<0.0040	<0.0043	<0.0045	<0.0037	<0.0040	<0.0036	<0.0037	<0.0035	<0.0060
Isopropylbenzene	mg/kg	<0.0041	<0.0035	<0.0038	<0.0036	<0.0035	<0.0057	<0.0043	<0.0034	<0.0116	<0.0035	<0.0029	<0.0025	<0.0028	<0.0030	<0.0038	<0.0040	<0.0043	<0.0045	<0.0037	<0.0040	<0.0036	<0.0037	<0.0035	<0.0060
Methyl tert-Butyl Ether	mg/kg	<0.0041	<0.0035	<0.0038	<0.0036	<0.0035	<0.0057	<0.0043	<0.0034	<0.0116	<0.0035	<0.0029	<0.0025	<0.0028	<0.0030	<0.0038	<0.0040	<0.0043	<0.0045	<0.0037	<0.0040	<0.0036	<0.0037	<0.0035	<0.0060
Methylene Chloride	mg/kg	<0.0082	<0.0071	<0.0077	<0.0072	<0.0069	<0.0115	<0.0085	<0.0068	<0.0233	<0.0071	<0.0059	<0.0050	<0.0056	<0.0060	<0.0076	<0.0080	<0.0086	<0.0090	<0.0075	<0.0079	<0.0072	<0.0075	<0.0069	<0.0120
Naphthalene	mg/kg	<0.0041	<0.0035	<0.0038	<0.0036	<0.0035	<0.0057	<0.0043	<0.0034	<0.0116	<0.0035	<0.0029	<0.0025	<0.0028	<0.0030	<0.0038	<0.0040	<0.0043	<0.0045	<0.0037	<0.0040	<0.0036	<0.0037	<0.0035	<0.0060
n-Butylbenzene	mg/kg	<0.0041	<0.0035	<0.0038	<0.0036	<0.0035	<0.0057	<0.0043	<0.0034	<0.0116	<0.0035	<0.0029	<0.0025	<0.0028	<0.0030	<0.0038	<0.0040	<0.0043	<0.0045	<0.0037	<0.0040	<0.0036	<0.0037	<0.0035	<0.0060
n-Propylbenzene	mg/kg	<0.0041	<0.0035	<0.0038	<0.0036	<0.0035	<0.0057	<0.0043	<0.0034	<0.0116	<0.0035	<0.0029	<0.0025	<0.0028	<0.0030	<0.0038	<0.0040	<0.0043	<0.0045	<0.0037	<0.0040	<0.0036	<0.0037	<0.0035	<0.0060
sec-Butylbenzene	mg/kg	<0.0041	<0.0035	<0.0038	<0.0036	<0.0035	<0.0057	<0.0043	<0.0034	<0.0116	<0.0035	<0.0029	<0.0025	<0.0028	<0.0030	<0.0038	<0.0040	<0.0043	<0.0045	<0.0037	<0.0040	<0.0036	<0.0037	<0.0035	<0.0060

J:\170,000-179,999\171521\171521-02.DEL\Supplemental Phase II\Appendices\Appendix H\172521.12 Table 1 2015-12-01.xlsx/172521.12 Table 1

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	G05 G05S07 1503046 Natural Clay 16 - 18 3/3/2015	G05 G05S08 1503046 Natural Clay 19 - 21 3/3/2015	G05 G05S09 1503046 Natural Clay 24 - 26 3/3/2015	G05 G05S10 1503046 Natural Clay 29 - 31 3/3/2015	G05 G05S11S12 1503046 Natural Clay 34 - 38 3/3/2015	G06 G06S01S02A 1501511 Fill 0 - 3.3 1/26/2015	G06 G06S02BS04A 1501511 Fill 3.3 - 6.6 1/26/2015	G06 G06S04B 1501511 Fill 6.6 - 8 1/26/2015	G06 G06S05S06 1501511 Natural Organics 8 - 12 1/26/2015	G06 G06S07 1501511 Natural Clay 14 - 16 1/26/2015	G06 G06S08 1501511 Natural Clay 19 - 21 1/26/2015	G06 G06S09 1501511 Natural Clay 24 - 26 1/26/2015	G06 G06S10 1501511 Natural Clay 29 - 31 1/26/2015	G06 G06S11S12 1501511 Natural Clay 34 - 38 1/26/2015	G07 G07S01S02A 1501510 Fill 0 - 3.3 1/26/2015	G07 G07S02BS04A 1501510 Fill 3.3 - 6.6 1/26/2015	G07 G07S04B 1501510 Fill 6.6 - 8 1/26/2015	G07 G07S05S06 1501510 Natural Organics 8 - 12 1/26/2015	G07 G07S07 1501510 Natural Clay 14 - 16 1/26/2015	G07 G07S08 1501510 Natural Clay 19 - 21 1/26/2015	G07 G07S09 1501510 Natural Clay 24 - 26 1/26/2015	G07 G07S10 1501510 Natural Clay 29 - 31 1/26/2015	G07 G07S11S12 1501510 Natural Clay 34 - 38 1/26/2015	G08 G08S01S02A 1501272 Fill 0 - 3.3 1/14/2015
Preliminary Disposal Facility Category		MCP Restricted	MCP Restricted	MCP Regulated Type A	MCP Regulated Type A	MCP Restricted	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Restricted	Uncontaminated	MCP Regulated Type B-1	Uncontaminated	MCP Regulated Type B-1
Styrene	mg/kg	<0.0041	<0.0035	<0.0038	<0.0036	<0.0035	<0.0057	<0.0043	<0.0034	<0.0116	<0.0035	<0.0029	<0.0025	<0.0028	<0.0030	<0.0038	<0.0040	<0.0043	<0.0045	<0.0037	<0.0040	<0.0036	<0.0037	<0.0035	<0.0060
tert-Butylbenzene	mg/kg	<0.0041	<0.0035	<0.0038	<0.0036	<0.0035	<0.0057	<0.0043	<0.0034	<0.0116	<0.0035	<0.0029	<0.0025	<0.0028	<0.0030	<0.0038	<0.0040	<0.0043	<0.0045	<0.0037	<0.0040	<0.0036	<0.0037	<0.0035	<0.0060
Tertiary-amyl methyl ether	mg/kg	<0.0041	<0.0035	<0.0038	<0.0036	<0.0035	<0.0057	<0.0043	<0.0034	<0.0116	<0.0035	<0.0029	<0.0025	<0.0028	<0.0030	<0.0038	<0.0040	<0.0043	<0.0045	<0.0037	<0.0040	<0.0036	<0.0037	<0.0035	<0.0060
Tetrachloroethene	mg/kg	<0.0041	<0.0035	<0.0038	<0.0036	<0.0035	<0.0057	<0.0043	<0.0034	<0.0116	<0.0035	<0.0029	<0.0025	<0.0028	<0.0030	<0.0038	<0.0040	<0.0043	<0.0045	<0.0037	<0.0040	<0.0036	<0.0037	<0.0035	<0.0060
Tetrahydrofuran	mg/kg	<0.0041	<0.0035	<0.0038	<0.0036	<0.0035	<0.0057	<0.0043	<0.0034	<0.0116	<0.0035	<0.0029	<0.0025	<0.0028	<0.0030	<0.0038	<0.0040	<0.0043	<0.0045	<0.0037	<0.0040	<0.0036	<0.0037	<0.0035	<0.0060
Toluene	mg/kg	<0.0041	<0.0035	<0.0038	<0.0036	<0.0035	<0.0057	<0.0043	<0.0034	<0.0116	<0.0035	<0.0029	<0.0025	<0.0028	<0.0030	<0.0038	<0.0040	<0.0043	<0.0045	<0.0037	<0.0040	<0.0036	<0.0037	<0.0035	<0.0060
trans-1,2-Dichloroethene	mg/kg	<0.0041	<0.0035	<0.0038	<0.0036	<0.0035	<0.0057	<0.0043	<0.0034	<0.0116	<0.0035	<0.0029	<0.0025	<0.0028	<0.0030	<0.0038	<0.0040	<0.0043	<0.0045	<0.0037	<0.0040	<0.0036	<0.0037	<0.0035	<0.0060
trans-1,3-Dichloropropene	mg/kg	<0.0041	<0.0035	<0.0038	<0.0036	<0.0035	<0.0057	<0.0043	<0.0034	<0.0116	<0.0035	<0.0029	<0.0025	<0.0028	<0.0030	<0.0038	<0.0040	<0.0043	<0.0045	<0.0037	<0.0040	<0.0036	<0.0037	<0.0035	<0.0060
Trichloroethene	mg/kg	<0.0041	<0.0035	<0.0038	<0.0036	<0.0035	<0.0057	<0.0043	<0.0034	<0.0116	<0.0035	<0.0029	<0.0025	<0.0028	<0.0030	<0.0038	<0.0040	<0.0043	<0.0045	<0.0037	<0.0040	<0.0036	<0.0037	<0.0035	<0.0060
Trichlorofluoromethane	mg/kg	<0.0041	<0.0035	<0.0038	<0.0036	<0.0035	<0.0057	<0.0043	<0.0034	<0.0116	<0.0035	<0.0029	<0.0025	<0.0028	<0.0030	<0.0038	<0.0040	<0.0043	<0.0045	<0.0037	<0.0040	<0.0036	<0.0037	<0.0035	<0.0060
Vinyl Chloride	mg/kg	<0.0082	<0.0071	<0.0077	<0.0072	<0.0069	<0.0115	<0.0085	<0.0068	<0.0233	<0.0071	<0.0059	<0.0050	<0.0056	<0.0060	<0.0076	<0.0080	<0.0086	<0.0090	<0.0075	<0.0079	<0.0072	<0.0075	<0.0069	<0.0120
Xylene O	mg/kg	<0.0041	<0.0035	<0.0038	<0.0036	<0.0035	<0.0057	<0.0043	<0.0034	<0.0116	<0.0035	<0.0029	<0.0025	<0.0028	<0.0030	<0.0038	<0.0040	<0.0043	<0.0045	<0.0037	<0.0040	<0.0036	<0.0037	<0.0035	<0.0060
Xylene P,M	mg/kg	<0.0082	<0.0071	<0.0077	<0.0072	<0.0069	<0.0115	<0.0085	<0.0068	<0.0233	<0.0071	<0.0059	<0.0050	<0.0056	<0.0060	<0.0076	<0.0080	<0.0086	<0.0090	<0.0075	<0.0079	<0.0072	<0.0075	<0.0069	<0.0120
Xylenes (Total)	mg/kg	<0.0082	<0.0071	<0.0077	<0.0072	<0.0069	<0.0115	<0.0085	<0.0068	<0.0233	<0.0071	<0.0059	<0.0050	<0.0056	<0.0060	<0.0076	<0.0080	<0.0086	<0.0090	<0.0075	<0.0079	<0.0072	<0.0075	<0.0069	<0.0120
Total VOCs (Low Level)	mg/kg	ND	ND	ND	ND	ND	ND	0.0264	0.0167	0.0591	0.0088	0.0069	ND	0.009	0.0109	ND	ND	0.1238	0.0239	0.0078	ND	ND	0.0096	ND	ND
Semi-Volatile Organic Compounds																									
1,2,4-Trichlorobenzene	mg/kg	<1.03	<0.991	<0.953	<1.06	<1.01	<0.885	<0.958	<0.987	<1.59	<1.05	<1.04	<1.03	<0.879	<1.07	<3.52	<0.833	<1.04	<1.03	<1.10	<1.01	<0.926	<0.889	<0.996	<0.867
1,2-Dichlorobenzene	mg/kg	<1.03	<0.991	<0.953	<1.06	<1.01	<0.885	<0.958	<0.987	<1.59	<1.05	<1.04	<1.03	<0.879	<1.07	<3.52	<0.833	<1.04	<1.03	<1.10	<1.01	<0.926	<0.889	<0.996	<0.867
1,3-Dichlorobenzene	mg/kg	<1.03	<0.991	<0.953	<1.06	<1.01	<0.885	<0.958	<0.987	<1.59	<1.05	<1.04	<1.03	<0.879	<1.07	<3.52	<0.833	<1.04	<1.03	<1.10	<1.01	<0.926	<0.889	<0.996	<0.867
1,4-Dichlorobenzene	mg/kg	<0.516	<0.497	<0.478	<0.534	<0.506	<0.444	<0.480	<0.495	<0.797	<0.529	<0.520	<0.518	<0.441	<0.534	<1.77	<0.418	<0.524	<0.517	<0.554	<0.507	<0.465	<0.446	<0.500	<0.435
2,4,5-Trichlorophenol	mg/kg	<1.03	<0.991	<0.953	<1.06	<1.01	<0.885	<0.958	<0.987	<1.59	<1.05	<1.04	<1.03	<0.879	<1.07	<3.52	<0.833	<1.04	<1.03	<1.10	<1.01	<0.926	<0.889	<0.996	<0.867
2,4,6-Trichlorophenol	mg/kg	<1.03	<0.991	<0.953	<1.06	<1.01	<0.885	<0.958	<0.987	<1.59	<1.05	<1.04	<1.03	<0.879	<1.07	<3.52	<0.833	<1.04	<1.03	<1.10	<1.01	<0.926	<0.889	<0.996	<0.867
2,4-Dichlorophenol	mg/kg	<1.03	<0.991	<0.953	<1.06	<1.01	<0.885	<0.958	<0.987	<1.59	<1.05	<1.04	<1.03	<0.879	<1.07	<3.52	<0.833	<1.04	<1.03	<1.10	<1.01	<0.926	<0.889	<0.996	<0.867
2,4-Dimethylphenol	mg/kg	<1.03	<0.991	<0.953	<1.06	<1.01	<0.885	<0.958	<0.987	<1.59	<1.05	<1.04	<1.03	<0.879	<1.07	<3.52	<0.833	<1.04	<1.03	<1.10	<1.01	<0.926	<0.889	<0.996	<0.867
2,4-Dinitrophenol	mg/kg	<5.16	<4.97	<4.78	<5.34	<5.06	<4.44	<4.80	<4.95	<7.97	<5.29	<5.20	<5.18	<4.41	<5.34	<17.7	<4.18	<5.24	<5.17	<5.54	<5.07	<4.65	<4.46	<5.00	<4.35
2,4-Dinitrotoluene	mg/kg	<1.03	<0.991	<0.953	<1.06	<1.01	<0.885	<0.958	<0.987	<1.59	<1.05	<1.04	<1.03	<0.879	<1.07	<0.883	<0.833	<1.04	<1.03	<1.10	<1.01	<0.926	<0.889	<0.996	<0.867
2,6-Dinitrotoluene	mg/kg	<1.03	<0.991	<0.953	<1.06	<1.01	<0.885	<0.958	<0.987	<1.59	<1.05	<1.04	<1.03	<0.879	<1.07	<3.52	<0.833	<1.04	<1.03	<1.10	<1.01	<0.926	<0.889	<0.996	<0.867
2-Chloronaphthalene	mg/kg	<1.03	<0.991	<0.953	<1.06	<1.01	<0.885	<0.958	<0.987	<1.59	<1.05	<1.04	<1.03	<0.879	<1.07	<3.52	<0.833	<1.04	<1.03	<1.10	<1.01	<0.926	<0.889	<0.996	<0.867
2-Chlorophenol	mg/kg	<1.03	<0.991	<0.953	<1.06	<1.01	<0.885	<0.958	<0.987	<1.59	<1.05	<1.04	<1.03	<0.879	<1.07	<3.52	<0.833	<1.04	<1.03	<1.10	<1.01	<0.926	<0.889	<0.996	<0.867
2-Methylnaphthalene	mg/kg	<1.03	<0.991	<0.953	<1.06	<1.01	<0.885	<0.958	<0.987	<1.59	<1.05	<1.04	<1.03	<0.879	<1.07	<3.52	1.02	<1.04	<1.03	<1.10	<1.01	<0.926	<0.889	<0.996	<0.867
2-Methylphenol	mg/kg	<1.03	<0.991	<0.953	<1.06	<1.01	<0.885	<0.958	<0.987	<1.59	<1.05	<1.04	<1.03	<0.879	<1.07	<3.52	<0.833	<1.04	<1.03	<1.10	<1.01	<0.926	<0.889	<0.996	<0.867
2-Nitrophenol	mg/kg	<1.03	<0.991	<0.953	<1.06	<1.01	<0.885	<0.958	<0.987	<1.59	<1.05	<1.04	<1.03	<0.879	<1.07	<3.52	<0.833	<1.04	<1.03	<1.10	<1.01	<0.926	<0.889	<0.996	<0.867
3,3´-Dichlorobenzidine	mg/kg	<2.06	<1.99	<1.91	<2.13	<2.02	<1.77	<1.92	<1.98	<3.18	<2.11	<2.08	<2.07	<1.76	<2.13	<7.06	<1.67	<2.09	<2.07	<2.21	<2.03	<1.86	<1.78	<2.00	<1.74
3+4-Methylphenol	mg/kg	<2.06	<1.99	<1.91	<2.13	<2.02	<1.77	<1.92	<1.98	<3.18	<2.11	<2.08	<2.07	<1.76	<2.13	<7.06	<1.67	<2.09	<2.07	<2.21	<2.03	<1.86	<1.78	<2.00	<1.74
4-Bromophenyl-phenylether	mg/kg	<1.03	<0.991	<0.953	<1.06	<1.01	<0.885	<0.958	<0.987	<1.59	<1.05	<1.04	<1.03	<0.879	<1.07	<3.52	<0.833	<1.04	<1.03	<1.10	<1.01	<0.926	<0.889	<0.996	<0.867
4-Chloroaniline	mg/kg	<2.06	<1.99	<1.91	<2.13	<2.02	<1.77	<1.92	<1.98	<3.18	<2.11	<2.08	<2.07	<1.76	<2.13	<1.77	<1.67	<2.09	<2.07	<2.21	<2.03	<1.86	<1.78	<2.00	<1.74
4-Nitrophenol	mg/kg	<5.16	<4.97	<4.78	<5.34	<5.06	<4.44	<4.80	<4.95	<7.97	<5.29	<5.20	<5.18	<4.41	<5.34	<17.7	<4.18	<5.24	<5.17	<5.54	<5.07	<4.65	<4.46	<5.00	<4.35
Acenaphthene	mg/kg	<1.03	<0.991	<0.953	<1.06	<1.01	<0.885	<0.958	<0.987	<1.59	<1.05	<1.04	<1.03	<0.879	<1.07	<3.52	1.52	<1.04	<1.03	<1.10	<1.01	<0.926	<0.889	<0.996	<0.867
Acenaphthylene	mg/kg	<1.03	<0.991	<0.953	<1.06	<1.01	<0.885	<0.958	<0.987	<1.59	<1.05	<1.04	<1.03	<0.879	<1.07	<3.52	<0.833	<1.04	<1.03	<1.10	<1.01	<0.926	<0.889	<0.996	<0.867
Acetophenone	mg/kg	<2.06	<1.99	<1.91	<2.13	<2.02	<1.77	<1.92	<1.98	<3.18	<2.11	<2.08	<2.07	<1.76	<2.13	<7.06	<1.67	<2.09	<2.07	<2.21	<2.03	<1.86	<1.78	<2.00	<1.74
Aniline	mg/kg	<5.16	<4.97	<4.78	<5.34	<5.06	<4.44	<4.80	<4.95	<7.97	<5.29	<5.20	<5.18	<4.41	<5.34	<17.7	<4.18	<5.24	<5.17	<5.54	<5.07	<4.65	<4.46	<5.00	<4.35
Anthracene	mg/kg	<1.03	<0.991	<0.953	<1.06	<1.01	<0.885	1.02	<0.987	<1.59	<1.05	<1.04	<1.03	<0.879	<1.07	<3.52	4.01	<1.04	<1.03	<1.10	<1.01	<0.926	<0.889	<0.996	<0.867
Azobenzene	mg/kg	<1.03	<0.991	<0.953	<1.06	<1.01	<0.885	<0.958	<0.987	<1.59	<1.05	<1.04	<1.03	<0.879	<1.07	<3.52	<0.833	<1.04	<1.03	<1.10	<1.01	<0.926	<0.889	<0.996	<0.867
Benzo(a)anthracene	mg/kg	<1.03	<0.991	<0.953	<1.06	<1.01	1.32	2.43	<0.987	<1.59	<1.05	<1.04	<1.03	<0.879	<1.07	<3.52	5.83	<1.04	<1.03	<1.10	<1.01	<0.926	<0.889	<0.996	<0.867
Benzo(a)pyrene	mg/kg	<0.516	<0.497	<0.478	<0.534	<0.506	1.21	2.33	<0.495	<0.797	<0.529	<0.520	<0.518	<0.441	<0.534	<1.77	4.9	<0.524	<0.517	<0.554	<0.507	<0.465	<0.446	<0.500	<0.435
Benzo(b)fluoranthene	mg/kg	<1.03	<0.991	<0.953	<1.06	<1.01	1.63	3.11	<0.987	<1.59	<1.05	<1.04	<1.03	<0.879	<1.07	<3.52	4.79	<1.04	<1.03	<1.10	<1.01	<0.926	<0.889	<0.996	<0.867
Benzo(g,h,i)perylene	mg/kg	<1.03	<0.991	<0.953	<1.06	<1.01	<0.885	<0.958	<0.987	<1.59	<1.05	<1.04	<1.03	<0.879	<1.07	<3.52	<0.833	<1.04	<1.03	<1.10	<1.01	<0.926	<0.889	<0.996	<0.867
Benzo(k)fluoranthene	mg/kg	<1.03	<0.991	<0.953	<1.06	<1.01	<0.885	<0.958	<0.987	<1.59	<1.05	<1.04	<1.03	<0.879	<1.07	<3.52	3.77	<1.04	<1.03	<1.10	<1.01	<0.926	<0.889	<0.996	<0.867
bis(2-Chloroethoxy)methane	mg/kg	<1.03	<0.991	<0.953	<1.06	<1.01	<0.885	<0.958	<0.987	<1.59	<1.05	<1.04	<1.03	<0.879	<1.07	<3.52	<0.833	<1.04	<1.03	<1.10	<1.01	<0.926	<0.889	<0.996	<0.867
bis(2-Chloroethyl)ether	mg/kg	<0.516	<0.497	<0.478	<0.534	<0.506	<0.444	<0.480	<0.495	<0.797	<0.529	<0.520	<0.518	<0.441	<0.534	<0.349	<0.418	<0.524	<0.517	<0.554	<0.507	<0.465	<0.446	<0.500	<0.435
bis(2-chloroisopropyl)Ether	mg/kg	<0.516	<0.497	<0.478	<0.534	<0.506	<0.444	<0.480	<0.495	<0.797	<0.529	<0.520	<0.518	<0.441	<0.534	<0.349	<0.418	<0.524	<0.517	<0.554	<0.507	<0.465	<0.446	<0.500	<0.435
bis(2-Ethylhexyl)phthalate	mg/kg	<1.03	<0.991	<0.953	<1.06	<1.01	<0.885	<0.958	<0.987	<1.59	<1.05	<1.04	<1.03	<0.879	<1.07	<3.52	<0.833	<1.04	<1.03	<1.10	<1.01	<0.926	<0.889	<0.996	<0.867
Butylbenzylphthalate	mg/kg	<1.03	<0.991	<0.953	<1.06	<1.01	<0.885	<0.958	<0.987	<1.59	<1.05	<1.04	<1.03	<0.879	<1.07	<3.52	<0.833	<1.04	<1.03	<1.10	<1.01	<0.926	<0.889	<0.996	<0.867
Chrysene	mg/kg	<0.516	<0.497	<0.478	<0.534	<0.506	1.28	2.24	<0.495	<0.797	<0.529	<0.520	<0.518	<0.441	<0.534	<1.77	5.18	<0.524	<0.517	<0.554	<0.507	<0.465	<0.446	<0.500	<0.435
Dibenzo(a,h)Anthracene	mg/kg	<0.516	<0.497	<0.478	<0.534	<0.506	<0.444	<0.480	<0.495	<0.797	<0.529	<0.520	<0.518	<0.441	<0.534	<1.77	0.649	<0.524	<0.517	<0.554	<0.507	<0.465	<0.446	<0.500	<0.435
Dibenzofuran	mg/kg	<1.03	<0.991	<0.953	<1.06	<1.01	<0.885	<0.958	<0.987	<1.59	<1.05	<1.04	<1.03	<0.879	<1.07	<3.52	1.51	<1.04	<1.03	<1.10	<1.01	<0.926	<0.889	<0.996	<0.867
Diethylphthalate	mg/kg	<1.03	<0.991	<0.953	<1.06	<1.01	<0.885	<0.958	<0.987	<1.59	<1.05	<1.04	<1.03	<0.879	<1.07	<3.52	<0.833	<1.04	<1.03	<1.10	<1.01	<0.926	<0.889	<0.996	<0.867
Dimethylphthalate	mg/kg	<1.03	<0.991	<0.953	<1.06	<1.01	<0.885	<0.958	<0.987	<1.59	<1.05	<1.04	<1.03	<0.879	<1.07	<3.52	<0.833	<1.04	<1.03	<1.10	<1.01	<0.926	<0.889	<0.996	<0.867
Di-n-butylphthalate	mg/kg	<1.03	<0.991	<0.953	<1.06	<1.01	<0.885	<0.958	<0.987	<1.59	<1.05	<1.04	<1.03	<0.879	<1.07	<3.52	<0.833	<1.04	<1.03	<1.10	<1.01	<0.926	<0.889	<0.996	<0.867
Di-n-octylphthalate	mg/kg	<1.03	<0.991	<0.953	<1.06	<1.01	<0.885	<0.958	<0.987	<1.59	<1.05	<1.04	<1.03	<0.879	<1.07	<3.52	<0.833	<1.04	<1.03	<1.10	<1.01	<0.926	<0.889	<0.996	<0.867
Fluoranthene	mg/kg	<1.03	<0.991	<0.953	<1.06	<1.01	2.33	4.29	<0.987	<1.59	<1.05	<1.04	<1.03	<0.879	<1.07	<3.52	12.6	<1.04	<1.03	<1.10	<1.01	<0.926	<0.889	<0.996	<0.867
Fluorene	mg/kg	<1.03	<0.991	<0.953	<1.06	<1.01	<0.885	<0.958	<0.987	<1.59	<1.05	<1.04	<1.03	<0.879	<1.07	<3.52	1.73	<1.04	<1.03	<1.10	<1.01	<0.926	<0.889	<0.996	<0.867
Hexachlorobenzene	mg/kg	<0.516	<0.497	<0.478	<0.534	<0.506	<0.444	<0.480	<0.495	<0.797	<0.529	<0.520	<0.518	<0.441	<0.534	<0.883	<0.418	<0.524	<0.517	<0.554	<0.507	<0.465	<0.446	<0.500	<0.435
Hexachlorobutadiene	mg/kg	<1.03	<0.991	<0.953	<1.06	<1.01	<0.885	<0.958	<0.987	<1.59	<1.05	<1.04	<1.03	<0.879	<1.07	<3.52	<0.833	<1.04	<1.03	<1.10	<1.01	<0.926	<0.889	<0.996	<0.867
Hexachloroethane	mg/kg	<1.03	<0.991	<0.953	<1.06	<1.01	<0.885	<0.958	<0.987	<1.59	<1.05	<1.04	<1.03	<0.879	<1.07	<1.77	<0.833	<1.04	<1.03	<1.10	<1.01	<0.926	<0.889	<0.996	<0.867
Indeno(1,2,3-cd)Pyrene	mg/kg	<1.03	<0.991	<0.953	<1.06	<1.01	<0.885	<0.958	<0.987	<1.59	<1.05	<1.04	<1.03	<0.879	<1.07	<3.52	<0.833	<1.04	<1.03	<1.10	<1.01	<0.926	<0.889	<0.996	<0.867
Isophorone	mg/kg	<1.03	<0.991	<0.953	<1.06	<1.01	<0.885	<0.958	<0.987	<1.59	<1.05	<1.04	<1.03	<0.879	<1.07	<3.52	<0.833	<1.04	<1.03	<1.10	<1.01	<0.926	<0.889	<0.996	<0.867
Naphthalene	mg/kg	<1.03	<0.991	<0.953	<1.06	<1.01	<0.885	<0.958	<0.987	<1.59	<1.05	<1.04	<1.03	<0.879	<1.07	<3.52	1.24	<1.04	<1.03	<1.10	<1.01	<0.926	<0.889	<0.996	<0.867
Nitrobenzene	mg/kg	<1.03	<0.991	<0.953	<1.06	<1.01	<0.885	<0.958	<0.987	<1.59	<1.05	<1.04	<1.03	<0.879	<1.07	<3.52	<0.833	<1.04	<1.03	<1.10	<1.01	<0.926	<0.889	<0.996	<0.867
N-Nitrosodimethylamine	mg/kg	<1.03	<0.991	<0.953	<1.06	<1.01	<0.885	<0.958	<0.987	<1.59	<1.05	<1.04	<1.03	<0.879	<1.07	<3.52	<0.833	<1.04	<1.03	<1.10	<1.01	<0.926	<0.889	<0.996	<0.867
Pentachlorophenol	mg/kg	<5.16	<4.97	<4.78	<5.34	<5.06	<4.44	<4.80	<4.95	<7.97	<5.29	<5.20	<5.18	<4.41	<5.34	<3.52	<4.18	<5.24	<5.17	<5.54	<5.07	<4.65	<4.46	<5.00	<4.35
Phenanthrene	mg/kg	<1.03	<0.991	<0.953	<1.06	<1.01	1.39	3.02	<0.987	<1.59	<1.05	<1.04	<1.03	<0.879	<1.07	<3.52	11.9	<1.04	<1.03	<1.10	<1.01	<0.926	<0.889	<0.996	<0.867
Phenol	mg/kg	<1.03	<0.991	<0.953	<1.06	<1.01	<0.885	<0.958	<0.987	<1.59	<1.05	<1.04	<1.03	<0.879	<1.07	<3.52	<0.833	<1.04	<1.03	<1.10	<1.01	<0.926	<0.889	<0.996	<0.867
Pyrene	mg/kg	<1.03	<0.991	<0.953	<1.06	<1.01	2.18	3.79	<0.987	<1.59	<1.05	<1.04	<1.03	<0.879	<1.07	<3.52	9.38	<1.04	<1.03	<1.10	<1.01	<0.926	<0.889	<0.996	<0.867
Total SVOCs	mg/kg	ND	ND	ND	ND	ND	11.34	22.23	ND	ND	ND	ND	ND	ND	ND	ND	70.029	ND	ND	ND	ND	ND	ND	ND	ND
Classic Chemistry																									
Corrosivity (pH)	S.U.	7.65	7.04	6.78	6.75	7.09	7.43	7.81	8.8	7.78	7.2	7.45	6.76	7.05	7.02	8.43	7.93	7.58	7.57	7.18	7.05	6.66	6.62	7.12	8.33
Conductivity	umhos/cm	826	1320	2110	2750	1510	1320	436	254	799	1110	1660	5490	3540	1720	154	240	287	530	770	1240	4070	4560	2760	1050
Flashpoint	°F	--	--	--	--	--	>200	>200	>200	--	--	--	--	--	--	>200	>200	>200	--	--	--	--	--	--	>200
Reactive Cyanide	mg/kg	--	--	--	--	--	<2.0	<2.0	<2.0	--	--	--	--	--	--	<2.0	<2.0	<2.0	--	--	--	--	--	--	<2.0
Reactive Sulfide	mg/kg	--	--	--	--	--	<2.0	<2.0	<2.0	--	--	--	--	--	--	<2.0	<2.0	<2.0	--	--	--	--	--	--	<2.0

Table 1
Soil Precharacterization Data

Wynn Resort Casino
Everett, Massachusetts

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	G08 G08S02BS04 1501272 Fill 3.3 - 8 1/14/2015	G08 G08S05 1501272 Natural Clay 8 - 10 1/14/2015	G08 G08S06 1501272 Natural Clay 14 - 16 1/14/2015	G08 G08S07 1501272 Natural Clay 19 - 21 1/14/2015	G08 G08S08 1501272 Natural Clay 24 - 26 1/14/2015	G08 G08S09 1501272 Natural Sand/Gravel 29 - 31 1/14/2015	G08 G08S10S11 1501272 Natural Sand/Gravel 34 - 38 1/14/2015	G09 G09S01S02A 1501568 Fill 0 - 3.3 1/30/2015	G09 G09S02BS04A 1501568 Fill 3.3 - 6.6 1/30/2015	G09 G09S04BS05 1501568 Fill 6.6 - 10 1/30/2015	G09 G09S06 1501568 Fill 10 - 12 1/30/2015	G09 G09S07 1501568 Natural Clay 14 - 16 1/30/2015	G09 G09S08 1501568 Natural Clay 19 - 21 1/30/2015	G09 G09S09 1501568 Natural Sand/Gravel 24 - 26 1/30/2015	G09 G09S10 1501568 Natural Sand/Gravel 29 - 31 1/30/2015	G09 G09S11S12 1501568 Natural Clay 34 - 38 1/30/2015	G10 G10S01S02A 1501225 Fill 0 - 3.3 1/13/2015	G10 G10S02BS40A 1501225 Fill 3.3 - 8 1/13/2015	G10 G10S04BS05 1501225 Natural Clay 8 - 10 1/13/2015	G10 G10S06 1501225 Natural Clay 10 - 12 1/13/2015	G10 G10S07 1501225 Natural Clay 14 - 16 1/13/2015	G10 G10S08 1501225 Natural Clay 19 - 21 1/13/2015	G10 G10S09 1501225 Natural Clay 24 - 26 1/13/2015	G10 G10S10 1501225 Natural Sand/Gravel 29 - 31 1/13/2015
Preliminary Disposal Facility Category		Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	Uncontaminated	Uncontaminated	MCP Regulated Type A	MCP Regulated Material Type B-2	MCP Regulated Material Type B-2	MCP Regulated Material Type B-2	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type B-1	Uncontaminated	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type B	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Restricted	Uncontaminated
RCRA 8 Metals	**Units**																								
Arsenic	mg/kg	62.6	12	15	9.01	<8.60	11.5	<7.26	7.21	26.8	26.6	10.1	18.8	14.8	12.4	<8.37	<7.91	<11.0	<12.7	73.7	22	16.9	22.8	15.7	<11.2
Barium	mg/kg	83.3	51.1	107	116	110	19.8	23.3	28.1	75	34.9	14.6	116	86.9	79.6	22.9	35.2	23.9	49.9	111	165	140	192	114	13.1
Cadmium	mg/kg	1.77	1.83	<1.68	<1.57	<1.72	<1.43	<1.45	<1.34	<1.35	<1.57	<1.58	<1.63	<1.67	<1.73	<1.67	<1.58	<2.19	<2.53	<2.59	<2.51	<2.46	<3.32	<2.63	<2.23
Chromium	mg/kg	18.4	26.7	52.4	57.1	52.8	15.3	15.1	26.1	33.7	9.3	13.3	59.6	53.7	39.3	16.1	22.9	22	34	88.6	62.6	62.9	94.9	65	10.1
Lead	mg/kg	3790	106	19.7	19.9	<17.2	<14.3	<14.5	14	1620	1080	328	<16.3	<16.7	<17.3	<16.7	<15.8	<21.9	93.7	1810	3120	<24.6	<33.2	<26.3	<22.3
Selenium	mg/kg	<13.4	<7.36	<8.38	<7.85	<8.60	<7.15	<11.6	<6.68	<6.75	<7.83	<15.8	<8.13	<8.34	<8.63	<8.37	<7.91	<17.6	<16.2	<10.4	<10.0	<19.7	<13.3	<10.5	<17.9
Silver	mg/kg	<1.67	<1.47	<1.68	<1.57	<1.72	<1.43	<1.45	<1.34	<1.35	<1.57	<1.58	<1.63	<1.67	<1.73	<1.67	<1.58	<2.19	<2.53	<2.59	<2.51	<2.46	<3.32	<2.63	<2.23
Mercury	mg/kg	0.985	0.123	<0.042	<0.042	<0.042	<0.035	<0.037	<0.030	1.03	<0.038	0.06	<0.037	<0.036	<0.041	<0.040	<0.037	<0.033	0.071	0.23	<0.037	<0.038	<0.040	<0.045	<0.038
Metals by Toxicity Characteristic Leaching Procedure (TCLP)																									
Arsenic	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead	mg/L	0.285	0.138	--	--	--	--	--	--	6.89	9.1	10.8	--	--	--	--	--	--	--	15	0.732	--	--	--	--
Selenium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Herbicides																									
2,4,5-T	mg/kg	<0.064	--	--	<0.063	--	--	--	<0.27	<0.059	<0.059	<0.063	<0.062	--	--	--	--	<0.062	<0.054	--	--	--	--	--	--
2,4-D	mg/kg	<0.064	--	--	<0.063	--	--	--	<0.27	<0.059	<0.059	<0.063	<0.062	--	--	--	--	<0.062	<0.054	--	--	--	--	--	--
2,4-DB	mg/kg	<0.064	--	--	<0.063	--	--	--	<0.27	<0.059	<0.059	<0.063	<0.062	--	--	--	--	<0.062	<0.054	--	--	--	--	--	--
Dalapon	mg/kg	<0.77	--	--	<0.76	--	--	--	<3.3	<0.71	<0.71	<0.76	<0.75	--	--	--	--	<0.75	<0.65	--	--	--	--	--	--
Dicamba	mg/kg	<0.064	--	--	<0.063	--	--	--	<0.27	<0.059	<0.059	<0.063	<0.062	--	--	--	--	<0.062	<0.054	--	--	--	--	--	--
Dichlorprop	mg/kg	<0.064	--	--	<0.063	--	--	--	<0.27	<0.059	<0.059	<0.063	<0.062	--	--	--	--	<0.062	<0.054	--	--	--	--	--	--
Dinoseb	mg/kg	<0.38	--	--	<0.38	--	--	--	<1.6	<0.35	<0.36	<0.38	<0.37	--	--	--	--	<0.37	<0.32	--	--	--	--	--	--
MCPA	mg/kg	<15	--	--	<15	--	--	--	<65	<14	<14	<15	<15	--	--	--	--	<15	<13	--	--	--	--	--	--
MCPP	mg/kg	<15	--	--	<15	--	--	--	<65	<14	<14	<15	<15	--	--	--	--	<15	<13	--	--	--	--	--	--
Silvex (2,4,5-TP)	mg/kg	<0.064	--	--	<0.063	--	--	--	<0.27	<0.059	<0.059	<0.063	<0.062	--	--	--	--	<0.062	<0.054	--	--	--	--	--	--
Pesticides																									
4,4'-DDD	mg/kg	<0.011	--	--	<0.0022	--	--	--	<0.018	<0.0099	<0.010	<0.0021	<0.0021	--	--	--	--	<0.011	<0.019	--	--	--	--	--	--
4,4'-DDE	mg/kg	<0.011	--	--	<0.0022	--	--	--	<0.018	<0.0099	<0.010	<0.0021	<0.0021	--	--	--	--	<0.011	<0.019	--	--	--	--	--	--
4,4'-DDT	mg/kg	<0.011	--	--	<0.0022	--	--	--	<0.018	<0.0099	<0.010	<0.0021	<0.0021	--	--	--	--	<0.011	<0.019	--	--	--	--	--	--
Aldrin	mg/kg	<0.011	--	--	<0.0022	--	--	--	<0.018	<0.0099	<0.010	<0.0021	<0.0021	--	--	--	--	<0.011	<0.019	--	--	--	--	--	--
alpha-BHC	mg/kg	<0.011	--	--	<0.0022	--	--	--	<0.018	<0.0099	<0.010	<0.0021	<0.0021	--	--	--	--	<0.011	<0.019	--	--	--	--	--	--
beta-BHC	mg/kg	<0.011	--	--	<0.0022	--	--	--	<0.018	<0.0099	<0.010	<0.0021	<0.0021	--	--	--	--	<0.011	<0.019	--	--	--	--	--	--
Chlordane (technical)	mg/kg	<0.11	--	--	<0.022	--	--	--	<0.18	<0.099	<0.10	<0.021	<0.021	--	--	--	--	<0.11	<0.19	--	--	--	--	--	--
delta-BHC	mg/kg	<0.011	--	--	<0.0022	--	--	--	<0.018	<0.0099	<0.010	<0.0021	<0.0021	--	--	--	--	<0.011	<0.019	--	--	--	--	--	--
Dieldrin	mg/kg	<0.011	--	--	<0.0022	--	--	--	<0.018	<0.0099	<0.010	<0.0021	<0.0021	--	--	--	--	<0.011	<0.019	--	--	--	--	--	--
Endosulfan I	mg/kg	<0.011	--	--	<0.0022	--	--	--	<0.018	<0.0099	<0.010	<0.0021	<0.0021	--	--	--	--	<0.011	<0.019	--	--	--	--	--	--
Endosulfan II	mg/kg	<0.011	--	--	<0.0022	--	--	--	<0.018	<0.0099	<0.010	<0.0021	<0.0021	--	--	--	--	<0.011	<0.019	--	--	--	--	--	--
Endosulfan sulfate	mg/kg	<0.011	--	--	<0.0022	--	--	--	<0.018	<0.0099	<0.010	<0.0021	<0.0021	--	--	--	--	<0.011	<0.019	--	--	--	--	--	--
Endrin	mg/kg	<0.011	--	--	<0.0022	--	--	--	<0.018	<0.0099	<0.010	<0.0021	<0.0021	--	--	--	--	<0.011	<0.019	--	--	--	--	--	--
Endrin ketone	mg/kg	<0.011	--	--	<0.0022	--	--	--	<0.018	<0.0099	<0.010	<0.0021	<0.0021	--	--	--	--	<0.011	<0.019	--	--	--	--	--	--
gamma-BHC (Lindane)	mg/kg	<0.011	--	--	<0.0022	--	--	--	<0.018	<0.0099	<0.010	<0.0021	<0.0021	--	--	--	--	<0.011	<0.019	--	--	--	--	--	--
Heptachlor	mg/kg	<0.011	--	--	<0.0022	--	--	--	<0.018	<0.0099	<0.010	<0.0021	<0.0021	--	--	--	--	<0.011	<0.019	--	--	--	--	--	--
Heptachlor epoxide	mg/kg	<0.011	--	--	<0.0022	--	--	--	<0.018	<0.0099	<0.010	<0.0021	<0.0021	--	--	--	--	<0.011	<0.019	--	--	--	--	--	--
Hexachlorobenzene	mg/kg	<0.011	--	--	<0.0022	--	--	--	<0.018	<0.0099	<0.010	<0.0021	<0.0021	--	--	--	--	<0.011	<0.019	--	--	--	--	--	--
Methoxychlor	mg/kg	<0.011	--	--	<0.0022	--	--	--	<0.018	<0.0099	<0.010	<0.0021	<0.0021	--	--	--	--	<0.011	<0.019	--	--	--	--	--	--
Polychlorinated Biphenyls																									
Aroclor 1016	mg/kg	<0.154	<0.147	<0.158	<0.156	<0.156	<0.143	<0.139	<0.134	<0.135	<0.147	<0.147	<0.161	<0.159	<0.160	<0.157	<0.152	<0.135	<0.133	<0.167	<0.157	<0.152	<0.163	<0.174	<0.140
Aroclor 1221	mg/kg	<0.154	<0.147	<0.158	<0.156	<0.156	<0.143	<0.139	<0.134	<0.135	<0.147	<0.147	<0.161	<0.159	<0.160	<0.157	<0.152	<0.135	<0.133	<0.167	<0.157	<0.152	<0.163	<0.174	<0.140
Aroclor 1232	mg/kg	<0.154	<0.147	<0.158	<0.156	<0.156	<0.143	<0.139	<0.134	<0.135	<0.147	<0.147	<0.161	<0.159	<0.160	<0.157	<0.152	<0.135	<0.133	<0.167	<0.157	<0.152	<0.163	<0.174	<0.140
Aroclor 1242	mg/kg	<0.154	<0.147	<0.158	<0.156	<0.156	<0.143	<0.139	<0.134	<0.135	<0.147	<0.147	<0.161	<0.159	<0.160	<0.157	<0.152	<0.135	<0.133	<0.167	<0.157	<0.152	<0.163	<0.174	<0.140
Aroclor 1248	mg/kg	<0.154	<0.147	<0.158	<0.156	<0.156	<0.143	<0.139	<0.134	<0.135	<0.147	<0.147	<0.161	<0.159	<0.160	<0.157	<0.152	<0.135	<0.133	<0.167	<0.157	<0.152	<0.163	<0.174	<0.140
Aroclor 1254	mg/kg	<0.154	<0.147	<0.158	<0.156	<0.156	<0.143	<0.139	<0.134	0.227	<0.147	<0.147	<0.161	<0.159	<0.160	<0.157	<0.152	<0.135	<0.133	<0.167	<0.157	<0.152	<0.163	<0.174	<0.140
Aroclor 1260	mg/kg	<0.154	<0.147	<0.158	<0.156	<0.156	<0.143	<0.139	<0.134	<0.135	<0.147	<0.147	<0.161	<0.159	<0.160	<0.157	<0.152	<0.135	<0.133	<0.167	<0.157	<0.152	<0.163	<0.174	<0.140
Aroclor 1262	mg/kg	<0.154	<0.147	<0.158	<0.156	<0.156	<0.143	<0.139	<0.134	<0.135	<0.147	<0.147	<0.161	<0.159	<0.160	<0.157	<0.152	<0.135	<0.133	<0.167	<0.157	<0.152	<0.163	<0.174	<0.140
Aroclor 1268	mg/kg	<0.154	<0.147	<0.158	<0.156	<0.156	<0.143	<0.139	<0.134	<0.135	<0.147	<0.147	<0.161	<0.159	<0.160	<0.157	<0.152	<0.135	<0.133	<0.167	<0.157	<0.152	<0.163	<0.174	<0.140
Total PCBs	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	0.227	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Petroleum Hydrocarbons	mg/kg	508	<49.2	<51.0	<45.0	<51.9	<45.0	<44.3	404	791	107	<44.1	<52.2	<51.6	<52.0	<49.3	<48.5	305	72.2	565	<50.6	<50.5	<51.3	<55.8	<45.7
Volatile Organic Compounds (VOCs)																									
1,1,1,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-Chloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane - Screen	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Butanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Isopropyltoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-Pentanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Disulfide	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	G08 G08S02BS04 1501272 Fill 3.3 - 8 1/14/2015	G08 G08S05 1501272 Natural Clay 8 - 10 1/14/2015	G08 G08S06 1501272 Natural Clay 14 - 16 1/14/2015	G08 G08S07 1501272 Natural Clay 19 - 21 1/14/2015	G08 G08S08 1501272 Natural Clay 24 - 26 1/14/2015	G08 G08S09 1501272 Natural Sand/Gravel 29 - 31 1/14/2015	G08 G08S10S11 1501272 Natural Sand/Gravel 34 - 38 1/14/2015	G09 G09S01S02A 1501568 Fill 0 - 3.3 1/30/2015	G09 G09S02BS04A 1501568 Fill 3.3 - 6.6 1/30/2015	G09 G09S04BS05 1501568 Fill 6.6 - 10 1/30/2015	G09 G09S06 1501568 Fill 10 - 12 1/30/2015	G09 G09S07 1501568 Natural Clay 14 - 16 1/30/2015	G09 G09S08 1501568 Natural Clay 19 - 21 1/30/2015	G09 G09S09 1501568 Natural Sand/Gravel 24 - 26 1/30/2015	G09 G09S10 1501568 Natural Sand/Gravel 29 - 31 1/30/2015	G09 G09S11S12 1501568 Natural Clay 34 - 38 1/30/2015	G10 G10S01S02A 1501225 Fill 0 - 3.3 1/13/2015	G10 G10S02BS40A 1501225 Fill 3.3 - 8 1/13/2015	G10 G10S04BS05 1501225 Natural Clay 8 - 10 1/13/2015	G10 G10S06 1501225 Natural Clay 10 - 12 1/13/2015	G10 G10S07 1501225 Natural Clay 14 - 16 1/13/2015	G10 G10S08 1501225 Natural Clay 19 - 21 1/13/2015	G10 G10S09 1501225 Natural Clay 24 - 26 1/13/2015	G10 G10S10 1501225 Natural Sand/Gravel 29 - 31 1/13/2015
Preliminary Disposal Facility Category		Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	Uncontaminated	Uncontaminated	MCP Regulated Type A	MCP Regulated Material Type B-2	MCP Regulated Material Type B-2	MCP Regulated Material Type B-2	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type B-1	Uncontaminated	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type B	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Restricted	Uncontaminated
Chlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Diethyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Di-isopropyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethyl tertiary-butyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
tert-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tertiary-amyl methyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene O	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene P,M	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylenes (Total)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total VOCs	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds - Low Level Analysis																									
1,1,1,2-Tetrachloroethane	mg/kg	<0.0053	<0.0038	<0.0041	<0.0040	<0.0036	<0.0035	<0.0037	<0.0047	<0.0060	<0.0040	<0.0041	<0.0050	<0.0052	<0.0053	<0.0040	<0.0040	<0.0050	<0.0068	<0.0035	<0.0027	<0.0033	<0.0041	<0.0044	<0.0039
1,1,1-Trichloroethane	mg/kg	<0.0053	<0.0038	<0.0041	<0.0040	<0.0036	<0.0035	<0.0037	<0.0047	<0.0060	<0.0040	<0.0041	<0.0050	<0.0052	<0.0053	<0.0040	<0.0040	<0.0050	<0.0068	<0.0035	<0.0027	<0.0033	<0.0041	<0.0044	<0.0039
1,1,2,2-Tetrachloroethane	mg/kg	<0.0021	<0.0015	<0.0016	<0.0016	<0.0014	<0.0014	<0.0015	<0.0019	<0.0024	<0.0016	<0.0016	<0.0020	<0.0021	<0.0021	<0.0016	<0.0016	<0.0020	<0.0027	<0.0014	<0.0011	<0.0013	<0.0016	<0.0018	<0.0015
1,1,2-Trichloroethane	mg/kg	<0.0053	<0.0038	<0.0041	<0.0040	<0.0036	<0.0035	<0.0037	<0.0047	<0.0060	<0.0040	<0.0041	<0.0050	<0.0052	<0.0053	<0.0040	<0.0040	<0.0050	<0.0068	<0.0035	<0.0027	<0.0033	<0.0041	<0.0044	<0.0039
1,1-Dichloroethane	mg/kg	<0.0053	<0.0038	<0.0041	<0.0040	<0.0036	<0.0035	<0.0037	<0.0047	<0.0060	<0.0040	<0.0041	<0.0050	<0.0052	<0.0053	<0.0040	<0.0040	<0.0050	<0.0068	<0.0035	<0.0027	<0.0033	<0.0041	<0.0044	<0.0039
1,1-Dichloroethene	mg/kg	<0.0053	<0.0038	<0.0041	<0.0040	<0.0036	<0.0035	<0.0037	<0.0047	<0.0060	<0.0040	<0.0041	<0.0050	<0.0052	<0.0053	<0.0040	<0.0040	<0.0050	<0.0068	<0.0035	<0.0027	<0.0033	<0.0041	<0.0044	<0.0039
1,1-Dichloropropene	mg/kg	<0.0053	<0.0038	<0.0041	<0.0040	<0.0036	<0.0035	<0.0037	<0.0047	<0.0060	<0.0040	<0.0041	<0.0050	<0.0052	<0.0053	<0.0040	<0.0040	<0.0050	<0.0068	<0.0035	<0.0027	<0.0033	<0.0041	<0.0044	<0.0039
1,2,3-Trichlorobenzene	mg/kg	<0.0053	<0.0038	<0.0041	<0.0040	<0.0036	<0.0035	<0.0037	<0.0047	<0.0060	<0.0040	<0.0041	<0.0050	<0.0052	<0.0053	<0.0040	<0.0040	<0.0050	<0.0068	<0.0035	<0.0027	<0.0033	<0.0041	<0.0044	<0.0039
1,2,3-Trichloropropane	mg/kg	<0.0053	<0.0038	<0.0041	<0.0040	<0.0036	<0.0035	<0.0037	<0.0047	<0.0060	<0.0040	<0.0041	<0.0050	<0.0052	<0.0053	<0.0040	<0.0040	<0.0050	<0.0068	<0.0035	<0.0027	<0.0033	<0.0041	<0.0044	<0.0039
1,2,4-Trichlorobenzene	mg/kg	<0.0053	<0.0038	<0.0041	<0.0040	<0.0036	<0.0035	<0.0037	<0.0047	<0.0060	<0.0040	<0.0041	<0.0050	<0.0052	<0.0053	<0.0040	<0.0040	<0.0050	<0.0068	<0.0035	<0.0027	<0.0033	<0.0041	<0.0044	<0.0039
1,2,4-Trimethylbenzene	mg/kg	<0.0053	<0.0038	<0.0041	<0.0040	<0.0036	<0.0035	<0.0037	<0.0047	<0.0060	<0.0040	<0.0041	<0.0050	<0.0052	<0.0053	<0.0040	<0.0040	<0.0050	<0.0068	<0.0035	<0.0027	<0.0033	<0.0041	<0.0044	<0.0039
1,2-Dibromo-3-Chloropropane	mg/kg	<0.0053	<0.0038	<0.0041	<0.0040	<0.0036	<0.0035	<0.0037	<0.0047	<0.0060	<0.0040	<0.0041	<0.0050	<0.0052	<0.0053	<0.0040	<0.0040	<0.0050	<0.0068	<0.0035	<0.0027	<0.0033	<0.0041	<0.0044	<0.0039
1,2-Dibromoethane	mg/kg	<0.0053	<0.0038	<0.0041	<0.0040	<0.0036	<0.0035	<0.0037	<0.0047	<0.0060	<0.0040	<0.0041	<0.0050	<0.0052	<0.0053	<0.0040	<0.0040	<0.0050	<0.0068	<0.0035	<0.0027	<0.0033	<0.0041	<0.0044	<0.0039
1,2-Dichlorobenzene	mg/kg	<0.0053	<0.0038	<0.0041	<0.0040	<0.0036	<0.0035	<0.0037	<0.0047	<0.0060	<0.0040	<0.0041	<0.0050	<0.0052	<0.0053	<0.0040	<0.0040	<0.0050	<0.0068	<0.0035	<0.0027	<0.0033	<0.0041	<0.0044	<0.0039
1,2-Dichloroethane	mg/kg	<0.0053	<0.0038	<0.0041	<0.0040	<0.0036	<0.0035	<0.0037	<0.0047	<0.0060	<0.0040	<0.0041	<0.0050	<0.0052	<0.0053	<0.0040	<0.0040	<0.0050	<0.0068	<0.0035	<0.0027	<0.0033	<0.0041	<0.0044	<0.0039
1,2-Dichloropropane	mg/kg	<0.0053	<0.0038	<0.0041	<0.0040	<0.0036	<0.0035	<0.0037	<0.0047	<0.0060	<0.0040	<0.0041	<0.0050	<0.0052	<0.0053	<0.0040	<0.0040	<0.0050	<0.0068	<0.0035	<0.0027	<0.0033	<0.0041	<0.0044	<0.0039
1,3,5-Trimethylbenzene	mg/kg	<0.0053	<0.0038	<0.0041	<0.0040	<0.0036	<0.0035	<0.0037	<0.0047	<0.0060	<0.0040	<0.0041	<0.0050	<0.0052	<0.0053	<0.0040	<0.0040	<0.0050	<0.0068	<0.0035	<0.0027	<0.0033	<0.0041	<0.0044	<0.0039
1,3-Dichlorobenzene	mg/kg	<0.0053	<0.0038	<0.0041	<0.0040	<0.0036	<0.0035	<0.0037	<0.0047	<0.0060	<0.0040	<0.0041	<0.0050	<0.0052	<0.0053	<0.0040	<0.0040	<0.0050	<0.0068	<0.0035	<0.0027	<0.0033	<0.0041	<0.0044	<0.0039
1,3-Dichloropropane	mg/kg	<0.0053	<0.0038	<0.0041	<0.0040	<0.0036	<0.0035	<0.0037	<0.0047	<0.0060	<0.0040	<0.0041	<0.0050	<0.0052	<0.0053	<0.0040	<0.0040	<0.0050	<0.0068	<0.0035	<0.0027	<0.0033	<0.0041	<0.0044	<0.0039
1,4-Dichlorobenzene	mg/kg	<0.0053	<0.0038	<0.0041	<0.0040	<0.0036	<0.0035	<0.0037	<0.0047	<0.0060	<0.0040	<0.0041	<0.0050	<0.0052	<0.0053	<0.0040	<0.0040	<0.0050	<0.0068	<0.0035	<0.0027	<0.0033	<0.0041	<0.0044	<0.0039
1,4-Dioxane	mg/kg	<0.106	<0.0751	<0.0822	<0.0795	<0.0717	<0.0693	<0.0731	<0.0941	<0.120	<0.0794	<0.0821	<0.100	<0.104	<0.106	<0.0798	<0.0798	<0.0993	<0.136	<0.0700	<0.0549	<0.0665	<0.0819	<0.0883	<0.0773
2,2-Dichloropropane	mg/kg	<0.0053	<0.0038	<0.0041	<0.0040	<0.0036	<0.0035	<0.0037	<0.0047	<0.0060	<0.0040	<0.0041	<0.0050	<0.0052	<0.0053	<0.0040	<0.0040	<0.0050	<0.0068	<0.0035	<0.0027	<0.0033	<0.0041	<0.0044	<0.0039
2-Butanone	mg/kg	<0.0106	<0.0075	<0.0082	<0.0079	<0.0072	<0.0069	<0.0073	<0.0094	<0.0120	<0.0079	<0.0082	<0.0100	<0.0104	<0.0106	<0.0080	<0.0080	<0.0099	<0.0136	0.0202	<0.0055	<0.0067	<0.0082	<0.0088	<0.0077
2-Chlorotoluene	mg/kg	<0.0053	<0.0038	<0.0041	<0.0040	<0.0036	<0.0035	<0.0037	<0.0047	<0.0060	<0.0040	<0.0041	<0.0050	<0.0052	<0.0053	<0.0040	<0.0040	<0.0050	<0.0068	<0.0035	<0.0027	<0.0033	<0.0041	<0.0044	<0.0039
2-Hexanone	mg/kg	<0.0106	<0.0075	<0.0082	<0.0079	<0.0072	<0.0069	<0.0073	<0.0094	<0.0120	<0.0079	<0.0082	<0.0100	<0.0104	<0.0106	<0.0080	<0.0080	<0.0099	<0.0136	<0.0070	<0.0055	<0.0067	<0.0082	<0.0088	<0.0077
4-Chlorotoluene	mg/kg	<0.0053	<0.0038	<0.0041	<0.0040	<0.0036	<0.0035	<0.0037	<0.0047	<0.0060	<0.0040	<0.0041	<0.0050	<0.0052	<0.0053	<0.0040	<0.0040	<0.0050	<0.0068	<0.0035	<0.0027	<0.0033	<0.0041	<0.0044	<0.0039
4-Isopropyltoluene	mg/kg	<0.0053	<0.0038	<0.0041	<0.0040	<0.0036	<0.0035	<0.0037	<0.0047	<0.0060	<0.0040	<0.0041	<0.0050	<0.0052	<0.0053	<0.0040	<0.0040	<0.0050	<0.0068	<0.0035	<0.0027	<0.0033	<0.0041	<0.0044	<0.0039
4-Methyl-2-Pentanone	mg/kg	<0.0106	<0.0075	<0.0082	<0.0079	<0.0072	<0.0069	<0.0073	<0.0094	<0.0120	<0.0079	<0.0082	<0.0100	<0.0104	<0.0106	<0.0080	<0.0080	<0.0099	<0.0136	<0.0070	<0.0055	<0.0067	<0.0082	<0.0088	<0.0077
Acetone	mg/kg	0.0286	0.0495	<0.0082	<0.0079	<0.0072	<0.0069	<0.0073	0.0231	0.109	0.0267	0.0305	<0.0100	<0.0104	<0.0106	<0.0080	0.0114	<0.0099	<0.0136	0.161	0.0246	0.0235	<0.0082	<0.0088	<0.0077
Benzene	mg/kg	<0.0053	<0.0038	<0.0041	<0.0040	<0.0036	<0.0035	<0.0037	<0.0047	<0.0060	<0.0040	<0.0041	<0.0050	<0.0052	<0.0053	<0.0040	<0.0040	<0.0050	<0.0068	<0.0035	<0.0027	<0.0033	<0.0041	<0.0044	<0.0039
Bromobenzene	mg/kg	<0.0053	<0.0038	<0.0041	<0.0040	<0.0036	<0.0035	<0.0037	<0.0047	<0.0060	<0.0040	<0.0041	<0.0050	<0.0052	<0.0053	<0.0040	<0.0040	<0.0050	<0.0068	<0.0035	<0.0027	<0.0033	<0.0041	<0.0044	<0.0039
Bromochloromethane	mg/kg	<0.0053	<0.0038	<0.0041	<0.0040	<0.0036	<0.0035	<0.0037	<0.0047	<0.0060	<0.0040	<0.0041	<0.0050	<0.0052	<0.0053	<0.0040	<0.0040	<0.0050	<0.0068	<0.0035	<0.0027	<0.0033	<0.0041	<0.0044	<0.0039
Bromodichloromethane	mg/kg	<0.0053	<0.0038	<0.0041	<0.0040	<0.0036	<0.0035	<0.0037	<0.0047	<0.0060	<0.0040	<0.0041	<0.0050	<0.0052	<0.0053	<0.0040	<0.0040	<0.0050	<0.0068	<0.0035	<0.0027	<0.0033	<0.0041	<0.0044	<0.0039
Bromoform	mg/kg	<0.0053	<0.0038	<0.0041	<0.0040	<0.0036	<0.0035	<0.0037	<0.0047	<0.0060	<0.0040	<0.0041	<0.0050	<0.0052	<0.0053	<0.0040	<0.0040	<0.0050	<0.0068	<0.0035	<0.0027	<0.0033	<0.0041	<0.0044	<0.0039
Bromomethane	mg/kg	<0.0106	<0.0075	<0.0082	<0.0079	<0.0072	<0.0069	<0.0073	<0.0094	<0.0120	<0.0079	<0.0082	<0.0100	<0.0104	<0.0106	<0.0080	<0.0080	<0.0099	<0.0136	<0.0070	<0.0055	<0.0067	<0.0082	<0.0088	<0.0077
Carbon Disulfide	mg/kg	<0.0053	<0.0038	<0.0041	<0.0040	<0.0036	<0.0035	<0.0037	<0.0047	<0.0060	<0.0040	<0.0041	<0.0050	<0.0052	<0.0053	<0.0040	<0.0040	<0.0050	<0.0068	0.005	<0.0027	<0.0033	<0.0041	<0.0044	<0.0039
Carbon Tetrachloride	mg/kg	<0.0053	<0.0038	<0.0041	<0.0040	<0.0036	<0.0035	<0.0037	<0.0047	<0.0060	<0.0040	<0.0041	<0.0050	<0.0052	<0.0053	<0.0040	<0.0040	<0.0050	<0.0068	<0.0035	<0.0027	<0.0033	<0.0041	<0.0044	<0.0039
Chlorobenzene	mg/kg	<0.0053	<0.0038	<0.0041	<0.0040	<0.0036	<0.0035	<0.0037	<0.0047	<0.0060	<0.0040	<0.0041	<0.0050	<0.0052	<0.0053	<0.0040	<0.0040	<0.0050	<0.0068	<0.0035	<0.0027	<0.0033	<0.0041	<0.0044	<0.0039
Chloroethane	mg/kg	<0.0106	<0.0075	<0.0082	<0.0079	<0.0072	<0.0069	<0.0073	<0.0094	<0.0120	<0.0079	<0.0082	<0.0100	<0.0104	<0.0106	<0.0080	<0.0080	<0.0099	<0.0136	<0.0070	<0.0055	<0.0067	<0.0082	<0.0088	<0.0077
Chloroform	mg/kg	<0.0053	<0.0038	<0.0041	<0.0040	<0.0036	<0.0035	<0.0037	<0.0047	<0.0060	<0.0040	<0.0041	<0.0050	<0.0052	<0.0053	<0.0040	<0.0040	<0.0050	<0.0068	<0.0035	<0.0027	<0.0033	<0.0041	<0.0044	<0.0039
Chloromethane	mg/kg	<0.0106	<0.0075	<0.0082	<0.0079	<0.0072	<0.0069	<0.0073	<0.0094	<0.0120	<0.0079	<0.0082	<0.0100	<0.0104	<0.0106	<0.0080	<0.0080	<0.0099	<0.0136	<0.0070	<0.0055	<0.0067	<0.0082	<0.0088	<0.0077
cis-1,2-Dichloroethene	mg/kg	<0.0053	<0.0038	<0.0041	<0.0040	<0.0036	<0.0035	<0.0037	<0.0047	<0.0060	<0.0040	<0.0041	<0.0050	<0.0052	<0.0053	<0.0040	<0.0040	<0.0050	<0.0068	<0.0035	<0.0027	<0.0033	<0.0041	<0.0044	<0.0039
cis-1,3-Dichloropropene	mg/kg	<0.0053	<0.0038	<0.0041	<0.0040	<0.0036	<0.0035	<0.0037	<0.0047	<0.0060	<0.0040	<0.0041	<0.0050	<0.0052	<0.0053	<0.0040	<0.0040	<0.0050	<0.0068	<0.0035	<0.0027	<0.0033	<0.0041	<0.0044	<0.0039
Dibromochloromethane	mg/kg	<0.0021	<0.0015	<0.0016	<0.0016	<0.0014	<0.0014	<0.0015	<0.0019	<0.0024	<0.0016	<0.0016	<0.0020	<0.0021	<0.0021	<0.0016	<0.0016	<0.0020	<0.0027	<0.0014	<0.0011	<0.0013	<0.0016	<0.0018	<0.0015
Dibromomethane	mg/kg	<0.0053	<0.0038	<0.0041	<0.0040	<0.0036	<0.0035	<0.0037	<0.0047	<0.0060	<0.0040	<0.0041	<0.0050	<0.0052	<0.0053	<0.0040	<0.0040	<0.0050	<0.0068	<0.0035	<0.0027	<0.0033	<0.0041	<0.0044	<0.0039
Dichlorodifluoromethane	mg/kg	<0.0106	<0.0075	<0.0082	<0.0079	<0.0072	<0.0069	<0.0073	<0.0094	<0.0120	<0.0079	<0.0082	<0.0100	<0.0104	<0.0106	<0.0080	<0.0080	<0.0099	<0.0136	<0.0070	<0.0055	<0.0067	<0.0082	<0.0088	<0.0077
Diethyl Ether	mg/kg	<0.0053	<0.0038	<0.0041	<0.0040	<0.0036	<0.0035	<0.0037	<0.0047	<0.0060	<0.0040	<0.0041	<0.0050	<0.0052	<0.0053	<0.0040	<0.0040	<0.0050	<0.0068	<0.0035	<0.0027	<0.0033	<0.0041	<0.0044	<0.0039
Di-isopropyl ether	mg/kg	<0.0053	<0.0038	<0.0041	<0.0040	<0.0036	<0.0035	<0.0037	<0.0047	<0.0060	<0.0040	<0.0041	<0.0050	<0.0052	<0.0053	<0.0040	<0.0040	<0.0050	<0.0068	<0.0035	<0.0027	<0.0033	<0.0041	<0.0044	<0.0039
Ethyl tertiary-butyl ether	mg/kg	<0.0053	<0.0038	<0.0041	<0.0040	<0.0036	<0.0035	<0.0037	<0.0047	<0.0060	<0.0040	<0.0041	<0.0050	<0.0052	<0.0053	<0.0040	<0.0040	<0.0050	<0.0068	<0.0035	<0.0027	<0.0033	<0.0041	<0.0044	<0.0039
Ethylbenzene	mg/kg	<0.0053	<0.0038	<0.0041	<0.0040	<0.0036	<0.0035	<0.0037	<0.0047	<0.0060	<0.0040	<0.0041	<0.0050	<0.0052	<0.0053	<0.0040	<0.0040	<0.0050	<0.0068	<0.0035	<0.0027	<0.0033	<0.0041	<0.0044	<0.0039
Hexachlorobutadiene	mg/kg	<0.0053	<0.0038	<0.0041	<0.0040	<0.0036	<0.0035	<0.0037	<0.0047	<0.0060	<0.0040	<0.0041	<0.0050	<0.0052	<0.0053	<0.0040	<0.0040	<0.0050	<0.0068	<0.0035	<0.0027	<0.0033	<0.0041	<0.0044	<0.0039
Isopropylbenzene	mg/kg	<0.0053	<0.0038	<0.0041	<0.0040	<0.0036	<0.0035	<0.0037	<0.0047	<0.0060	<0.0040	<0.0041	<0.0050	<0.0052	<0.0053	<0.0040	<0.0040	<0.0050	<0.0068	<0.0035	<0.0027	<0.0033	<0.0041	<0.0044	<0.0039
Methyl tert-Butyl Ether	mg/kg	<0.0053	<0.0038	<0.0041	<0.0040	<0.0036	<0.0035	<0.0037	<0.0047	<0.0060	<0.0040	<0.0041	<0.0050	<0.0052	<0.0053	<0.0040	<0.0040	<0.0050	<0.0068	<0.0035	<0.0027	<0.0033	<0.0041	<0.0044	<0.0039
Methylene Chloride	mg/kg	<0.0106	<0.0075	<0.0082	<0.0079	<0.0072	<0.0069	<0.0073	<0.0094	<0.0120	<0.0079	<0.0082	<0.0100	<0.0104	<0.0106	<0.0080	<0.0080	<0.0099	<0.0136	<0.0070	<0.0055	<0.0067	<0.0082	<0.0088	<0.0077
Naphthalene	mg/kg	<0.0053	<0.0038	<0.0041	<0.0040	<0.0036	<0.0035	<0.0037	<0.0047	<0.0060	<0.0040	<0.0041	<0.0050	<0.0052	<0.0053	<0.0040	<0.0040	<0.0050	<0.0068	<0.0035	<0.0027	<0.0033	<0.0041	<0.0044	<0.0039
n-Butylbenzene	mg/kg	<0.0053	<0.0038	<0.0041	<0.0040	<0.0036	<0.0035	<0.0037	<0.0047	<0.0060	<0.0040	<0.0041	<0.0050	<0.0052	<0.0053	<0.0040	<0.0040	<0.0050	<0.0068	<0.0035	<0.0027	<0.0033	<0.0041	<0.0044	<0.0039
n-Propylbenzene	mg/kg	<0.0053	<0.0038	<0.0041	<0.0040	<0.0036	<0.0035	<0.0037	<0.0047	<0.0060	<0.0040	<0.0041	<0.0050	<0.0052	<0.0053	<0.0040	<0.0040	<0.0050	<0.0068	<0.0035	<0.0027	<0.0033	<0.0041	<0.0044	<0.0039
sec-Butylbenzene	mg/kg	<0.0053	<0.0038	<0.0041	<0.0040	<0.0036	<0.0035	<0.0037	<0.0047	<0.0060	<0.0040	<0.0041	<0.0050	<0.0052	<0.0053	<0.0040	<0.0040	<0.0050	<0.0068	<0.0035	<0.0027	<0.0033	<0.0041	<0.0044	<0.0039

Table 1
Soil Precharacterization Data

Wynn Resort Casino
Everett, Massachusetts

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	G08 G08S02BS04 1501272 Fill 3.3 - 8 1/14/2015	G08 G08S05 1501272 Natural Clay 8 - 10 1/14/2015	G08 G08S06 1501272 Natural Clay 14 - 16 1/14/2015	G08 G08S07 1501272 Natural Clay 19 - 21 1/14/2015	G08 G08S08 1501272 Natural Clay 24 - 26 1/14/2015	G08 G08S09 1501272 Natural Sand/Gravel 29 - 31 1/14/2015	G08 G08S10S11 1501272 Natural Sand/Gravel 34 - 38 1/14/2015	G09 G09S01S02A 1501568 Fill 0 - 3.3 1/30/2015	G09 G09S02BS04A 1501568 Fill 3.3 - 6.6 1/30/2015	G09 G09S04BS05 1501568 Fill 6.6 - 10 1/30/2015	G09 G09S06 1501568 Fill 10 - 12 1/30/2015	G09 G09S07 1501568 Natural Clay 14 - 16 1/30/2015	G09 G09S08 1501568 Natural Clay 19 - 21 1/30/2015	G09 G09S09 1501568 Natural Sand/Gravel 24 - 26 1/30/2015	G09 G09S10 1501568 Natural Sand/Gravel 29 - 31 1/30/2015	G09 G09S11S12 1501568 Natural Clay 34 - 38 1/30/2015	G10 G10S01S02A 1501225 Fill 0 - 3.3 1/13/2015	G10 G10S02BS40A 1501225 Fill 3.3 - 8 1/13/2015	G10 G10S04BS05 1501225 Natural Clay 8 - 10 1/13/2015	G10 G10S06 1501225 Natural Clay 10 - 12 1/13/2015	G10 G10S07 1501225 Natural Clay 14 - 16 1/13/2015	G10 G10S08 1501225 Natural Clay 19 - 21 1/13/2015	G10 G10S09 1501225 Natural Clay 24 - 26 1/13/2015	G10 G10S10 1501225 Natural Sand/Gravel 29 - 31 1/13/2015
Preliminary Disposal Facility Category		Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	Uncontaminated	Uncontaminated	MCP Regulated Type A	MCP Regulated Material Type B-2	MCP Regulated Material Type B-2	MCP Regulated Material Type B-2	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type B-1	Uncontaminated	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type B	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Restricted	Uncontaminated
Styrene	mg/kg	<0.0053	<0.0038	<0.0041	<0.0040	<0.0036	<0.0035	<0.0037	<0.0047	<0.0060	<0.0040	<0.0041	<0.0050	<0.0052	<0.0053	<0.0040	<0.0040	<0.0050	<0.0068	<0.0035	<0.0027	<0.0033	<0.0041	<0.0044	<0.0039
tert-Butylbenzene	mg/kg	<0.0053	<0.0038	<0.0041	<0.0040	<0.0036	<0.0035	<0.0037	<0.0047	<0.0060	<0.0040	<0.0041	<0.0050	<0.0052	<0.0053	<0.0040	<0.0040	<0.0050	<0.0068	<0.0035	<0.0027	<0.0033	<0.0041	<0.0044	<0.0039
Tertiary-amyl methyl ether	mg/kg	<0.0053	<0.0038	<0.0041	<0.0040	<0.0036	<0.0035	<0.0037	<0.0047	<0.0060	<0.0040	<0.0041	<0.0050	<0.0052	<0.0053	<0.0040	<0.0040	<0.0050	<0.0068	<0.0035	<0.0027	<0.0033	<0.0041	<0.0044	<0.0039
Tetrachloroethene	mg/kg	<0.0053	<0.0038	<0.0041	<0.0040	<0.0036	<0.0035	<0.0037	<0.0047	<0.0060	<0.0040	<0.0041	<0.0050	<0.0052	<0.0053	<0.0040	<0.0040	<0.0050	<0.0068	<0.0035	<0.0027	<0.0033	<0.0041	<0.0044	<0.0039
Tetrahydrofuran	mg/kg	<0.0053	<0.0038	<0.0041	<0.0040	<0.0036	<0.0035	<0.0037	<0.0047	<0.0060	<0.0040	<0.0041	<0.0050	<0.0052	<0.0053	<0.0040	<0.0040	<0.0050	<0.0068	<0.0035	<0.0027	<0.0033	<0.0041	<0.0044	<0.0039
Toluene	mg/kg	<0.0053	<0.0038	<0.0041	<0.0040	<0.0036	<0.0035	<0.0037	<0.0047	<0.0060	<0.0040	<0.0041	<0.0050	<0.0052	<0.0053	<0.0040	<0.0040	<0.0050	<0.0068	<0.0035	<0.0027	<0.0033	<0.0041	<0.0044	<0.0039
trans-1,2-Dichloroethene	mg/kg	<0.0053	<0.0038	<0.0041	<0.0040	<0.0036	<0.0035	<0.0037	<0.0047	<0.0060	<0.0040	<0.0041	<0.0050	<0.0052	<0.0053	<0.0040	<0.0040	<0.0050	<0.0068	<0.0035	<0.0027	<0.0033	<0.0041	<0.0044	<0.0039
trans-1,3-Dichloropropene	mg/kg	<0.0053	<0.0038	<0.0041	<0.0040	<0.0036	<0.0035	<0.0037	<0.0047	<0.0060	<0.0040	<0.0041	<0.0050	<0.0052	<0.0053	<0.0040	<0.0040	<0.0050	<0.0068	<0.0035	<0.0027	<0.0033	<0.0041	<0.0044	<0.0039
Trichloroethene	mg/kg	<0.0053	<0.0038	<0.0041	<0.0040	<0.0036	<0.0035	<0.0037	<0.0047	<0.0060	<0.0040	<0.0041	<0.0050	<0.0052	<0.0053	<0.0040	<0.0040	<0.0050	<0.0068	<0.0035	<0.0027	<0.0033	<0.0041	<0.0044	<0.0039
Trichlorofluoromethane	mg/kg	<0.0053	<0.0038	<0.0041	<0.0040	<0.0036	<0.0035	<0.0037	<0.0047	<0.0060	<0.0040	<0.0041	<0.0050	<0.0052	<0.0053	<0.0040	<0.0040	<0.0050	<0.0068	<0.0035	<0.0027	<0.0033	<0.0041	<0.0044	<0.0039
Vinyl Chloride	mg/kg	<0.0106	<0.0075	<0.0082	<0.0079	<0.0072	<0.0069	<0.0073	<0.0094	<0.0120	<0.0079	<0.0082	<0.0100	<0.0104	<0.0106	<0.0080	<0.0080	<0.0099	<0.0136	<0.0070	<0.0055	<0.0067	<0.0082	<0.0088	<0.0077
Xylene O	mg/kg	<0.0053	<0.0038	<0.0041	<0.0040	<0.0036	<0.0035	<0.0037	<0.0047	<0.0060	<0.0040	<0.0041	<0.0050	<0.0052	<0.0053	<0.0040	<0.0040	<0.0050	<0.0068	<0.0035	<0.0027	<0.0033	<0.0041	<0.0044	<0.0039
Xylene P,M	mg/kg	<0.0106	<0.0075	<0.0082	<0.0079	<0.0072	<0.0069	<0.0073	<0.0094	<0.0120	<0.0079	<0.0082	<0.0100	<0.0104	<0.0106	<0.0080	<0.0080	<0.0099	<0.0136	<0.0070	<0.0055	<0.0067	<0.0082	<0.0088	<0.0077
Xylenes (Total)	mg/kg	<0.0106	<0.0075	<0.0082	<0.0079	<0.0072	<0.0069	<0.0073	<0.0094	<0.0120	<0.0079	<0.0082	<0.0100	<0.0104	<0.0106	<0.0080	<0.0080	<0.0099	<0.0136	<0.0070	<0.0055	<0.0067	<0.0082	<0.0088	<0.0077
Total VOCs (Low Level)	mg/kg	0.0286	0.0495	ND	ND	ND	ND	ND	0.0231	0.109	0.0267	0.0305	ND	ND	ND	ND	0.0114	ND	ND	0.1862	0.0246	0.0235	ND	ND	ND
Semi-Volatile Organic Compounds																									
1,2,4-Trichlorobenzene	mg/kg	<0.986	<1.03	<1.04	<1.10	<1.07	<0.994	<0.948	<4.40	<4.35	<0.930	<0.970	<1.05	<1.05	<1.01	<1.03	<1.03	<0.883	<0.989	<1.11	<1.07	<1.05	<1.08	<1.05	<0.945
1,2-Dichlorobenzene	mg/kg	<0.986	<1.03	<1.04	<1.10	<1.07	<0.994	<0.948	<4.40	<4.35	<0.930	<0.970	<1.05	<1.05	<1.01	<1.03	<1.03	<0.883	<0.989	<1.11	<1.07	<1.05	<1.08	<1.05	<0.945
1,3-Dichlorobenzene	mg/kg	<0.986	<1.03	<1.04	<1.10	<1.07	<0.994	<0.948	<4.40	<4.35	<0.930	<0.970	<1.05	<1.05	<1.01	<1.03	<1.03	<0.883	<0.989	<1.11	<1.07	<1.05	<1.08	<1.05	<0.945
1,4-Dichlorobenzene	mg/kg	<0.495	<0.519	<0.523	<0.550	<0.535	<0.498	<0.476	<2.21	<2.18	<0.466	<0.486	<0.528	<0.529	<0.506	<0.516	<0.515	<0.443	<0.496	<0.559	<0.535	<0.528	<0.542	<0.529	<0.474
2,4,5-Trichlorophenol	mg/kg	<0.986	<1.03	<1.04	<1.10	<1.07	<0.994	<0.948	<4.40	<4.35	<0.930	<0.970	<1.05	<1.05	<1.01	<1.03	<1.03	<0.883	<0.989	<1.11	<1.07	<1.05	<1.08	<1.05	<0.945
2,4,6-Trichlorophenol	mg/kg	<0.986	<1.03	<1.04	<1.10	<1.07	<0.994	<0.948	<4.40	<4.35	<0.930	<0.970	<1.05	<1.05	<1.01	<1.03	<1.03	<0.883	<0.989	<1.11	<1.07	<1.05	<1.08	<1.05	<0.945
2,4-Dichlorophenol	mg/kg	<0.986	<1.03	<1.04	<1.10	<1.07	<0.994	<0.948	<4.40	<4.35	<0.930	<0.970	<1.05	<1.05	<1.01	<1.03	<1.03	<0.883	<0.989	<1.11	<1.07	<1.05	<1.08	<1.05	<0.945
2,4-Dimethylphenol	mg/kg	<0.986	<1.03	<1.04	<1.10	<1.07	<0.994	<0.948	<4.40	<4.35	<0.930	<0.970	<1.05	<1.05	<1.01	<1.03	<1.03	<0.883	<0.989	<1.11	<1.07	<1.05	<1.08	<1.05	<0.945
2,4-Dinitrophenol	mg/kg	<4.95	<5.19	<5.23	<5.50	<5.35	<4.98	<4.76	<22.1	<21.8	<4.66	<4.86	<5.28	<5.29	<5.06	<5.16	<5.15	<4.43	<4.96	<5.59	<5.35	<5.28	<5.42	<5.29	<4.74
2,4-Dinitrotoluene	mg/kg	<0.986	<1.03	<1.04	<1.10	<1.07	<0.994	<0.948	<1.10	<1.09	<0.930	<0.970	<1.05	<1.05	<1.01	<1.03	<1.03	<0.883	<0.989	<1.11	<1.07	<1.05	<1.08	<1.05	<0.945
2,6-Dinitrotoluene	mg/kg	<0.986	<1.03	<1.04	<1.10	<1.07	<0.994	<0.948	<4.40	<4.35	<0.930	<0.970	<1.05	<1.05	<1.01	<1.03	<1.03	<0.883	<0.989	<1.11	<1.07	<1.05	<1.08	<1.05	<0.945
2-Chloronaphthalene	mg/kg	<0.986	<1.03	<1.04	<1.10	<1.07	<0.994	<0.948	<4.40	<4.35	<0.930	<0.970	<1.05	<1.05	<1.01	<1.03	<1.03	<0.883	<0.989	<1.11	<1.07	<1.05	<1.08	<1.05	<0.945
2-Chlorophenol	mg/kg	<0.986	<1.03	<1.04	<1.10	<1.07	<0.994	<0.948	<4.40	<4.35	<0.930	<0.970	<1.05	<1.05	<1.01	<1.03	<1.03	<0.883	<0.989	<1.11	<1.07	<1.05	<1.08	<1.05	<0.945
2-Methylnaphthalene	mg/kg	<0.986	<1.03	<1.04	<1.10	<1.07	<0.994	<0.948	<4.40	<4.35	<0.930	<0.970	<1.05	<1.05	<1.01	<1.03	<1.03	<0.883	<0.989	<1.11	<1.07	<1.05	<1.08	<1.05	<0.945
2-Methylphenol	mg/kg	<0.986	<1.03	<1.04	<1.10	<1.07	<0.994	<0.948	<4.40	<4.35	<0.930	<0.970	<1.05	<1.05	<1.01	<1.03	<1.03	<0.883	<0.989	<1.11	<1.07	<1.05	<1.08	<1.05	<0.945
2-Nitrophenol	mg/kg	<0.986	<1.03	<1.04	<1.10	<1.07	<0.994	<0.948	<4.40	<4.35	<0.930	<0.970	<1.05	<1.05	<1.01	<1.03	<1.03	<0.883	<0.989	<1.11	<1.07	<1.05	<1.08	<1.05	<0.945
3,3'-Dichlorobenzidine	mg/kg	<1.98	<2.07	<2.09	<2.20	<2.14	<1.99	<1.90	<8.82	<8.71	<1.86	<1.94	<2.11	<2.11	<2.02	<2.06	<2.06	<1.77	<1.98	<2.23	<2.14	<2.11	<2.16	<2.11	<1.89
3+4-Methylphenol	mg/kg	<1.98	<2.07	<2.09	<2.20	<2.14	<1.99	<1.90	<8.82	<8.71	<1.86	<1.94	<2.11	<2.11	<2.02	<2.06	<2.06	<1.77	<1.98	<2.23	<2.14	<2.11	<2.16	<2.11	<1.89
4-Bromophenyl-phenylether	mg/kg	<0.986	<1.03	<1.04	<1.10	<1.07	<0.994	<0.948	<4.40	<4.35	<0.930	<0.970	<1.05	<1.05	<1.01	<1.03	<1.03	<0.883	<0.989	<1.11	<1.07	<1.05	<1.08	<1.05	<0.945
4-Chloroaniline	mg/kg	<1.98	<2.07	<2.09	<2.20	<2.14	<1.99	<1.90	<2.21	<2.18	<1.86	<1.94	<2.11	<2.11	<2.02	<2.06	<2.06	<1.77	<1.98	<2.23	<2.14	<2.11	<2.16	<2.11	<1.89
4-Nitrophenol	mg/kg	<4.95	<5.19	<5.23	<5.50	<5.35	<4.98	<4.76	<22.1	<21.8	<4.66	<4.86	<5.28	<5.29	<5.06	<5.16	<5.15	<4.43	<4.96	<5.59	<5.35	<5.28	<5.42	<5.29	<4.74
Acenaphthene	mg/kg	<0.986	<1.03	<1.04	<1.10	<1.07	<0.994	<0.948	<4.40	<4.35	<0.930	<0.970	<1.05	<1.05	<1.01	<1.03	<1.03	<0.883	<0.989	<1.11	<1.07	<1.05	<1.08	<1.05	<0.945
Acenaphthylene	mg/kg	<0.986	<1.03	<1.04	<1.10	<1.07	<0.994	<0.948	<4.40	<4.35	<0.930	<0.970	<1.05	<1.05	<1.01	<1.03	<1.03	<0.883	<0.989	<1.11	<1.07	<1.05	<1.08	<1.05	<0.945
Acetophenone	mg/kg	<1.98	<2.07	<2.09	<2.20	<2.14	<1.99	<1.90	<8.82	<8.71	<1.86	<1.94	<2.11	<2.11	<2.02	<2.06	<2.06	<1.77	<1.98	<2.23	<2.14	<2.11	<2.16	<2.11	<1.89
Aniline	mg/kg	<4.95	<5.19	<5.23	<5.50	<5.35	<4.98	<4.76	<22.1	<21.8	<4.66	<4.86	<5.28	<5.29	<5.06	<5.16	<5.15	<4.43	<4.96	<5.59	<5.35	<5.28	<5.42	<5.29	<4.74
Anthracene	mg/kg	<0.986	<1.03	<1.04	<1.10	<1.07	<0.994	<0.948	<4.40	<4.35	<0.930	<0.970	<1.05	<1.05	<1.01	<1.03	<1.03	<0.883	<0.989	<1.11	<1.07	<1.05	<1.08	<1.05	<0.945
Azobenzene	mg/kg	<0.986	<1.03	<1.04	<1.10	<1.07	<0.994	<0.948	<4.40	<4.35	<0.930	<0.970	<1.05	<1.05	<1.01	<1.03	<1.03	<0.883	<0.989	<1.11	<1.07	<1.05	<1.08	<1.05	<0.945
Benzo(a)anthracene	mg/kg	1.39	<1.03	<1.04	<1.10	<1.07	<0.994	<0.948	<4.40	<4.35	<0.930	<0.970	<1.05	<1.05	<1.01	<1.03	<1.03	<0.883	<0.989	<1.11	<1.07	<1.05	<1.08	<1.05	<0.945
Benzo(a)pyrene	mg/kg	1.31	<0.519	<0.523	<0.550	<0.535	<0.498	<0.476	<2.21	<2.18	<0.466	<0.486	<0.528	<0.529	<0.506	<0.516	<0.515	<0.443	<0.496	<0.559	<0.535	<0.528	<0.542	<0.529	<0.474
Benzo(b)fluoranthene	mg/kg	1.92	<1.03	<1.04	<1.10	<1.07	<0.994	<0.948	<4.40	<4.35	<0.930	<0.970	<1.05	<1.05	<1.01	<1.03	<1.03	<0.883	<0.989	<1.11	<1.07	<1.05	<1.08	<1.05	<0.945
Benzo(g,h,i)perylene	mg/kg	<0.986	<1.03	<1.04	<1.10	<1.07	<0.994	<0.948	<4.40	<4.35	<0.930	<0.970	<1.05	<1.05	<1.01	<1.03	<1.03	<0.883	<0.989	<1.11	<1.07	<1.05	<1.08	<1.05	<0.945
Benzo(k)fluoranthene	mg/kg	<0.986	<1.03	<1.04	<1.10	<1.07	<0.994	<0.948	<4.40	<4.35	<0.930	<0.970	<1.05	<1.05	<1.01	<1.03	<1.03	<0.883	<0.989	<1.11	<1.07	<1.05	<1.08	<1.05	<0.945
bis(2-Chloroethoxy)methane	mg/kg	<0.986	<1.03	<1.04	<1.10	<1.07	<0.994	<0.948	<4.40	<4.35	<0.930	<0.970	<1.05	<1.05	<1.01	<1.03	<1.03	<0.883	<0.989	<1.11	<1.07	<1.05	<1.08	<1.05	<0.945
bis(2-Chloroethyl)ether	mg/kg	<0.495	<0.519	<0.523	<0.550	<0.535	<0.498	<0.476	<0.436	<0.431	<0.466	<0.486	<0.528	<0.529	<0.506	<0.516	<0.515	<0.443	<0.496	<0.559	<0.535	<0.528	<0.542	<0.529	<0.474
bis(2-chloroisopropyl)Ether	mg/kg	<0.495	<0.519	<0.523	<0.550	<0.535	<0.498	<0.476	<0.436	<0.431	<0.466	<0.486	<0.528	<0.529	<0.506	<0.516	<0.515	<0.443	<0.496	<0.559	<0.535	<0.528	<0.542	<0.529	<0.474
bis(2-Ethylhexyl)phthalate	mg/kg	<0.986	1.22	<1.04	<1.10	<1.07	<0.994	<0.948	<4.40	<4.35	<0.930	<0.970	<1.05	<1.05	<1.01	<1.03	<1.03	<0.883	<0.989	<1.11	<1.07	<1.05	<1.08	<1.05	<0.945
Butylbenzylphthalate	mg/kg	<0.986	<1.03	<1.04	<1.10	<1.07	<0.994	<0.948	<4.40	<4.35	<0.930	<0.970	<1.05	<1.05	<1.01	<1.03	<1.03	<0.883	<0.989	<1.11	<1.07	<1.05	<1.08	<1.05	<0.945
Chrysene	mg/kg	1.51	<0.519	<0.523	<0.550	<0.535	<0.498	<0.476	<2.21	<2.18	<0.466	<0.486	<0.528	<0.529	<0.506	<0.516	<0.515	<0.443	<0.496	<0.559	<0.535	<0.528	<0.542	<0.529	<0.474
Dibenzo(a,h)Anthracene	mg/kg	<0.495	<0.519	<0.523	<0.550	<0.535	<0.498	<0.476	<2.21	<2.18	<0.466	<0.486	<0.528	<0.529	<0.506	<0.516	<0.515	<0.443	<0.496	<0.559	<0.535	<0.528	<0.542	<0.529	<0.474
Dibenzofuran	mg/kg	<0.986	<1.03	<1.04	<1.10	<1.07	<0.994	<0.948	<4.40	<4.35	<0.930	<0.970	<1.05	<1.05	<1.01	<1.03	<1.03	<0.883	<0.989	<1.11	<1.07	<1.05	<1.08	<1.05	<0.945
Diethylphthalate	mg/kg	<0.986	<1.03	<1.04	<1.10	<1.07	<0.994	<0.948	<4.40	<4.35	<0.930	<0.970	<1.05	<1.05	<1.01	<1.03	<1.03	<0.883	<0.989	<1.11	<1.07	<1.05	<1.08	<1.05	<0.945
Dimethylphthalate	mg/kg	<0.986	<1.03	<1.04	<1.10	<1.07	<0.994	<0.948	<4.40	<4.35	<0.930	<0.970	<1.05	<1.05	<1.01	<1.03	<1.03	<0.883	<0.989	<1.11	<1.07	<1.05	<1.08	<1.05	<0.945
Di-n-butylphthalate	mg/kg	<0.986	<1.03	<1.04	<1.10	<1.07	<0.994	<0.948	<4.40	<4.35	<0.930	<0.970	<1.05	<1.05	<1.01	<1.03	<1.03	<0.883	<0.989	<1.11	<1.07	<1.05	<1.08	<1.05	<0.945
Di-n-octylphthalate	mg/kg	<0.986	<1.03	<1.04	<1.10	<1.07	<0.994	<0.948	<4.40	<4.35	<0.930	<0.970	<1.05	<1.05	<1.01	<1.03	<1.03	<0.883	<0.989	<1.11	<1.07	<1.05	<1.08	<1.05	<0.945
Fluoranthene	mg/kg	2.63	<1.03	<1.04	<1.10	<1.07	<0.994	<0.948	<4.40	<4.35	0.941	<0.970	<1.05	<1.05	<1.01	<1.03	<1.03	<0.883	<0.989	1.31	<1.07	<1.05	<1.08	<1.05	<0.945
Fluorene	mg/kg	<0.986	<1.03	<1.04	<1.10	<1.07	<0.994	<0.948	<4.40	<4.35	<0.930	<0.970	<1.05	<1.05	<1.01	<1.03	<1.03	<0.883	<0.989	<1.11	<1.07	<1.05	<1.08	<1.05	<0.945
Hexachlorobenzene	mg/kg	<0.495	<0.519	<0.523	<0.550	<0.535	<0.498	<0.476	<1.10	<1.09	<0.466	<0.486	<0.528	<0.529	<0.506	<0.516	<0.515	<0.443	<0.496	<0.559	<0.535	<0.528	<0.542	<0.529	<0.474
Hexachlorobutadiene	mg/kg	<0.986	<1.03	<1.04	<1.10	<1.07	<0.994	<0.948	<4.40	<4.35	<0.930	<0.970	<1.05	<1.05	<1.01	<1.03	<1.03	<0.883	<0.989	<1.11	<1.07	<1.05	<1.08	<1.05	<0.945
Hexachloroethane	mg/kg	<0.986	<1.03	<1.04	<1.10	<1.07	<0.994	<0.948	<2.21	<2.18	<0.930	<0.970	<1.05	<1.05	<1.01	<1.03	<1.03	<0.883	<0.989	<1.11	<1.07	<1.05	<1.08	<1.05	<0.945
Indeno(1,2,3-cd)Pyrene	mg/kg	<0.986	<1.03	<1.04	<1.10	<1.07	<0.994	<0.948	<4.40	<4.35	<0.930	<0.970	<1.05	<1.05	<1.01	<1.03	<1.03	<0.883	<0.989	<1.11	<1.07	<1.05	<1.08	<1.05	<0.945
Isophorone	mg/kg	<0.986	<1.03	<1.04	<1.10	<1.07	<0.994	<0.948	<4.40	<4.35	<0.930	<0.970	<1.05	<1.05	<1.01	<1.03	<1.03	<0.883	<0.989	<1.11	<1.07	<1.05	<1.08	<1.05	<0.945
Naphthalene	mg/kg	<0.986	<1.03	<1.04	<1.10	<1.07	<0.994	<0.948	<4.40	<4.35	<0.930	<0.970	<1.05	<1.05	<1.01	<1.03	<1.03	<0.883	<0.989	1.16	<1.07	<1.05	<1.08	<1.05	<0.945
Nitrobenzene	mg/kg	<0.986	<1.03	<1.04	<1.10	<1.07	<0.994	<0.948	<4.40	<4.35	<0.930	<0.970	<1.05	<1.05	<1.01	<1.03	<1.03	<0.883	<0.989	<1.11	<1.07	<1.05	<1.08	<1.05	<0.945
N-Nitrosodimethylamine	mg/kg	<0.986	<1.03	<1.04	<1.10	<1.07	<0.994	<0.948	<4.40	<4.35	<0.930	<0.970	<1.05	<1.05	<1.01	<1.03	<1.03	<0.883	<0.989	<1.11	<1.07	<1.05	<1.08	<1.05	<0.945
Pentachlorophenol	mg/kg	<4.95	<5.19	<5.23	<5.50	<5.35	<4.98	<4.76	<4.40	<4.35	<4.66	<4.86	<5.28	<5.29	<5.06	<5.16	<5.15	<4.43	<4.96	<5.59	<5.35	<5.28	<5.42	<5.29	<4.74
Phenanthrene	mg/kg	1.47	<1.03	<1.04	<1.10	<1.07	<0.994	<0.948	<4.40	<4.35	1.05	<0.970	<1.05	<1.05	<1.01	<1.03	<1.03	<0.883	<0.989	<1.11	<1.07	<1.05	<1.08	<1.05	<0.945
Phenol	mg/kg	<0.986	<1.03	<1.04	<1.10	<1.07	<0.994	<0.948	<4.40	<4.35	<0.930	<0.970	<1.05	<1.05	<1.01	<1.03	<1.03	<0.883	<0.989	<1.11	<1.07	<1.05	<1.08	<1.05	<0.945
Pyrene	mg/kg	1.61	<1.03	<1.04	<1.10	<1.07	<0.994	<0.948	<4.40	<4.35	<0.930	<0.970	<1.05	<1.05	<1.01	<1.03	<1.03	<0.883	<0.989	<1.11	<1.07	<1.05	<1.08	<1.05	<0.945
Total SVOCs	mg/kg	11.84	1.22	ND	ND	ND	ND	ND	ND	ND	1.991	ND	ND	ND	ND	ND	ND	ND	ND	2.47	ND	ND	ND	ND	ND
Classic Chemistry																									
Corrosivity (pH)	S.U.	7.62	6.04	7.12	7.21	7.21	7.32	7.5	7.06	8.91	7.02	6.85	6.95	6.94	6.98	6.98	6.66	8	9.64	6.28	4.11	4.74	6.24	6.75	5.96
Conductivity	umhos/cm	1400	1640	2870	4930	5050	6330	4450	202	266	894	925	3010	2510	4450	5340	3290	96	225	653	1380	1140	3250	1150	980
Flashpoint	°F	>200	--	--	--	--	--	--	>200	>200	>200	>200	--	--	--	--	--	>200	>200	--	--	--	--	--	--
Reactive Cyanide	mg/kg	<2.0	--	--	--	--	--	--	<2.0	<2.0	<2.0	<2.0	--	--	--	--	--	<2.0	<2.0	--	--	--	--	--	--
Reactive Sulfide	mg/kg	<2.0	--	--	--	--	--	--	<2.0	<2.0	<2.0	<2.0	--	--	--	--	--	<2.0	<2.0	--	--	--	--	--	--

Table 1
Soil Precharacterization Data

Wynn Resort Casino
Everett, Massachusetts

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	G10 G10S11S12 1501225 Natural Sand/Gravel 38 - 39 1/13/2015	G11 G11S01S02A 1502230 Fill 0 - 3.3 2/17/2015	G11 G11S02BS04A 1502230 Fill 3.3 - 6.6 2/17/2015	G11 G11S04BS05 1502230 Fill 6.6 - 10 2/17/2015	G11 G11S06 1502230 Natural Clay 10 - 12 2/17/2015	G11 G11S07 1502256 Natural Clay 14 - 16 2/18/2015	G11 G11S08 1502256 Natural Clay 19 - 21 2/18/2015	G11 G11S09 1502256 Natural Sand/Gravel 24 - 26 2/18/2015	G11 G11S10 1502256 Natural Clay 29 - 31 2/18/2015	G11 G11S11S12 1502256 Natural Sand/Gravel 34 - 38 2/18/2015	G12 G12S01S02A 1501197 Fill 0 - 3.3 1/12/2015	G12 G12S02BS04A 1501197 Fill 3.3 - 6.6 1/12/2015	G12 G12S04BS05 1501197 Fill 6.6 - 10 1/12/2015	G12 G12S06 1501197 Natural Clay 10 - 12 1/12/2015	G12 G12S07 1501225 Natural Clay 14 - 16 1/13/2015	G12 G12S08 1501225 Natural Clay 19 -21 1/13/2015	G12 G12S09 1501225 Natural Sand/Gravel 24 - 26 1/13/2015	G12 G12S10 1501225 Natural Sand/Gravel 29 - 31 1/13/2015	G12 G12S11S12 1501225 Natural Sand/Gravel 34 - 38 1/13/2015	G13 G13S01S02A 1502256 Fill 0 - 3.3 2/18/2015	G13 G13S02BS04A 1502256 Fill 3.3 - 6.6 2/18/2015	G13 G13S04BS05 1502256 Fill 6.6 - 10 2/18/2015	G13 G13S06 1502256 Natural Clay 12 - 14 2/18/2015	G13 G13S07 1502289 Natural Clay 19 - 21 2/19/2015
Preliminary Disposal Facility Category		MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	MCP Restricted	MCP Regulated Type A	Uncontaminated	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Restricted
RCRA 8 Metals	**Units**																								
Arsenic	mg/kg	<14.2	7.65	23.5	37.2	15.4	11.6	8.62	<7.49	<8.59	18.4	<11.9	<12.0	91.4	18.6	15.3	15.2	<13.0	<12.9	14.8	<6.47	<7.06	66.6	12.4	12.8
Barium	mg/kg	46.4	21.7	63	54.2	94.3	83.9	75.8	20.3	11.4	8.43	19.1	31.7	70.2	108	120	163	13.7	21.3	29.3	23.5	30.3	149	120	118
Cadmium	mg/kg	<2.85	<1.36	9.5	9.09	<1.43	<1.62	<1.72	<1.50	<1.72	<1.57	<2.37	<2.39	<2.31	<2.94	<3.01	16.2	<2.59	<2.57	<2.37	<1.29	<1.41	8.71	<1.47	<1.66
Chromium	mg/kg	26.4	27.5	35.8	31.6	52.2	47.4	35.8	13.5	10.4	8.21	18.8	25.5	23.2	65	60.7	64.8	9.72	11.6	20.4	22.1	22.9	31.9	48.1	56.1
Lead	mg/kg	<28.5	13.9	2310	1780	34.6	<16.2	<17.2	<15.0	<17.2	<15.7	<23.7	<23.9	383	<29.4	<30.1	<27.8	<25.9	<25.7	<23.7	<12.9	48.4	1670	16.9	17.4
Selenium	mg/kg	<11.4	<6.82	<7.00	<7.68	<7.13	<8.12	<8.61	<7.49	<8.59	<7.83	<19.0	<19.2	<9.23	<11.8	<12.0	<11.1	<16.6	<16.5	<18.9	<6.47	<7.06	18	<7.37	<8.28
Silver	mg/kg	<2.85	<1.36	5.76	4.85	<1.43	<1.62	<1.72	<1.50	<1.72	<1.57	<2.37	<2.39	<2.31	<2.94	<3.01	<2.78	<2.59	<2.57	<2.37	<1.29	<1.41	4.05	<1.47	<4.14
Mercury	mg/kg	<0.037	<0.034	1.06	0.215	<0.037	<0.042	<0.041	<0.038	<0.038	<0.036	<0.034	<0.035	1.93	<0.036	<0.039	<0.037	<0.040	<0.039	<0.038	<0.033	0.102	0.893	<0.042	<0.038
Metals by Toxicity Characteristic Leaching Procedure (TCLP)																									
Arsenic	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead	mg/L	--	--	4.87	2.4	--	--	--	--	--	--	--	--	<0.050	--	--	--	--	--	--	--	--	1.92	--	--
Selenium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Herbicides																									
2,4,5-T	mg/kg	--	<0.047	<0.28	<0.062	--	--	--	--	--	--	<0.056	<0.056	<0.057	--	--	--	--	--	--	<0.046	<0.053	<0.059	--	--
2,4-D	mg/kg	--	<0.047	<0.28	<0.062	--	--	--	--	--	--	<0.056	<0.056	<0.057	--	--	--	--	--	--	<0.046	<0.053	<0.059	--	--
2,4-DB	mg/kg	--	<0.047	<0.28	<0.062	--	--	--	--	--	--	<0.056	<0.056	<0.057	--	--	--	--	--	--	<0.046	<0.053	<0.059	--	--
Dalapon	mg/kg	--	<0.57	<3.4	<0.75	--	--	--	--	--	--	<0.67	<0.67	<0.68	--	--	--	--	--	--	<0.56	<0.63	<0.71	--	--
Dicamba	mg/kg	--	<0.047	<0.28	<0.062	--	--	--	--	--	--	<0.056	<0.056	<0.057	--	--	--	--	--	--	<0.046	<0.053	<0.059	--	--
Dichlorprop	mg/kg	--	<0.047	<0.28	<0.062	--	--	--	--	--	--	<0.056	<0.056	<0.057	--	--	--	--	--	--	<0.046	<0.053	<0.059	--	--
Dinoseb	mg/kg	--	<0.28	<1.7	<0.37	--	--	--	--	--	--	<0.34	<0.33	<0.34	--	--	--	--	--	--	<0.28	<0.32	<0.35	--	--
MCPA	mg/kg	--	<11	<68	<15	--	--	--	--	--	--	<13	<13	<14	--	--	--	--	--	--	<11	<13	<14	--	--
MCPP	mg/kg	--	<11	<68	<15	--	--	--	--	--	--	<13	<13	<14	--	--	--	--	--	--	<11	<13	<14	--	--
Silvex (2,4,5-TP)	mg/kg	--	<0.047	<0.28	<0.062	--	--	--	--	--	--	<0.056	<0.056	<0.057	--	--	--	--	--	--	<0.046	<0.053	<0.059	--	--
Pesticides																									
4,4'-DDD	mg/kg	--	<0.0017	<0.0040	<0.0045	--	--	--	--	--	--	<0.0019	<0.0040	<0.010	--	--	--	--	--	--	<0.0035	<0.0092	<0.0044	--	--
4,4'-DDE	mg/kg	--	<0.0017	<0.0040	<0.0045	--	--	--	--	--	--	<0.0019	<0.0040	<0.010	--	--	--	--	--	--	<0.0035	<0.0092	<0.0044	--	--
4,4'-DDT	mg/kg	--	<0.0017	<0.0040	<0.0045	--	--	--	--	--	--	<0.0019	<0.0040	<0.010	--	--	--	--	--	--	<0.0035	<0.0092	<0.0044	--	--
Aldrin	mg/kg	--	<0.0017	<0.0040	<0.0045	--	--	--	--	--	--	<0.0019	<0.0040	<0.010	--	--	--	--	--	--	<0.0035	<0.0092	<0.0044	--	--
alpha-BHC	mg/kg	--	<0.0017	<0.0040	<0.0045	--	--	--	--	--	--	<0.0019	<0.0040	<0.010	--	--	--	--	--	--	<0.0035	<0.0092	<0.0044	--	--
beta-BHC	mg/kg	--	<0.0017	<0.0040	<0.0045	--	--	--	--	--	--	<0.0019	<0.0040	<0.010	--	--	--	--	--	--	<0.0035	<0.0092	<0.0044	--	--
Chlordane (technical)	mg/kg	--	<0.017	<0.040	<0.045	--	--	--	--	--	--	<0.019	<0.040	<0.10	--	--	--	--	--	--	<0.035	<0.092	<0.044	--	--
delta-BHC	mg/kg	--	<0.0017	<0.0040	<0.0045	--	--	--	--	--	--	<0.0019	<0.0040	<0.010	--	--	--	--	--	--	<0.0035	<0.0092	<0.0044	--	--
Dieldrin	mg/kg	--	<0.0017	<0.0040	<0.0045	--	--	--	--	--	--	<0.0019	<0.0040	<0.010	--	--	--	--	--	--	<0.0035	<0.0092	<0.0044	--	--
Endosulfan I	mg/kg	--	<0.0017	<0.0040	<0.0045	--	--	--	--	--	--	<0.0019	<0.0040	<0.010	--	--	--	--	--	--	<0.0035	<0.0092	<0.0044	--	--
Endosulfan II	mg/kg	--	<0.0017	<0.0040	<0.0045	--	--	--	--	--	--	<0.0019	<0.0040	<0.010	--	--	--	--	--	--	<0.0035	<0.0092	<0.0044	--	--
Endosulfan sulfate	mg/kg	--	<0.0017	<0.0040	<0.0045	--	--	--	--	--	--	<0.0019	<0.0040	<0.010	--	--	--	--	--	--	<0.0035	<0.0092	<0.0044	--	--
Endrin	mg/kg	--	<0.0017	<0.0040	<0.0045	--	--	--	--	--	--	<0.0019	<0.0040	<0.010	--	--	--	--	--	--	<0.0035	<0.0092	<0.0044	--	--
Endrin ketone	mg/kg	--	<0.0017	<0.0040	<0.0045	--	--	--	--	--	--	<0.0019	<0.0040	<0.010	--	--	--	--	--	--	<0.0035	<0.0092	<0.0044	--	--
gamma-BHC (Lindane)	mg/kg	--	<0.0017	<0.0040	<0.0045	--	--	--	--	--	--	<0.0019	<0.0040	<0.010	--	--	--	--	--	--	<0.0035	<0.0092	<0.0044	--	--
Heptachlor	mg/kg	--	<0.0017	<0.0040	<0.0045	--	--	--	--	--	--	<0.0019	<0.0040	<0.010	--	--	--	--	--	--	<0.0035	<0.0092	<0.0044	--	--
Heptachlor epoxide	mg/kg	--	<0.0017	<0.0040	<0.0045	--	--	--	--	--	--	<0.0019	<0.0040	<0.010	--	--	--	--	--	--	<0.0035	<0.0092	<0.0044	--	--
Hexachlorobenzene	mg/kg	--	<0.0017	<0.0040	<0.0045	--	--	--	--	--	--	<0.0019	<0.0040	<0.010	--	--	--	--	--	--	<0.0035	<0.0092	<0.0044	--	--
Methoxychlor	mg/kg	--	<0.0017	<0.0040	<0.0045	--	--	--	--	--	--	<0.0019	<0.0040	<0.010	--	--	--	--	--	--	<0.0035	<0.0092	<0.0044	--	--
Polychlorinated Biphenyls																									
Aroclor 1016	mg/kg	<0.152	<0.129	<0.145	<0.157	<0.144	<0.159	<0.159	<0.146	<0.149	<0.145	<0.128	<0.134	<0.151	<0.151	<0.157	<0.167	<0.149	<0.145	<0.147	<0.129	<0.131	<0.155	<0.149	<0.156
Aroclor 1221	mg/kg	<0.152	<0.129	<0.145	<0.157	<0.144	<0.159	<0.159	<0.146	<0.149	<0.145	<0.128	<0.134	<0.151	<0.151	<0.157	<0.167	<0.149	<0.145	<0.147	<0.129	<0.131	<0.155	<0.149	<0.156
Aroclor 1232	mg/kg	<0.152	<0.129	<0.145	<0.157	<0.144	<0.159	<0.159	<0.146	<0.149	<0.145	<0.128	<0.134	<0.151	<0.151	<0.157	<0.167	<0.149	<0.145	<0.147	<0.129	<0.131	<0.155	<0.149	<0.156
Aroclor 1242	mg/kg	<0.152	<0.129	<0.145	<0.157	<0.144	<0.159	<0.159	<0.146	<0.149	<0.145	<0.128	<0.134	<0.151	<0.151	<0.157	<0.167	<0.149	<0.145	<0.147	<0.129	<0.131	<0.155	<0.149	<0.156
Aroclor 1248	mg/kg	<0.152	<0.129	<0.145	<0.157	<0.144	<0.159	<0.159	<0.146	<0.149	<0.145	<0.128	<0.134	<0.151	<0.151	<0.157	<0.167	<0.149	<0.145	<0.147	<0.129	<0.131	<0.155	<0.149	<0.156
Aroclor 1254	mg/kg	<0.152	<0.129	0.288	<0.157	<0.144	<0.159	<0.159	<0.146	<0.149	<0.145	<0.128	<0.134	<0.151	<0.151	<0.157	<0.167	<0.149	<0.145	<0.147	<0.129	<0.131	<0.155	<0.149	<0.156
Aroclor 1260	mg/kg	<0.152	<0.129	<0.145	<0.157	<0.144	<0.159	<0.159	<0.146	<0.149	<0.145	<0.128	<0.134	<0.151	<0.151	<0.157	<0.167	<0.149	<0.145	<0.147	<0.129	<0.131	<0.155	<0.149	<0.156
Aroclor 1262	mg/kg	<0.152	<0.129	<0.145	<0.157	<0.144	<0.159	<0.159	<0.146	<0.149	<0.145	<0.128	<0.134	<0.151	<0.151	<0.157	<0.167	<0.149	<0.145	<0.147	<0.129	<0.131	<0.155	<0.149	<0.156
Aroclor 1268	mg/kg	<0.152	<0.129	<0.145	<0.157	<0.144	<0.159	<0.159	<0.146	<0.149	<0.145	<0.128	<0.134	<0.151	<0.151	<0.157	<0.167	<0.149	<0.145	<0.147	<0.129	<0.131	<0.155	<0.149	<0.156
Total PCBs	mg/kg	ND	ND	0.288	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Petroleum Hydrocarbons	mg/kg	<47.8	<41.4	181	192	<46.3	<46.8	<51.6	<45.3	<51.0	<43.1	<40.7	43.2	294	<50.8	<50.3	<53.2	<44.9	<46.9	<43.3	51.2	425	178	<49.5	<50.6
Volatile Organic Compounds (VOCs)																									
1,1,1,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-Chloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane - Screen	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Butanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Isopropyltoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-Pentanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Disulfide	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	G10 G10S11S12 1501225 Natural Sand/Gravel 38 - 39 1/13/2015	G11 G11S01S02A 1502230 Fill 0 - 3.3 2/17/2015	G11 G11S02BS04A 1502230 Fill 3.3 - 6.6 2/17/2015	G11 G11S04BS05 1502230 Fill 6.6 - 10 2/17/2015	G11 G11S06 1502230 Natural Clay 10 - 12 2/17/2015	G11 G11S07 1502256 Natural Clay 14 - 16 2/18/2015	G11 G11S08 1502256 Natural Clay 19 - 21 2/18/2015	G11 G11S09 1502256 Natural Sand/Gravel 24 - 26 2/18/2015	G11 G11S10 1502256 Natural Clay 29 - 31 2/18/2015	G11 G11S11S12 1502256 Natural Sand/Gravel 34 - 38 2/18/2015	G12 G12S01S02A 1501197 Fill 0 - 3.3 1/12/2015	G12 G12S02BS04A 1501197 Fill 3.3 - 6.6 1/12/2015	G12 G12S04BS05 1501197 Fill 6.6 - 10 1/12/2015	G12 G12S06 1501197 Natural Clay 10 - 12 1/12/2015	G12 G12S07 1501225 Natural Clay 14 - 16 1/13/2015	G12 G12S08 1501225 Natural Clay 19 -21 1/13/2015	G12 G12S09 1501225 Natural Sand/Gravel 24 - 26 1/13/2015	G12 G12S10 1501225 Natural Sand/Gravel 29 - 31 1/13/2015	G12 G12S11S12 1501225 Natural Sand/Gravel 34 - 38 1/13/2015	G13 G13S01S02A 1502256 Fill 0 - 3.3 2/18/2015	G13 G13S02BS04A 1502256 Fill 3.3 - 6.6 2/18/2015	G13 G13S04BS05 1502256 Fill 6.6 - 10 2/18/2015	G13 G13S06 1502256 Natural Clay 12 - 14 2/18/2015	G13 G13S07 1502289 Natural Clay 19 - 21 2/19/2015
Preliminary Disposal Facility Category		MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	MCP Restricted	MCP Regulated Type A	Uncontaminated	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Restricted
Chlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Diethyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Di-isopropyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethyl tertiary-butyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
tert-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tertiary-amyl methyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene O	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene P,M	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylenes (Total)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total VOCs	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds - Low Level Analysis																									
1,1,1,2-Tetrachloroethane	mg/kg	<0.0042	<0.0069	<0.0057	<0.0063	<0.0044	<0.0039	<0.0042	<0.0035	<0.0035	<0.0038	<0.0041	<0.0055	<0.0048	<0.0045	<0.0037	<0.0033	<0.0033	<0.0029	<0.0036	<0.0047	<0.0042	<0.0054	<0.0049	<0.0038
1,1,1-Trichloroethane	mg/kg	<0.0042	<0.0069	<0.0057	<0.0063	<0.0044	<0.0039	<0.0042	<0.0035	<0.0035	<0.0038	<0.0041	<0.0055	<0.0048	<0.0045	<0.0037	<0.0033	<0.0033	<0.0029	<0.0036	<0.0047	<0.0042	<0.0054	<0.0049	<0.0038
1,1,2,2-Tetrachloroethane	mg/kg	<0.0017	<0.0028	<0.0023	<0.0025	<0.0018	<0.0016	<0.0017	<0.0014	<0.0014	<0.0015	<0.0016	<0.0022	<0.0019	<0.0018	<0.0015	<0.0013	<0.0013	<0.0012	<0.0014	<0.0019	<0.0017	<0.0022	<0.0019	<0.0015
1,1,2-Trichloroethane	mg/kg	<0.0042	<0.0069	<0.0057	<0.0063	<0.0044	<0.0039	<0.0042	<0.0035	<0.0035	<0.0038	<0.0041	<0.0055	<0.0048	<0.0045	<0.0037	<0.0033	<0.0033	<0.0029	<0.0036	<0.0047	<0.0042	<0.0054	<0.0049	<0.0038
1,1-Dichloroethane	mg/kg	<0.0042	<0.0069	<0.0057	<0.0063	<0.0044	<0.0039	<0.0042	<0.0035	<0.0035	<0.0038	<0.0041	<0.0055	<0.0048	<0.0045	<0.0037	<0.0033	<0.0033	<0.0029	<0.0036	<0.0047	<0.0042	<0.0054	<0.0049	<0.0038
1,1-Dichloroethene	mg/kg	<0.0042	<0.0069	<0.0057	<0.0063	<0.0044	<0.0039	<0.0042	<0.0035	<0.0035	<0.0038	<0.0041	<0.0055	<0.0048	<0.0045	<0.0037	<0.0033	<0.0033	<0.0029	<0.0036	<0.0047	<0.0042	<0.0054	<0.0049	<0.0038
1,1-Dichloropropene	mg/kg	<0.0042	<0.0069	<0.0057	<0.0063	<0.0044	<0.0039	<0.0042	<0.0035	<0.0035	<0.0038	<0.0041	<0.0055	<0.0048	<0.0045	<0.0037	<0.0033	<0.0033	<0.0029	<0.0036	<0.0047	<0.0042	<0.0054	<0.0049	<0.0038
1,2,3-Trichlorobenzene	mg/kg	<0.0042	<0.0069	<0.0057	<0.0063	<0.0044	<0.0039	<0.0042	<0.0035	<0.0035	<0.0038	<0.0041	<0.0055	<0.0048	<0.0045	<0.0037	<0.0033	<0.0033	<0.0029	<0.0036	<0.0047	<0.0042	<0.0054	<0.0049	<0.0038
1,2,3-Trichloropropane	mg/kg	<0.0042	<0.0069	<0.0057	<0.0063	<0.0044	<0.0039	<0.0042	<0.0035	<0.0035	<0.0038	<0.0041	<0.0055	<0.0048	<0.0045	<0.0037	<0.0033	<0.0033	<0.0029	<0.0036	<0.0047	<0.0042	<0.0054	<0.0049	<0.0038
1,2,4-Trichlorobenzene	mg/kg	<0.0042	<0.0069	<0.0057	<0.0063	<0.0044	<0.0039	<0.0042	<0.0035	<0.0035	<0.0038	<0.0041	<0.0055	<0.0048	<0.0045	<0.0037	<0.0033	<0.0033	<0.0029	<0.0036	<0.0047	<0.0042	<0.0054	<0.0049	<0.0038
1,2,4-Trimethylbenzene	mg/kg	<0.0042	<0.0069	<0.0057	<0.0063	<0.0044	<0.0039	<0.0042	<0.0035	<0.0035	<0.0038	<0.0041	<0.0055	<0.0048	<0.0045	<0.0037	<0.0033	<0.0033	<0.0029	<0.0036	<0.0047	<0.0042	<0.0054	<0.0049	<0.0038
1,2-Dibromo-3-Chloropropane	mg/kg	<0.0042	<0.0069	<0.0057	<0.0063	<0.0044	<0.0039	<0.0042	<0.0035	<0.0035	<0.0038	<0.0041	<0.0055	<0.0048	<0.0045	<0.0037	<0.0033	<0.0033	<0.0029	<0.0036	<0.0047	<0.0042	<0.0054	<0.0049	<0.0038
1,2-Dibromoethane	mg/kg	<0.0042	<0.0069	<0.0057	<0.0063	<0.0044	<0.0039	<0.0042	<0.0035	<0.0035	<0.0038	<0.0041	<0.0055	<0.0048	<0.0045	<0.0037	<0.0033	<0.0033	<0.0029	<0.0036	<0.0047	<0.0042	<0.0054	<0.0049	<0.0038
1,2-Dichlorobenzene	mg/kg	<0.0042	<0.0069	<0.0057	<0.0063	<0.0044	<0.0039	<0.0042	<0.0035	<0.0035	<0.0038	<0.0041	<0.0055	<0.0048	<0.0045	<0.0037	<0.0033	<0.0033	<0.0029	<0.0036	<0.0047	<0.0042	<0.0054	<0.0049	<0.0038
1,2-Dichloroethane	mg/kg	<0.0042	<0.0069	<0.0057	<0.0063	<0.0044	<0.0039	<0.0042	<0.0035	<0.0035	<0.0038	<0.0041	<0.0055	<0.0048	<0.0045	<0.0037	<0.0033	<0.0033	<0.0029	<0.0036	<0.0047	<0.0042	<0.0054	<0.0049	<0.0038
1,2-Dichloropropane	mg/kg	<0.0042	<0.0069	<0.0057	<0.0063	<0.0044	<0.0039	<0.0042	<0.0035	<0.0035	<0.0038	<0.0041	<0.0055	<0.0048	<0.0045	<0.0037	<0.0033	<0.0033	<0.0029	<0.0036	<0.0047	<0.0042	<0.0054	<0.0049	<0.0038
1,3,5-Trimethylbenzene	mg/kg	<0.0042	<0.0069	<0.0057	<0.0063	<0.0044	<0.0039	<0.0042	<0.0035	<0.0035	<0.0038	<0.0041	<0.0055	<0.0048	<0.0045	<0.0037	<0.0033	<0.0033	<0.0029	<0.0036	<0.0047	<0.0042	<0.0054	<0.0049	<0.0038
1,3-Dichlorobenzene	mg/kg	<0.0042	<0.0069	<0.0057	<0.0063	<0.0044	<0.0039	<0.0042	<0.0035	<0.0035	<0.0038	<0.0041	<0.0055	<0.0048	<0.0045	<0.0037	<0.0033	<0.0033	<0.0029	<0.0036	<0.0047	<0.0042	<0.0054	<0.0049	<0.0038
1,3-Dichloropropane	mg/kg	<0.0042	<0.0069	<0.0057	<0.0063	<0.0044	<0.0039	<0.0042	<0.0035	<0.0035	<0.0038	<0.0041	<0.0055	<0.0048	<0.0045	<0.0037	<0.0033	<0.0033	<0.0029	<0.0036	<0.0047	<0.0042	<0.0054	<0.0049	<0.0038
1,4-Dichlorobenzene	mg/kg	<0.0042	<0.0069	<0.0057	<0.0063	<0.0044	<0.0039	<0.0042	<0.0035	<0.0035	<0.0038	<0.0041	<0.0055	<0.0048	<0.0045	<0.0037	<0.0033	<0.0033	<0.0029	<0.0036	<0.0047	<0.0042	<0.0054	<0.0049	<0.0038
1,4-Dioxane	mg/kg	<0.0839	<0.138	<0.114	<0.125	<0.0883	<0.0785	<0.0850	<0.0707	<0.0707	<0.0767	<0.0810	<0.110	<0.0950	<0.0895	<0.0737	<0.0663	<0.0653	<0.0582	<0.0713	<0.0947	<0.0836	<0.108	<0.0973	<0.0769
2,2-Dichloropropane	mg/kg	<0.0042	<0.0069	<0.0057	<0.0063	<0.0044	<0.0039	<0.0042	<0.0035	<0.0035	<0.0038	<0.0041	<0.0055	<0.0048	<0.0045	<0.0037	<0.0033	<0.0033	<0.0029	<0.0036	<0.0047	<0.0042	<0.0054	<0.0049	<0.0038
2-Butanone	mg/kg	<0.0084	<0.0138	<0.0114	<0.0125	<0.0088	<0.0079	<0.0085	<0.0071	<0.0071	<0.0077	<0.0081	<0.0110	<0.0095	<0.0090	<0.0074	<0.0066	<0.0065	<0.0058	<0.0071	<0.0095	<0.0084	<0.0108	<0.0097	<0.0077
2-Chlorotoluene	mg/kg	<0.0042	<0.0069	<0.0057	<0.0063	<0.0044	<0.0039	<0.0042	<0.0035	<0.0035	<0.0038	<0.0041	<0.0055	<0.0048	<0.0045	<0.0037	<0.0033	<0.0033	<0.0029	<0.0036	<0.0047	<0.0042	<0.0054	<0.0049	<0.0038
2-Hexanone	mg/kg	<0.0084	<0.0138	<0.0114	<0.0125	<0.0088	<0.0079	<0.0085	<0.0071	<0.0071	<0.0077	<0.0081	<0.0110	<0.0095	<0.0090	<0.0074	<0.0066	<0.0065	<0.0058	<0.0071	<0.0095	<0.0084	<0.0108	<0.0097	<0.0077
4-Chlorotoluene	mg/kg	<0.0042	<0.0069	<0.0057	<0.0063	<0.0044	<0.0039	<0.0042	<0.0035	<0.0035	<0.0038	<0.0041	<0.0055	<0.0048	<0.0045	<0.0037	<0.0033	<0.0033	<0.0029	<0.0036	<0.0047	<0.0042	<0.0054	<0.0049	<0.0038
4-Isopropyltoluene	mg/kg	<0.0042	<0.0069	<0.0057	<0.0063	<0.0044	<0.0039	<0.0042	<0.0035	<0.0035	<0.0038	<0.0041	<0.0055	<0.0048	<0.0045	<0.0037	<0.0033	<0.0033	<0.0029	<0.0036	<0.0047	<0.0042	<0.0054	<0.0049	<0.0038
4-Methyl-2-Pentanone	mg/kg	<0.0084	<0.0138	<0.0114	<0.0125	<0.0088	<0.0079	<0.0085	<0.0071	<0.0071	<0.0077	<0.0081	<0.0110	<0.0095	<0.0090	<0.0074	<0.0066	<0.0065	<0.0058	<0.0071	<0.0095	<0.0084	<0.0108	<0.0097	<0.0077
Acetone	mg/kg	0.0107	0.0199	0.0784	0.108	<0.0088	<0.0079	<0.0085	0.0102	<0.0071	0.0233	<0.0081	<0.0110	0.0298	0.0326	0.0118	0.0168	0.0408	0.0078	0.0104	0.0139	<0.0084	0.0639	0.0192	<0.0077
Benzene	mg/kg	<0.0042	<0.0069	<0.0057	<0.0063	<0.0044	<0.0039	<0.0042	<0.0035	<0.0035	<0.0038	<0.0041	<0.0055	<0.0048	<0.0045	<0.0037	<0.0033	<0.0033	<0.0029	<0.0036	<0.0047	<0.0042	0.0069	0.0059	<0.0038
Bromobenzene	mg/kg	<0.0042	<0.0069	<0.0057	<0.0063	<0.0044	<0.0039	<0.0042	<0.0035	<0.0035	<0.0038	<0.0041	<0.0055	<0.0048	<0.0045	<0.0037	<0.0033	<0.0033	<0.0029	<0.0036	<0.0047	<0.0042	<0.0054	<0.0049	<0.0038
Bromochloromethane	mg/kg	<0.0042	<0.0069	<0.0057	<0.0063	<0.0044	<0.0039	<0.0042	<0.0035	<0.0035	<0.0038	<0.0041	<0.0055	<0.0048	<0.0045	<0.0037	<0.0033	<0.0033	<0.0029	<0.0036	<0.0047	<0.0042	<0.0054	<0.0049	<0.0038
Bromodichloromethane	mg/kg	<0.0042	<0.0069	<0.0057	<0.0063	<0.0044	<0.0039	<0.0042	<0.0035	<0.0035	<0.0038	<0.0041	<0.0055	<0.0048	<0.0045	<0.0037	<0.0033	<0.0033	<0.0029	<0.0036	<0.0047	<0.0042	<0.0054	<0.0049	<0.0038
Bromoform	mg/kg	<0.0042	<0.0069	<0.0057	<0.0063	<0.0044	<0.0039	<0.0042	<0.0035	<0.0035	<0.0038	<0.0041	<0.0055	<0.0048	<0.0045	<0.0037	<0.0033	<0.0033	<0.0029	<0.0036	<0.0047	<0.0042	<0.0054	<0.0049	<0.0038
Bromomethane	mg/kg	<0.0084	<0.0138	<0.0114	<0.0125	<0.0088	<0.0079	<0.0085	<0.0071	<0.0071	<0.0077	<0.0081	<0.0110	<0.0095	<0.0090	<0.0074	<0.0066	<0.0065	<0.0058	<0.0071	<0.0095	<0.0084	<0.0108	<0.0097	<0.0077
Carbon Disulfide	mg/kg	<0.0042	<0.0069	<0.0057	<0.0063	<0.0044	<0.0039	<0.0042	<0.0035	<0.0035	<0.0038	<0.0041	<0.0055	<0.0048	<0.0045	<0.0037	<0.0033	<0.0033	<0.0029	<0.0036	<0.0047	<0.0042	<0.0054	<0.0049	<0.0038
Carbon Tetrachloride	mg/kg	<0.0042	<0.0069	<0.0057	<0.0063	<0.0044	<0.0039	<0.0042	<0.0035	<0.0035	<0.0038	<0.0041	<0.0055	<0.0048	<0.0045	<0.0037	<0.0033	<0.0033	<0.0029	<0.0036	<0.0047	<0.0042	<0.0054	<0.0049	<0.0038
Chlorobenzene	mg/kg	<0.0042	<0.0069	<0.0057	<0.0063	<0.0044	<0.0039	<0.0042	<0.0035	<0.0035	<0.0038	<0.0041	<0.0055	<0.0048	<0.0045	<0.0037	<0.0033	<0.0033	<0.0029	<0.0036	<0.0047	<0.0042	<0.0054	<0.0049	<0.0038
Chloroethane	mg/kg	<0.0084	<0.0138	<0.0114	<0.0125	<0.0088	<0.0079	<0.0085	<0.0071	<0.0071	<0.0077	<0.0081	<0.0110	<0.0095	<0.0090	<0.0074	<0.0066	<0.0065	<0.0058	<0.0071	<0.0095	<0.0084	<0.0108	<0.0097	<0.0077
Chloroform	mg/kg	<0.0042	<0.0069	<0.0057	<0.0063	<0.0044	<0.0039	<0.0042	<0.0035	<0.0035	<0.0038	<0.0041	<0.0055	<0.0048	<0.0045	<0.0037	<0.0033	<0.0033	<0.0029	<0.0036	<0.0047	<0.0042	<0.0054	<0.0049	<0.0038
Chloromethane	mg/kg	<0.0084	<0.0138	<0.0114	<0.0125	<0.0088	<0.0079	<0.0085	<0.0071	<0.0071	<0.0077	<0.0081	<0.0110	<0.0095	<0.0090	<0.0074	<0.0066	<0.0065	<0.0058	<0.0071	<0.0095	<0.0084	<0.0108	<0.0097	<0.0077
cis-1,2-Dichloroethene	mg/kg	<0.0042	<0.0069	<0.0057	<0.0063	<0.0044	<0.0039	<0.0042	<0.0035	<0.0035	<0.0038	<0.0041	<0.0055	<0.0048	<0.0045	<0.0037	<0.0033	<0.0033	<0.0029	<0.0036	<0.0047	<0.0042	<0.0054	<0.0049	<0.0038
cis-1,3-Dichloropropene	mg/kg	<0.0042	<0.0069	<0.0057	<0.0063	<0.0044	<0.0039	<0.0042	<0.0035	<0.0035	<0.0038	<0.0041	<0.0055	<0.0048	<0.0045	<0.0037	<0.0033	<0.0033	<0.0029	<0.0036	<0.0047	<0.0042	<0.0054	<0.0049	<0.0038
Dibromochloromethane	mg/kg	<0.0017	<0.0028	<0.0023	<0.0025	<0.0018	<0.0016	<0.0017	<0.0014	<0.0014	<0.0015	<0.0016	<0.0022	<0.0019	<0.0018	<0.0015	<0.0013	<0.0013	<0.0012	<0.0014	<0.0019	<0.0017	<0.0022	<0.0019	<0.0015
Dibromomethane	mg/kg	<0.0042	<0.0069	<0.0057	<0.0063	<0.0044	<0.0039	<0.0042	<0.0035	<0.0035	<0.0038	<0.0041	<0.0055	<0.0048	<0.0045	<0.0037	<0.0033	<0.0033	<0.0029	<0.0036	<0.0047	<0.0042	<0.0054	<0.0049	<0.0038
Dichlorodifluoromethane	mg/kg	<0.0084	<0.0138	<0.0114	<0.0125	<0.0088	<0.0079	<0.0085	<0.0071	<0.0071	<0.0077	<0.0081	<0.0110	<0.0095	<0.0090	<0.0074	<0.0066	<0.0065	<0.0058	<0.0071	<0.0095	<0.0084	<0.0108	<0.0097	<0.0077
Diethyl Ether	mg/kg	<0.0042	<0.0069	<0.0057	<0.0063	<0.0044	<0.0039	<0.0042	<0.0035	<0.0035	<0.0038	<0.0041	<0.0055	<0.0048	<0.0045	<0.0037	<0.0033	<0.0033	<0.0029	<0.0036	<0.0047	<0.0042	<0.0054	<0.0049	<0.0038
Di-isopropyl ether	mg/kg	<0.0042	<0.0069	<0.0057	<0.0063	<0.0044	<0.0039	<0.0042	<0.0035	<0.0035	<0.0038	<0.0041	<0.0055	<0.0048	<0.0045	<0.0037	<0.0033	<0.0033	<0.0029	<0.0036	<0.0047	<0.0042	<0.0054	<0.0049	<0.0038
Ethyl tertiary-butyl ether	mg/kg	<0.0042	<0.0069	<0.0057	<0.0063	<0.0044	<0.0039	<0.0042	<0.0035	<0.0035	<0.0038	<0.0041	<0.0055	<0.0048	<0.0045	<0.0037	<0.0033	<0.0033	<0.0029	<0.0036	<0.0047	<0.0042	<0.0054	<0.0049	<0.0038
Ethylbenzene	mg/kg	<0.0042	<0.0069	<0.0057	<0.0063	<0.0044	<0.0039	<0.0042	<0.0035	<0.0035	<0.0038	<0.0041	<0.0055	<0.0048	<0.0045	<0.0037	<0.0033	<0.0033	<0.0029	<0.0036	<0.0047	<0.0042	<0.0054	<0.0049	<0.0038
Hexachlorobutadiene	mg/kg	<0.0042	<0.0069	<0.0057	<0.0063	<0.0044	<0.0039	<0.0042	<0.0035	<0.0035	<0.0038	<0.0041	<0.0055	<0.0048	<0.0045	<0.0037	<0.0033	<0.0033	<0.0029	<0.0036	<0.0047	<0.0042	<0.0054	<0.0049	<0.0038
Isopropylbenzene	mg/kg	<0.0042	<0.0069	<0.0057	<0.0063	<0.0044	<0.0039	<0.0042	<0.0035	<0.0035	<0.0038	<0.0041	<0.0055	<0.0048	<0.0045	<0.0037	<0.0033	<0.0033	<0.0029	<0.0036	<0.0047	<0.0042	<0.0054	<0.0049	<0.0038
Methyl tert-Butyl Ether	mg/kg	<0.0042	<0.0069	<0.0057	<0.0063	<0.0044	<0.0039	<0.0042	<0.0035	<0.0035	<0.0038	<0.0041	<0.0055	<0.0048	<0.0045	<0.0037	<0.0033	<0.0033	<0.0029	<0.0036	<0.0047	<0.0042	<0.0054	<0.0049	<0.0038
Methylene Chloride	mg/kg	<0.0084	<0.0138	<0.0114	<0.0125	<0.0088	<0.0079	<0.0085	<0.0071	<0.0071	<0.0077	<0.0081	<0.0110	<0.0095	<0.0090	<0.0074	<0.0066	<0.0065	<0.0058	<0.0071	<0.0095	<0.0084	<0.0108	<0.0097	<0.0077
Naphthalene	mg/kg	<0.0042	<0.0069	<0.0057	<0.0063	0.0297	<0.0039	<0.0042	<0.0035	<0.0035	<0.0038	<0.0041	<0.0055	<0.0048	<0.0045	<0.0037	<0.0033	<0.0033	<0.0029	<0.0036	<0.0047	<0.0042	<0.0054	<0.0049	<0.0038
n-Butylbenzene	mg/kg	<0.0042	<0.0069	<0.0057	<0.0063	<0.0044	<0.0039	<0.0042	<0.0035	<0.0035	<0.0038	<0.0041	<0.0055	<0.0048	<0.0045	<0.0037	<0.0033	<0.0033	<0.0029	<0.0036	<0.0047	<0.0042	<0.0054	<0.0049	<0.0038
n-Propylbenzene	mg/kg	<0.0042	<0.0069	<0.0057	<0.0063	<0.0044	<0.0039	<0.0042	<0.0035	<0.0035	<0.0038	<0.0041	<0.0055	<0.0048	<0.0045	<0.0037	<0.0033	<0.0033	<0.0029	<0.0036	<0.0047	<0.0042	<0.0054	<0.0049	<0.0038
sec-Butylbenzene	mg/kg	<0.0042	<0.0069	<0.0057	<0.0063	<0.0044	<0.0039	<0.0042	<0.0035	<0.0035	<0.0038	<0.0041	<0.0055	<0.0048	<0.0045	<0.0037	<0.0033	<0.0033	<0.0029	<0.0036	<0.0047	<0.0042	<0.0054	<0.0049	<0.0038

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	G10 G10S11S12 1501225 Natural Sand/Gravel 38 - 39 1/13/2015	G11 G11S01S02A 1502230 Fill 0 - 3.3 2/17/2015	G11 G11S02BS04A 1502230 Fill 3.3 - 6.6 2/17/2015	G11 G11S04BS05 1502230 Fill 6.6 - 10 2/17/2015	G11 G11S06 1502230 Natural Clay 10 - 12 2/17/2015	G11 G11S07 1502256 Natural Clay 14 - 16 2/18/2015	G11 G11S08 1502256 Natural Clay 19 -21 2/18/2015	G11 G11S09 1502256 Natural Sand/Gravel 24 - 26 2/18/2015	G11 G11S10 1502256 Natural Clay 29 - 31 2/18/2015	G11 G11S11S12 1502256 Natural Sand/Gravel 34 - 38 2/18/2015	G12 G12S01S02A 1501197 Fill 0 - 3.3 1/12/2015	G12 G12S02BS04A 1501197 Fill 3.3 - 6.6 1/12/2015	G12 G12S04BS05 1501197 Fill 6.6 - 10 1/12/2015	G12 G12S06 1501197 Natural Clay 10 - 12 1/12/2015	G12 G12S07 1501225 Natural Clay 14 - 16 1/13/2015	G12 G12S08 1501225 Natural Clay 19 -21 1/13/2015	G12 G12S09 1501225 Natural Sand/Gravel 24 - 26 1/13/2015	G12 G12S10 1501225 Natural Sand/Gravel 29 - 31 1/13/2015	G12 G12S11S12 1501225 Natural Sand/Gravel 34 - 38 1/13/2015	G13 G13S01S02A 1502256 Fill 0 - 3.3 2/18/2015	G13 G13S02BS04A 1502256 Fill 3.3 - 6.6 2/18/2015	G13 G13S04BS05 1502256 Fill 6.6 - 10 2/18/2015	G13 G13S06 1502256 Natural Clay 12 - 14 2/18/2015	G13 G13S07 1502289 Natural Clay 19 - 21 2/19/2015
Preliminary Disposal Facility Category		MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	MCP Restricted	MCP Regulated Type A	Uncontaminated	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Restricted
Styrene	mg/kg	<0.0042	<0.0069	<0.0057	<0.0063	<0.0044	<0.0039	<0.0042	<0.0035	<0.0035	<0.0038	<0.0041	<0.0055	<0.0048	<0.0045	<0.0037	<0.0033	<0.0033	<0.0029	<0.0036	<0.0047	<0.0042	<0.0054	<0.0049	<0.0038
tert-Butylbenzene	mg/kg	<0.0042	<0.0069	<0.0057	<0.0063	<0.0044	<0.0039	<0.0042	<0.0035	<0.0035	<0.0038	<0.0041	<0.0055	<0.0048	<0.0045	<0.0037	<0.0033	<0.0033	<0.0029	<0.0036	<0.0047	<0.0042	<0.0054	<0.0049	<0.0038
Tertiary-amyl methyl ether	mg/kg	<0.0042	<0.0069	<0.0057	<0.0063	<0.0044	<0.0039	<0.0042	<0.0035	<0.0035	<0.0038	<0.0041	<0.0055	<0.0048	<0.0045	<0.0037	<0.0033	<0.0033	<0.0029	<0.0036	<0.0047	<0.0042	<0.0054	<0.0049	<0.0038
Tetrachloroethene	mg/kg	<0.0042	<0.0069	<0.0057	<0.0063	<0.0044	<0.0039	<0.0042	<0.0035	<0.0035	<0.0038	<0.0041	<0.0055	<0.0048	<0.0045	<0.0037	<0.0033	<0.0033	<0.0029	<0.0036	<0.0047	<0.0042	<0.0054	<0.0049	<0.0038
Tetrahydrofuran	mg/kg	<0.0042	<0.0069	<0.0057	<0.0063	<0.0044	<0.0039	<0.0042	<0.0035	<0.0035	<0.0038	<0.0041	<0.0055	<0.0048	<0.0045	<0.0037	<0.0033	<0.0033	<0.0029	<0.0036	<0.0047	<0.0042	<0.0054	<0.0049	<0.0038
Toluene	mg/kg	<0.0042	<0.0069	<0.0057	<0.0063	<0.0044	<0.0039	<0.0042	<0.0035	<0.0035	<0.0038	<0.0041	<0.0055	<0.0048	<0.0045	<0.0037	<0.0033	<0.0033	<0.0029	<0.0036	<0.0047	<0.0042	<0.0054	<0.0049	<0.0038
trans-1,2-Dichloroethene	mg/kg	<0.0042	<0.0069	<0.0057	<0.0063	<0.0044	<0.0039	<0.0042	<0.0035	<0.0035	<0.0038	<0.0041	<0.0055	<0.0048	<0.0045	<0.0037	<0.0033	<0.0033	<0.0029	<0.0036	<0.0047	<0.0042	<0.0054	<0.0049	<0.0038
trans-1,3-Dichloropropene	mg/kg	<0.0042	<0.0069	<0.0057	<0.0063	<0.0044	<0.0039	<0.0042	<0.0035	<0.0035	<0.0038	<0.0041	<0.0055	<0.0048	<0.0045	<0.0037	<0.0033	<0.0033	<0.0029	<0.0036	<0.0047	<0.0042	<0.0054	<0.0049	<0.0038
Trichloroethene	mg/kg	<0.0042	<0.0069	<0.0057	<0.0063	<0.0044	<0.0039	<0.0042	<0.0035	<0.0035	<0.0038	<0.0041	<0.0055	<0.0048	<0.0045	<0.0037	<0.0033	<0.0033	<0.0029	<0.0036	<0.0047	<0.0042	<0.0054	<0.0049	<0.0038
Trichlorofluoromethane	mg/kg	<0.0042	<0.0069	<0.0057	<0.0063	<0.0044	<0.0039	<0.0042	<0.0035	<0.0035	<0.0038	<0.0041	<0.0055	<0.0048	<0.0045	<0.0037	<0.0033	<0.0033	<0.0029	<0.0036	<0.0047	<0.0042	<0.0054	<0.0049	<0.0038
Vinyl Chloride	mg/kg	<0.0084	<0.0138	<0.0114	<0.0125	<0.0088	<0.0079	<0.0085	<0.0071	<0.0071	<0.0077	<0.0081	<0.0110	<0.0095	<0.0090	<0.0074	<0.0066	<0.0065	<0.0058	<0.0071	<0.0095	<0.0084	<0.0108	<0.0097	<0.0077
Xylene O	mg/kg	<0.0042	<0.0069	<0.0057	<0.0063	<0.0044	<0.0039	<0.0042	<0.0035	<0.0035	<0.0038	<0.0041	<0.0055	<0.0048	<0.0045	<0.0037	<0.0033	<0.0033	<0.0029	<0.0036	<0.0047	<0.0042	<0.0054	<0.0049	<0.0038
Xylene P,M	mg/kg	<0.0084	<0.0138	<0.0114	<0.0125	<0.0088	<0.0079	<0.0085	<0.0071	<0.0071	<0.0077	<0.0081	<0.0110	<0.0095	<0.0090	<0.0074	<0.0066	<0.0065	<0.0058	<0.0071	<0.0095	<0.0084	<0.0108	<0.0097	<0.0077
Xylenes (Total)	mg/kg	<0.0084	<0.0138	<0.0114	<0.0125	<0.0088	<0.0079	<0.0085	<0.0071	<0.0071	<0.0077	<0.0081	<0.0110	<0.0095	<0.0090	<0.0074	<0.0066	<0.0065	<0.0058	<0.0071	<0.0095	<0.0084	<0.0108	<0.0097	<0.0077
Total VOCs (Low Level)	mg/kg	0.0107	0.0199	0.0784	0.108	0.0297	ND	ND	0.0102	ND	0.0233	ND	ND	0.0298	0.0326	0.0118	0.0168	0.0408	0.0078	0.0104	0.0139	ND	0.0708	0.0251	ND
Semi-Volatile Organic Compounds																									
1,2,4-Trichlorobenzene	mg/kg	<0.891	<0.869	<3.81	<4.14	<0.934	<1.05	<1.07	<0.980	<1.07	<0.922	<0.853	<0.860	<1.02	<0.992	<1.06	<1.11	<0.992	<0.996	<0.949	<0.834	<0.896	<1.02	<1.04	<1.06
1,2-Dichlorobenzene	mg/kg	<0.891	<0.869	<3.81	<4.14	<0.934	<1.05	<1.07	<0.980	<1.07	<0.922	<0.853	<0.860	<1.02	<0.992	<1.06	<1.11	<0.992	<0.996	<0.949	<0.834	<0.896	<1.02	<1.04	<1.06
1,3-Dichlorobenzene	mg/kg	<0.891	<0.869	<3.81	<4.14	<0.934	<1.05	<1.07	<0.980	<1.07	<0.922	<0.853	<0.860	<1.02	<0.992	<1.06	<1.11	<0.992	<0.996	<0.949	<0.834	<0.896	<1.02	<1.04	<1.06
1,4-Dichlorobenzene	mg/kg	<0.447	<0.436	<1.91	<2.08	<0.468	<0.528	<0.538	<0.491	<0.535	<0.463	<0.428	<0.431	<0.513	<0.497	<0.530	<0.555	<0.498	<0.500	<0.476	<0.418	<0.449	<0.509	<0.524	<0.532
2,4,5-Trichlorophenol	mg/kg	<0.891	<0.869	<3.81	<4.14	<0.934	<1.05	<1.07	<0.980	<1.07	<0.922	<0.853	<0.860	<1.02	<0.992	<1.06	<1.11	<0.992	<0.996	<0.949	<0.834	<0.896	<1.02	<1.04	<1.06
2,4,6-Trichlorophenol	mg/kg	<0.891	<0.869	<3.81	<4.14	<0.934	<1.05	<1.07	<0.980	<1.07	<0.922	<0.853	<0.860	<1.02	<0.992	<1.06	<1.11	<0.992	<0.996	<0.949	<0.834	<0.896	<1.02	<1.04	<1.06
2,4-Dichlorophenol	mg/kg	<0.891	<0.869	<3.81	<4.14	<0.934	<1.05	<1.07	<0.980	<1.07	<0.922	<0.853	<0.860	<1.02	<0.992	<1.06	<1.11	<0.992	<0.996	<0.949	<0.834	<0.896	<1.02	<1.04	<1.06
2,4-Dimethylphenol	mg/kg	<0.891	<0.869	<3.81	<4.14	<0.934	<1.05	<1.07	<0.980	<1.07	<0.922	<0.853	<0.860	<1.02	<0.992	<1.06	<1.11	<0.992	<0.996	<0.949	<0.834	<0.896	<1.02	<1.04	<1.06
2,4-Dinitrophenol	mg/kg	<4.47	<4.36	<19.1	<20.8	<4.68	<5.28	<5.38	<4.91	<5.35	<4.63	<4.28	<4.31	<5.13	<4.97	<5.30	<5.55	<4.98	<5.00	<4.76	<4.18	<4.49	<5.09	<5.24	<5.32
2,4-Dinitrotoluene	mg/kg	<0.891	<0.869	<0.956	<1.04	<0.934	<1.05	<1.07	<0.980	<1.07	<0.922	<0.853	<0.860	<1.02	<0.992	<1.06	<1.11	<0.992	<0.996	<0.949	<0.834	<0.896	<1.02	<1.04	<1.06
2,6-Dinitrotoluene	mg/kg	<0.891	<0.869	<3.81	<4.14	<0.934	<1.05	<1.07	<0.980	<1.07	<0.922	<0.853	<0.860	<1.02	<0.992	<1.06	<1.11	<0.992	<0.996	<0.949	<0.834	<0.896	<1.02	<1.04	<1.06
2-Chloronaphthalene	mg/kg	<0.891	<0.869	<3.81	<4.14	<0.934	<1.05	<1.07	<0.980	<1.07	<0.922	<0.853	<0.860	<1.02	<0.992	<1.06	<1.11	<0.992	<0.996	<0.949	<0.834	<0.896	<1.02	<1.04	<1.06
2-Chlorophenol	mg/kg	<0.891	<0.869	<3.81	<4.14	<0.934	<1.05	<1.07	<0.980	<1.07	<0.922	<0.853	<0.860	<1.02	<0.992	<1.06	<1.11	<0.992	<0.996	<0.949	<0.834	<0.896	<1.02	<1.04	<1.06
2-Methylnaphthalene	mg/kg	<0.891	<0.869	<3.81	<4.14	<0.934	<1.05	<1.07	<0.980	<1.07	<0.922	<0.853	<0.860	<1.02	<0.992	<1.06	<1.11	<0.992	<0.996	<0.949	<0.834	<0.896	<1.02	<1.04	<1.06
2-Methylphenol	mg/kg	<0.891	<0.869	<3.81	<4.14	<0.934	<1.05	<1.07	<0.980	<1.07	<0.922	<0.853	<0.860	<1.02	<0.992	<1.06	<1.11	<0.992	<0.996	<0.949	<0.834	<0.896	<1.02	<1.04	<1.06
2-Nitrophenol	mg/kg	<0.891	<0.869	<3.81	<4.14	<0.934	<1.05	<1.07	<0.980	<1.07	<0.922	<0.853	<0.860	<1.02	<0.992	<1.06	<1.11	<0.992	<0.996	<0.949	<0.834	<0.896	<1.02	<1.04	<1.06
3,3´-Dichlorobenzidine	mg/kg	<1.79	<1.74	<7.64	<8.30	<1.87	<2.11	<2.15	<1.96	<2.14	<1.85	<1.71	<1.72	<2.05	<1.99	<2.11	<2.22	<1.99	<2.00	<1.90	<1.67	<1.79	<2.03	<2.09	<2.12
3+4-Methylphenol	mg/kg	<1.79	<1.74	<7.64	<8.30	<1.87	<2.11	<2.15	<1.96	<2.14	<1.85	<1.71	<1.72	<2.05	<1.99	<2.11	<2.22	<1.99	<2.00	<1.90	<1.67	<1.79	<2.03	<2.09	<2.12
4-Bromophenyl-phenylether	mg/kg	<0.891	<0.869	<3.81	<4.14	<0.934	<1.05	<1.07	<0.980	<1.07	<0.922	<0.853	<0.860	<1.02	<0.992	<1.06	<1.11	<0.992	<0.996	<0.949	<0.834	<0.896	<1.02	<1.04	<1.06
4-Chloroaniline	mg/kg	<1.79	<1.74	<7.64	<2.08	<1.87	<2.11	<2.15	<1.96	<2.14	<1.85	<1.71	<1.72	<2.05	<1.99	<2.11	<2.22	<1.99	<2.00	<1.90	<1.67	<1.79	<2.03	<2.09	<2.12
4-Nitrophenol	mg/kg	<4.47	<4.36	<19.1	<20.8	<4.68	<5.28	<5.38	<4.91	<5.35	<4.63	<4.28	<4.31	<5.13	<4.97	<5.30	<5.55	<4.98	<5.00	<4.76	<4.18	<4.49	<5.09	<5.24	<5.32
Acenaphthene	mg/kg	<0.891	<0.869	<3.81	<4.14	<0.934	<1.05	<1.07	<0.980	<1.07	<0.922	<0.853	<0.860	<1.02	<0.992	<1.06	<1.11	<0.992	<0.996	<0.949	<0.834	<0.896	<1.02	<1.04	<1.06
Acenaphthylene	mg/kg	<0.891	<0.869	<3.81	<4.14	<0.934	<1.05	<1.07	<0.980	<1.07	<0.922	<0.853	<0.860	<1.02	<0.992	<1.06	<1.11	<0.992	<0.996	<0.949	<0.834	<0.896	<1.02	<1.04	<1.06
Acetophenone	mg/kg	<1.79	<1.74	<7.64	<8.30	<1.87	<2.11	<2.15	<1.96	<2.14	<1.85	<1.71	<1.72	<2.05	<1.99	<2.11	<2.22	<1.99	<2.00	<1.90	<1.67	<1.79	<2.03	<2.09	<2.12
Aniline	mg/kg	<4.47	<4.36	<19.1	<20.8	<4.68	<5.28	<5.38	<4.91	<5.35	<4.63	<4.28	<4.31	<5.13	<4.97	<5.30	<5.55	<4.98	<5.00	<4.76	<4.18	<4.49	<5.09	<5.24	<5.32
Anthracene	mg/kg	<0.891	<0.869	<3.81	<4.14	<0.934	<1.05	<1.07	<0.980	<1.07	<0.922	<0.853	<0.860	<1.02	<0.992	<1.06	<1.11	<0.992	<0.996	<0.949	<0.834	<0.896	<1.02	<1.04	<1.06
Azobenzene	mg/kg	<0.891	<0.869	<3.81	<4.14	<0.934	<1.05	<1.07	<0.980	<1.07	<0.922	<0.853	<0.860	<1.02	<0.992	<1.06	<1.11	<0.992	<0.996	<0.949	<0.834	<0.896	<1.02	<1.04	<1.06
Benzo(a)anthracene	mg/kg	<0.891	<0.869	<3.81	<4.14	<0.934	<1.05	<1.07	<0.980	<1.07	<0.922	<0.853	<0.860	<1.02	<0.992	<1.06	<1.11	<0.992	<0.996	<0.949	<0.834	<0.896	<1.02	<1.04	<1.06
Benzo(a)pyrene	mg/kg	<0.447	<0.436	<1.91	<2.08	<0.468	<0.528	<0.538	<0.491	<0.535	<0.463	<0.428	<0.431	<0.513	<0.497	<0.530	<0.555	<0.498	<0.500	<0.476	<0.418	<0.449	0.69	<0.524	<0.532
Benzo(b)fluoranthene	mg/kg	<0.891	<0.869	<3.81	<4.14	<0.934	<1.05	<1.07	<0.980	<1.07	<0.922	<0.853	<0.860	<1.02	<0.992	<1.06	<1.11	<0.992	<0.996	<0.949	<0.834	<0.896	<1.02	<1.04	<1.06
Benzo(g,h,i)perylene	mg/kg	<0.891	<0.869	<3.81	<4.14	<0.934	<1.05	<1.07	<0.980	<1.07	<0.922	<0.853	<0.860	<1.02	<0.992	<1.06	<1.11	<0.992	<0.996	<0.949	<0.834	<0.896	<1.02	<1.04	<1.06
Benzo(k)fluoranthene	mg/kg	<0.891	<0.869	<3.81	<4.14	<0.934	<1.05	<1.07	<0.980	<1.07	<0.922	<0.853	<0.860	<1.02	<0.992	<1.06	<1.11	<0.992	<0.996	<0.949	<0.834	<0.896	<1.02	<1.04	<1.06
bis(2-Chloroethoxy)methane	mg/kg	<0.891	<0.869	<3.81	<4.14	<0.934	<1.05	<1.07	<0.980	<1.07	<0.922	<0.853	<0.860	<1.02	<0.992	<1.06	<1.11	<0.992	<0.996	<0.949	<0.834	<0.896	<1.02	<1.04	<1.06
bis(2-Chloroethyl)ether	mg/kg	<0.447	<0.436	<0.378	<0.411	<0.468	<0.528	<0.538	<0.491	<0.535	<0.463	<0.428	<0.431	<0.513	<0.497	<0.530	<0.555	<0.498	<0.500	<0.476	<0.418	<0.449	<0.509	<0.524	<0.532
bis(2-chloroisopropyl)Ether	mg/kg	<0.447	<0.436	<0.378	<0.411	<0.468	<0.528	<0.538	<0.491	<0.535	<0.463	<0.428	<0.431	<0.513	<0.497	<0.530	<0.555	<0.498	<0.500	<0.476	<0.418	<0.449	<0.509	<0.524	<0.532
bis(2-Ethylhexyl)phthalate	mg/kg	<0.891	<0.869	<3.81	<4.14	<0.934	<1.05	<1.07	<0.980	<1.07	<0.922	<0.853	<0.860	<1.02	<0.992	<1.06	<1.11	1.21	<0.996	<0.949	<0.834	<0.896	<1.02	<1.04	<1.06
Butylbenzylphthalate	mg/kg	<0.891	<0.869	<3.81	<4.14	<0.934	<1.05	<1.07	<0.980	<1.07	<0.922	<0.853	<0.860	<1.02	<0.992	<1.06	<1.11	<0.992	<0.996	<0.949	<0.834	<0.896	<1.02	<1.04	<1.06
Chrysene	mg/kg	<0.447	<0.436	<1.91	2.33	<0.468	<0.528	<0.538	<0.491	<0.535	<0.463	<0.428	<0.431	<0.513	<0.497	<0.530	<0.555	<0.498	<0.500	<0.476	<0.418	<0.449	0.839	<0.524	<0.532
Dibenzo(a,h)Anthracene	mg/kg	<0.447	<0.436	<1.91	<2.08	<0.468	<0.528	<0.538	<0.491	<0.535	<0.463	<0.428	<0.431	<0.513	<0.497	<0.530	<0.555	<0.498	<0.500	<0.476	<0.418	<0.449	<0.509	<0.524	<0.532
Dibenzofuran	mg/kg	<0.891	<0.869	<3.81	<4.14	<0.934	<1.05	<1.07	<0.980	<1.07	<0.922	<0.853	<0.860	<1.02	<0.992	<1.06	<1.11	<0.992	<0.996	<0.949	<0.834	<0.896	<1.02	<1.04	<1.06
Diethylphthalate	mg/kg	<0.891	<0.869	<3.81	<4.14	<0.934	<1.05	<1.07	<0.980	<1.07	<0.922	<0.853	<0.860	<1.02	<0.992	<1.06	<1.11	<0.992	<0.996	<0.949	<0.834	<0.896	<1.02	<1.04	<1.06
Dimethylphthalate	mg/kg	<0.891	<0.869	<3.81	<4.14	<0.934	<1.05	<1.07	<0.980	<1.07	<0.922	<0.853	<0.860	<1.02	<0.992	<1.06	<1.11	<0.992	<0.996	<0.949	<0.834	<0.896	<1.02	<1.04	<1.06
Di-n-butylphthalate	mg/kg	<0.891	<0.869	<3.81	<4.14	<0.934	<1.05	<1.07	<0.980	<1.07	<0.922	<0.853	<0.860	<1.02	<0.992	<1.06	<1.11	<0.992	<0.996	<0.949	<0.834	<0.896	<1.02	<1.04	<1.06
Di-n-octylphthalate	mg/kg	<0.891	<0.869	<3.81	<4.14	<0.934	<1.05	<1.07	<0.980	<1.07	<0.922	<0.853	<0.860	<1.02	<0.992	<1.06	<1.11	<0.992	<0.996	<0.949	<0.834	<0.896	<1.02	<1.04	<1.06
Fluoranthene	mg/kg	<0.891	<0.869	<3.81	5.84	<0.934	<1.05	<1.07	<0.980	<1.07	<0.922	<0.853	<0.860	<1.02	<0.992	<1.06	<1.11	<0.992	<0.996	<0.949	<0.834	<0.896	1.74	<1.04	<1.06
Fluorene	mg/kg	<0.891	<0.869	<3.81	<4.14	<0.934	<1.05	<1.07	<0.980	<1.07	<0.922	<0.853	<0.860	<1.02	<0.992	<1.06	<1.11	<0.992	<0.996	<0.949	<0.834	<0.896	<1.02	<1.04	<1.06
Hexachlorobenzene	mg/kg	<0.447	<0.436	<0.990	<1.08	<0.468	<0.528	<0.538	<0.491	<0.535	<0.463	<0.428	<0.431	<0.513	<0.497	<0.530	<0.555	<0.498	<0.500	<0.476	<0.418	<0.449	<0.509	<0.524	<0.532
Hexachlorobutadiene	mg/kg	<0.891	<0.869	<3.81	<4.14	<0.934	<1.05	<1.07	<0.980	<1.07	<0.922	<0.853	<0.860	<1.02	<0.992	<1.06	<1.11	<0.992	<0.996	<0.949	<0.834	<0.896	<1.02	<1.04	<1.06
Hexachloroethane	mg/kg	<0.891	<0.869	<1.91	<2.08	<0.934	<1.05	<1.07	<0.980	<1.07	<0.922	<0.853	<0.860	<1.02	<0.992	<1.06	<1.11	<0.992	<0.996	<0.949	<0.834	<0.896	<1.02	<1.04	<1.06
Indeno(1,2,3-cd)Pyrene	mg/kg	<0.891	<0.869	<3.81	<4.14	<0.934	<1.05	<1.07	<0.980	<1.07	<0.922	<0.853	<0.860	<1.02	<0.992	<1.06	<1.11	<0.992	<0.996	<0.949	<0.834	<0.896	<1.02	<1.04	<1.06
Isophorone	mg/kg	<0.891	<0.869	<3.81	<4.14	<0.934	<1.05	<1.07	<0.980	<1.07	<0.922	<0.853	<0.860	<1.02	<0.992	<1.06	<1.11	<0.992	<0.996	<0.949	<0.834	<0.896	<1.02	<1.04	<1.06
Naphthalene	mg/kg	<0.891	<0.869	<3.81	<4.14	<0.934	<1.05	<1.07	<0.980	<1.07	<0.922	<0.853	<0.860	<1.02	<0.992	<1.06	<1.11	<0.992	<0.996	<0.949	<0.834	<0.896	<1.02	<1.04	<1.06
Nitrobenzene	mg/kg	<0.891	<0.869	<3.81	<4.14	<0.934	<1.05	<1.07	<0.980	<1.07	<0.922	<0.853	<0.860	<1.02	<0.992	<1.06	<1.11	<0.992	<0.996	<0.949	<0.834	<0.896	<1.02	<1.04	<1.06
N-Nitrosodimethylamine	mg/kg	<0.891	<0.869	<3.81	<4.14	<0.934	<1.05	<1.07	<0.980	<1.07	<0.922	<0.853	<0.860	<1.02	<0.992	<1.06	<1.11	<0.992	<0.996	<0.949	<0.834	<0.896	<1.02	<1.04	<1.06
Pentachlorophenol	mg/kg	<4.47	<4.36	<3.81	<4.14	<4.68	<5.28	<5.38	<4.91	<5.35	<4.63	<4.28	<4.31	<5.13	<4.97	<5.30	<5.55	<4.98	<5.00	<4.76	<4.18	<4.49	<5.09	<5.24	<5.32
Phenanthrene	mg/kg	<0.891	<0.869	<3.81	6.26	<0.934	<1.05	<1.07	<0.980	<1.07	<0.922	<0.853	<0.860	<1.02	<0.992	<1.06	<1.11	<0.992	<0.996	<0.949	<0.834	<0.896	1.24	<1.04	<1.06
Phenol	mg/kg	<0.891	<0.869	<3.81	<4.14	<0.934	<1.05	<1.07	<0.980	<1.07	<0.922	<0.853	<0.860	<1.02	<0.992	<1.06	<1.11	<0.992	<0.996	<0.949	<0.834	<0.896	<1.02	<1.04	<1.06
Pyrene	mg/kg	<0.891	<0.869	<3.81	4.2	<0.934	<1.05	<1.07	<0.980	<1.07	<0.922	<0.853	<0.860	<1.02	<0.992	<1.06	<1.11	<0.992	<0.996	<0.949	<0.834	<0.896	1.09	<1.04	<1.06
Total SVOCs	mg/kg	ND	ND	ND	18.63	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.21	ND	ND	ND	ND	5.599	ND	ND
Classic Chemistry																									
Corrosivity (pH)	S.U.	5.26	8.8	7.88	5.08	3.85	6.19	4.58	5.45	4.91	4.86	8.78	8.05	4.79	3.95	3.63	4.59	4.7	4.96	4.73	8.94	7.77	5.88	4.37	6.67
Conductivity	umhos/cm	1360	178	313	465	1120	2870	1130	769	1120	1230	172	1700	2490	2700	3430	3670	982	956	1490	211	1310	1380	1130	1460
Flashpoint	°F	--	>200	>200	>200	--	--	--	--	--	--	>200	>200	>200	--	--	--	--	--	--	>200	>200	>200	--	--
Reactive Cyanide	mg/kg	--	<2.0	<2.0	<2.0	--	--	--	--	--	--	<2.0	<2.0	<2.0	--	--	--	--	--	--	<2.0	<2.0	<2.0	--	--
Reactive Sulfide	mg/kg	--	<2.0	<2.0	<2.0	--	--	--	--	--	--	<2.0	<2.0	<2.0	--	--	--	--	--	--	<2.0	<2.0	<2.0	--	--

Table 1
Soil Precharacterization Data

Wynn Resort Casino
Everett, Massachusetts

Analyte	Precharacterization Cell	G13	G13	G13	G14	G14	G14	G14	G14	G14	G14	G14	G14	G15	G15	G15	G15	G15	G15	G15	G15	G15	G16	G16
	Sample ID	G13S08	G13S09	G13S10S11	G14S01S02A	G14S02BS04A	G14S04BS05	G14S06	G14S07	G14S08	G14S09	G14S10	G14S11S12	G15S01S02A	G15S02BS04A	G15S04BS05	G15S06S07A	G15S07B	G15S08	G15S09	G15S10	G15S11	G15S12S13	G16S01S02A	G16S02BS04A
	Laboratory Work Order	1502289	1502289	1502289	1501197	1501197	1501197	1501197	1501197	1501197	1501197	1501197	1501197	1502079	1502079	1502079	1502102	1502102	1502102	1502102	1502102	1503211	1503211	1501167	1501167
	Soil Distinction	Natural	Natural	Natural	Fill	Fill	Fill	Natural	Natural	Natural	Natural	Natural	Natural	Fill	Fill	Fill	Fill	Fill	Natural	Natural	Natural	Natural	Natural	Fill	Fill
	Soil Type	Clay	Clay	Sand/Gravel				Sand/Gravel	Clay	Clay	Clay	Clay	Sand/Gravel						Clay	Clay	Clay	Sand/Gravel	Sand/Gravel		
	Depth Interval (ft.)	24 - 26	29 - 31	34 - 38	0 - 3.3	3.3 - 6.6	6.6 - 10	10 - 12	14 - 16	19 - 21	24 - 26	29 - 31	38 - 39	0 - 3.3	3.3 - 6.6	6.6 - 10	10 - 13.3	13.3 - 14	14 - 16	19 - 21	24 - 26	29 - 31	34 - 38	0 - 3.3	3.3 - 6.6
	Sampling Date	2/19/2015	2/19/2015	2/19/2015	1/12/2015	1/12/2015	1/12/2015	1/12/2015	1/12/2015	1/12/2015	1/12/2015	1/12/2015	1/12/2015	2/5/2015	2/5/2015	2/5/2015	2/6/2015	2/6/2015	2/6/2015	2/6/2015	2/6/2015	3/11/2015	3/11/2015	1/9/2015	1/9/2015
Preliminary Disposal Facility Category		MCP Regulated Type A	MCP Regulated Type A	Uncontaminated	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Material Type B-2	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	Uncontaminated	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type B	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	Uncontaminated	Uncontaminated	MCP Regulated Type A	MCP Regulated Type A
RCRA 8 Metals	**Units**																								
Arsenic	mg/kg	18.4	10.7	<7.79	13	<10.3	24.4	<10.5	<14.7	<15.2	26.3	<14.1	<11.8	<7.03	<6.65	87	114	142	80.7	24.6	17.1	<7.74	<5.89	<13.0	<11.0
Barium	mg/kg	106	82.8	29	23.9	32.4	59	18	122	144	119	74.2	16.4	15.1	26.6	61.9	305	174	179	80.7	94.9	12	9.76	21.3	15.7
Cadmium	mg/kg	<1.68	<1.81	<1.56	<2.40	<2.05	<2.20	<2.09	<2.94	<3.03	<3.13	<2.82	<2.37	<1.41	<1.33	<1.67	12.9	12.3	10.8	<1.70	<1.41	<1.55	<1.18	<2.60	<2.21
Chromium	mg/kg	60.3	47.9	20.2	28	18.5	16.5	17.4	53.1	61.1	61	35.7	13.8	19.2	21.3	24.2	26	34.8	45.7	38.7	48.5	9.05	10.1	23.6	21.1
Lead	mg/kg	17	<18.1	<15.6	26.5	39	535	<20.9	<29.4	<30.3	<31.3	<28.2	<23.7	<14.1	<13.3	561	1890	3500	1100	18.4	70.1	<15.5	<11.8	<26.0	<22.1
Selenium	mg/kg	<8.39	<9.07	<7.79	<19.2	<16.4	<17.6	<16.7	<11.8	<12.1	<12.5	<11.3	<18.9	<7.03	<6.65	60.5	21.6	28.7	13.8	<8.51	<7.03	<7.74	<5.89	<10.4	<17.7
Silver	mg/kg	<4.19	<1.81	<1.56	<2.40	<2.05	<2.20	<2.09	<2.94	<3.03	<3.13	<2.82	<2.37	<1.41	<1.33	<1.67	11.6	14.6	12.2	<1.70	<1.41	<1.55	<1.18	<2.60	<2.21
Mercury	mg/kg	<0.038	<0.043	<0.035	<0.032	0.114	0.385	<0.035	<0.039	<0.041	<0.041	<0.037	<0.037	<0.036	<0.035	0.121	8.19	4.56	2.78	<0.036	0.171	<0.029	<0.022	<0.030	<0.031
Metals by Toxicity Characteristic Leaching Procedure (TCLP)																									
Arsenic	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.118	0.094	--	--	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead	mg/L	--	--	--	--	--	8.62	--	--	--	--	--	--	--	--	1.26	8.43	<0.050	1.34	--	--	--	--	--	--
Selenium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.050	<0.100	<1.00	--	--	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.00050	<0.00050	--	--	--	--	--	--	--
Herbicides																									
2,4,5-T	mg/kg	--	--	--	<0.052	<0.25	<0.27	--	--	--	--	--	--	<0.046	<0.044	<0.046	<0.071	<0.065	--	--	--	--	--	<0.051	<0.053
2,4-D	mg/kg	--	--	--	<0.052	<0.25	<0.27	--	--	--	--	--	--	<0.23	<0.22	<0.23	<0.071	<0.065	--	--	--	--	--	<0.051	<0.053
2,4-DB	mg/kg	--	--	--	<0.052	<0.25	<0.27	--	--	--	--	--	--	<0.017	<0.017	<0.017	<0.071	<0.065	--	--	--	--	--	<0.051	<0.053
Dalapon	mg/kg	--	--	--	<0.62	<3.0	<3.3	--	--	--	--	--	--	<1.4	<1.3	<1.4	<0.86	<0.78	--	--	--	--	--	<0.61	<0.64
Dicamba	mg/kg	--	--	--	<0.052	<0.25	<0.27	--	--	--	--	--	--	<0.069	<0.067	<0.069	<0.071	<0.065	--	--	--	--	--	<0.051	<0.053
Dichlorprop	mg/kg	--	--	--	<0.052	<0.25	<0.27	--	--	--	--	--	--	<0.15	<0.14	<0.15	<0.071	<0.065	--	--	--	--	--	<0.051	<0.053
Dinoseb	mg/kg	--	--	--	<0.31	<1.5	<1.6	--	--	--	--	--	--	<0.23	<0.22	<0.23	<0.43	<0.39	--	--	--	--	--	<0.30	<0.32
MCPA	mg/kg	--	--	--	<12	<60	<66	--	--	--	--	--	--	<57	<56	<57	<17	<16	--	--	--	--	--	<12	<13
MCPP	mg/kg	--	--	--	<12	<60	<66	--	--	--	--	--	--	<57	<56	<57	<17	<16	--	--	--	--	--	<12	<13
Silvex (2,4,5-TP)	mg/kg	--	--	--	<0.052	<0.25	<0.27	--	--	--	--	--	--	<0.046	<0.044	<0.046	<0.071	<0.065	--	--	--	--	--	<0.051	<0.053
Pesticides																									
4,4'-DDD	mg/kg	--	--	--	<0.037	<0.035	<0.078	--	--	--	--	--	--	<0.0019	<0.0019	<0.075	<0.0025	<0.0025	--	--	--	--	--	<0.0018	<0.0018
4,4'-DDE	mg/kg	--	--	--	<0.037	<0.035	<0.078	--	--	--	--	--	--	<0.0019	<0.0019	<0.075	<0.0025	<0.0025	--	--	--	--	--	<0.0018	<0.0018
4,4'-DDT	mg/kg	--	--	--	<0.037	<0.035	<0.078	--	--	--	--	--	--	<0.0019	<0.0019	<0.075	<0.0025	<0.0025	--	--	--	--	--	<0.0018	<0.0018
Aldrin	mg/kg	--	--	--	<0.037	<0.035	<0.078	--	--	--	--	--	--	<0.0019	<0.0019	<0.075	<0.0025	<0.0025	--	--	--	--	--	<0.0018	<0.0018
alpha-BHC	mg/kg	--	--	--	<0.037	<0.035	<0.078	--	--	--	--	--	--	<0.0019	<0.0019	<0.075	<0.0025	<0.0025	--	--	--	--	--	<0.0018	<0.0018
beta-BHC	mg/kg	--	--	--	<0.037	<0.035	<0.078	--	--	--	--	--	--	<0.0019	<0.0019	<0.075	<0.0025	<0.0025	--	--	--	--	--	<0.0018	<0.0018
Chlordane (technical)	mg/kg	--	--	--	<0.37	<0.35	<0.78	--	--	--	--	--	--	<0.019	<0.019	<0.75	<0.025	<0.025	--	--	--	--	--	<0.018	<0.018
delta-BHC	mg/kg	--	--	--	<0.037	<0.035	<0.078	--	--	--	--	--	--	<0.0019	<0.0019	<0.075	<0.0025	<0.0025	--	--	--	--	--	<0.0018	<0.0018
Dieldrin	mg/kg	--	--	--	<0.037	<0.035	<0.078	--	--	--	--	--	--	<0.0019	<0.0019	<0.075	<0.0025	<0.0025	--	--	--	--	--	<0.0018	<0.0018
Endosulfan I	mg/kg	--	--	--	<0.037	<0.035	<0.078	--	--	--	--	--	--	<0.0019	<0.0019	<0.075	<0.0025	<0.0025	--	--	--	--	--	<0.0018	<0.0018
Endosulfan II	mg/kg	--	--	--	<0.037	<0.035	<0.078	--	--	--	--	--	--	<0.0019	<0.0019	<0.075	<0.0025	<0.0025	--	--	--	--	--	<0.0018	<0.0018
Endosulfan sulfate	mg/kg	--	--	--	<0.037	<0.035	<0.078	--	--	--	--	--	--	<0.0019	<0.0019	<0.075	<0.0025	<0.0025	--	--	--	--	--	<0.0018	<0.0018
Endrin	mg/kg	--	--	--	<0.037	<0.035	<0.078	--	--	--	--	--	--	<0.0019	<0.0019	<0.075	<0.0025	<0.0025	--	--	--	--	--	<0.0018	<0.0018
Endrin ketone	mg/kg	--	--	--	<0.037	<0.035	<0.078	--	--	--	--	--	--	<0.0019	<0.0019	<0.075	<0.0025	<0.0025	--	--	--	--	--	<0.0018	<0.0018
gamma-BHC (Lindane)	mg/kg	--	--	--	<0.037	<0.035	<0.078	--	--	--	--	--	--	<0.0019	<0.0019	<0.075	<0.0025	<0.0025	--	--	--	--	--	<0.0018	<0.0018
Heptachlor	mg/kg	--	--	--	<0.037	<0.035	<0.078	--	--	--	--	--	--	<0.0019	<0.0019	<0.075	<0.0025	<0.0025	--	--	--	--	--	<0.0018	<0.0018
Heptachlor epoxide	mg/kg	--	--	--	<0.037	<0.035	<0.078	--	--	--	--	--	--	<0.0019	<0.0019	<0.075	<0.0025	<0.0025	--	--	--	--	--	<0.0018	<0.0018
Hexachlorobenzene	mg/kg	--	--	--	<0.037	<0.035	<0.078	--	--	--	--	--	--	<0.0019	<0.0019	<0.075	<0.0025	<0.0025	--	--	--	--	--	<0.0018	<0.0018
Methoxychlor	mg/kg	--	--	--	<0.037	<0.035	<0.078	--	--	--	--	--	--	<0.0019	<0.0019	<0.075	<0.0025	<0.0025	--	--	--	--	--	<0.0018	<0.0018
Polychlorinated Biphenyls																									
Aroclor 1016	mg/kg	<0.167	<0.170	<0.150	<0.129	<0.124	<0.140	<0.136	<0.157	<0.164	<0.166	<0.160	<0.146	<0.137	<0.136	<0.155	<0.178	<0.160	<0.153	<0.160	<0.147	<0.148	<0.129	<0.128	<0.126
Aroclor 1221	mg/kg	<0.167	<0.170	<0.150	<0.129	<0.124	<0.140	<0.136	<0.157	<0.164	<0.166	<0.160	<0.146	<0.137	<0.136	<0.155	<0.178	<0.160	<0.153	<0.160	<0.147	<0.148	<0.129	<0.128	<0.126
Aroclor 1232	mg/kg	<0.167	<0.170	<0.150	<0.129	<0.124	<0.140	<0.136	<0.157	<0.164	<0.166	<0.160	<0.146	<0.137	<0.136	<0.155	<0.178	<0.160	<0.153	<0.160	<0.147	<0.148	<0.129	<0.128	<0.126
Aroclor 1242	mg/kg	<0.167	<0.170	<0.150	<0.129	<0.124	<0.140	<0.136	<0.157	<0.164	<0.166	<0.160	<0.146	<0.137	<0.136	<0.155	<0.178	<0.160	<0.153	<0.160	<0.147	<0.148	<0.129	<0.128	<0.126
Aroclor 1248	mg/kg	<0.167	<0.170	<0.150	<0.129	<0.124	<0.140	<0.136	<0.157	<0.164	<0.166	<0.160	<0.146	<0.137	<0.136	<0.155	<0.178	<0.160	<0.153	<0.160	<0.147	<0.148	<0.129	<0.128	<0.126
Aroclor 1254	mg/kg	<0.167	<0.170	<0.150	<0.129	<0.124	<0.140	<0.136	<0.157	<0.164	<0.166	<0.160	<0.146	<0.137	<0.136	<0.155	<0.178	<0.160	<0.153	<0.160	<0.147	<0.148	<0.129	<0.128	<0.126
Aroclor 1260	mg/kg	<0.167	<0.170	<0.150	<0.129	<0.124	<0.140	<0.136	<0.157	<0.164	<0.166	<0.160	<0.146	<0.137	<0.136	<0.155	<0.178	<0.160	<0.153	<0.160	<0.147	<0.148	<0.129	<0.128	<0.126
Aroclor 1262	mg/kg	<0.167	<0.170	<0.150	<0.129	<0.124	<0.140	<0.136	<0.157	<0.164	<0.166	<0.160	<0.146	<0.137	<0.136	<0.155	<0.178	<0.160	<0.153	<0.160	<0.147	<0.148	<0.129	<0.128	<0.126
Aroclor 1268	mg/kg	<0.167	<0.170	<0.150	<0.129	<0.124	<0.140	<0.136	<0.157	<0.164	<0.166	<0.160	<0.146	<0.137	<0.136	<0.155	<0.178	<0.160	<0.153	<0.160	<0.147	<0.148	<0.129	<0.128	<0.126
Total PCBs	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Petroleum Hydrocarbons	mg/kg	<47.0	<52.0	<44.5	191	304	1610	<43.0	<50.7	<52.7	<53.9	<51.4	<42.7	<42.7	<43.4	2300	214	197	211	<48.6	<50.7	<46.5	<41.2	41	<38.0
Volatile Organic Compounds (VOCs)																									
1,1,1,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-Chloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane - Screen	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Butanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Isopropyltoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-Pentanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Disulfide	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	G13 G13S08 1502289 Natural Clay 24 - 26 2/19/2015	G13 G13S09 1502289 Natural Clay 29 - 31 2/19/2015	G13 G13S10S11 1502289 Natural Sand/Gravel 34 - 38 2/19/2015	G14 G14S01S02A 1501197 Fill 0 - 3.3 1/12/2015	G14 G14S02BS04A 1501197 Fill 3.3 - 6.6 1/12/2015	G14 G14S04BS05 1501197 Fill 6.6 - 10 1/12/2015	G14 G14S06 1501197 Natural Sand/Gravel 10 - 12 1/12/2015	G14 G14S07 1501197 Natural Clay 14 - 16 1/12/2015	G14 G14S08 1501197 Natural Clay 19 - 21 1/12/2015	G14 G14S09 1501197 Natural Clay 24 - 26 1/12/2015	G14 G14S10 1501197 Natural Clay 29 - 31 1/12/2015	G14 G14S11S12 1501197 Natural Sand/Gravel 38 - 39 1/12/2015	G15 G15S01S02A 1502079 Fill 0 - 3.3 2/5/2015	G15 G15S02BS04A 1502079 Fill 3.3 - 6.6 2/5/2015	G15 G15S04BS05 1502079 Fill 6.6 - 10 2/5/2015	G15 G15S06S07A 1502102 Fill 10 - 13.3 2/6/2015	G15 G15S07B 1502102 Fill 13.3 - 14 2/6/2015	G15 G15S08 1502102 Natural Clay 14 - 16 2/6/2015	G15 G15S09 1502102 Natural Clay 19 - 21 2/6/2015	G15 G15S10 1502102 Natural Clay 24 - 26 2/6/2015	G15 G15S11 1503211 Natural Sand/Gravel 29 - 31 3/11/2015	G15 G15S12S13 1503211 Natural Sand/Gravel 34 - 38 3/11/2015	G16 G16S01S02A 1501167 Fill 0 - 3.3 1/9/2015	G16 G16S02BS04A 1501167 Fill 3.3 - 6.6 1/9/2015
Preliminary Disposal Facility Category		MCP Regulated Type A	MCP Regulated Type A	Uncontaminated	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Material Type B-2	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	Uncontaminated	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type B	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	Uncontaminated	Uncontaminated	MCP Regulated Type A	MCP Regulated Type A
Chlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Diethyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Di-isopropyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethyl tertiary-butyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
tert-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tertiary-amyl methyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene O	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene P,M	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylenes (Total)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total VOCs	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds - Low Level Analysis																									
1,1,1,2-Tetrachloroethane	mg/kg	<0.0044	<0.0042	<0.0038	<0.0045	<0.0043	<0.0051	<0.0033	<0.0035	<0.0034	<0.0047	<0.0034	<0.0034	<0.0047	<0.0041	<0.0049	<0.0050	<0.0039	<0.0040	<0.0038	<0.0023	<0.0055	<0.0045	<0.0050	<0.0041
1,1,1-Trichloroethane	mg/kg	<0.0044	<0.0042	<0.0038	<0.0045	<0.0043	<0.0051	<0.0033	<0.0035	<0.0034	<0.0047	<0.0034	<0.0034	<0.0047	<0.0041	<0.0049	<0.0050	<0.0039	<0.0040	<0.0038	<0.0023	<0.0055	<0.0045	<0.0050	<0.0041
1,1,2,2-Tetrachloroethane	mg/kg	<0.0018	<0.0017	<0.0015	<0.0018	<0.0017	<0.0020	<0.0013	<0.0014	<0.0014	<0.0019	<0.0013	<0.0014	<0.0019	<0.0016	<0.0020	<0.0020	<0.0015	<0.0016	<0.0015	<0.0009	<0.0022	<0.0018	<0.0020	<0.0016
1,1,2-Trichloroethane	mg/kg	<0.0044	<0.0042	<0.0038	<0.0045	<0.0043	<0.0051	<0.0033	<0.0035	<0.0034	<0.0047	<0.0034	<0.0034	<0.0047	<0.0041	<0.0049	<0.0050	<0.0039	<0.0040	<0.0038	<0.0023	<0.0055	<0.0045	<0.0050	<0.0041
1,1-Dichloroethane	mg/kg	<0.0044	<0.0042	<0.0038	<0.0045	<0.0043	<0.0051	<0.0033	<0.0035	<0.0034	<0.0047	<0.0034	<0.0034	<0.0047	<0.0041	<0.0049	<0.0050	<0.0039	<0.0040	<0.0038	<0.0023	<0.0055	<0.0045	<0.0050	<0.0041
1,1-Dichloroethene	mg/kg	<0.0044	<0.0042	<0.0038	<0.0045	<0.0043	<0.0051	<0.0033	<0.0035	<0.0034	<0.0047	<0.0034	<0.0034	<0.0047	<0.0041	<0.0049	<0.0050	<0.0039	<0.0040	<0.0038	<0.0023	<0.0055	<0.0045	<0.0050	<0.0041
1,1-Dichloropropene	mg/kg	<0.0044	<0.0042	<0.0038	<0.0045	<0.0043	<0.0051	<0.0033	<0.0035	<0.0034	<0.0047	<0.0034	<0.0034	<0.0047	<0.0041	<0.0049	<0.0050	<0.0039	<0.0040	<0.0038	<0.0023	<0.0055	<0.0045	<0.0050	<0.0041
1,2,3-Trichlorobenzene	mg/kg	<0.0044	<0.0042	<0.0038	<0.0045	<0.0043	<0.0051	<0.0033	<0.0035	<0.0034	<0.0047	<0.0034	<0.0034	<0.0047	<0.0041	<0.0049	<0.0050	<0.0039	<0.0040	<0.0038	<0.0023	<0.0055	<0.0045	<0.0050	<0.0041
1,2,3-Trichloropropane	mg/kg	<0.0044	<0.0042	<0.0038	<0.0045	<0.0043	<0.0051	<0.0033	<0.0035	<0.0034	<0.0047	0.0228	<0.0034	<0.0047	<0.0041	<0.0049	<0.0050	<0.0039	<0.0040	<0.0038	<0.0023	<0.0055	<0.0045	<0.0050	<0.0041
1,2,4-Trichlorobenzene	mg/kg	<0.0044	<0.0042	<0.0038	<0.0045	<0.0043	<0.0051	<0.0033	<0.0035	<0.0034	<0.0047	<0.0034	<0.0034	<0.0047	<0.0041	<0.0049	<0.0050	<0.0039	<0.0040	<0.0038	<0.0023	<0.0055	<0.0045	<0.0050	<0.0041
1,2,4-Trimethylbenzene	mg/kg	<0.0044	<0.0042	<0.0038	<0.0045	<0.0043	<0.0051	<0.0033	<0.0035	<0.0034	<0.0047	<0.0034	<0.0034	<0.0047	<0.0041	<0.0049	<0.0050	<0.0039	<0.0040	<0.0038	<0.0023	<0.0055	<0.0045	<0.0050	<0.0041
1,2-Dibromo-3-Chloropropane	mg/kg	<0.0044	<0.0042	<0.0038	<0.0045	<0.0043	<0.0051	<0.0033	<0.0035	<0.0034	<0.0047	<0.0034	<0.0034	<0.0047	<0.0041	<0.0049	<0.0050	<0.0039	<0.0040	<0.0038	<0.0023	<0.0055	<0.0045	<0.0050	<0.0041
1,2-Dibromoethane	mg/kg	<0.0044	<0.0042	<0.0038	<0.0045	<0.0043	<0.0051	<0.0033	<0.0035	<0.0034	<0.0047	<0.0034	<0.0034	<0.0047	<0.0041	<0.0049	<0.0050	<0.0039	<0.0040	<0.0038	<0.0023	<0.0055	<0.0045	<0.0050	<0.0041
1,2-Dichlorobenzene	mg/kg	<0.0044	<0.0042	<0.0038	<0.0045	<0.0043	<0.0051	<0.0033	<0.0035	<0.0034	<0.0047	<0.0034	<0.0034	<0.0047	<0.0041	<0.0049	<0.0050	<0.0039	<0.0040	<0.0038	<0.0023	<0.0055	<0.0045	<0.0050	<0.0041
1,2-Dichloroethane	mg/kg	<0.0044	<0.0042	<0.0038	<0.0045	<0.0043	<0.0051	<0.0033	<0.0035	<0.0034	<0.0047	<0.0034	<0.0034	<0.0047	<0.0041	<0.0049	<0.0050	<0.0039	<0.0040	<0.0038	<0.0023	<0.0055	<0.0045	<0.0050	<0.0041
1,2-Dichloropropane	mg/kg	<0.0044	<0.0042	<0.0038	<0.0045	<0.0043	<0.0051	<0.0033	<0.0035	<0.0034	<0.0047	<0.0034	<0.0034	<0.0047	<0.0041	<0.0049	<0.0050	<0.0039	<0.0040	<0.0038	<0.0023	<0.0055	<0.0045	<0.0050	<0.0041
1,3,5-Trimethylbenzene	mg/kg	<0.0044	<0.0042	<0.0038	<0.0045	<0.0043	<0.0051	<0.0033	<0.0035	<0.0034	<0.0047	<0.0034	<0.0034	<0.0047	<0.0041	<0.0049	<0.0050	<0.0039	<0.0040	<0.0038	<0.0023	<0.0055	<0.0045	<0.0050	<0.0041
1,3-Dichlorobenzene	mg/kg	<0.0044	<0.0042	<0.0038	<0.0045	<0.0043	<0.0051	<0.0033	<0.0035	<0.0034	<0.0047	<0.0034	<0.0034	<0.0047	<0.0041	<0.0049	<0.0050	<0.0039	<0.0040	<0.0038	<0.0023	<0.0055	<0.0045	<0.0050	<0.0041
1,3-Dichloropropane	mg/kg	<0.0044	<0.0042	<0.0038	<0.0045	<0.0043	<0.0051	<0.0033	<0.0035	<0.0034	<0.0047	<0.0034	<0.0034	<0.0047	<0.0041	<0.0049	<0.0050	<0.0039	<0.0040	<0.0038	<0.0023	<0.0055	<0.0045	<0.0050	<0.0041
1,4-Dichlorobenzene	mg/kg	<0.0044	<0.0042	<0.0038	<0.0045	<0.0043	<0.0051	<0.0033	<0.0035	<0.0034	<0.0047	<0.0034	<0.0034	<0.0047	<0.0041	<0.0049	<0.0050	<0.0039	<0.0040	<0.0038	<0.0023	<0.0055	<0.0045	<0.0050	<0.0041
1,4-Dioxane	mg/kg	<0.0877	<0.0838	<0.0754	<0.0905	<0.0850	<0.102	<0.0657	<0.0706	<0.0689	<0.0930	<0.0672	<0.0684	<0.0936	<0.0815	<0.0975	<0.100	<0.0774	<0.0791	<0.0765	<0.0467	<0.109	<0.0898	<0.0997	<0.0822
2,2-Dichloropropane	mg/kg	<0.0044	<0.0042	<0.0038	<0.0045	<0.0043	<0.0051	<0.0033	<0.0035	<0.0034	<0.0047	<0.0034	<0.0034	<0.0047	<0.0041	<0.0049	<0.0050	<0.0039	<0.0040	<0.0038	<0.0023	<0.0055	<0.0045	<0.0050	<0.0041
2-Butanone	mg/kg	<0.0088	<0.0084	<0.0075	<0.0091	<0.0085	<0.0102	<0.0066	<0.0071	<0.0069	<0.0093	<0.0067	<0.0068	<0.0094	<0.0081	<0.0098	0.0252	0.0097	<0.0079	<0.0076	<0.0047	<0.0109	<0.0090	<0.0100	<0.0082
2-Chlorotoluene	mg/kg	<0.0044	<0.0042	<0.0038	<0.0045	<0.0043	<0.0051	<0.0033	<0.0035	<0.0034	<0.0047	<0.0034	<0.0034	<0.0047	<0.0041	<0.0049	<0.0050	<0.0039	<0.0040	<0.0038	<0.0023	<0.0055	<0.0045	<0.0050	<0.0041
2-Hexanone	mg/kg	<0.0088	<0.0084	<0.0075	<0.0091	<0.0085	<0.0102	<0.0066	<0.0071	<0.0069	<0.0093	<0.0067	<0.0068	<0.0094	<0.0081	<0.0098	<0.0100	<0.0077	<0.0079	<0.0076	<0.0047	<0.0109	<0.0090	<0.0100	<0.0082
4-Chlorotoluene	mg/kg	<0.0044	<0.0042	<0.0038	<0.0045	<0.0043	<0.0051	<0.0033	<0.0035	<0.0034	<0.0047	<0.0034	<0.0034	<0.0047	<0.0041	<0.0049	<0.0050	<0.0039	<0.0040	<0.0038	<0.0023	<0.0055	<0.0045	<0.0050	<0.0041
4-Isopropyltoluene	mg/kg	<0.0044	<0.0042	<0.0038	<0.0045	<0.0043	<0.0051	<0.0033	<0.0035	<0.0034	<0.0047	<0.0034	<0.0034	<0.0047	<0.0041	<0.0049	<0.0050	<0.0039	<0.0040	<0.0038	<0.0023	<0.0055	<0.0045	<0.0050	<0.0041
4-Methyl-2-Pentanone	mg/kg	<0.0088	<0.0084	<0.0075	<0.0091	<0.0085	<0.0102	<0.0066	<0.0071	<0.0069	<0.0093	<0.0067	<0.0068	<0.0094	<0.0081	<0.0098	<0.0100	<0.0077	<0.0079	<0.0076	<0.0047	<0.0109	<0.0090	<0.0100	<0.0082
Acetone	mg/kg	<0.0088	0.0153	<0.0075	0.014	<0.0085	0.0378	0.0254	0.0106	<0.0069	<0.0093	0.0083	<0.0068	<0.0094	<0.0081	0.0219	0.144	0.0451	0.0337	<0.0076	0.0147	<0.0109	<0.0090	<0.0100	<0.0082
Benzene	mg/kg	<0.0044	<0.0042	<0.0038	<0.0045	<0.0043	0.0159	<0.0033	<0.0035	<0.0034	<0.0047	<0.0034	<0.0034	<0.0047	<0.0041	<0.0049	<0.0050	<0.0039	<0.0040	<0.0038	<0.0023	<0.0055	<0.0045	<0.0050	<0.0041
Bromobenzene	mg/kg	<0.0044	<0.0042	<0.0038	<0.0045	<0.0043	<0.0051	<0.0033	<0.0035	<0.0034	<0.0047	<0.0034	<0.0034	<0.0047	<0.0041	<0.0049	<0.0050	<0.0039	<0.0040	<0.0038	<0.0023	<0.0055	<0.0045	<0.0050	<0.0041
Bromochloromethane	mg/kg	<0.0044	<0.0042	<0.0038	<0.0045	<0.0043	<0.0051	<0.0033	<0.0035	<0.0034	<0.0047	<0.0034	<0.0034	<0.0047	<0.0041	<0.0049	<0.0050	<0.0039	<0.0040	<0.0038	<0.0023	<0.0055	<0.0045	<0.0050	<0.0041
Bromodichloromethane	mg/kg	<0.0044	<0.0042	<0.0038	<0.0045	<0.0043	<0.0051	<0.0033	<0.0035	<0.0034	<0.0047	<0.0034	<0.0034	<0.0047	<0.0041	<0.0049	<0.0050	<0.0039	<0.0040	<0.0038	<0.0023	<0.0055	<0.0045	<0.0050	<0.0041
Bromoform	mg/kg	<0.0044	<0.0042	<0.0038	<0.0045	<0.0043	<0.0051	<0.0033	<0.0035	<0.0034	<0.0047	<0.0034	<0.0034	<0.0047	<0.0041	<0.0049	<0.0050	<0.0039	<0.0040	<0.0038	<0.0023	<0.0055	<0.0045	<0.0050	<0.0041
Bromomethane	mg/kg	<0.0088	<0.0084	<0.0075	<0.0091	<0.0085	<0.0102	<0.0066	<0.0071	<0.0069	<0.0093	<0.0067	<0.0068	<0.0094	<0.0081	<0.0098	<0.0100	<0.0077	<0.0079	<0.0076	<0.0047	<0.0109	<0.0090	<0.0100	<0.0082
Carbon Disulfide	mg/kg	<0.0044	<0.0042	<0.0038	<0.0045	<0.0043	<0.0051	<0.0033	<0.0035	<0.0034	<0.0047	<0.0034	<0.0034	<0.0047	<0.0041	<0.0049	<0.0050	<0.0039	<0.0040	<0.0038	<0.0023	<0.0055	<0.0045	<0.0050	<0.0041
Carbon Tetrachloride	mg/kg	<0.0044	<0.0042	<0.0038	<0.0045	<0.0043	<0.0051	<0.0033	<0.0035	<0.0034	<0.0047	<0.0034	<0.0034	<0.0047	<0.0041	<0.0049	<0.0050	<0.0039	<0.0040	<0.0038	<0.0023	<0.0055	<0.0045	<0.0050	<0.0041
Chlorobenzene	mg/kg	<0.0044	<0.0042	<0.0038	<0.0045	<0.0043	<0.0051	<0.0033	<0.0035	<0.0034	<0.0047	<0.0034	<0.0034	<0.0047	<0.0041	<0.0049	<0.0050	<0.0039	<0.0040	<0.0038	<0.0023	<0.0055	<0.0045	<0.0050	<0.0041
Chloroethane	mg/kg	<0.0088	<0.0084	<0.0075	<0.0091	<0.0085	<0.0102	<0.0066	<0.0071	<0.0069	<0.0093	<0.0067	<0.0068	<0.0094	<0.0081	<0.0098	<0.0100	<0.0077	<0.0079	<0.0076	<0.0047	<0.0109	<0.0090	<0.0100	<0.0082
Chloroform	mg/kg	<0.0044	<0.0042	<0.0038	<0.0045	<0.0043	<0.0051	<0.0033	<0.0035	<0.0034	<0.0047	<0.0034	<0.0034	<0.0047	<0.0041	<0.0049	<0.0050	<0.0039	<0.0040	<0.0038	<0.0023	<0.0055	<0.0045	<0.0050	<0.0041
Chloromethane	mg/kg	<0.0088	<0.0084	<0.0075	<0.0091	<0.0085	<0.0102	<0.0066	<0.0071	<0.0069	<0.0093	<0.0067	<0.0068	<0.0094	<0.0081	<0.0098	<0.0100	<0.0077	<0.0079	<0.0076	<0.0047	<0.0109	<0.0090	<0.0100	<0.0082
cis-1,2-Dichloroethene	mg/kg	<0.0044	<0.0042	<0.0038	<0.0045	<0.0043	<0.0051	<0.0033	<0.0035	<0.0034	<0.0047	<0.0034	<0.0034	<0.0047	<0.0041	<0.0049	<0.0050	<0.0039	<0.0040	<0.0038	<0.0023	<0.0055	<0.0045	<0.0050	<0.0041
cis-1,3-Dichloropropene	mg/kg	<0.0044	<0.0042	<0.0038	<0.0045	<0.0043	<0.0051	<0.0033	<0.0035	<0.0034	<0.0047	<0.0034	<0.0034	<0.0047	<0.0041	<0.0049	<0.0050	<0.0039	<0.0040	<0.0038	<0.0023	<0.0055	<0.0045	<0.0050	<0.0041
Dibromochloromethane	mg/kg	<0.0018	<0.0017	<0.0015	<0.0018	<0.0017	<0.0020	<0.0013	<0.0014	<0.0014	<0.0019	<0.0013	<0.0014	<0.0019	<0.0016	<0.0020	<0.0020	<0.0015	<0.0016	<0.0015	<0.0009	<0.0022	<0.0018	<0.0020	<0.0016
Dibromomethane	mg/kg	<0.0044	<0.0042	<0.0038	<0.0045	<0.0043	<0.0051	<0.0033	<0.0035	<0.0034	<0.0047	<0.0034	<0.0034	<0.0047	<0.0041	<0.0049	<0.0050	<0.0039	<0.0040	<0.0038	<0.0023	<0.0055	<0.0045	<0.0050	<0.0041
Dichlorodifluoromethane	mg/kg	<0.0088	<0.0084	<0.0075	<0.0091	<0.0085	<0.0102	<0.0066	<0.0071	<0.0069	<0.0093	<0.0067	<0.0068	<0.0094	<0.0081	<0.0098	<0.0100	<0.0077	<0.0079	<0.0076	<0.0047	<0.0109	<0.0090	<0.0100	<0.0082
Diethyl Ether	mg/kg	<0.0044	<0.0042	<0.0038	<0.0045	<0.0043	<0.0051	<0.0033	<0.0035	<0.0034	<0.0047	<0.0034	<0.0034	<0.0047	<0.0041	<0.0049	<0.0050	<0.0039	<0.0040	<0.0038	<0.0023	<0.0055	<0.0045	<0.0050	<0.0041
Di-isopropyl ether	mg/kg	<0.0044	<0.0042	<0.0038	<0.0045	<0.0043	<0.0051	<0.0033	<0.0035	<0.0034	<0.0047	<0.0034	<0.0034	<0.0047	<0.0041	<0.0049	<0.0050	<0.0039	<0.0040	<0.0038	<0.0023	<0.0055	<0.0045	<0.0050	<0.0041
Ethyl tertiary-butyl ether	mg/kg	<0.0044	<0.0042	<0.0038	<0.0045	<0.0043	<0.0051	<0.0033	<0.0035	<0.0034	<0.0047	<0.0034	<0.0034	<0.0047	<0.0041	<0.0049	<0.0050	<0.0039	<0.0040	<0.0038	<0.0023	<0.0055	<0.0045	<0.0050	<0.0041
Ethylbenzene	mg/kg	<0.0044	<0.0042	<0.0038	<0.0045	<0.0043	<0.0051	<0.0033	<0.0035	<0.0034	<0.0047	<0.0034	<0.0034	<0.0047	<0.0041	<0.0049	<0.0050	<0.0039	<0.0040	<0.0038	<0.0023	<0.0055	<0.0045	<0.0050	<0.0041
Hexachlorobutadiene	mg/kg	<0.0044	<0.0042	<0.0038	<0.0045	<0.0043	<0.0051	<0.0033	<0.0035	<0.0034	<0.0047	<0.0034	<0.0034	<0.0047	<0.0041	<0.0049	<0.0050	<0.0039	<0.0040	<0.0038	<0.0023	<0.0055	<0.0045	<0.0050	<0.0041
Isopropylbenzene	mg/kg	<0.0044	<0.0042	<0.0038	<0.0045	<0.0043	<0.0051	<0.0033	<0.0035	<0.0034	<0.0047	<0.0034	<0.0034	<0.0047	<0.0041	<0.0049	<0.0050	<0.0039	<0.0040	<0.0038	<0.0023	<0.0055	<0.0045	<0.0050	<0.0041
Methyl tert-Butyl Ether	mg/kg	<0.0044	<0.0042	<0.0038	<0.0045	<0.0043	<0.0051	<0.0033	<0.0035	<0.0034	<0.0047	<0.0034	<0.0034	<0.0047	<0.0041	<0.0049	<0.0050	<0.0039	<0.0040	<0.0038	<0.0023	<0.0055	<0.0045	<0.0050	<0.0041
Methylene Chloride	mg/kg	<0.0088	<0.0084	<0.0075	<0.0091	<0.0085	<0.0102	<0.0066	<0.0071	<0.0069	<0.0093	<0.0067	<0.0068	<0.0094	<0.0081	<0.0098	<0.0100	<0.0077	<0.0079	<0.0076	<0.0047	<0.0109	<0.0090	<0.0100	<0.0082
Naphthalene	mg/kg	<0.0044	<0.0042	<0.0038	<0.0045	<0.0043	<0.0051	<0.0033	<0.0035	<0.0034	<0.0047	<0.0034	<0.0034	<0.0047	<0.0041	<0.0049	<0.0050	<0.0039	<0.0040	<0.0038	<0.0023	<0.0055	<0.0045	<0.0050	<0.0041
n-Butylbenzene	mg/kg	<0.0044	<0.0042	<0.0038	<0.0045	<0.0043	<0.0051	<0.0033	<0.0035	<0.0034	<0.0047	<0.0034	<0.0034	<0.0047	<0.0041	<0.0049	<0.0050	<0.0039	<0.0040	<0.0038	<0.0023	<0.0055	<0.0045	<0.0050	<0.0041
n-Propylbenzene	mg/kg	<0.0044	<0.0042	<0.0038	<0.0045	<0.0043	<0.0051	<0.0033	<0.0035	<0.0034	<0.0047	<0.0034	<0.0034	<0.0047	<0.0041	<0.0049	<0.0050	<0.0039	<0.0040	<0.0038	<0.0023	<0.0055	<0.0045	<0.0050	<0.0041
sec-Butylbenzene	mg/kg	<0.0044	<0.0042	<0.0038	<0.0045	<0.0043	<0.0051	<0.0033	<0.0035	<0.0034	<0.0047	<0.0034	<0.0034	<0.0047	<0.0041	<0.0049	<0.0050	<0.0039	<0.0040	<0.0038	<0.0023	<0.0055	<0.0045	<0.0050	<0.0041

Table 1
Soil Precharacterization Data

Wynn Resort Casino
Everett, Massachusetts

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	G13 G13S08 1502289 Natural Clay 24 - 26 2/19/2015	G13 G13S09 1502289 Natural Clay 29 - 31 2/19/2015	G13 G13S10S11 1502289 Natural Sand/Gravel 34 - 38 2/19/2015	G14 G14S01S02A 1501197 Fill 0 - 3.3 1/12/2015	G14 G14S02BS04A 1501197 Fill 3.3 - 6.6 1/12/2015	G14 G14S04BS05 1501197 Fill 6.6 - 10 1/12/2015	G14 G14S06 1501197 Natural Sand/Gravel 10 - 12 1/12/2015	G14 G14S07 1501197 Natural Clay 14 - 16 1/12/2015	G14 G14S08 1501197 Natural Clay 19 - 21 1/12/2015	G14 G14S09 1501197 Natural Clay 24 - 26 1/12/2015	G14 G14S10 1501197 Natural Clay 29 - 31 1/12/2015	G14 G14S11S12 1501197 Natural Sand/Gravel 38 - 39 1/12/2015	G15 G15S01S02A 1502079 Fill 0 - 3.3 2/5/2015	G15 G15S02BS04A 1502079 Fill 3.3 - 6.6 2/5/2015	G15 G15S04BS05 1502079 Fill 6.6 - 10 2/5/2015	G15 G15S06S07A 1502102 Fill 10 - 13.3 2/6/2015	G15 G15S07B 1502102 Fill 13.3 - 14 2/6/2015	G15 G15S08 1502102 Natural Clay 14 - 16 2/6/2015	G15 G15S09 1502102 Natural Clay 19 - 21 2/6/2015	G15 G15S10 1502102 Natural Clay 24 - 26 2/6/2015	G15 G15S11 1503211 Natural Sand/Gravel 29 - 31 3/11/2015	G15 G15S12S13 1503211 Natural Sand/Gravel 34 - 38 3/11/2015	G16 G16S01S02A 1501167 Fill 0 - 3.3 1/9/2015	G16 G16S02BS04A 1501167 Fill 3.3 - 6.6 1/9/2015
Preliminary Disposal Facility Category		MCP Regulated Type A	MCP Regulated Type A	Uncontaminated	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Material Type B-2	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	Uncontaminated	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type B	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	Uncontaminated	Uncontaminated	MCP Regulated Type A	MCP Regulated Type A
Styrene	mg/kg	<0.0044	<0.0042	<0.0038	<0.0045	<0.0043	<0.0051	<0.0033	<0.0035	<0.0034	<0.0047	<0.0034	<0.0034	<0.0047	<0.0041	<0.0049	<0.0050	<0.0039	<0.0040	<0.0038	<0.0023	<0.0055	<0.0045	<0.0050	<0.0041
tert-Butylbenzene	mg/kg	<0.0044	<0.0042	<0.0038	<0.0045	<0.0043	<0.0051	<0.0033	<0.0035	<0.0034	<0.0047	<0.0034	<0.0034	<0.0047	<0.0041	<0.0049	<0.0050	<0.0039	<0.0040	<0.0038	<0.0023	<0.0055	<0.0045	<0.0050	<0.0041
Tertiary-amyl methyl ether	mg/kg	<0.0044	<0.0042	<0.0038	<0.0045	<0.0043	<0.0051	<0.0033	<0.0035	<0.0034	<0.0047	<0.0034	<0.0034	<0.0047	<0.0041	<0.0049	<0.0050	<0.0039	<0.0040	<0.0038	<0.0023	<0.0055	<0.0045	<0.0050	<0.0041
Tetrachloroethene	mg/kg	<0.0044	<0.0042	<0.0038	<0.0045	<0.0043	<0.0051	<0.0033	<0.0035	<0.0034	<0.0047	<0.0034	<0.0034	<0.0047	<0.0041	<0.0049	<0.0050	<0.0039	<0.0040	<0.0038	<0.0023	<0.0055	<0.0045	<0.0050	<0.0041
Tetrahydrofuran	mg/kg	<0.0044	<0.0042	<0.0038	<0.0045	<0.0043	<0.0051	<0.0033	<0.0035	<0.0034	<0.0047	<0.0034	<0.0034	<0.0047	<0.0041	<0.0049	<0.0050	<0.0039	<0.0040	<0.0038	<0.0023	<0.0055	<0.0045	<0.0050	<0.0041
Toluene	mg/kg	<0.0044	<0.0042	<0.0038	<0.0045	<0.0043	<0.0051	<0.0033	<0.0035	<0.0034	<0.0047	<0.0034	<0.0034	<0.0047	<0.0041	<0.0049	<0.0050	<0.0039	<0.0040	<0.0038	<0.0023	<0.0055	<0.0045	<0.0050	<0.0041
trans-1,2-Dichloroethene	mg/kg	<0.0044	<0.0042	<0.0038	<0.0045	<0.0043	<0.0051	<0.0033	<0.0035	<0.0034	<0.0047	<0.0034	<0.0034	<0.0047	<0.0041	<0.0049	<0.0050	<0.0039	<0.0040	<0.0038	<0.0023	<0.0055	<0.0045	<0.0050	<0.0041
trans-1,3-Dichloropropene	mg/kg	<0.0044	<0.0042	<0.0038	<0.0045	<0.0043	<0.0051	<0.0033	<0.0035	<0.0034	<0.0047	<0.0034	<0.0034	<0.0047	<0.0041	<0.0049	<0.0050	<0.0039	<0.0040	<0.0038	<0.0023	<0.0055	<0.0045	<0.0050	<0.0041
Trichloroethene	mg/kg	<0.0044	<0.0042	<0.0038	<0.0045	<0.0043	<0.0051	<0.0033	<0.0035	<0.0034	<0.0047	<0.0034	<0.0034	<0.0047	<0.0041	<0.0049	<0.0050	<0.0039	<0.0040	<0.0038	<0.0023	<0.0055	<0.0045	<0.0050	<0.0041
Trichlorofluoromethane	mg/kg	<0.0044	<0.0042	<0.0038	<0.0045	<0.0043	<0.0051	<0.0033	<0.0035	<0.0034	<0.0047	<0.0034	<0.0034	<0.0047	<0.0041	<0.0049	<0.0050	<0.0039	<0.0040	<0.0038	<0.0023	<0.0055	<0.0045	<0.0050	<0.0041
Vinyl Chloride	mg/kg	<0.0088	<0.0084	<0.0075	<0.0091	<0.0085	<0.0102	<0.0066	<0.0071	<0.0069	<0.0093	<0.0067	<0.0068	<0.0094	<0.0081	<0.0098	<0.0100	<0.0077	<0.0079	<0.0076	<0.0047	<0.0109	<0.0090	<0.0100	<0.0082
Xylene O	mg/kg	<0.0044	<0.0042	<0.0038	<0.0045	<0.0043	<0.0051	<0.0033	<0.0035	<0.0034	<0.0047	<0.0034	<0.0034	<0.0047	<0.0041	<0.0049	<0.0050	<0.0039	<0.0040	<0.0038	<0.0023	<0.0055	<0.0045	<0.0050	<0.0041
Xylene P,M	mg/kg	<0.0088	<0.0084	<0.0075	<0.0091	<0.0085	<0.0102	<0.0066	<0.0071	<0.0069	<0.0093	<0.0067	<0.0068	<0.0094	<0.0081	<0.0098	<0.0100	<0.0077	<0.0079	<0.0076	<0.0047	<0.0109	<0.0090	<0.0100	<0.0082
Xylenes (Total)	mg/kg	<0.0088	<0.0084	<0.0075	<0.0091	<0.0085	<0.0102	<0.0066	<0.0071	<0.0069	<0.0093	<0.0067	<0.0068	<0.0094	<0.0081	<0.0098	<0.0100	<0.0077	<0.0079	<0.0076	<0.0047	<0.0109	<0.0090	<0.0100	<0.0082
Total VOCs (Low Level)	mg/kg	ND	0.0153	ND	0.014	ND	0.0537	0.0254	0.0106	ND	ND	0.0311	ND	ND	ND	0.0219	0.1692	0.0548	0.0337	ND	0.0147	ND	ND	ND	ND
Semi-Volatile Organic Compounds																									
1,2,4-Trichlorobenzene	mg/kg	<1.06	<1.11	<0.865	<0.867	<0.882	<0.858	<0.873	<1.02	<1.09	<1.10	<1.01	<0.964	<0.881	<0.909	<5.28	<1.10	<1.01	<1.08	<1.07	<1.04	<0.909	<0.843	<0.887	<0.864
1,2-Dichlorobenzene	mg/kg	<1.06	<1.11	<0.865	<0.867	<0.882	<0.858	<0.873	<1.02	<1.09	<1.10	<1.01	<0.964	<0.881	<0.909	<5.28	<1.10	<1.01	<1.08	<1.07	<1.04	<0.909	<0.843	<0.887	<0.864
1,3-Dichlorobenzene	mg/kg	<1.06	<1.11	<0.865	<0.867	<0.882	<0.858	<0.873	<1.02	<1.09	<1.10	<1.01	<0.964	<0.881	<0.909	<5.28	<1.10	<1.01	<1.08	<1.07	<1.04	<0.909	<0.843	<0.887	<0.864
1,4-Dichlorobenzene	mg/kg	<0.534	<0.556	<0.434	<0.435	<0.442	<0.430	<0.438	<0.509	<0.546	<0.550	<0.508	<0.484	<0.442	<0.456	<2.65	<0.550	<0.506	<0.542	<0.538	<0.521	<0.456	<0.423	<0.445	<0.433
2,4,5-Trichlorophenol	mg/kg	<1.06	<1.11	<0.865	<0.867	<0.882	<0.858	<0.873	<1.02	<1.09	<1.10	<1.01	<0.964	<0.881	<0.909	<5.28	<1.10	<1.01	<1.08	<1.07	<1.04	<0.909	<0.843	<0.887	<0.864
2,4,6-Trichlorophenol	mg/kg	<1.06	<1.11	<0.865	<0.867	<0.882	<0.858	<0.873	<1.02	<1.09	<1.10	<1.01	<0.964	<0.881	<0.909	<5.28	<1.10	<1.01	<1.08	<1.07	<1.04	<0.909	<0.843	<0.887	<0.864
2,4-Dichlorophenol	mg/kg	<1.06	<1.11	<0.865	<0.867	<0.882	<0.858	<0.873	<1.02	<1.09	<1.10	<1.01	<0.964	<0.881	<0.909	<5.28	<1.10	<1.01	<1.08	<1.07	<1.04	<0.909	<0.843	<0.887	<0.864
2,4-Dimethylphenol	mg/kg	<1.06	<1.11	<0.865	<0.867	<0.882	<0.858	<0.873	<1.02	<1.09	<1.10	<1.01	<0.964	<0.881	<0.909	<5.28	<1.10	<1.01	<1.08	<1.07	<1.04	<0.909	<0.843	<0.887	<0.864
2,4-Dinitrophenol	mg/kg	<5.34	<5.56	<4.34	<4.35	<4.42	<4.30	<4.38	<5.09	<5.46	<5.50	<5.08	<4.84	<4.42	<4.56	<26.5	<5.50	<5.06	<5.42	<5.38	<5.21	<4.56	<4.23	<4.45	<4.33
2,4-Dinitrotoluene	mg/kg	<1.06	<1.11	<0.865	<0.867	<0.882	<0.858	<0.873	<1.02	<1.09	<1.10	<1.01	<0.964	<0.881	<0.909	<1.32	<1.10	<1.01	<1.08	<1.07	<1.04	<0.909	<0.843	<0.887	<0.864
2,6-Dinitrotoluene	mg/kg	<1.06	<1.11	<0.865	<0.867	<0.882	<0.858	<0.873	<1.02	<1.09	<1.10	<1.01	<0.964	<0.881	<0.909	<5.28	<1.10	<1.01	<1.08	<1.07	<1.04	<0.909	<0.843	<0.887	<0.864
2-Chloronaphthalene	mg/kg	<1.06	<1.11	<0.865	<0.867	<0.882	<0.858	<0.873	<1.02	<1.09	<1.10	<1.01	<0.964	<0.881	<0.909	<5.28	<1.10	<1.01	<1.08	<1.07	<1.04	<0.909	<0.843	<0.887	<0.864
2-Chlorophenol	mg/kg	<1.06	<1.11	<0.865	<0.867	<0.882	<0.858	<0.873	<1.02	<1.09	<1.10	<1.01	<0.964	<0.881	<0.909	<5.28	<1.10	<1.01	<1.08	<1.07	<1.04	<0.909	<0.843	<0.887	<0.864
2-Methylnaphthalene	mg/kg	<1.06	<1.11	<0.865	<0.867	<0.882	<0.858	<0.873	<1.02	<1.09	<1.10	<1.01	<0.964	<0.881	<0.909	<5.28	<1.10	<1.01	<1.08	<1.07	<1.04	<0.909	<0.843	<0.887	<0.864
2-Methylphenol	mg/kg	<1.06	<1.11	<0.865	<0.867	<0.882	<0.858	<0.873	<1.02	<1.09	<1.10	<1.01	<0.964	<0.881	<0.909	<5.28	<1.10	<1.01	<1.08	<1.07	<1.04	<0.909	<0.843	<0.887	<0.864
2-Nitrophenol	mg/kg	<1.06	<1.11	<0.865	<0.867	<0.882	<0.858	<0.873	<1.02	<1.09	<1.10	<1.01	<0.964	<0.881	<0.909	<5.28	<1.10	<1.01	<1.08	<1.07	<1.04	<0.909	<0.843	<0.887	<0.864
3,3´-Dichlorobenzidine	mg/kg	<2.13	<2.22	<1.73	<1.74	<1.77	<1.72	<1.75	<2.03	<2.18	<2.19	<2.03	<1.93	<1.76	<1.82	<10.6	<2.20	<2.02	<2.16	<2.15	<2.08	<1.82	<1.69	<1.78	<1.73
3+4-Methylphenol	mg/kg	<2.13	<2.22	<1.73	<1.74	<1.77	<1.72	<1.75	<2.03	<2.18	<2.19	<2.03	<1.93	<1.76	<1.82	<10.6	<2.20	<2.02	<2.16	<2.15	<2.08	<1.82	<1.69	<1.78	<1.73
4-Bromophenyl-phenylether	mg/kg	<1.06	<1.11	<0.865	<0.867	<0.882	<0.858	<0.873	<1.02	<1.09	<1.10	<1.01	<0.964	<0.881	<0.909	<5.28	<1.10	<1.01	<1.08	<1.07	<1.04	<0.909	<0.843	<0.887	<0.864
4-Chloroaniline	mg/kg	<2.13	<2.22	<1.73	<1.74	<1.77	<1.72	<1.75	<2.03	<2.18	<2.19	<2.03	<1.93	<1.76	<1.82	<2.65	<2.20	<2.02	<2.16	<2.15	<2.08	<1.82	<1.69	<1.78	<1.73
4-Nitrophenol	mg/kg	<5.34	<5.56	<4.34	<4.35	<4.42	<4.30	<4.38	<5.09	<5.46	<5.50	<5.08	<4.84	<4.42	<4.56	<26.5	<5.50	<5.06	<5.42	<5.38	<5.21	<4.56	<4.23	<4.45	<4.33
Acenaphthene	mg/kg	<1.06	<1.11	<0.865	<0.867	<0.882	<0.858	<0.873	<1.02	<1.09	<1.10	<1.01	<0.964	<0.881	<0.909	<5.28	<1.10	<1.01	<1.08	<1.07	<1.04	<0.909	<0.843	<0.887	<0.864
Acenaphthylene	mg/kg	<1.06	<1.11	<0.865	<0.867	<0.882	<0.858	<0.873	<1.02	<1.09	<1.10	<1.01	<0.964	<0.881	<0.909	<5.28	<1.10	<1.01	<1.08	<1.07	<1.04	<0.909	<0.843	<0.887	<0.864
Acetophenone	mg/kg	<2.13	<2.22	<1.73	<1.74	<1.77	<1.72	<1.75	<2.03	<2.18	<2.19	<2.03	<1.93	<1.76	<1.82	<10.6	<2.20	<2.02	<2.16	<2.15	<2.08	<1.82	<1.69	<1.78	<1.73
Aniline	mg/kg	<5.34	<5.56	<4.34	<4.35	<4.42	<4.30	<4.38	<5.09	<5.46	<5.50	<5.08	<4.84	<4.42	<4.56	<26.5	<5.50	<5.06	<5.42	<5.38	<5.21	<4.56	<4.23	<4.45	<4.33
Anthracene	mg/kg	<1.06	<1.11	<0.865	<0.867	<0.882	<0.858	<0.873	<1.02	<1.09	<1.10	<1.01	<0.964	<0.881	<0.909	<5.28	<1.10	<1.01	<1.08	<1.07	<1.04	<0.909	<0.843	<0.887	<0.864
Azobenzene	mg/kg	<1.06	<1.11	<0.865	<0.867	<0.882	<0.858	<0.873	<1.02	<1.09	<1.10	<1.01	<0.964	<0.881	<0.909	<5.28	<1.10	<1.01	<1.08	<1.07	<1.04	<0.909	<0.843	<0.887	<0.864
Benzo(a)anthracene	mg/kg	<1.06	<1.11	<0.865	1.39	<0.882	<0.858	<0.873	<1.02	<1.09	<1.10	<1.01	<0.964	<0.881	<0.909	<5.28	<1.10	<1.01	<1.08	<1.07	<1.04	<0.909	<0.843	<0.887	<0.864
Benzo(a)pyrene	mg/kg	<0.534	<0.556	<0.434	1.33	<0.442	<0.430	<0.438	<0.509	<0.546	<0.550	<0.508	<0.484	<0.442	<0.456	<2.65	<0.550	0.588	<0.542	<0.538	<0.521	<0.456	<0.423	<0.445	<0.433
Benzo(b)fluoranthene	mg/kg	<1.06	<1.11	<0.865	1.74	<0.882	<0.858	<0.873	<1.02	<1.09	<1.10	<1.01	<0.964	<0.881	<0.909	<5.28	<1.10	<1.01	<1.08	<1.07	<1.04	<0.909	<0.843	<0.887	<0.864
Benzo(g,h,i)perylene	mg/kg	<1.06	<1.11	<0.865	<0.867	<0.882	<0.858	<0.873	<1.02	<1.09	<1.10	<1.01	<0.964	<0.881	<0.909	<5.28	<1.10	<1.01	<1.08	<1.07	<1.04	<0.909	<0.843	<0.887	<0.864
Benzo(k)fluoranthene	mg/kg	<1.06	<1.11	<0.865	<0.867	<0.882	<0.858	<0.873	<1.02	<1.09	<1.10	<1.01	<0.964	<0.881	<0.909	<5.28	<1.10	<1.01	<1.08	<1.07	<1.04	<0.909	<0.843	<0.887	<0.864
bis(2-Chloroethoxy)methane	mg/kg	<1.06	<1.11	<0.865	<0.867	<0.882	<0.858	<0.873	<1.02	<1.09	<1.10	<1.01	<0.964	<0.881	<0.909	<5.28	<1.10	<1.01	<1.08	<1.07	<1.04	<0.909	<0.843	<0.887	<0.864
bis(2-Chloroethyl)ether	mg/kg	<0.534	<0.556	<0.434	<0.435	<0.442	<0.430	<0.438	<0.509	<0.546	<0.550	<0.508	<0.484	<0.442	<0.456	<0.523	<0.550	<0.506	<0.542	<0.538	<0.521	<0.456	<0.423	<0.445	<0.433
bis(2-chloroisopropyl)Ether	mg/kg	<0.534	<0.556	<0.434	<0.435	<0.442	<0.430	<0.438	<0.509	<0.546	<0.550	<0.508	<0.484	<0.442	<0.456	<0.523	<0.550	<0.506	<0.542	<0.538	<0.521	<0.456	<0.423	<0.445	<0.433
bis(2-Ethylhexyl)phthalate	mg/kg	<1.06	<1.11	<0.865	<0.867	<0.882	<0.858	<0.873	<1.02	<1.09	<1.10	<1.01	<0.964	<0.881	<0.909	<5.28	<1.10	<1.01	<1.08	<1.07	4.63	<0.909	<0.843	<0.887	<0.864
Butylbenzylphthalate	mg/kg	<1.06	<1.11	<0.865	<0.867	<0.882	<0.858	<0.873	<1.02	<1.09	<1.10	<1.01	<0.964	<0.881	<0.909	<5.28	<1.10	<1.01	<1.08	<1.07	<1.04	<0.909	<0.843	<0.887	<0.864
Chrysene	mg/kg	<0.534	<0.556	<0.434	1.21	<0.442	0.536	<0.438	<0.509	<0.546	<0.550	<0.508	<0.484	<0.442	<0.456	<2.65	<0.550	0.917	<0.542	<0.538	<0.521	<0.456	<0.423	<0.445	<0.433
Dibenzo(a,h)Anthracene	mg/kg	<0.534	<0.556	<0.434	<0.435	<0.442	<0.430	<0.438	<0.509	<0.546	<0.550	<0.508	<0.484	<0.442	<0.456	<2.65	<0.550	<0.506	<0.542	<0.538	<0.521	<0.456	<0.423	<0.445	<0.433
Dibenzofuran	mg/kg	<1.06	<1.11	<0.865	<0.867	<0.882	<0.858	<0.873	<1.02	<1.09	<1.10	<1.01	<0.964	<0.881	<0.909	<5.28	<1.10	<1.01	<1.08	<1.07	<1.04	<0.909	<0.843	<0.887	<0.864
Diethylphthalate	mg/kg	<1.06	<1.11	<0.865	<0.867	<0.882	<0.858	<0.873	<1.02	<1.09	<1.10	<1.01	<0.964	<0.881	<0.909	<5.28	<1.10	<1.01	<1.08	<1.07	<1.04	<0.909	<0.843	<0.887	<0.864
Dimethylphthalate	mg/kg	<1.06	<1.11	<0.865	<0.867	<0.882	<0.858	<0.873	<1.02	<1.09	<1.10	<1.01	<0.964	<0.881	<0.909	<5.28	<1.10	<1.01	<1.08	<1.07	<1.04	<0.909	<0.843	<0.887	<0.864
Di-n-butylphthalate	mg/kg	<1.06	<1.11	<0.865	<0.867	<0.882	<0.858	<0.873	<1.02	<1.09	<1.10	<1.01	<0.964	<0.881	<0.909	<5.28	<1.10	<1.01	<1.08	<1.07	<1.04	<0.909	<0.843	<0.887	<0.864
Di-n-octylphthalate	mg/kg	<1.06	<1.11	<0.865	<0.867	<0.882	<0.858	<0.873	<1.02	<1.09	<1.10	<1.01	<0.964	<0.881	<0.909	<5.28	<1.10	<1.01	<1.08	<1.07	<1.04	<0.909	<0.843	<0.887	<0.864
Fluoranthene	mg/kg	<1.06	<1.11	<0.865	2.75	<0.882	0.918	<0.873	<1.02	<1.09	<1.10	<1.01	<0.964	<0.881	<0.909	<5.28	<1.10	1.81	<1.08	<1.07	<1.04	<0.909	<0.843	<0.887	<0.864
Fluorene	mg/kg	<1.06	<1.11	<0.865	<0.867	<0.882	<0.858	<0.873	<1.02	<1.09	<1.10	<1.01	<0.964	<0.881	<0.909	<5.28	<1.10	<1.01	<1.08	<1.07	<1.04	<0.909	<0.843	<0.887	<0.864
Hexachlorobenzene	mg/kg	<0.534	<0.556	<0.434	<0.435	<0.442	<0.430	<0.438	<0.509	<0.546	<0.550	<0.508	<0.484	<0.442	<0.456	<1.32	<0.550	<0.506	<0.542	<0.538	<0.521	<0.456	<0.423	<0.445	<0.433
Hexachlorobutadiene	mg/kg	<1.06	<1.11	<0.865	<0.867	<0.882	<0.858	<0.873	<1.02	<1.09	<1.10	<1.01	<0.964	<0.881	<0.909	<5.28	<1.10	<1.01	<1.08	<1.07	<1.04	<0.909	<0.843	<0.887	<0.864
Hexachloroethane	mg/kg	<1.06	<1.11	<0.865	<0.867	<0.882	<0.858	<0.873	<1.02	<1.09	<1.10	<1.01	<0.964	<0.881	<0.909	<2.65	<1.10	<1.01	<1.08	<1.07	<1.04	<0.909	<0.843	<0.887	<0.864
Indeno(1,2,3-cd)Pyrene	mg/kg	<1.06	<1.11	<0.865	<0.867	<0.882	<0.858	<0.873	<1.02	<1.09	<1.10	<1.01	<0.964	<0.881	<0.909	<5.28	<1.10	<1.01	<1.08	<1.07	<1.04	<0.909	<0.843	<0.887	<0.864
Isophorone	mg/kg	<1.06	<1.11	<0.865	<0.867	<0.882	<0.858	<0.873	<1.02	<1.09	<1.10	<1.01	<0.964	<0.881	<0.909	<5.28	<1.10	<1.01	<1.08	<1.07	<1.04	<0.909	<0.843	<0.887	<0.864
Naphthalene	mg/kg	<1.06	<1.11	<0.865	<0.867	<0.882	<0.858	<0.873	<1.02	<1.09	<1.10	<1.01	<0.964	<0.881	<0.909	<5.28	<1.10	<1.01	1.33	<1.07	<1.04	<0.909	<0.843	<0.887	<0.864
Nitrobenzene	mg/kg	<1.06	<1.11	<0.865	<0.867	<0.882	<0.858	<0.873	<1.02	<1.09	<1.10	<1.01	<0.964	<0.881	<0.909	<5.28	<1.10	<1.01	<1.08	<1.07	<1.04	<0.909	<0.843	<0.887	<0.864
N-Nitrosodimethylamine	mg/kg	<1.06	<1.11	<0.865	<0.867	<0.882	<0.858	<0.873	<1.02	<1.09	<1.10	<1.01	<0.964	<0.881	<0.909	<5.28	<1.10	<1.01	<1.08	<1.07	<1.04	<0.909	<0.843	<0.887	<0.864
Pentachlorophenol	mg/kg	<5.34	<5.56	<4.34	<4.35	<4.42	<4.30	<4.38	<5.09	<5.46	<5.50	<5.08	<4.84	<4.42	<4.56	<5.28	<5.50	<5.06	<5.42	<5.38	<5.21	<4.56	<4.23	<4.45	<4.33
Phenanthrene	mg/kg	<1.06	<1.11	<0.865	1.02	<0.882	<0.858	<0.873	<1.02	<1.09	<1.10	<1.01	<0.964	<0.881	<0.909	<5.28	<1.10	1.4	<1.08	<1.07	<1.04	<0.909	<0.843	<0.887	<0.864
Phenol	mg/kg	<1.06	<1.11	<0.865	<0.867	<0.882	<0.858	<0.873	<1.02	<1.09	<1.10	<1.01	<0.964	<0.881	<0.909	<5.28	<1.10	<1.01	<1.08	<1.07	<1.04	<0.909	<0.843	<0.887	<0.864
Pyrene	mg/kg	<1.06	<1.11	<0.865	1.65	<0.882	<0.858	<0.873	<1.02	<1.09	<1.10	<1.01	<0.964	<0.881	<0.909	<5.28	<1.10	1.3	<1.08	<1.07	<1.04	<0.909	<0.843	<0.887	<0.864
Total SVOCs	mg/kg	ND	ND	ND	11.09	ND	1.454	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.015	1.33	ND	4.63	ND	ND	ND	ND
Classic Chemistry																									
Corrosivity (pH)	S.U.	6.36	5.19	5.18	8.75	8.21	6.57	6.41	4.64	6.89	6.86	6.35	4.83	8.77	8.77	7.39	6.67	6.26	6.76	6.39	5.6	5.24	5.75	9.1	9.13
Conductivity	umhos/cm	2260	1710	1310	181	998	1140	510	1610	3130	4730	4480	4540	152	168	1140	617	808	669	622	980	262	180	326	395
Flashpoint	°F	--	--	--	>200	>200	>200	--	--	--	--	--	--	>200	>200	>200	>200	>200	--	--	--	--	--	>200	>200
Reactive Cyanide	mg/kg	--	--	--	<2.0	<2.0	<2.0	--	--	--	--	--	--	<2.0	<2.0	<2.0	<2.0	<2.0	--	--	--	--	--	<2.0	<2.0
Reactive Sulfide	mg/kg	--	--	--	<2.0	<2.0	4.5	--	--	--	--	--	--	<2.0	<2.0	<2.0	<2.0	<2.0	--	--	--	--	--	<2.0	<2.0

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	G16 G16S04BS05 1501167 Fill 6.6 - 10 1/9/2015	G16 G16S06S07 1501167 Fill 10 - 14 1/9/2015	G16 G16S08 1501167 Fill 14 - 16 1/9/2015	G16 G16S09 1501167 Natural Clay 19 - 21 1/9/2015	G16 G16S10 1501197 Natural Clay 24 - 26 1/12/2015	G16 G16S11 1501197 Natural Sand/Gravel 29 - 31 1/12/2015	G16 G16S12S13 1501197 Natural Sand/Gravel 38 - 39 1/12/2015	G17 G17S01S02A 1501110 Fill 0 - 3.3 1/7/2015	G17 G17S02BS04A 1501110 Fill 3.3 - 6.6 1/7/2015	G17 G17S04BS05 1501110 Fill 6.6 - 10 1/7/2015	G17 G17S06S07A 1501110 Fill 10 - 13.3 1/7/2015	G17 G17S07BS09A 1501110 Fill 13.3 - 16.6 1/7/2015	G17 G17S09B 1501110 Fill 16.6 - 18 1/7/2015	G17 G17S10 1501110 Natural Sand/Gravel 18 - 24 1/7/2015	G17 G17S11 1501110 Natural Sand/Gravel 24 - 29 1/7/2015	G17 G17S12 1501167 Natural Sand/Gravel 29 - 31 1/9/2015	G17 G17S13S14S15 1501167 Natural Sand/Gravel 34 - 40 1/9/2015	G18 G18S01S02A 1501030 Fill 0 - 3.3 1/5/2015	G18 G18S02S04A 1501030 Fill 3.3 - 6.6 1/5/2015	G18 G18S04B 1501030 Fill 6.6 - 8 1/5/2015	G18 G18S05S06 1501056 Fill 8 - 12 1/6/2015	G18 G18S07 1501056 Natural Organics 12 - 16 1/6/2015	G18 G18S09 1501056 Natural Organics 19 - 21 1/6/2015	G18 G18S10 1501110 Natural Sand/Gravel 24 - 26 1/6/2015
Preliminary Disposal Facility Category		Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type B	Hazardous Material Type B	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type B	Hazardous Material Type A	MCP Regulated Type A
RCRA 8 Metals	**Units**																							
Arsenic	mg/kg	147	52.3	53.3	<13.1	<11.3	14.1	<11.0	<11.5	<13.7	36.6	194	86.6	69	14.3	<12.0	<10.6	<10.7	6.69	10.6	155	122	262	73.7	<12.4
Barium	mg/kg	277	226	57.6	46.5	20.6	15.5	13.9	19.2	24.5	239	65.6	82.5	111	<12.9	13.6	<10.6	48.6	15.3	25	236	58.1	73.5	112	<12.4
Cadmium	mg/kg	6.08	11.4	4.94	<2.63	<2.26	<2.71	<2.19	<2.29	<2.74	3.91	11	9.79	13.6	<2.59	4.25	<2.12	<2.14	<0.47	<0.48	6.1	4.16	8.59	5.41	<2.49
Chromium	mg/kg	13.5	6.13	52.2	33.1	10.5	18.3	14.8	24.1	29.8	17.8	9.68	12	13	23.7	18.9	10.1	30.4	18.7	27.4	10.4	26.5	25.4	8.7	6.15
Lead	mg/kg	1610	685	266	<26.3	183	<27.1	<21.9	<22.9	<27.4	729	1830	812	577	<25.9	<24.0	<21.2	<21.4	23.5	16.8	1270	562	1020	448	102
Selenium	mg/kg	<9.46	<11.8	<14.1	<16.8	<18.1	<10.8	<17.5	<18.3	<17.5	<8.97	<19.3	<17.4	9.58	<16.6	<19.2	<17.0	<17.1	<9.40	<9.61	<11.3	16.1	16.9	<11.7	<19.9
Silver	mg/kg	10.5	12.3	<3.52	<2.63	<2.26	<2.71	<2.19	<2.29	<2.74	4.14	<2.41	<2.17	14.2	<2.59	<2.40	<2.12	<2.14	<0.47	<0.48	7.3	1.18	2.22	8.79	<2.49
Mercury	mg/kg	0.194	0.278	1.83	<0.034	<0.039	<0.034	<0.035	<0.030	<0.034	0.192	0.217	0.623	0.832	<0.034	<0.030	<0.034	<0.031	<0.034	<0.033	0.718	4.42	4.23	1.78	<0.036
Metals by Toxicity Characteristic Leaching Procedure (TCLP)																									
Arsenic	mg/L	<0.050	--	--	--	--	--	--	--	--	--	<0.050	--	--	--	--	--	--	--	--	<0.050	<0.050	0.079	--	--
Cadmium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead	mg/L	0.075	0.274	<0.050	--	<0.050	--	--	--	--	0.122	5.74	5.35	0.764	--	--	--	--	--	--	0.132	2.97	6.39	3.1	1.44
Selenium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.00050	<0.00050	--	--
Herbicides																									
2,4,5-T	mg/kg	<0.057	<0.068	--	--	<0.063	--	--	<0.050	<0.054	<0.057	<0.056	<0.053	<0.059	--	--	--	--	<0.053	<0.054	<0.060	<0.082	--	--	--
2,4-D	mg/kg	<0.057	<0.068	--	--	<0.063	--	--	<0.050	<0.054	<0.057	<0.056	<0.053	<0.059	--	--	--	--	<0.053	<0.054	<0.060	<0.082	--	--	--
2,4-DB	mg/kg	<0.057	<0.068	--	--	<0.063	--	--	<0.050	<0.054	<0.057	<0.056	<0.053	<0.059	--	--	--	--	<0.053	<0.054	<0.060	<0.082	--	--	--
Dalapon	mg/kg	<0.69	<0.82	--	--	<0.76	--	--	<0.60	<0.65	<0.68	<0.67	<0.63	<0.71	--	--	--	--	<0.64	<0.65	<0.73	<0.99	--	--	--
Dicamba	mg/kg	<0.057	<0.068	--	--	<0.063	--	--	<0.050	<0.054	<0.057	<0.056	<0.053	<0.059	--	--	--	--	<0.053	<0.054	<0.060	<0.082	--	--	--
Dichlorprop	mg/kg	<0.057	<0.068	--	--	<0.063	--	--	<0.050	<0.054	<0.057	<0.056	<0.053	<0.059	--	--	--	--	<0.053	<0.054	<0.060	<0.082	--	--	--
Dinoseb	mg/kg	<0.34	<0.41	--	--	<0.38	--	--	<0.30	<0.33	<0.34	<0.34	<0.32	<0.36	--	--	--	--	<0.32	<0.33	<0.36	<0.50	--	--	--
MCPA	mg/kg	<14	<16	--	--	<15	--	--	<12	<13	<14	<13	<13	<14	--	--	--	--	<13	<13	<15	<20	--	--	--
MCPP	mg/kg	<14	<16	--	--	<15	--	--	<12	<13	<14	<13	<13	<14	--	--	--	--	<13	<13	<15	<20	--	--	--
Silvex (2,4,5-TP)	mg/kg	<0.057	<0.068	--	--	<0.063	--	--	<0.050	<0.054	<0.057	<0.056	<0.053	<0.059	--	--	--	--	<0.053	<0.054	<0.060	<0.082	--	--	--
Pesticides																									
4,4'-DDD	mg/kg	<0.0098	<0.0023	--	--	<0.0022	--	--	<0.0019	<0.0019	<0.00042	<0.0019	<0.0019	<0.0022	--	--	--	--	<0.0018	<0.0019	<0.0042	<0.0028	--	--	--
4,4'-DDE	mg/kg	<0.0098	<0.0023	--	--	<0.0022	--	--	<0.0019	<0.0019	<0.00042	<0.0019	<0.0019	<0.0022	--	--	--	--	<0.0018	<0.0019	<0.0042	<0.0028	--	--	--
4,4'-DDT	mg/kg	<0.0098	<0.0023	--	--	<0.0022	--	--	<0.0019	<0.0019	<0.00042	<0.0019	<0.0019	<0.0022	--	--	--	--	<0.0018	<0.0019	<0.0042	<0.0028	--	--	--
Aldrin	mg/kg	<0.0098	<0.0023	--	--	<0.0022	--	--	<0.0019	<0.0019	<0.00042	<0.0019	<0.0019	<0.0022	--	--	--	--	<0.0018	<0.0019	<0.0042	<0.0028	--	--	--
alpha-BHC	mg/kg	<0.0098	<0.0023	--	--	<0.0022	--	--	<0.0019	<0.0019	<0.00042	<0.0019	<0.0019	<0.0022	--	--	--	--	<0.0018	<0.0019	<0.0042	<0.0028	--	--	--
beta-BHC	mg/kg	<0.0098	<0.0023	--	--	<0.0022	--	--	<0.0019	<0.0019	<0.00042	<0.0019	<0.0019	<0.0022	--	--	--	--	<0.0018	<0.0019	<0.0042	<0.0028	--	--	--
Chlordane (technical)	mg/kg	<0.098	<0.023	--	--	<0.022	--	--	<0.019	<0.019	<0.0042	<0.019	<0.019	<0.022	--	--	--	--	<0.018	<0.019	<0.042	<0.028	--	--	--
delta-BHC	mg/kg	<0.0098	<0.0023	--	--	<0.0022	--	--	<0.0019	<0.0019	<0.00042	<0.0019	<0.0019	<0.0022	--	--	--	--	<0.0018	<0.0019	<0.0042	<0.0028	--	--	--
Dieldrin	mg/kg	<0.0098	<0.0023	--	--	<0.0022	--	--	<0.0019	<0.0019	<0.00042	<0.0019	<0.0019	<0.0022	--	--	--	--	<0.0018	<0.0019	<0.0042	<0.0028	--	--	--
Endosulfan I	mg/kg	<0.0098	<0.0023	--	--	<0.0022	--	--	<0.0019	<0.0019	<0.00042	<0.0019	<0.0019	<0.0022	--	--	--	--	<0.0018	<0.0019	<0.0042	<0.0028	--	--	--
Endosulfan II	mg/kg	<0.0098	<0.0023	--	--	<0.0022	--	--	<0.0019	<0.0019	<0.00042	<0.0019	<0.0019	<0.0022	--	--	--	--	<0.0018	<0.0019	<0.0042	<0.0028	--	--	--
Endosulfan sulfate	mg/kg	<0.0098	<0.0023	--	--	<0.0022	--	--	<0.0019	<0.0019	<0.00042	<0.0019	<0.0019	<0.0022	--	--	--	--	<0.0018	<0.0019	<0.0042	<0.0028	--	--	--
Endrin	mg/kg	<0.0098	<0.0023	--	--	<0.0022	--	--	<0.0019	<0.0019	<0.00042	<0.0019	<0.0019	<0.0022	--	--	--	--	<0.0018	<0.0019	<0.0042	<0.0028	--	--	--
Endrin ketone	mg/kg	<0.0098	<0.0023	--	--	<0.0022	--	--	<0.0019	<0.0019	<0.00042	<0.0019	<0.0019	<0.0022	--	--	--	--	<0.0018	<0.0019	<0.0042	<0.0028	--	--	--
gamma-BHC (Lindane)	mg/kg	<0.0098	<0.0023	--	--	<0.0022	--	--	<0.0019	<0.0019	<0.00042	<0.0019	<0.0019	<0.0022	--	--	--	--	<0.0018	<0.0019	<0.0042	<0.0028	--	--	--
Heptachlor	mg/kg	<0.0098	<0.0023	--	--	<0.0022	--	--	<0.0019	<0.0019	<0.00042	<0.0019	<0.0019	<0.0022	--	--	--	--	<0.0018	<0.0019	<0.0042	<0.0028	--	--	--
Heptachlor epoxide	mg/kg	<0.0098	<0.0023	--	--	<0.0022	--	--	<0.0019	<0.0019	<0.00042	<0.0019	<0.0019	<0.0022	--	--	--	--	<0.0018	<0.0019	<0.0042	<0.0028	--	--	--
Hexachlorobenzene	mg/kg	<0.0098	<0.0023	--	--	<0.0022	--	--	<0.0019	<0.0019	<0.00042	<0.0019	0.0042	<0.0022	--	--	--	--	<0.0018	<0.0019	<0.0042	<0.0028	--	--	--
Methoxychlor	mg/kg	<0.0098	<0.0023	--	--	<0.0022	--	--	<0.0019	<0.0019	<0.00042	<0.0019	<0.0019	<0.0022	--	--	--	--	<0.0018	<0.0019	<0.0042	<0.0028	--	--	--
Polychlorinated Biphenyls																									
Aroclor 1016	mg/kg	<0.133	<0.152	<0.205	<0.147	<0.147	<0.137	<0.144	<0.128	<0.137	<0.134	<0.118	<0.138	<0.142	<0.135	<0.127	<0.143	<0.133	<0.125	<0.126	<0.148	<0.155	<0.157	<0.159	<0.135
Aroclor 1221	mg/kg	<0.133	<0.152	<0.205	<0.147	<0.147	<0.137	<0.144	<0.128	<0.137	<0.134	<0.118	<0.138	<0.142	<0.135	<0.127	<0.143	<0.133	<0.125	<0.126	<0.148	<0.155	<0.157	<0.159	<0.135
Aroclor 1232	mg/kg	<0.133	<0.152	<0.205	<0.147	<0.147	<0.137	<0.144	<0.128	<0.137	<0.134	<0.118	<0.138	<0.142	<0.135	<0.127	<0.143	<0.133	<0.125	<0.126	<0.148	<0.155	<0.157	<0.159	<0.135
Aroclor 1242	mg/kg	<0.133	<0.152	<0.205	<0.147	<0.147	<0.137	<0.144	<0.128	<0.137	<0.134	<0.118	<0.138	<0.142	<0.135	<0.127	<0.143	<0.133	<0.125	<0.126	<0.148	<0.155	<0.157	<0.159	<0.135
Aroclor 1248	mg/kg	<0.133	<0.152	<0.205	<0.147	<0.147	<0.137	<0.144	<0.128	<0.137	<0.134	<0.118	<0.138	<0.142	<0.135	<0.127	<0.143	<0.133	<0.125	<0.126	<0.148	<0.155	<0.157	<0.159	<0.135
Aroclor 1254	mg/kg	<0.133	<0.152	<0.205	<0.147	<0.147	<0.137	<0.144	<0.128	<0.137	<0.134	<0.118	<0.138	<0.142	<0.135	<0.127	<0.143	<0.133	<0.125	<0.126	<0.148	<0.155	<0.157	<0.159	<0.135
Aroclor 1260	mg/kg	<0.133	<0.152	<0.205	<0.147	<0.147	<0.137	<0.144	<0.128	<0.137	<0.134	<0.118	<0.138	<0.142	<0.135	<0.127	<0.143	<0.133	<0.125	<0.126	<0.148	<0.155	<0.157	<0.159	<0.135
Aroclor 1262	mg/kg	<0.133	<0.152	<0.205	<0.147	<0.147	<0.137	<0.144	<0.128	<0.137	<0.134	<0.118	<0.138	<0.142	<0.135	<0.127	<0.143	<0.133	<0.125	<0.126	<0.148	<0.155	<0.157	<0.159	<0.135
Aroclor 1268	mg/kg	<0.133	<0.152	<0.205	<0.147	<0.147	<0.137	<0.144	<0.128	<0.137	<0.134	<0.118	<0.138	<0.142	<0.135	<0.127	<0.143	<0.133	<0.125	<0.126	<0.148	<0.155	<0.157	<0.159	<0.135
Total PCBs	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Petroleum Hydrocarbons	mg/kg	300	57.8	632	<47.7	<46.7	<44.2	<47.0	<39.4	<42.4	603	<43.3	<45.4	119	<40.6	<44.7	<37.0	<41.4	<38.6	<43.2	203	475	562	209	<48.2
Volatile Organic Compounds (VOCs)																									
1,1,1,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.101	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0507	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0507	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0507	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0507	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0507	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0507	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0507	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0507	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0507	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0507	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-Chloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.203	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0507	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0507	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0507	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0507	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0507	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0507	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0507	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0507	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane - Screen	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<5.07	--	--	--	--	--	--	--	--	--	--	--	--
2,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.101	--	--	--	--	--	--	--	--	--	--	--	--
2-Butanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.203	--	--	--	--	--	--	--	--	--	--	--	--
2-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0507	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.203	--	--	--	--	--	--	--	--	--	--	--	--
4-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0507	--	--	--	--	--	--	--	--	--	--	--	--
4-Isopropyltoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0507	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-Pentanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.203	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	0.288	--	--	--	--	--	--	--	--	--	--	--	--
Benzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0507	--	--	--	--	--	--	--	--	--	--	--	--
Bromobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0507	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0507	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0507	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0507	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.101	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Disulfide	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0507	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0507	--	--	--	--	--	--	--	--	--	--	--	--

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	G16 G16S04BS05 1501167 Fill 6.6 - 10 1/9/2015	G16 G16S06S07 1501167 Fill 10 - 14 1/9/2015	G16 G16S08 1501167 Fill 14 - 16 1/9/2015	G16 G16S09 1501167 Natural Clay 19 - 21 1/9/2015	G16 G16S10 1501197 Natural Clay 24 - 26 1/12/2015	G16 G16S11 1501197 Natural Sand/Gravel 29 - 31 1/12/2015	G16 G16S12S13 1501197 Natural Sand/Gravel 38 - 39 1/12/2015	G17 G17S01S02A 1501110 Fill 0 - 3.3 1/7/2015	G17 G17S02BS04A 1501110 Fill 3.3 - 6.6 1/7/2015	G17 G17S04BS05 1501110 Fill 6.6 - 10 1/7/2015	G17 G17S06S07A 1501110 Fill 10 - 13.3 1/7/2015	G17 G17S07BS09A 1501110 Fill 13.3 - 16.6 1/7/2015	G17 G17S09B 1501110 Fill 16.6 - 18 1/7/2015	G17 G17S10 1501110 Natural Sand/Gravel 18 - 24 1/7/2015	G17 G17S11 1501110 Natural Sand/Gravel 24 - 29 1/7/2015	G17 G17S12 1501167 Natural Sand/Gravel 29 - 31 1/9/2015	G17 G17S13S14S15 1501167 Natural Sand/Gravel 34 - 40 1/9/2015	G18 G18S01S02A 1501030 Fill 0 - 3.3 1/5/2015	G18 G18S02S04A 1501030 Fill 3.3 - 6.6 1/5/2015	G18 G18S04B 1501030 Fill 6.6 - 8 1/5/2015	G18 G18S05S06 1501056 Fill 8 - 12 1/6/2015	G18 G18S07 1501056 Natural Organics 12 - 16 1/6/2015	G18 G18S09 1501056 Natural Organics 19 - 21 1/6/2015	G18 G18S10 1501110 Natural Sand/Gravel 24 - 26 1/6/2015
Preliminary Disposal Facility Category		Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type B	Hazardous Material Type B	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type B	Hazardous Material Type A	MCP Regulated Type A
Chlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0507	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.101	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0507	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.101	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0507	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0507	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0507	--	--	--	--	--	--	--	--	--	--	--	--
Dibromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0507	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0507	--	--	--	--	--	--	--	--	--	--	--	--
Diethyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0507	--	--	--	--	--	--	--	--	--	--	--	--
Di-isopropyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0507	--	--	--	--	--	--	--	--	--	--	--	--
Ethyl tertiary-butyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0507	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0507	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0507	--	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0507	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0507	--	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.203	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0507	--	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0507	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0507	--	--	--	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0507	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0507	--	--	--	--	--	--	--	--	--	--	--	--
tert-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0507	--	--	--	--	--	--	--	--	--	--	--	--
Tertiary-amyl methyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0507	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0507	--	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.203	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0507	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0507	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0507	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0507	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0507	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0507	--	--	--	--	--	--	--	--	--	--	--	--
Xylene O	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.0507	--	--	--	--	--	--	--	--	--	--	--	--
Xylene P,M	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.101	--	--	--	--	--	--	--	--	--	--	--	--
Xylenes (Total)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	<0.101	--	--	--	--	--	--	--	--	--	--	--	--
Total VOCs	mg/kg	--	--	--	--	--	--	--	--	--	--	--	0.288	--	--	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds - Low Level Analysis																									
1,1,1,2-Tetrachloroethane	mg/kg	<0.0039	<0.0034	<0.0093	<0.0032	<0.0039	<0.0033	<0.0034	<0.0050	<0.0036	<0.0038	<0.0033	<0.0031	<0.0065	<0.0040	<0.0035	<0.0047	<0.0026	<0.0031	<0.0040	<0.0039	<0.0031	<0.0048	<0.0037	<0.0040
1,1,1-Trichloroethane	mg/kg	<0.0039	<0.0034	<0.0093	<0.0032	<0.0039	<0.0033	<0.0034	<0.0050	<0.0036	<0.0038	<0.0033	<0.0031	<0.0065	<0.0040	<0.0035	<0.0047	<0.0026	<0.0031	<0.0040	<0.0039	<0.0031	<0.0048	<0.0037	<0.0040
1,1,2,2-Tetrachloroethane	mg/kg	<0.0016	<0.0014	<0.0037	<0.0013	<0.0016	<0.0013	<0.0014	<0.0020	<0.0014	<0.0015	<0.0013	<0.0012	<0.0026	<0.0016	<0.0014	<0.0019	<0.0010	<0.0012	<0.0016	<0.0016	<0.0012	<0.0019	<0.0015	<0.0016
1,1,2-Trichloroethane	mg/kg	<0.0039	<0.0034	<0.0093	<0.0032	<0.0039	<0.0033	<0.0034	<0.0050	<0.0036	<0.0038	<0.0033	<0.0031	<0.0065	<0.0040	<0.0035	<0.0047	<0.0026	<0.0031	<0.0040	<0.0039	<0.0031	<0.0048	<0.0037	<0.0040
1,1-Dichloroethane	mg/kg	<0.0039	<0.0034	<0.0093	<0.0032	<0.0039	<0.0033	<0.0034	<0.0050	<0.0036	<0.0038	<0.0033	<0.0031	<0.0065	<0.0040	<0.0035	<0.0047	<0.0026	<0.0031	<0.0040	<0.0039	<0.0031	<0.0048	<0.0037	<0.0040
1,1-Dichloroethene	mg/kg	<0.0039	<0.0034	<0.0093	<0.0032	<0.0039	<0.0033	<0.0034	<0.0050	<0.0036	<0.0038	<0.0033	<0.0031	<0.0065	<0.0040	<0.0035	<0.0047	<0.0026	<0.0031	<0.0040	<0.0039	<0.0031	<0.0048	<0.0037	<0.0040
1,1-Dichloropropene	mg/kg	<0.0039	<0.0034	<0.0093	<0.0032	<0.0039	<0.0033	<0.0034	<0.0050	<0.0036	<0.0038	<0.0033	<0.0031	<0.0065	<0.0040	<0.0035	<0.0047	<0.0026	<0.0031	<0.0040	<0.0039	<0.0031	<0.0048	<0.0037	<0.0040
1,2,3-Trichlorobenzene	mg/kg	<0.0039	<0.0034	<0.0093	<0.0032	<0.0039	<0.0033	<0.0034	<0.0050	<0.0036	<0.0038	<0.0033	<0.0031	<0.0065	<0.0040	<0.0035	<0.0047	<0.0026	<0.0031	<0.0040	<0.0039	<0.0031	<0.0048	<0.0037	<0.0040
1,2,3-Trichloropropane	mg/kg	<0.0039	<0.0034	<0.0093	<0.0032	<0.0039	<0.0033	<0.0034	<0.0050	<0.0036	<0.0038	<0.0033	<0.0031	<0.0065	<0.0040	<0.0035	<0.0047	<0.0026	<0.0031	<0.0040	<0.0039	<0.0031	<0.0048	<0.0037	<0.0040
1,2,4-Trichlorobenzene	mg/kg	<0.0039	<0.0034	<0.0093	<0.0032	<0.0039	<0.0033	<0.0034	<0.0050	<0.0036	<0.0038	<0.0033	<0.0031	<0.0065	<0.0040	<0.0035	<0.0047	<0.0026	<0.0031	<0.0040	<0.0039	<0.0031	<0.0048	<0.0037	<0.0040
1,2,4-Trimethylbenzene	mg/kg	<0.0039	<0.0034	<0.0093	<0.0032	<0.0039	<0.0033	<0.0034	<0.0050	<0.0036	<0.0038	<0.0033	<0.0031	<0.0065	<0.0040	<0.0035	<0.0047	<0.0026	<0.0031	<0.0040	<0.0039	<0.0031	<0.0048	<0.0037	<0.0040
1,2-Dibromo-3-Chloropropane	mg/kg	<0.0039	<0.0034	<0.0093	<0.0032	<0.0039	<0.0033	<0.0034	<0.0050	<0.0036	<0.0038	<0.0033	<0.0031	<0.0065	<0.0040	<0.0035	<0.0047	<0.0026	<0.0031	<0.0040	<0.0039	<0.0031	<0.0048	<0.0037	<0.0040
1,2-Dibromoethane	mg/kg	<0.0039	<0.0034	<0.0093	<0.0032	<0.0039	<0.0033	<0.0034	<0.0050	<0.0036	<0.0038	<0.0033	<0.0031	<0.0065	<0.0040	<0.0035	<0.0047	<0.0026	<0.0031	<0.0040	<0.0039	<0.0031	<0.0048	<0.0037	<0.0040
1,2-Dichlorobenzene	mg/kg	<0.0039	<0.0034	<0.0093	<0.0032	<0.0039	<0.0033	<0.0034	<0.0050	<0.0036	<0.0038	<0.0033	<0.0031	<0.0065	<0.0040	<0.0035	<0.0047	<0.0026	<0.0031	<0.0040	<0.0039	<0.0031	<0.0048	<0.0037	<0.0040
1,2-Dichloroethane	mg/kg	<0.0039	<0.0034	<0.0093	<0.0032	<0.0039	<0.0033	<0.0034	<0.0050	<0.0036	<0.0038	<0.0033	<0.0031	<0.0065	<0.0040	<0.0035	<0.0047	<0.0026	<0.0031	<0.0040	<0.0039	<0.0031	<0.0048	<0.0037	<0.0040
1,2-Dichloropropane	mg/kg	<0.0039	<0.0034	<0.0093	<0.0032	<0.0039	<0.0033	<0.0034	<0.0050	<0.0036	<0.0038	<0.0033	<0.0031	<0.0065	<0.0040	<0.0035	<0.0047	<0.0026	<0.0031	<0.0040	<0.0039	<0.0031	<0.0048	<0.0037	<0.0040
1,3,5-Trimethylbenzene	mg/kg	<0.0039	<0.0034	<0.0093	<0.0032	<0.0039	<0.0033	<0.0034	<0.0050	<0.0036	<0.0038	<0.0033	<0.0031	<0.0065	<0.0040	<0.0035	<0.0047	<0.0026	<0.0031	<0.0040	<0.0039	<0.0031	<0.0048	<0.0037	<0.0040
1,3-Dichlorobenzene	mg/kg	<0.0039	<0.0034	<0.0093	<0.0032	<0.0039	<0.0033	<0.0034	<0.0050	<0.0036	<0.0038	<0.0033	<0.0031	<0.0065	<0.0040	<0.0035	<0.0047	<0.0026	<0.0031	<0.0040	<0.0039	<0.0031	<0.0048	<0.0037	<0.0040
1,3-Dichloropropane	mg/kg	<0.0039	<0.0034	<0.0093	<0.0032	<0.0039	<0.0033	<0.0034	<0.0050	<0.0036	<0.0038	<0.0033	<0.0031	<0.0065	<0.0040	<0.0035	<0.0047	<0.0026	<0.0031	<0.0040	<0.0039	<0.0031	<0.0048	<0.0037	<0.0040
1,4-Dichlorobenzene	mg/kg	<0.0039	<0.0034	<0.0093	<0.0032	<0.0039	<0.0033	<0.0034	<0.0050	<0.0036	<0.0038	<0.0033	<0.0031	<0.0065	<0.0040	<0.0035	<0.0047	<0.0026	<0.0031	<0.0040	<0.0039	<0.0031	<0.0048	<0.0037	<0.0040
1,4-Dioxane	mg/kg	<0.0788	<0.0675	<0.187	<0.0648	<0.0787	<0.0653	<0.0675	<0.0990	<0.0724	<0.0759	<0.0669	<0.0615	<0.130	<0.0791	<0.0704	<0.0938	<0.0519	<0.0624	<0.0809	<0.0777	<0.0621	<0.0962	<0.0738	<0.0797
2,2-Dichloropropane	mg/kg	<0.0039	<0.0034	<0.0093	<0.0032	<0.0039	<0.0033	<0.0034	<0.0050	<0.0036	<0.0038	<0.0033	<0.0031	<0.0065	<0.0040	<0.0035	<0.0047	<0.0026	<0.0031	<0.0040	<0.0039	<0.0031	<0.0048	<0.0037	<0.0040
2-Butanone	mg/kg	0.009	<0.0068	0.0305	<0.0065	<0.0079	<0.0065	<0.0068	<0.0099	<0.0072	<0.0076	0.0069	<0.0061	0.0246	<0.0079	<0.0070	<0.0094	<0.0052	<0.0062	<0.0081	<0.0078	<0.0062	0.0109	0.0077	<0.0080
2-Chlorotoluene	mg/kg	<0.0039	<0.0034	<0.0093	<0.0032	<0.0039	<0.0033	<0.0034	<0.0050	<0.0036	<0.0038	<0.0033	<0.0031	<0.0065	<0.0040	<0.0035	<0.0047	<0.0026	<0.0031	<0.0040	<0.0039	<0.0031	<0.0048	<0.0037	<0.0040
2-Hexanone	mg/kg	<0.0079	<0.0068	<0.0187	<0.0065	<0.0079	<0.0065	<0.0068	<0.0099	<0.0072	<0.0076	<0.0067	<0.0061	<0.0130	<0.0079	<0.0070	<0.0094	<0.0052	<0.0062	<0.0081	<0.0078	<0.0062	<0.0096	<0.0074	<0.0080
4-Chlorotoluene	mg/kg	<0.0039	<0.0034	<0.0093	<0.0032	<0.0039	<0.0033	<0.0034	<0.0050	<0.0036	<0.0038	<0.0033	<0.0031	<0.0065	<0.0040	<0.0035	<0.0047	<0.0026	<0.0031	<0.0040	<0.0039	<0.0031	<0.0048	<0.0037	<0.0040
4-Isopropyltoluene	mg/kg	<0.0039	<0.0034	<0.0093	<0.0032	<0.0039	<0.0033	<0.0034	<0.0050	<0.0036	<0.0038	<0.0033	<0.0031	<0.0065	<0.0040	<0.0035	<0.0047	<0.0026	<0.0031	<0.0040	<0.0039	<0.0031	<0.0048	<0.0037	<0.0040
4-Methyl-2-Pentanone	mg/kg	<0.0079	<0.0068	<0.0187	<0.0065	<0.0079	<0.0065	<0.0068	<0.0099	<0.0072	<0.0076	<0.0067	<0.0061	<0.0130	<0.0079	<0.0070	<0.0094	<0.0052	<0.0062	<0.0081	<0.0078	<0.0062	<0.0096	<0.0074	<0.0080
Acetone	mg/kg	0.0748	0.0259	0.227	0.0114	0.0195	0.0185	0.0152	<0.0099	<0.0072	0.0261	0.07	0.0216	0.171	0.0366	0.0126	0.0111	0.0232	<0.0062	<0.0081	<0.0078	0.0426	0.0724	0.0511	0.0209
Benzene	mg/kg	<0.0039	<0.0034	<0.0093	<0.0032	<0.0039	<0.0033	<0.0034	<0.0050	<0.0036	<0.0038	<0.0033	<0.0031	<0.0065	<0.0040	<0.0035	<0.0047	<0.0026	<0.0031	<0.0040	<0.0039	<0.0031	<0.0048	<0.0037	<0.0040
Bromobenzene	mg/kg	<0.0039	<0.0034	<0.0093	<0.0032	<0.0039	<0.0033	<0.0034	<0.0050	<0.0036	<0.0038	<0.0033	<0.0031	<0.0065	<0.0040	<0.0035	<0.0047	<0.0026	<0.0031	<0.0040	<0.0039	<0.0031	<0.0048	<0.0037	<0.0040
Bromochloromethane	mg/kg	<0.0039	<0.0034	<0.0093	<0.0032	<0.0039	<0.0033	<0.0034	<0.0050	<0.0036	<0.0038	<0.0033	<0.0031	<0.0065	<0.0040	<0.0035	<0.0047	<0.0026	<0.0031	<0.0040	<0.0039	<0.0031	<0.0048	<0.0037	<0.0040
Bromodichloromethane	mg/kg	<0.0039	<0.0034	<0.0093	<0.0032	<0.0039	<0.0033	<0.0034	<0.0050	<0.0036	<0.0038	<0.0033	<0.0031	<0.0065	<0.0040	<0.0035	<0.0047	<0.0026	<0.0031	<0.0040	<0.0039	<0.0031	<0.0048	<0.0037	<0.0040
Bromoform	mg/kg	<0.0039	<0.0034	<0.0093	<0.0032	<0.0039	<0.0033	<0.0034	<0.0050	<0.0036	<0.0038	<0.0033	<0.0031	<0.0065	<0.0040	<0.0035	<0.0047	<0.0026	<0.0031	<0.0040	<0.0039	<0.0031	<0.0048	<0.0037	<0.0040
Bromomethane	mg/kg	<0.0079	<0.0068	<0.0187	<0.0065	<0.0079	<0.0065	<0.0068	<0.0099	<0.0072	<0.0076	<0.0067	<0.0061	<0.0130	<0.0079	<0.0070	<0.0094	<0.0052	<0.0062	<0.0081	<0.0078	<0.0062	<0.0096	<0.0074	<0.0080
Carbon Disulfide	mg/kg	<0.0039	<0.0034	<0.0093	<0.0032	<0.0039	<0.0033	<0.0034	<0.0050	<0.0036	<0.0038	<0.0033	<0.0031	<0.0065	0.0112	<0.0035	<0.0047	<0.0026	<0.0031	<0.0040	<0.0039	<0.0031	<0.0048	<0.0037	<0.0040
Carbon Tetrachloride	mg/kg	<0.0039	<0.0034	<0.0093	<0.0032	<0.0039	<0.0033	<0.0034	<0.0050	<0.0036	<0.0038	<0.0033	<0.0031	<0.0065	<0.0040	<0.0035	<0.0047	<0.0026	<0.0031	<0.0040	<0.0039	<0.0031	<0.0048	<0.0037	<0.0040
Chlorobenzene	mg/kg	<0.0039	<0.0034	<0.0093	<0.0032	<0.0039	<0.0033	<0.0034	<0.0050	<0.0036	<0.0038	<0.0033	<0.0031	<0.0065	<0.0040	<0.0035	<0.0047	<0.0026	<0.0031	<0.0040	<0.0039	<0.0031	<0.0048	<0.0037	<0.0040
Chloroethane	mg/kg	<0.0079	<0.0068	<0.0187	<0.0065	<0.0079	<0.0065	<0.0068	<0.0099	<0.0072	<0.0076	<0.0067	<0.0061	<0.0130	<0.0079	<0.0070	<0.0094	<0.0052	<0.0062	<0.0081	<0.0078	<0.0062	<0.0096	<0.0074	<0.0080
Chloroform	mg/kg	<0.0039	<0.0034	<0.0093	<0.0032	<0.0039	<0.0033	<0.0034	<0.0050	<0.0036	<0.0038	<0.0033	<0.0031	<0.0065	<0.0040	<0.0035	<0.0047	<0.0026	<0.0031	<0.0040	<0.0039	<0.0031	<0.0048	<0.0037	<0.0040
Chloromethane	mg/kg	<0.0079	<0.0068	<0.0187	<0.0065	<0.0079	<0.0065	<0.0068	<0.0099	<0.0072	<0.0076	<0.0067	<0.0061	<0.0130	<0.0079	<0.0070	<0.0094	<0.0052	<0.0062	<0.0081	<0.0078	<0.0062	<0.0096	<0.0074	<0.0080
cis-1,2-Dichloroethene	mg/kg	<0.0039	<0.0034	<0.0093	<0.0032	<0.0039	<0.0033	<0.0034	<0.0050	<0.0036	<0.0038	<0.0033	<0.0031	<0.0065	<0.0040	<0.0035	<0.0047	<0.0026	<0.0031	<0.0040	<0.0039	<0.0031	<0.0048	<0.0037	<0.0040
cis-1,3-Dichloropropene	mg/kg	<0.0039	<0.0034	<0.0093	<0.0032	<0.0039	<0.0033	<0.0034	<0.0050	<0.0036	<0.0038	<0.0033	<0.0031	<0.0065	<0.0040	<0.0035	<0.0047	<0.0026	<0.0031	<0.0040	<0.0039	<0.0031	<0.0048	<0.0037	<0.0040
Dibromochloromethane	mg/kg	<0.0016	<0.0014	<0.0037	<0.0013	<0.0016	<0.0013	<0.0014	<0.0020	<0.0014	<0.0015	<0.0013	<0.0012	<0.0026	<0.0016	<0.0014	<0.0019	<0.0010	<0.0012	<0.0016	<0.0016	<0.0012	<0.0019	<0.0015	<0.0016
Dibromomethane	mg/kg	<0.0039	<0.0034	<0.0093	<0.0032	<0.0039	<0.0033	<0.0034	<0.0050	<0.0036	<0.0038	<0.0033	<0.0031	<0.0065	<0.0040	<0.0035	<0.0047	<0.0026	<0.0031	<0.0040	<0.0039	<0.0031	<0.0048	<0.0037	<0.0040
Dichlorodifluoromethane	mg/kg	<0.0079	<0.0068	<0.0187	<0.0065	<0.0079	<0.0065	<0.0068	<0.0099	<0.0072	<0.0076	<0.0067	<0.0061	<0.0130	<0.0079	<0.0070	<0.0094	<0.0052	<0.0062	<0.0081	<0.0078	<0.0062	<0.0096	<0.0074	<0.0080
Diethyl Ether	mg/kg	<0.0039	<0.0034	<0.0093	<0.0032	<0.0039	<0.0033	<0.0034	<0.0050	<0.0036	<0.0038	<0.0033	<0.0031	<0.0065	<0.0040	<0.0035	<0.0047	<0.0026	<0.0031	<0.0040	<0.0039	<0.0031	<0.0048	<0.0037	<0.0040
Di-isopropyl ether	mg/kg	<0.0039	<0.0034	<0.0093	<0.0032	<0.0039	<0.0033	<0.0034	<0.0050	<0.0036	<0.0038	<0.0033	<0.0031	<0.0065	<0.0040	<0.0035	<0.0047	<0.0026	<0.0031	<0.0040	<0.0039	<0.0031	<0.0048	<0.0037	<0.0040
Ethyl tertiary-butyl ether	mg/kg	<0.0039	<0.0034	<0.0093	<0.0032	<0.0039	<0.0033	<0.0034	<0.0050	<0.0036	<0.0038	<0.0033	<0.0031	<0.0065	<0.0040	<0.0035	<0.0047	<0.0026	<0.0031	<0.0040	<0.0039	<0.0031	<0.0048	<0.0037	<0.0040
Ethylbenzene	mg/kg	<0.0039	<0.0034	<0.0093	<0.0032	<0.0039	<0.0033	<0.0034	<0.0050	<0.0036	<0.0038	<0.0033	<0.0031	<0.0065	<0.0040	<0.0035	<0.0047	<0.0026	<0.0031	<0.0040	<0.0039	<0.0031	<0.0048	<0.0037	<0.0040
Hexachlorobutadiene	mg/kg	<0.0039	<0.0034	<0.0093	<0.0032	<0.0039	<0.0033	<0.0034	<0.0050	<0.0036	<0.0038	<0.0033	<0.0031	<0.0065	<0.0040	<0.0035	<0.0047	<0.0026	<0.0031	<0.0040	<0.0039	<0.0031	<0.0048	<0.0037	<0.0040
Isopropylbenzene	mg/kg	<0.0039	<0.0034	<0.0093	<0.0032	<0.0039	<0.0033	<0.0034	<0.0050	<0.0036	<0.0038	<0.0033	<0.0031	<0.0065	<0.0040	<0.0035	<0.0047	<0.0026	<0.0031	<0.0040	<0.0039	<0.0031	<0.0048	<0.0037	<0.0040
Methyl tert-Butyl Ether	mg/kg	<0.0039	<0.0034	<0.0093	<0.0032	<0.0039	<0.0033	<0.0034	<0.0050	<0.0036	<0.0038	<0.0033	<0.0031	<0.0065	<0.0040	<0.0035	<0.0047	<0.0026	<0.0031	<0.0040	<0.0039	<0.0031	<0.0048	<0.0037	<0.0040
Methylene Chloride	mg/kg	<0.0079	<0.0068	<0.0187	<0.0065	<0.0079	<0.0065	<0.0068	<0.0099	<0.0072	<0.0076	<0.0067	<0.0061	<0.0130	<0.0079	<0.0070	<0.0094	<0.0052	<0.0062	<0.0081	<0.0078	<0.0062	<0.0096	<0.0074	<0.0080
Naphthalene	mg/kg	<0.0039	<0.0034	0.0101	<0.0032	<0.0039	<0.0033	<0.0034	<0.0050	<0.0036	<0.0038	<0.0033	<0.0031	<0.0065	<0.0040	<0.0035	<0.0047	<0.0026	<0.0031	<0.0040	<0.0039	<0.0031	<0.0048	<0.0037	<0.0040
n-Butylbenzene	mg/kg	<0.0039	<0.0034	<0.0093	<0.0032	<0.0039	<0.0033	<0.0034	<0.0050	<0.0036	<0.0038	<0.0033	<0.0031	<0.0065	<0.0040	<0.0035	<0.0047	<0.0026	<0.0031	<0.0040	<0.0039	<0.0031	<0.0048	<0.0037	<0.0040
n-Propylbenzene	mg/kg	<0.0039	<0.0034	<0.0093	<0.0032	<0.0039	<0.0033	<0.0034	<0.0050	<0.0036	<0.0038	<0.0033	<0.0031	<0.0065	<0.0040	<0.0035	<0.0047	<0.0026	<0.0031	<0.0040	<0.0039	<0.0031	<0.0048	<0.0037	<0.0040
sec-Butylbenzene	mg/kg	<0.0039	<0.0034	<0.0093	<0.0032	<0.0039	<0.0033	<0.0034	<0.0050	<0.0036	<0.0038	<0.0033	<0.0031	<0.0065	<0.0040	<0.0035	<0.0047	<0.0026	<0.0031	<0.0040	<0.0039	<0.0031	<0.0048	<0.0037	<0.0040

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Table 1
Soil Precharacterization Data

Wynn Resort Casino
Everett, Massachusetts

Analyte	Precharacterization Cell	G16	G16	G16	G16	G16	G16	G16	G16	G17	G17	G17	G17	G17	G17	G17	G17	G17	G18	G18	G18	G18	G18	G18	G18	G18
	Sample ID	G16S04BS05	G16S06S07	G16S08	G16S09	G16S10	G16S11	G16S12S13		G17S01S02A	G17S02BS04A	G17S04BS05	G17S06S07A	G17S07BS09A	G17S09B	G17S10	G17S11	G17S12	G17S13S14S15	G18S01S02A	G18S02S04A	G18S04B	G18S05S06	G18S07	G18S09	G18S10
	Laboratory Work Order	1501167	1501167	1501167	1501167	1501197	1501197	1501197		1501110	1501110	1501110	1501110	1501110	1501110	1501110	1501110	1501167	1501167	1501030	1501030	1501030	1501056	1501056	1501056	1501110
	Soil Distinction	Fill	Fill	Fill	Natural	Natural	Natural	Natural		Fill	Fill	Fill	Fill	Fill	Fill	Natural	Natural	Natural	Natural	Fill	Fill	Fill	Fill	Natural	Natural	Natural
	Soil Type				Clay	Clay	Sand/Gravel	Sand/Gravel								Sand/Gravel	Sand/Gravel	Sand/Gravel	Sand/Gravel					Organics	Organics	Sand/Gravel
	Depth Interval (ft.)	6.6 - 10	10 - 14	14 - 16	19 - 21	24 - 26	29 - 31	38 - 39		0 - 3.3	3.3 - 6.6	6.6 - 10	10 - 13.3	13.3 - 16.6	16.6 - 18	18 - 24	24 - 29	29 - 31	34 - 40	0 - 3.3	3.3 - 6.6	6.6 - 8	8 - 12	12 - 16	19 - 21	24 - 26
	Sampling Date	1/9/2015	1/9/2015	1/9/2015	1/9/2015	1/12/2015	1/12/2015	1/12/2015		1/7/2015	1/7/2015	1/7/2015	1/7/2015	1/7/2015	1/7/2015	1/7/2015	1/7/2015	1/9/2015	1/9/2015	1/5/2015	1/5/2015	1/5/2015	1/6/2015	1/6/2015	1/6/2015	1/6/2015
Preliminary Disposal Facility Category		Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A		MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type B	Hazardous Material Type B	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type B	Hazardous Material Type A	MCP Regulated Type A
Styrene	mg/kg	<0.0039	<0.0034	<0.0093	<0.0032	<0.0039	<0.0033	<0.0034		<0.0050	<0.0036	<0.0038	<0.0033	<0.0031	<0.0065	<0.0040	<0.0035	<0.0047	<0.0026	<0.0031	<0.0040	<0.0039	<0.0031	<0.0048	<0.0037	<0.0040
tert-Butylbenzene	mg/kg	<0.0039	<0.0034	<0.0093	<0.0032	<0.0039	<0.0033	<0.0034		<0.0050	<0.0036	<0.0038	<0.0033	<0.0031	<0.0065	<0.0040	<0.0035	<0.0047	<0.0026	<0.0031	<0.0040	<0.0039	<0.0031	<0.0048	<0.0037	<0.0040
Tertiary-amyl methyl ether	mg/kg	<0.0039	<0.0034	<0.0093	<0.0032	<0.0039	<0.0033	<0.0034		<0.0050	<0.0036	<0.0038	<0.0033	<0.0031	<0.0065	<0.0040	<0.0035	<0.0047	<0.0026	<0.0031	<0.0040	<0.0039	<0.0031	<0.0048	<0.0037	<0.0040
Tetrachloroethene	mg/kg	<0.0039	<0.0034	<0.0093	<0.0032	<0.0039	<0.0033	<0.0034		<0.0050	<0.0036	<0.0038	<0.0033	<0.0031	<0.0065	<0.0040	<0.0035	<0.0047	<0.0026	<0.0031	<0.0040	<0.0039	<0.0031	<0.0048	<0.0037	<0.0040
Tetrahydrofuran	mg/kg	<0.0039	<0.0034	<0.0093	<0.0032	<0.0039	<0.0033	<0.0034		<0.0050	<0.0036	<0.0038	<0.0033	<0.0031	<0.0065	<0.0040	<0.0035	<0.0047	<0.0026	<0.0031	<0.0040	<0.0039	<0.0031	<0.0048	<0.0037	<0.0040
Toluene	mg/kg	<0.0039	<0.0034	<0.0093	<0.0032	<0.0039	<0.0033	<0.0034		<0.0050	<0.0036	<0.0038	<0.0033	<0.0031	<0.0065	<0.0040	<0.0035	<0.0047	<0.0026	<0.0031	<0.0040	<0.0039	<0.0031	<0.0048	<0.0037	<0.0040
trans-1,2-Dichloroethene	mg/kg	<0.0039	<0.0034	<0.0093	<0.0032	<0.0039	<0.0033	<0.0034		<0.0050	<0.0036	<0.0038	<0.0033	<0.0031	<0.0065	<0.0040	<0.0035	<0.0047	<0.0026	<0.0031	<0.0040	<0.0039	<0.0031	<0.0048	<0.0037	<0.0040
trans-1,3-Dichloropropene	mg/kg	<0.0039	<0.0034	<0.0093	<0.0032	<0.0039	<0.0033	<0.0034		<0.0050	<0.0036	<0.0038	<0.0033	<0.0031	<0.0065	<0.0040	<0.0035	<0.0047	<0.0026	<0.0031	<0.0040	<0.0039	<0.0031	<0.0048	<0.0037	<0.0040
Trichloroethene	mg/kg	<0.0039	<0.0034	<0.0093	<0.0032	<0.0039	<0.0033	<0.0034		<0.0050	<0.0036	<0.0038	<0.0033	<0.0031	<0.0065	<0.0040	<0.0035	<0.0047	<0.0026	<0.0031	<0.0040	<0.0039	<0.0031	<0.0048	<0.0037	<0.0040
Trichlorofluoromethane	mg/kg	<0.0039	<0.0034	<0.0093	<0.0032	<0.0039	<0.0033	<0.0034		<0.0050	<0.0036	<0.0038	<0.0033	<0.0031	<0.0065	<0.0040	<0.0035	<0.0047	<0.0026	<0.0031	<0.0040	<0.0039	<0.0031	<0.0048	<0.0037	<0.0040
Vinyl Chloride	mg/kg	<0.0079	<0.0068	<0.0187	<0.0065	<0.0079	<0.0065	<0.0068		<0.0099	<0.0072	<0.0076	<0.0067	<0.0061	<0.0130	<0.0079	<0.0070	<0.0094	<0.0052	<0.0062	<0.0081	<0.0078	<0.0062	<0.0096	<0.0074	<0.0080
Xylene O	mg/kg	<0.0039	<0.0034	<0.0093	<0.0032	<0.0039	<0.0033	<0.0034		<0.0050	<0.0036	<0.0038	<0.0033	<0.0031	<0.0065	<0.0040	<0.0035	<0.0047	<0.0026	<0.0031	<0.0040	<0.0039	<0.0031	<0.0048	<0.0037	<0.0040
Xylene P,M	mg/kg	<0.0079	<0.0068	<0.0187	<0.0065	<0.0079	<0.0065	<0.0068		<0.0099	<0.0072	<0.0076	<0.0067	<0.0061	<0.0130	<0.0079	<0.0070	<0.0094	<0.0052	<0.0062	<0.0081	<0.0078	<0.0062	<0.0096	<0.0074	<0.0080
Xylenes (Total)	mg/kg	<0.0079	<0.0068	<0.0187	<0.0065	<0.0079	<0.0065	<0.0068		<0.0099	<0.0072	<0.0076	<0.0067	<0.0061	<0.0130	<0.0079	<0.0070	<0.0094	<0.0052	<0.0062	<0.0081	<0.0078	<0.0062	<0.0096	<0.0074	<0.0080
Total VOCs (Low Level)	mg/kg	0.0838	0.0259	0.2676	0.0114	0.0195	0.0185	0.0152		ND	ND	ND	0.0261	0.0769	0.0216	0.1956	0.0478	0.0126	0.0111	0.0232	ND	ND	ND	0.0426	0.0833	0.0588	0.0209
Semi-Volatile Organic Compounds																										
1,2,4-Trichlorobenzene	mg/kg	<0.922	<1.02	<1.36	<1.00	<0.912	<0.917	<0.924		<0.822	<0.867	<0.910	<0.859	<0.898	<0.955	<0.898	<0.966	<0.880	<0.843	<0.885	<0.849	<1.01	<1.01	<1.02	<0.953	<0.964
1,2-Dichlorobenzene	mg/kg	<0.922	<1.02	<1.36	<1.00	<0.912	<0.917	<0.924		<0.822	<0.867	<0.910	<0.859	<0.898	<0.955	<0.898	<0.966	<0.880	<0.843	<0.885	<0.849	<1.01	<1.01	<1.02	<0.953	<0.964
1,3-Dichlorobenzene	mg/kg	<0.922	<1.02	<1.36	<1.00	<0.912	<0.917	<0.924		<0.822	<0.867	<0.910	<0.859	<0.898	<0.955	<0.898	<0.966	<0.880	<0.843	<0.885	<0.849	<1.01	<1.01	<1.02	<0.953	<0.964
1,4-Dichlorobenzene	mg/kg	<0.462	<0.510	<0.681	<0.502	<0.457	<0.460	<0.463		<0.412	<0.435	<0.457	<0.431	<0.450	<0.479	<0.451	<0.484	<0.441	<0.423	<0.444	<0.426	<0.504	<0.508	<0.511	<0.478	<0.483
2,4,5-Trichlorophenol	mg/kg	<0.922	<1.02	<1.36	<1.00	<0.912	<0.917	<0.924		<0.822	<0.867	<0.910	<0.859	<0.898	<0.955	<0.898	<0.966	<0.880	<0.843	<0.885	<0.849	<1.01	<1.01	<1.02	<0.953	<0.964
2,4,6-Trichlorophenol	mg/kg	<0.922	<1.02	<1.36	<1.00	<0.912	<0.917	<0.924		<0.822	<0.867	<0.910	<0.859	<0.898	<0.955	<0.898	<0.966	<0.880	<0.843	<0.885	<0.849	<1.01	<1.01	<1.02	<0.953	<0.964
2,4-Dichlorophenol	mg/kg	<0.922	<1.02	<1.36	<1.00	<0.912	<0.917	<0.924		<0.822	<0.867	<0.910	<0.859	<0.898	<0.955	<0.898	<0.966	<0.880	<0.843	<0.885	<0.849	<1.01	<1.01	<1.02	<0.953	<0.964
2,4-Dimethylphenol	mg/kg	<0.922	<1.02	<1.36	<1.00	<0.912	<0.917	<0.924		<0.822	<0.867	<0.910	<0.859	<0.898	<0.955	<0.898	<0.966	<0.880	<0.843	<0.885	<0.849	<1.01	<1.01	<1.02	<0.953	<0.964
2,4-Dinitrophenol	mg/kg	<4.62	<5.10	<6.81	<5.02	<4.57	<4.60	<4.63		<4.12	<4.35	<4.57	<4.31	<4.50	<4.79	<4.51	<4.84	<4.41	<4.23	<4.44	<4.26	<5.04	<5.08	<5.11	<4.78	<4.83
2,4-Dinitrotoluene	mg/kg	<0.922	<1.02	<1.36	<1.00	<0.912	<0.917	<0.924		<0.822	<0.867	<0.910	<0.859	<0.898	<0.955	<0.898	<0.966	<0.880	<0.843	<0.885	<0.849	<1.01	<1.01	<1.02	<0.953	<0.964
2,6-Dinitrotoluene	mg/kg	<0.922	<1.02	<1.36	<1.00	<0.912	<0.917	<0.924		<0.822	<0.867	<0.910	<0.859	<0.898	<0.955	<0.898	<0.966	<0.880	<0.843	<0.885	<0.849	<1.01	<1.01	<1.02	<0.953	<0.964
2-Chloronaphthalene	mg/kg	<0.922	<1.02	<1.36	<1.00	<0.912	<0.917	<0.924		<0.822	<0.867	<0.910	<0.859	<0.898	<0.955	<0.898	<0.966	<0.880	<0.843	<0.885	<0.849	<1.01	<1.01	<1.02	<0.953	<0.964
2-Chlorophenol	mg/kg	<0.922	<1.02	<1.36	<1.00	<0.912	<0.917	<0.924		<0.822	<0.867	<0.910	<0.859	<0.898	<0.955	<0.898	<0.966	<0.880	<0.843	<0.885	<0.849	<1.01	<1.01	<1.02	<0.953	<0.964
2-Methylnaphthalene	mg/kg	<0.922	<1.02	<1.36	<1.00	<0.912	<0.917	<0.924		<0.822	<0.867	<0.910	<0.859	<0.898	<0.955	<0.898	<0.966	<0.880	<0.843	<0.885	<0.849	<1.01	<1.01	<1.02	<0.953	<0.964
2-Methylphenol	mg/kg	<0.922	<1.02	<1.36	<1.00	<0.912	<0.917	<0.924		<0.822	<0.867	<0.910	<0.859	<0.898	<0.955	<0.898	<0.966	<0.880	<0.843	<0.885	<0.849	<1.01	<1.01	<1.02	<0.953	<0.964
2-Nitrophenol	mg/kg	<0.922	<1.02	<1.36	<1.00	<0.912	<0.917	<0.924		<0.822	<0.867	<0.910	<0.859	<0.898	<0.955	<0.898	<0.966	<0.880	<0.843	<0.885	<0.849	<1.01	<1.01	<1.02	<0.953	<0.964
3,3´-Dichlorobenzidine	mg/kg	<1.85	<2.04	<2.72	<2.01	<1.83	<1.84	<1.85		<1.65	<1.74	<1.82	<1.72	<1.80	<1.91	<1.80	<1.93	<1.76	<1.69	<1.77	<1.70	<2.01	<2.03	<2.04	<1.91	<1.93
3+4-Methylphenol	mg/kg	<1.85	<2.04	<2.72	<2.01	<1.83	<1.84	<1.85		<1.65	<1.74	<1.82	<1.72	<1.80	<1.91	<1.80	<1.93	<1.76	<1.69	<1.77	<1.70	<2.01	<2.03	<2.04	<1.91	<1.93
4-Bromophenyl-phenylether	mg/kg	<0.922	<1.02	<1.36	<1.00	<0.912	<0.917	<0.924		<0.822	<0.867	<0.910	<0.859	<0.898	<0.955	<0.898	<0.966	<0.880	<0.843	<0.885	<0.849	<1.01	<1.01	<1.02	<0.953	<0.964
4-Chloroaniline	mg/kg	<1.85	<2.04	<2.72	<2.01	<1.83	<1.84	<1.85		<1.65	<1.74	<1.82	<1.72	<1.80	<1.91	<1.80	<1.93	<1.76	<1.69	<1.77	<1.70	<2.01	<2.03	<2.04	<1.91	<1.93
4-Nitrophenol	mg/kg	<4.62	<5.10	<6.81	<5.02	<4.57	<4.60	<4.63		<4.12	<4.35	<4.57	<4.31	<4.50	<4.79	<4.51	<4.84	<4.41	<4.23	<4.44	<4.26	<5.04	<5.08	<5.11	<4.78	<4.83
Acenaphthene	mg/kg	<0.922	<1.02	<1.36	<1.00	<0.912	<0.917	<0.924		<0.822	<0.867	<0.910	<0.859	<0.898	<0.955	<0.898	<0.966	<0.880	<0.843	<0.885	<0.849	<1.01	<1.01	<1.02	<0.953	<0.964
Acenaphthylene	mg/kg	<0.922	<1.02	<1.36	<1.00	<0.912	<0.917	<0.924		<0.822	<0.867	<0.910	<0.859	<0.898	<0.955	<0.898	<0.966	<0.880	<0.843	<0.885	<0.849	<1.01	<1.01	<1.02	<0.953	<0.964
Acetophenone	mg/kg	<1.85	<2.04	<2.72	<2.01	<1.83	<1.84	<1.85		<1.65	<1.74	<1.82	<1.72	<1.80	<1.91	<1.80	<1.93	<1.76	<1.69	<1.77	<1.70	<2.01	<2.03	<2.04	<1.91	<1.93
Aniline	mg/kg	<4.62	<5.10	<6.81	<5.02	<4.57	<4.60	<4.63		<4.12	<4.35	<4.57	<4.31	<4.50	<4.79	<4.51	<4.84	<4.41	<4.23	<4.44	<4.26	<5.04	<5.08	<5.11	<4.78	<4.83
Anthracene	mg/kg	<0.922	<1.02	<1.36	<1.00	<0.912	<0.917	<0.924		<0.822	<0.867	<0.910	<0.859	<0.898	<0.955	<0.898	<0.966	<0.880	<0.843	<0.885	<0.849	<1.01	<1.01	<1.02	<0.953	<0.964
Azobenzene	mg/kg	<0.922	<1.02	<1.36	<1.00	<0.912	<0.917	<0.924		<0.822	<0.867	<0.910	<0.859	<0.898	<0.955	<0.898	<0.966	<0.880	<0.843	<0.885	<0.849	<1.01	<1.01	<1.02	<0.953	<0.964
Benzo(a)anthracene	mg/kg	<0.922	<1.02	<1.36	<1.00	<0.912	<0.917	<0.924		<0.822	<0.867	<0.910	<0.859	<0.898	<0.955	<0.898	<0.966	<0.880	<0.843	<0.885	<0.849	<1.01	1.35	2.98	<0.953	<0.964
Benzo(a)pyrene	mg/kg	0.62	<0.510	0.756	<0.502	<0.457	<0.460	<0.463		<0.412	<0.435	<0.457	<0.431	<0.450	<0.479	<0.451	<0.484	<0.441	<0.423	<0.444	<0.426	<0.504	1.04	2.08	<0.478	<0.483
Benzo(b)fluoranthene	mg/kg	1.09	<1.02	<1.36	<1.00	<0.912	<0.917	<0.924		<0.822	<0.867	<0.910	<0.859	<0.898	<0.955	<0.898	<0.966	<0.880	<0.843	<0.885	<0.849	<1.01	1.25	1.84	<0.953	<0.964
Benzo(g,h,i)perylene	mg/kg	<0.922	<1.02	<1.36	<1.00	<0.912	<0.917	<0.924		<0.822	<0.867	<0.910	<0.859	<0.898	<0.955	<0.898	<0.966	<0.880	<0.843	<0.885	<0.849	<1.01	<1.01	1.03	<0.953	<0.964
Benzo(k)fluoranthene	mg/kg	<0.922	<1.02	<1.36	<1.00	<0.912	<0.917	<0.924		<0.822	<0.867	<0.910	<0.859	<0.898	<0.955	<0.898	<0.966	<0.880	<0.843	<0.885	<0.849	<1.01	<1.01	<1.02	<0.953	<0.964
bis(2-Chloroethoxy)methane	mg/kg	<0.922	<1.02	<1.36	<1.00	<0.912	<0.917	<0.924		<0.822	<0.867	<0.910	<0.859	<0.898	<0.955	<0.898	<0.966	<0.880	<0.843	<0.885	<0.849	<1.01	<1.01	<1.02	<0.953	<0.964
bis(2-Chloroethyl)ether	mg/kg	<0.462	<0.510	<0.681	<0.502	<0.457	<0.460	<0.463		<0.412	<0.435	<0.457	<0.431	<0.450	<0.479	<0.451	<0.484	<0.441	<0.423	<0.444	<0.426	<0.504	<0.508	<0.511	<0.478	<0.483
bis(2-chloroisopropyl)Ether	mg/kg	<0.462	<0.510	<0.681	<0.502	<0.457	<0.460	<0.463		<0.412	<0.435	<0.457	<0.431	<0.450	<0.479	<0.451	<0.484	<0.441	<0.423	<0.444	<0.426	<0.504	<0.508	<0.511	<0.478	<0.483
bis(2-Ethylhexyl)phthalate	mg/kg	<0.922	<1.02	<1.36	<1.00	<0.912	<0.917	<0.924		<0.822	<0.867	<0.910	<0.859	<0.898	<0.955	<0.898	<0.966	<0.880	<0.843	<0.885	0.979	<1.01	<1.01	1.63	<0.953	<0.964
Butylbenzylphthalate	mg/kg	<0.922	<1.02	<1.36	<1.00	<0.912	<0.917	<0.924		<0.822	<0.867	<0.910	<0.859	<0.898	<0.955	<0.898	<0.966	<0.880	<0.843	<0.885	<0.849	<1.01	<1.01	<1.02	<0.953	<0.964
Chrysene	mg/kg	0.889	<0.510	0.881	<0.502	<0.457	<0.460	<0.463		<0.412	<0.435	<0.457	<0.431	<0.450	<0.479	<0.451	<0.484	<0.441	<0.423	<0.444	<0.426	0.542	1.69	3.01	0.49	<0.483
Dibenzo(a,h)Anthracene	mg/kg	<0.462	<0.510	<0.681	<0.502	<0.457	<0.460	<0.463		<0.412	<0.435	<0.457	<0.431	<0.450	<0.479	<0.451	<0.484	<0.441	<0.423	<0.444	<0.426	<0.504	<0.508	<0.511	<0.478	<0.483
Dibenzofuran	mg/kg	<0.922	<1.02	<1.36	<1.00	<0.912	<0.917	<0.924		<0.822	<0.867	<0.910	<0.859	<0.898	<0.955	<0.898	<0.966	<0.880	<0.843	<0.885	<0.849	<1.01	<1.01	<1.02	<0.953	<0.964
Diethylphthalate	mg/kg	<0.922	<1.02	<1.36	<1.00	<0.912	<0.917	<0.924		<0.822	<0.867	<0.910	<0.859	<0.898	<0.955	<0.898	<0.966	<0.880	<0.843	<0.885	<0.849	<1.01	<1.01	<1.02	<0.953	<0.964
Dimethylphthalate	mg/kg	<0.922	<1.02	<1.36	<1.00	<0.912	<0.917	<0.924		<0.822	<0.867	<0.910	<0.859	<0.898	<0.955	<0.898	<0.966	<0.880	<0.843	<0.885	<0.849	<1.01	<1.01	<1.02	<0.953	<0.964
Di-n-butylphthalate	mg/kg	<0.922	<1.02	<1.36	<1.00	<0.912	<0.917	<0.924		<0.822	<0.867	<0.910	<0.859	<0.898	<0.955	<0.898	<0.966	<0.880	<0.843	<0.885	<0.849	<1.01	<1.01	<1.02	<0.953	<0.964
Di-n-octylphthalate	mg/kg	<0.922	<1.02	<1.36	<1.00	<0.912	<0.917	<0.924		<0.822	<0.867	<0.910	<0.859	<0.898	<0.955	<0.898	<0.966	<0.880	<0.843	<0.885	<0.849	<1.01	<1.01	<1.02	<0.953	<0.964
Fluoranthene	mg/kg	1.66	<1.02	2.07	<1.00	<0.912	<0.917	<0.924		<0.822	<0.867	<0.910	<0.859	<0.898	0.982	<0.898	<0.966	<0.880	<0.843	<0.885	<0.849	<1.01	2.07	4.75	<0.953	<0.964
Fluorene	mg/kg	<0.922	<1.02	<1.36	<1.00	<0.912	<0.917	<0.924		<0.822	<0.867	<0.910	<0.859	<0.898	<0.955	<0.898	<0.966	<0.880	<0.843	<0.885	<0.849	<1.01	<1.01	<1.02	<0.953	<0.964
Hexachlorobenzene	mg/kg	<0.462	<0.510	<0.681	<0.502	<0.457	<0.460	<0.463		<0.412	<0.435	<0.457	<0.431	<0.450	<0.479	<0.451	<0.484	<0.441	<0.423	<0.444	<0.426	<0.504	<0.508	<0.511	<0.478	<0.483
Hexachlorobutadiene	mg/kg	<0.922	<1.02	<1.36	<1.00	<0.912	<0.917	<0.924		<0.822	<0.867	<0.910	<0.859	<0.898	<0.955	<0.898	<0.966	<0.880	<0.843	<0.885	<0.849	<1.01	<1.01	<1.02	<0.953	<0.964
Hexachloroethane	mg/kg	<0.922	<1.02	<1.36	<1.00	<0.912	<0.917	<0.924		<0.822	<0.867	<0.910	<0.859	<0.898	<0.955	<0.898	<0.966	<0.880	<0.843	<0.885	<0.849	<1.01	<1.01	<1.02	<0.953	<0.964
Indeno(1,2,3-cd)Pyrene	mg/kg	<0.922	<1.02	<1.36	<1.00	<0.912	<0.917	<0.924		<0.822	<0.867	<0.910	<0.859	<0.898	<0.955	<0.898	<0.966	<0.880	<0.843	<0.885	<0.849	<1.01	<1.01	<1.02	<0.953	<0.964
Isophorone	mg/kg	<0.922	<1.02	<1.36	<1.00	<0.912	<0.917	<0.924		<0.822	<0.867	<0.910	<0.859	<0.898	<0.955	<0.898	<0.966	<0.880	<0.843	<0.885	<0.849	<1.01	<1.01	<1.02	<0.953	<0.964
Naphthalene	mg/kg	<0.922	<1.02	<1.36	<1.00	<0.912	<0.917	<0.924		<0.822	<0.867	<0.910	<0.859	<0.898	<0.955	<0.898	<0.966	<0.880	<0.843	<0.885	<0.849	<1.01	<1.01	<1.02	<0.953	<0.964
Nitrobenzene	mg/kg	<0.922	<1.02	<1.36	<1.00	<0.912	<0.917	<0.924		<0.822	<0.867	<0.910	<0.859	<0.898	<0.955	<0.898	<0.966	<0.880	<0.843	<0.885	<0.849	<1.01	<1.01	<1.02	<0.953	<0.964
N-Nitrosodimethylamine	mg/kg	<0.922	<1.02	<1.36	<1.00	<0.912	<0.917	<0.924		<0.822	<0.867	<0.910	<0.859	<0.898	<0.955	<0.898	<0.966	<0.880	<0.843	<0.885	<0.849	<1.01	<1.01	<1.02	<0.953	<0.964
Pentachlorophenol	mg/kg	<4.62	<5.10	<6.81	<5.02	<4.57	<4.60	<4.63		<4.12	<4.35	<4.57	<4.31	<4.50	<4.79	<4.51	<4.84	<4.41	<4.23	<4.44	<4.26	<5.04	<5.08	<5.11	<4.78	<4.83
Phenanthrene	mg/kg	<0.922	<1.02	<1.36	<1.00	<0.912	<0.917	<0.924		<0.822	<0.867	<0.910	<0.859	<0.898	1.08	<0.898	<0.966	<0.880	<0.843	<0.885	<0.849	<1.01	<1.01	<1.02	<0.953	<0.964
Phenol	mg/kg	<0.922	<1.02	<1.36	<1.00	<0.912	<0.917	<0.924		<0.822	<0.867	<0.910	<0.859	<0.898	<0.955	<0.898	<0.966	<0.880	<0.843	<0.885	<0.849	<1.01	<1.01	<1.02	<0.953	<0.964
Pyrene	mg/kg	1.08	<1.02	1.37	<1.00	<0.912	<0.917	<0.924		<0.822	<0.867	<0.910	<0.859	<0.898	<0.955	<0.898	<0.966	<0.880	<0.843	<0.885	<0.849	<1.01	2.6	6.63	<0.953	<0.964
Total SVOCs	mg/kg	5.339	ND	5.077	ND	ND	ND	ND		ND	ND	ND	ND	ND	2.062	ND	ND	ND	ND	ND	0.979	0.542	10	23.95	0.49	ND
Classic Chemistry																										
Corrosivity (pH)	S.U.	6.29	5.96	6.21	6.11	5.45	5.72	4.96		8.7	8.75	5.71	5.98	6.11	5.87	5.82	5.28	6.3	5.63	8.34	11.7	4.52	6.31	6.62	6.72	6.99
Conductivity	umhos/cm	1020	720	837	2810	691	329	550		99	458	725	452	523	491	464	1950	420	1200	170	3100	3660	1880	770	1910	3660
Flashpoint	°F	>200	>200	--	--	--	--	--		>200	>200	>200	>200	>200	>200	--	--	--	--	>200	>200	>200	>200	--	--	--
Reactive Cyanide	mg/kg	<2.0	<2.0	--	--	--	--	--		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--	--	--	--	<2.0	<2.0	<2.0	<2.0	--	--	--
Reactive Sulfide	mg/kg	<2.0	<2.0	--	--	--	--	--		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--	--	--	--	<2.0	<2.0	<2.0	<2.0	--	--	--

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	G18 G18S11 1501110 Natural Sand/Gravel 29 - 31 1/7/2015	G18 G18S12S13 1501110 Natural Clay 34 - 38 1/7/2015	GZ008 GZ008S01S03 1410789 Fill 0 - 6 10/31/2014	GZ008 GZ008S05S07 1410789 Fill 8 - 14 10/31/2014	GZ008 GZ008S08S10 1411028 Natural Organics 16 - 27 11/3/2014	GZ008 GZ008S12S16 1411028 Natural Organics 29 - 39 11/3/2014	GZ008 GZ008S17S18 1411028 Natural Sand/Gravel 39 - 46 11/3/2014	GZ009 GZ009S01S03 1410789 Fill 0 - 6 10/31/2014	GZ009 GZ009S07S10 1411028 Fill 12 - 20 11/3/2014	GZ009 GZ009S11S16 1411028 Natural Sand/Gravel 20 - 46 11/3/2014	H05 GZ026S01S02A 1503165 Fill 0 - 3.3 3/10/2015	H05 GZ026S02BS04A 1503165 Fill 3.3 - 6.6 3/10/2015	H05 GZ026S04BS05 1503165 Fill 6.6 - 10 3/10/2015	H05 GZ026S06 1503165 Natural Organics 10 - 12 3/10/2015	H05 GZ026S08 1503165 Natural Clay 14 - 16 3/10/2015	H05 GZ026S09 1503165 Natural Clay 19 - 21 3/10/2015	H05 GZ026S10 1503165 Natural Clay 24 - 26 3/10/2015	H05 GZ026S11 1503165 Natural Clay 29 - 31 3/10/2015	H05 GZ026S12 1503165 Natural Clay 34 - 36 3/10/2015	H06 H06S01S02A 1503021 Fill 0 - 3.3 3/2/2015	H06 H06S02BS03A 1503021 Fill 3.3 - 5.5 3/2/2015	H06 H06S03BS04 1503021 Natural Clay 5.5 - 8 3/2/2015	H06 H06S05 1503021 Natural Organics 9 - 11 3/2/2015	H06 H06S06 1503021 Natural Clay 14 - 16 3/2/2015
Preliminary Disposal Facility Category		MCP Regulated Type A	MCP Regulated Type B-1	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	Uncontaminated	Uncontaminated	MCP Regulated Type A	MCP Regulated Type B-1	Uncontaminated	Hazardous Material Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type B-1	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A
RCRA 8 Metals	**Units**																									
Arsenic	mg/kg	21.5	<15.4	46.1	150	5.6	3.67	4.48	26.4	21.6	6.1	49.3	8.37	180	31	11.9	9.7	9.01	41.7	10.8	<7.44	28.6	<6.76	<32.9	13.1
Barium	mg/kg	<13.5	96	45.8	22.8	17.7	11	10.3	35.7	24.9	18.6	66.3	20.5	73.8	29.8	109	64.4	68.4	48.7	87	21.3	105	38.7	<32.9	133
Cadmium	mg/kg	<2.71	<3.08	<0.52	2.86	<0.68	<0.53	<0.56	<0.44	1.03	<0.54	<1.28	<1.35	<1.62	<2.15	<1.51	<1.65	<1.73	<1.61	<1.60	<1.49	<1.58	<1.35	<6.59	<1.63
Chromium	mg/kg	<5.42	43.3	19	21.7	17.2	11.4	9.57	22.2	26.5	16.7	19.2	7.55	9.82	7.39	50.4	37.9	42.7	30.6	50.5	26.6	34.1	18.8	<13.2	60.2
Lead	mg/kg	46.8	<30.8	207	48.5	<6.78	<5.29	<5.55	135	83.9	6.17	414	82.3	1320	329	23.3	<16.5	<17.3	<16.1	<16.0	95.9	1570	33.1	<65.9	18.3
Selenium	mg/kg	<17.3	<19.7	3.65	<3.06	<3.39	<2.64	<2.78	<2.18	<3.23	<2.70	<6.38	<6.76	18.3	<10.7	<7.56	<8.24	<8.63	<8.03	<8.01	<7.44	<7.91	<6.76	<13.2	<8.15
Silver	mg/kg	<2.71	<3.08	1.29	<0.61	<0.68	<0.53	<0.56	<0.44	<0.65	<0.54	<1.28	<1.35	<1.62	<2.15	<1.51	<1.65	<1.73	<1.61	<1.60	<1.49	<1.58	<1.35	<6.59	<1.63
Mercury	mg/kg	0.083	<0.034	0.974	0.201	<0.038	<0.039	<0.034	0.569	0.587	<0.029	1.8	1.14	2.16	<0.055	<0.042	<0.035	<0.042	<0.040	<0.033	0.067	0.493	0.261	<0.157	<0.039
Metals by Toxicity Characteristic Leaching Procedure (TCLP)																										
Arsenic	mg/L	--	--	--	<2.5	--	--	--	--	--	--	--	--	<0.500	--	--	--	--	--	--	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead	mg/L	--	--	<5	--	--	--	--	<5	--	--	<0.500	--	1.08	1.45	--	--	--	--	--	--	0.932	--	--	--
Selenium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Herbicides																										
2,4,5-T	mg/kg	--	--	<0.057	--	<0.073	<0.064	<0.065	<0.057	<0.076	<0.057	<0.057	<0.063	<0.057	--	--	--	--	--	--	<0.047	<0.12	<0.095	--	--
2,4-D	mg/kg	--	--	<0.057	--	<0.073	<0.064	<0.065	<0.057	<0.076	<0.057	<0.057	<0.063	<0.057	--	--	--	--	--	--	<0.24	<0.58	<0.47	--	--
2,4-DB	mg/kg	--	--	<0.057	--	<0.073	<0.064	<0.065	<0.057	<0.076	<0.057	<0.057	<0.063	<0.057	--	--	--	--	--	--	<0.018	<0.043	<0.036	--	--
Dalapon	mg/kg	--	--	<0.69	--	<0.88	<0.78	<0.78	<0.69	<0.91	<0.68	<0.68	<0.76	<0.68	--	--	--	--	--	--	<1.4	<3.5	<2.8	--	--
Dicamba	mg/kg	--	--	<0.057	--	<0.073	<0.064	<0.065	<0.057	<0.076	<0.057	<0.057	<0.063	<0.057	--	--	--	--	--	--	<0.071	<0.17	<0.14	--	--
Dichlorprop	mg/kg	--	--	<0.057	--	<0.073	<0.064	<0.065	<0.057	<0.076	<0.057	<0.057	<0.063	<0.057	--	--	--	--	--	--	<0.15	<0.37	<0.31	--	--
Dinoseb	mg/kg	--	--	<0.34	--	<0.44	<0.39	<0.39	<0.34	<0.46	<0.34	<0.34	<0.38	<0.34	--	--	--	--	--	--	<0.24	<0.58	<0.47	--	--
MCPA	mg/kg	--	--	<14	--	<18	<16	<16	<14	<18	<14	<14	<15	<14	--	--	--	--	--	--	<59	<140	<120	--	--
MCPP	mg/kg	--	--	<14	--	<18	<16	<16	<14	<18	<14	<14	<15	<14	--	--	--	--	--	--	<59	<140	<120	--	--
Silvex (2,4,5-TP)	mg/kg	--	--	<0.057	--	<0.073	<0.064	<0.065	<0.057	<0.076	<0.057	<0.057	<0.063	<0.057	--	--	--	--	--	--	<0.047	<0.12	<0.095	--	--
Pesticides																										
4,4'-DDD	mg/kg	--	--	<0.002	--	<0.0025	<0.0022	<0.0022	<0.019	<0.0026	<0.0019	<0.040	<0.0045	<0.0021	--	--	--	--	--	--	<0.0020	<0.0049	<0.0020	--	--
4,4'-DDE	mg/kg	--	--	<0.002	--	<0.0025	<0.0022	<0.0022	<0.019	<0.0026	<0.0019	<0.040	<0.0045	<0.0021	--	--	--	--	--	--	<0.0020	<0.0049	<0.0020	--	--
4,4'-DDT	mg/kg	--	--	<0.002	--	<0.0025	<0.0022	<0.0022	<0.019	<0.0026	<0.0019	<0.040	<0.0045	<0.0021	--	--	--	--	--	--	<0.0020	<0.0049	<0.0020	--	--
Aldrin	mg/kg	--	--	<0.002	--	<0.0025	<0.0022	<0.0022	<0.019	<0.0026	<0.0019	<0.040	<0.0045	<0.0021	--	--	--	--	--	--	<0.0020	<0.0049	<0.0020	--	--
alpha-BHC	mg/kg	--	--	<0.002	--	<0.0025	<0.0022	<0.0022	<0.019	<0.0026	<0.0019	<0.040	<0.0045	<0.0021	--	--	--	--	--	--	<0.0020	<0.0049	<0.0020	--	--
beta-BHC	mg/kg	--	--	<0.002	--	<0.0025	<0.0022	<0.0022	<0.019	<0.0026	<0.0019	<0.040	<0.0045	<0.0021	--	--	--	--	--	--	<0.0020	<0.0049	<0.0020	--	--
Chlordane (technical)	mg/kg	--	--	<0.02	--	<0.025	<0.022	<0.022	<0.19	<0.026	<0.019	<0.40	<0.045	<0.021	--	--	--	--	--	--	<0.020	<0.049	<0.020	--	--
delta-BHC	mg/kg	--	--	<0.002	--	<0.0025	<0.0022	<0.0022	<0.019	<0.0026	<0.0019	<0.040	<0.0045	<0.0021	--	--	--	--	--	--	<0.0020	<0.0049	<0.0020	--	--
Dieldrin	mg/kg	--	--	<0.002	--	<0.0025	<0.0022	<0.0022	<0.019	<0.0026	<0.0019	<0.040	<0.0045	<0.0021	--	--	--	--	--	--	<0.0020	<0.0049	<0.0020	--	--
Endosulfan I	mg/kg	--	--	<0.002	--	<0.0025	<0.0022	<0.0022	<0.019	<0.0026	<0.0019	<0.040	<0.0045	<0.0021	--	--	--	--	--	--	<0.0020	<0.0049	<0.0020	--	--
Endosulfan II	mg/kg	--	--	<0.002	--	<0.0025	<0.0022	<0.0022	<0.019	<0.0026	<0.0019	<0.040	<0.0045	<0.0021	--	--	--	--	--	--	<0.0020	<0.0049	<0.0020	--	--
Endosulfan sulfate	mg/kg	--	--	<0.002	--	<0.0025	<0.0022	<0.0022	<0.019	<0.0026	<0.0019	<0.040	<0.0045	<0.0021	--	--	--	--	--	--	<0.0020	<0.0049	<0.0020	--	--
Endrin	mg/kg	--	--	<0.002	--	<0.0025	<0.0022	<0.0022	<0.019	<0.0026	<0.0019	<0.040	<0.0045	<0.0021	--	--	--	--	--	--	<0.0020	<0.0049	<0.0020	--	--
Endrin ketone	mg/kg	--	--	<0.002	--	<0.0025	<0.0022	<0.0022	<0.019	<0.0026	<0.0019	<0.040	<0.0045	<0.0021	--	--	--	--	--	--	<0.0020	<0.0049	<0.0020	--	--
gamma-BHC (Lindane)	mg/kg	--	--	<0.002	--	<0.0025	<0.0022	<0.0022	<0.019	<0.0026	<0.0019	<0.040	<0.0045	<0.0021	--	--	--	--	--	--	<0.0020	<0.0049	<0.0020	--	--
Heptachlor	mg/kg	--	--	<0.002	--	<0.0025	<0.0022	<0.0022	<0.019	<0.0026	<0.0019	<0.040	<0.0045	<0.0021	--	--	--	--	--	--	<0.0020	<0.0049	<0.0020	--	--
Heptachlor epoxide	mg/kg	--	--	<0.002	--	<0.0025	<0.0022	<0.0022	<0.019	<0.0026	<0.0019	<0.040	<0.0045	<0.0021	--	--	--	--	--	--	<0.0020	<0.0049	<0.0020	--	--
Hexachlorobenzene	mg/kg	--	--	<0.002	--	<0.0025	<0.0022	<0.0022	<0.019	<0.0026	<0.0019	<0.040	<0.0045	<0.0021	--	--	--	--	--	--	<0.0020	<0.0049	<0.0020	--	--
Methoxychlor	mg/kg	--	--	<0.002	--	<0.0025	<0.0022	<0.0022	<0.019	<0.0026	<0.0019	<0.040	<0.0045	<0.0021	--	--	--	--	--	--	<0.0020	<0.0049	<0.0020	--	--
Polychlorinated Biphenyls																										
Aroclor 1016	mg/kg	<0.127	<0.153	<0.205	<0.294	<0.247	<0.248	<0.233	<0.198	<0.262	<0.218	<0.140	<0.147	<0.156	<0.231	<0.152	<0.149	<0.161	<0.156	<0.160	<0.140	<0.153	<0.143	<0.620	<0.153
Aroclor 1221	mg/kg	<0.127	<0.153	<0.205	<0.294	<0.247	<0.248	<0.233	<0.198	<0.262	<0.218	<0.140	<0.147	<0.156	<0.231	<0.152	<0.149	<0.161	<0.156	<0.160	<0.140	<0.153	<0.143	<0.620	<0.153
Aroclor 1232	mg/kg	<0.127	<0.153	<0.205	<0.294	<0.247	<0.248	<0.233	<0.198	<0.262	<0.218	<0.140	<0.147	<0.156	<0.231	<0.152	<0.149	<0.161	<0.156	<0.160	<0.140	<0.153	<0.143	<0.620	<0.153
Aroclor 1242	mg/kg	<0.127	<0.153	<0.205	<0.294	<0.247	<0.248	<0.233	<0.198	<0.262	<0.218	<0.140	<0.147	<0.156	<0.231	<0.152	<0.149	<0.161	<0.156	<0.160	<0.140	<0.153	<0.143	<0.620	<0.153
Aroclor 1248	mg/kg	<0.127	<0.153	<0.205	<0.294	<0.247	<0.248	<0.233	<0.198	<0.262	<0.218	<0.140	<0.147	<0.156	<0.231	<0.152	<0.149	<0.161	<0.156	<0.160	<0.140	<0.153	<0.143	<0.620	<0.153
Aroclor 1254	mg/kg	<0.127	<0.153	<0.205	<0.294	<0.247	<0.248	<0.233	<0.198	<0.262	<0.218	0.187	<0.147	<0.156	<0.231	<0.152	<0.149	<0.161	<0.156	<0.160	<0.140	<0.153	<0.143	<0.620	<0.153
Aroclor 1260	mg/kg	<0.127	<0.153	<0.205	<0.294	<0.247	<0.248	<0.233	<0.198	<0.262	<0.218	<0.140	<0.147	<0.156	<0.231	<0.152	<0.149	<0.161	<0.156	<0.160	<0.140	<0.153	<0.143	<0.620	<0.153
Aroclor 1262	mg/kg	<0.127	<0.153	<0.205	<0.294	<0.247	<0.248	<0.233	<0.198	<0.262	<0.218	<0.140	<0.147	<0.156	<0.231	<0.152	<0.149	<0.161	<0.156	<0.160	<0.140	<0.153	<0.143	<0.620	<0.153
Aroclor 1268	mg/kg	<0.127	<0.153	<0.205	<0.294	<0.247	<0.248	<0.233	<0.198	<0.262	<0.218	<0.140	<0.147	<0.156	<0.231	<0.152	<0.149	<0.161	<0.156	<0.160	<0.140	<0.153	<0.143	<0.620	<0.153
Total PCBs	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.187	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Petroleum Hydrocarbons	mg/kg	<45.6	<49.1	117	96.5	<53.2	<45.1	<41.0	267	54.1	<39.6	1140	260	81.1	766	<48.8	<49.6	<50.3	<48.1	<50.8	91.5	590	85.8	2380	<49.8
Volatile Organic Compounds (VOCs)																										
1,1,1,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-Chloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane - Screen	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Butanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Isopropyltoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-Pentanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Disulfide	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Analyte	Precharacterization Cell	G18	G18	GZ008	GZ008	GZ008	GZ008	GZ008	GZ009	GZ009	GZ009	H05	H05	H05	H05	H05	H05	H05	H05	H06	H06	H06	H06
	Sample ID	G18S11	G18S12S13	G008S01S03	G008S05S07	G008S08S10	GZ008S12S16	GZ008S17S18	GZ009S01S03	GZ009S07S10	GZ009S11S16	GZ026S01S02A	GZ026S02BS04A	GZ026S04BS05	GZ026S06	GZ026S08	GZ026S09	GZ026S10	GZ026S11	GZ026S12	H06S01S02A	H06S02BS03A	H06S03BS04	H06S05	H06S06
	Laboratory Work Order	1501110	1501110	1410789	1410789	1411028	1411028	1411028	1410789	1411028	1411028	1503165	1503165	1503165	1503165	1503165	1503165	1503165	1503165	1503165	1503021	1503021	1503021	1503021	1503021
	Soil Distinction	Natural	Natural	Fill	Fill	Natural	Natural	Natural	Fill	Fill	Natural	Fill	Fill	Fill	Natural	Natural	Natural	Natural	Natural	Natural	Fill	Fill	Natural	Natural	Natural
	Soil Type	Sand/Gravel	Clay			Organics	Organics	Sand/Gravel			Sand/Gravel				Organics	Clay	Clay	Clay	Clay	Clay			Clay	Organics	Clay
	Depth Interval (ft.)	29 - 31	34 - 38	0 - 6	8 - 14	16 - 27	29 - 39	39 - 46	0 - 6	12 - 20	20 - 46	0 - 3.3	3.3 - 6.6	6.6 - 10	10 - 12	14 - 16	19 - 21	24 - 26	29 - 31	34 - 36	0 - 3.3	3.3 - 5.5	5.5 - 8	9 - 11	14 - 16
	Sampling Date	1/7/2015	1/7/2015	10/31/2014	10/31/2014	11/3/2014	11/3/2014	11/3/2014	10/31/2014	11/3/2014	11/3/2014	3/10/2015	3/10/2015	3/10/2015	3/10/2015	3/10/2015	3/10/2015	3/10/2015	3/10/2015	3/10/2015	3/2/2015	3/2/2015	3/2/2015	3/2/2015	3/2/2015
Preliminary Disposal Facility Category		MCP Regulated Type A	MCP Regulated Type B-1	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	Uncontaminated	Uncontaminated	MCP Regulated Type A	MCP Regulated Type B-1	Uncontaminated	Hazardous Material Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type B-1	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A
Chlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Diethyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Di-isopropyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethyl tertiary-butyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
tert-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tertiary-amyl methyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene O	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene P,M	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylenes (Total)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total VOCs	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds - Low Level Analysis																									
1,1,1,2-Tetrachloroethane	mg/kg	<0.0031	<0.0040	<0.0063	<0.0052	<0.0039	<0.0049	<0.0040	<0.0054	<0.0050	<0.0059	<0.0036	<0.0050	<0.0040	<0.0077	<0.0042	<0.0048	<0.0038	<0.0037	<0.0047	<0.0118	<0.0038	<0.0034	<0.0272	<0.0045
1,1,1-Trichloroethane	mg/kg	<0.0031	<0.0040	<0.0063	<0.0052	<0.0039	<0.0049	<0.0040	<0.0054	<0.0050	<0.0059	<0.0036	<0.0050	<0.0040	<0.0077	<0.0042	<0.0048	<0.0038	<0.0037	<0.0047	<0.0118	<0.0038	<0.0034	<0.0272	<0.0045
1,1,2,2-Tetrachloroethane	mg/kg	<0.0012	<0.0016	<0.0025	<0.0021	<0.0016	<0.0020	<0.0016	<0.0022	<0.0020	<0.0024	<0.0014	<0.0020	<0.0016	<0.0031	<0.0017	<0.0019	<0.0015	<0.0015	<0.0019	<0.0047	<0.0015	<0.0014	<0.0109	<0.0018
1,1,2-Trichloroethane	mg/kg	<0.0031	<0.0040	<0.0063	<0.0052	<0.0039	<0.0049	<0.0040	<0.0054	<0.0050	<0.0059	<0.0036	<0.0050	<0.0040	<0.0077	<0.0042	<0.0048	<0.0038	<0.0037	<0.0047	<0.0118	<0.0038	<0.0034	<0.0272	<0.0045
1,1-Dichloroethane	mg/kg	<0.0031	<0.0040	<0.0063	<0.0052	<0.0039	<0.0049	<0.0040	<0.0054	<0.0050	<0.0059	<0.0036	<0.0050	<0.0040	<0.0077	<0.0042	<0.0048	<0.0038	<0.0037	<0.0047	<0.0118	<0.0038	<0.0034	<0.0272	<0.0045
1,1-Dichloroethene	mg/kg	<0.0031	<0.0040	<0.0063	<0.0052	<0.0039	<0.0049	<0.0040	<0.0054	<0.0050	<0.0059	<0.0036	<0.0050	<0.0040	<0.0077	<0.0042	<0.0048	<0.0038	<0.0037	<0.0047	<0.0118	<0.0038	<0.0034	<0.0272	<0.0045
1,1-Dichloropropene	mg/kg	<0.0031	<0.0040	<0.0063	<0.0052	<0.0039	<0.0049	<0.0040	<0.0054	<0.0050	<0.0059	<0.0036	<0.0050	<0.0040	<0.0077	<0.0042	<0.0048	<0.0038	<0.0037	<0.0047	<0.0118	<0.0038	<0.0034	<0.0272	<0.0045
1,2,3-Trichlorobenzene	mg/kg	<0.0031	<0.0040	<0.0063	<0.0052	<0.0039	<0.0049	<0.0040	<0.0054	<0.0050	<0.0059	<0.0036	<0.0050	<0.0040	<0.0077	<0.0042	<0.0048	<0.0038	<0.0037	<0.0047	<0.0118	<0.0038	<0.0034	<0.0272	<0.0045
1,2,3-Trichloropropane	mg/kg	<0.0031	<0.0040	<0.0063	<0.0052	<0.0039	<0.0049	<0.0040	<0.0054	<0.0050	<0.0059	<0.0036	<0.0050	<0.0040	<0.0077	<0.0042	<0.0048	<0.0038	<0.0037	<0.0047	<0.0118	<0.0038	<0.0034	<0.0272	<0.0045
1,2,4-Trichlorobenzene	mg/kg	<0.0031	<0.0040	<0.0063	<0.0052	<0.0039	<0.0049	<0.0040	<0.0054	<0.0050	<0.0059	<0.0036	<0.0050	<0.0040	<0.0077	<0.0042	<0.0048	<0.0038	<0.0037	<0.0047	<0.0118	<0.0038	<0.0034	<0.0272	<0.0045
1,2,4-Trimethylbenzene	mg/kg	<0.0031	<0.0040	<0.0063	<0.0052	<0.0039	<0.0049	<0.0040	<0.0054	<0.0050	<0.0059	<0.0036	<0.0050	<0.0040	<0.0077	<0.0042	<0.0048	<0.0038	<0.0037	<0.0047	<0.0118	<0.0038	<0.0034	<0.0272	<0.0045
1,2-Dibromo-3-Chloropropane	mg/kg	<0.0031	<0.0040	<0.0063	<0.0052	<0.0039	<0.0049	<0.0040	<0.0054	<0.0050	<0.0059	<0.0036	<0.0050	<0.0040	<0.0077	<0.0042	<0.0048	<0.0038	<0.0037	<0.0047	<0.0118	<0.0038	<0.0034	<0.0272	<0.0045
1,2-Dibromoethane	mg/kg	<0.0031	<0.0040	<0.0063	<0.0052	<0.0039	<0.0049	<0.0040	<0.0054	<0.0050	<0.0059	<0.0036	<0.0050	<0.0040	<0.0077	<0.0042	<0.0048	<0.0038	<0.0037	<0.0047	<0.0118	<0.0038	<0.0034	<0.0272	<0.0045
1,2-Dichlorobenzene	mg/kg	<0.0031	<0.0040	<0.0063	<0.0052	<0.0039	<0.0049	<0.0040	<0.0054	<0.0050	<0.0059	<0.0036	<0.0050	<0.0040	<0.0077	<0.0042	<0.0048	<0.0038	<0.0037	<0.0047	<0.0118	<0.0038	<0.0034	<0.0272	<0.0045
1,2-Dichloroethane	mg/kg	<0.0031	<0.0040	<0.0063	<0.0052	<0.0039	<0.0049	<0.0040	<0.0054	<0.0050	<0.0059	<0.0036	<0.0050	<0.0040	<0.0077	<0.0042	<0.0048	<0.0038	<0.0037	<0.0047	<0.0118	<0.0038	<0.0034	<0.0272	<0.0045
1,2-Dichloropropane	mg/kg	<0.0031	<0.0040	<0.0063	<0.0052	<0.0039	<0.0049	<0.0040	<0.0054	<0.0050	<0.0059	<0.0036	<0.0050	<0.0040	<0.0077	<0.0042	<0.0048	<0.0038	<0.0037	<0.0047	<0.0118	<0.0038	<0.0034	<0.0272	<0.0045
1,3,5-Trimethylbenzene	mg/kg	<0.0031	<0.0040	<0.0063	<0.0052	<0.0039	<0.0049	<0.0040	<0.0054	<0.0050	<0.0059	<0.0036	<0.0050	<0.0040	<0.0077	<0.0042	<0.0048	<0.0038	<0.0037	<0.0047	<0.0118	<0.0038	<0.0034	<0.0272	<0.0045
1,3-Dichlorobenzene	mg/kg	<0.0031	<0.0040	<0.0063	<0.0052	<0.0039	<0.0049	<0.0040	<0.0054	<0.0050	<0.0059	<0.0036	<0.0050	<0.0040	<0.0077	<0.0042	<0.0048	<0.0038	<0.0037	<0.0047	<0.0118	<0.0038	<0.0034	<0.0272	<0.0045
1,3-Dichloropropane	mg/kg	<0.0031	<0.0040	<0.0063	<0.0052	<0.0039	<0.0049	<0.0040	<0.0054	<0.0050	<0.0059	<0.0036	<0.0050	<0.0040	<0.0077	<0.0042	<0.0048	<0.0038	<0.0037	<0.0047	<0.0118	<0.0038	<0.0034	<0.0272	<0.0045
1,4-Dichlorobenzene	mg/kg	<0.0031	<0.0040	<0.0063	<0.0052	<0.0039	<0.0049	<0.0040	<0.0054	<0.0050	<0.0059	<0.0036	<0.0050	<0.0040	<0.0077	<0.0042	<0.0048	<0.0038	<0.0037	<0.0047	<0.0118	<0.0038	<0.0034	<0.0272	<0.0045
1,4-Dioxane	mg/kg	<0.0621	<0.0799	<0.126	<0.105	<0.0788	<0.0988	<0.0792	<0.109	<0.0993	<0.118	<0.0721	<0.100	<0.0791	<0.155	<0.0836	<0.0957	<0.0769	<0.0743	<0.0940	<0.236	<0.0761	<0.0676	<0.544	<0.0897
2,2-Dichloropropane	mg/kg	<0.0031	<0.0040	<0.0063	<0.0052	<0.0039	<0.0049	<0.0040	<0.0054	<0.0050	<0.0059	<0.0036	<0.0050	<0.0040	<0.0077	<0.0042	<0.0048	<0.0038	<0.0037	<0.0047	<0.0118	<0.0038	<0.0034	<0.0272	<0.0045
2-Butanone	mg/kg	<0.0062	<0.0080	<0.0126	<0.0105	<0.0079	<0.0099	<0.0079	<0.0109	0.024	<0.0118	<0.0072	<0.0100	<0.0079	<0.0155	<0.0084	<0.0096	<0.0077	<0.0074	<0.0094	<0.0236	<0.0076	<0.0068	<0.0544	<0.0090
2-Chlorotoluene	mg/kg	<0.0031	<0.0040	<0.0063	<0.0052	<0.0039	<0.0049	<0.0040	<0.0054	<0.0050	<0.0059	<0.0036	<0.0050	<0.0040	<0.0077	<0.0042	<0.0048	<0.0038	<0.0037	<0.0047	<0.0118	<0.0038	<0.0034	<0.0272	<0.0045
2-Hexanone	mg/kg	<0.0062	<0.0080	<0.0126	<0.0105	<0.0079	<0.0099	<0.0079	<0.0109	<0.0099	<0.0118	<0.0072	<0.0100	<0.0079	<0.0155	<0.0084	<0.0096	<0.0077	<0.0074	<0.0094	<0.0236	<0.0076	<0.0068	<0.0544	<0.0090
4-Chlorotoluene	mg/kg	<0.0031	<0.0040	<0.0063	<0.0052	<0.0039	<0.0049	<0.0040	<0.0054	<0.0050	<0.0059	<0.0036	<0.0050	<0.0040	<0.0077	<0.0042	<0.0048	<0.0038	<0.0037	<0.0047	<0.0118	<0.0038	<0.0034	<0.0272	<0.0045
4-Isopropyltoluene	mg/kg	<0.0031	<0.0040	<0.0063	<0.0052	<0.0039	<0.0049	<0.0040	<0.0054	<0.0050	<0.0059	<0.0036	<0.0050	<0.0040	<0.0077	<0.0042	<0.0048	<0.0038	<0.0037	<0.0047	<0.0118	<0.0038	<0.0034	<0.0272	<0.0045
4-Methyl-2-Pentanone	mg/kg	<0.0062	<0.0080	<0.0126	<0.0105	<0.0079	<0.0099	<0.0079	<0.0109	<0.0099	<0.0118	<0.0072	<0.0100	<0.0079	<0.0155	<0.0084	<0.0096	<0.0077	<0.0074	<0.0094	<0.0236	<0.0076	<0.0068	<0.0544	<0.0090
Acetone	mg/kg	0.0222	<0.0080	<0.0126	0.0345	0.0087	<0.0099	<0.0079	<0.0109	0.133	<0.0118	<0.0072	0.0961	0.0179	0.0807	0.0245	0.0148	0.0079	0.0187	0.0144	<0.0236	0.0279	0.0184	<0.0544	0.0289
Benzene	mg/kg	<0.0031	<0.0040	<0.0063	<0.0052	<0.0039	<0.0049	<0.0040	<0.0054	<0.0050	<0.0059	<0.0036	<0.0050	<0.0040	<0.0077	<0.0042	<0.0048	<0.0038	<0.0037	<0.0047	<0.0118	<0.0038	<0.0034	<0.0272	<0.0045
Bromobenzene	mg/kg	<0.0031	<0.0040	<0.0063	<0.0052	<0.0039	<0.0049	<0.0040	<0.0054	<0.0050	<0.0059	<0.0036	<0.0050	<0.0040	<0.0077	<0.0042	<0.0048	<0.0038	<0.0037	<0.0047	<0.0118	<0.0038	<0.0034	<0.0272	<0.0045
Bromochloromethane	mg/kg	<0.0031	<0.0040	<0.0063	<0.0052	<0.0039	<0.0049	<0.0040	<0.0054	<0.0050	<0.0059	<0.0036	<0.0050	<0.0040	<0.0077	<0.0042	<0.0048	<0.0038	<0.0037	<0.0047	<0.0118	<0.0038	<0.0034	<0.0272	<0.0045
Bromodichloromethane	mg/kg	<0.0031	<0.0040	<0.0063	<0.0052	<0.0039	<0.0049	<0.0040	<0.0054	<0.0050	<0.0059	<0.0036	<0.0050	<0.0040	<0.0077	<0.0042	<0.0048	<0.0038	<0.0037	<0.0047	<0.0118	<0.0038	<0.0034	<0.0272	<0.0045
Bromoform	mg/kg	<0.0031	<0.0040	<0.0063	<0.0052	<0.0039	<0.0049	<0.0040	<0.0054	<0.0050	<0.0059	<0.0036	<0.0050	<0.0040	<0.0077	<0.0042	<0.0048	<0.0038	<0.0037	<0.0047	<0.0118	<0.0038	<0.0034	<0.0272	<0.0045
Bromomethane	mg/kg	<0.0062	<0.0080	<0.0126	<0.0105	<0.0079	<0.0099	<0.0079	<0.0109	<0.0099	<0.0118	<0.0072	<0.0100	<0.0079	<0.0155	<0.0084	<0.0096	<0.0077	<0.0074	<0.0094	<0.0236	<0.0076	<0.0068	<0.0544	<0.0090
Carbon Disulfide	mg/kg	<0.0031	<0.0040	<0.0063	<0.0052	<0.0039	<0.0049	<0.0040	<0.0054	<0.0050	<0.0059	<0.0036	<0.0050	<0.0040	<0.0077	<0.0042	<0.0048	<0.0038	<0.0037	<0.0047	<0.0118	<0.0038	<0.0034	<0.0272	<0.0045
Carbon Tetrachloride	mg/kg	<0.0031	<0.0040	<0.0063	<0.0052	<0.0039	<0.0049	<0.0040	<0.0054	<0.0050	<0.0059	<0.0036	<0.0050	<0.0040	<0.0077	<0.0042	<0.0048	<0.0038	<0.0037	<0.0047	<0.0118	<0.0038	<0.0034	<0.0272	<0.0045
Chlorobenzene	mg/kg	<0.0031	<0.0040	<0.0063	<0.0052	<0.0039	<0.0049	<0.0040	<0.0054	<0.0050	<0.0059	<0.0036	<0.0050	<0.0040	<0.0077	<0.0042	<0.0048	<0.0038	<0.0037	<0.0047	<0.0118	<0.0038	<0.0034	<0.0272	<0.0045
Chloroethane	mg/kg	<0.0062	<0.0080	<0.0126	<0.0105	<0.0079	<0.0099	<0.0079	<0.0109	<0.0099	<0.0118	<0.0072	<0.0100	<0.0079	<0.0155	<0.0084	<0.0096	<0.0077	<0.0074	<0.0094	<0.0236	<0.0076	<0.0068	<0.0544	<0.0090
Chloroform	mg/kg	<0.0031	<0.0040	<0.0063	<0.0052	<0.0039	<0.0049	<0.0040	<0.0054	<0.0050	<0.0059	<0.0036	<0.0050	<0.0040	<0.0077	<0.0042	<0.0048	<0.0038	<0.0037	<0.0047	<0.0118	<0.0038	<0.0034	<0.0272	<0.0045
Chloromethane	mg/kg	<0.0062	<0.0080	<0.0126	<0.0105	<0.0079	<0.0099	<0.0079	<0.0109	<0.0099	<0.0118	<0.0072	<0.0100	<0.0079	<0.0155	<0.0084	<0.0096	<0.0077	<0.0074	<0.0094	<0.0236	<0.0076	<0.0068	<0.0544	<0.0090
cis-1,2-Dichloroethene	mg/kg	<0.0031	<0.0040	<0.0063	<0.0052	<0.0039	<0.0049	<0.0040	<0.0054	<0.0050	<0.0059	<0.0036	<0.0050	<0.0040	<0.0077	<0.0042	<0.0048	<0.0038	<0.0037	<0.0047	<0.0118	<0.0038	<0.0034	<0.0272	<0.0045
cis-1,3-Dichloropropene	mg/kg	<0.0031	<0.0040	<0.0063	<0.0052	<0.0039	<0.0049	<0.0040	<0.0054	<0.0050	<0.0059	<0.0036	<0.0050	<0.0040	<0.0077	<0.0042	<0.0048	<0.0038	<0.0037	<0.0047	<0.0118	<0.0038	<0.0034	<0.0272	<0.0045
Dibromochloromethane	mg/kg	<0.0012	<0.0016	<0.0025	<0.0021	<0.0016	<0.0020	<0.0016	<0.0022	<0.0020	<0.0024	<0.0014	<0.0020	<0.0016	<0.0031	<0.0017	<0.0019	<0.0015	<0.0015	<0.0019	<0.0047	<0.0015	<0.0014	<0.0109	<0.0018
Dibromomethane	mg/kg	<0.0031	<0.0040	<0.0063	<0.0052	<0.0039	<0.0049	<0.0040	<0.0054	<0.0050	<0.0059	<0.0036	<0.0050	<0.0040	<0.0077	<0.0042	<0.0048	<0.0038	<0.0037	<0.0047	<0.0118	<0.0038	<0.0034	<0.0272	<0.0045
Dichlorodifluoromethane	mg/kg	<0.0062	<0.0080	<0.0126	<0.0105	<0.0079	<0.0099	<0.0079	<0.0109	<0.0099	<0.0118	<0.0072	<0.0100	<0.0079	<0.0155	<0.0084	<0.0096	<0.0077	<0.0074	<0.0094	<0.0236	<0.0076	<0.0068	<0.0544	<0.0090
Diethyl Ether	mg/kg	<0.0031	<0.0040	<0.0063	<0.0052	<0.0039	<0.0049	<0.0040	<0.0054	<0.0050	<0.0059	<0.0036	<0.0050	<0.0040	<0.0077	<0.0042	<0.0048	<0.0038	<0.0037	<0.0047	<0.0118	<0.0038	<0.0034	<0.0272	<0.0045
Di-isopropyl ether	mg/kg	<0.0031	<0.0040	<0.0063	<0.0052	<0.0039	<0.0049	<0.0040	<0.0054	<0.0050	<0.0059	<0.0036	<0.0050	<0.0040	<0.0077	<0.0042	<0.0048	<0.0038	<0.0037	<0.0047	<0.0118	<0.0038	<0.0034	<0.0272	<0.0045
Ethyl tertiary-butyl ether	mg/kg	<0.0031	<0.0040	<0.0063	<0.0052	<0.0039	<0.0049	<0.0040	<0.0054	<0.0050	<0.0059	<0.0036	<0.0050	<0.0040	<0.0077	<0.0042	<0.0048	<0.0038	<0.0037	<0.0047	<0.0118	<0.0038	<0.0034	<0.0272	<0.0045
Ethylbenzene	mg/kg	<0.0031	<0.0040	<0.0063	<0.0052	<0.0039	<0.0049	<0.0040	<0.0054	<0.0050	<0.0059	<0.0036	<0.0050	<0.0040	<0.0077	<0.0042	<0.0048	<0.0038	<0.0037	<0.0047	<0.0118	<0.0038	<0.0034	<0.0272	<0.0045
Hexachlorobutadiene	mg/kg	<0.0031	<0.0040	<0.0063	<0.0052	<0.0039	<0.0049	<0.0040	<0.0054	<0.0050	<0.0059	<0.0036	<0.0050	<0.0040	<0.0077	<0.0042	<0.0048	<0.0038	<0.0037	<0.0047	<0.0118	<0.0038	<0.0034	<0.0272	<0.0045
Isopropylbenzene	mg/kg	<0.0031	<0.0040	<0.0063	<0.0052	<0.0039	<0.0049	<0.0040	<0.0054	<0.0050	<0.0059	<0.0036	<0.0050	<0.0040	<0.0077	<0.0042	<0.0048	<0.0038	<0.0037	<0.0047	<0.0118	<0.0038	<0.0034	<0.0272	<0.0045
Methyl tert-Butyl Ether	mg/kg	<0.0031	<0.0040	<0.0063	<0.0052	<0.0039	<0.0049	<0.0040	<0.0054	<0.0050	<0.0059	<0.0036	<0.0050	<0.0040	<0.0077	<0.0042	<0.0048	<0.0038	<0.0037	<0.0047	<0.0118	<0.0038	<0.0034	<0.0272	<0.0045
Methylene Chloride	mg/kg	<0.0062	<0.0080	<0.0126	<0.0105	<0.0079	<0.0099	<0.0079	<0.0109	<0.0099	<0.0118	<0.0072	<0.0100	<0.0079	<0.0155	<0.0084	<0.0096	<0.0077	<0.0074	<0.0094	<0.0236	<0.0076	<0.0068	<0.0544	<0.0090
Naphthalene	mg/kg	<0.0031	<0.0040	<0.0063	<0.0052	<0.0039	<0.0049	<0.0040	<0.0054	<0.0050	<0.0059	<0.0036	0.0854	<0.0040	<0.0077	<0.0042	<0.0048	<0.0038	<0.0037	<0.0047	<0.0118	<0.0038	0.027	<0.0272	<0.0045
n-Butylbenzene	mg/kg	<0.0031	<0.0040	<0.0063	<0.0052	<0.0039	<0.0049	<0.0040	<0.0054	<0.0050	<0.0059	<0.0036	<0.0050	<0.0040	<0.0077	<0.0042	<0.0048	<0.0038	<0.0037	<0.0047	<0.0118	<0.0038	<0.0034	<0.0272	<0.0045
n-Propylbenzene	mg/kg	<0.0031	<0.0040	<0.0063	<0.0052	<0.0039	<0.0049	<0.0040	<0.0054	<0.0050	<0.0059	<0.0036	<0.0050	<0.0040	<0.0077	<0.0042	<0.0048	<0.0038	<0.0037	<0.0047	<0.0118	<0.0038	<0.0034	<0.0272	<0.0045
sec-Butylbenzene	mg/kg	<0.0031	<0.0040	<0.0063	<0.0052	<0.0039	<0.0049	<0.0040	<0.0054	<0.0050	<0.0059	<0.0036	<0.0050	<0.0040	<0.0077	<0.0042	<0.0048	<0.0038	<0.0037	<0.0047	<0.0118	<0.0038	<0.0034	<0.0272	<0.0045

Table 1
Soil Precharacterization Data

Wynn Resort Casino
Everett, Massachusetts

Analyte	Precharacterization Cell	G18	G18	GZ008	GZ008	GZ008	GZ008	GZ008	GZ009	GZ009	GZ009	H05	H05	H05	H05	H05	H05	H05	H05	H05	H06	H06	H06	H06
	Sample ID	G18S11	G18S12S13	GZ008S01S03	GZ008S05S07	GZ008S08S10	GZ008S12S16	GZ008S17S18	GZ009S01S03	GZ009S07S10	GZ009S11S16	GZ026S01S02A	GZ026S02BS04A	GZ026S04BS05	GZ026S06	GZ026S08	GZ026S09	GZ026S10	GZ026S11	GZ026S12	H06S01S02A	H06S02BS03A	H06S03BS04	H06S05	H06S06
	Laboratory Work Order	1501110	1501110	1410789	1410789	1411028	1411028	1411028	1410789	1411028	1411028	1503165	1503165	1503165	1503165	1503165	1503165	1503165	1503165	1503165	1503021	1503021	1503021	1503021
	Soil Distinction	Natural	Natural	Fill	Fill	Natural	Natural	Natural	Fill	Fill	Natural	Fill	Fill	Fill	Natural	Natural	Natural	Natural	Natural	Natural	Fill	Fill	Natural	Natural
	Soil Type	Sand/Gravel	Clay			Organics	Organics	Sand/Gravel			Sand/Gravel				Organics	Clay	Clay	Clay	Clay	Clay			Organics	Clay
	Depth Interval (ft.)	29 - 31	34 - 38	0 - 6	8 - 14	16 - 27	29 - 39	39 - 46	0 - 6	12 - 20	20 - 46	0 - 3.3	3.3 - 6.6	6.6 - 10	10 - 12	14 - 16	19 - 21	24 - 26	29 - 31	34 - 36	0 - 3.3	3.3 - 5.5	5.5 - 8	9 - 11	14 - 16
	Sampling Date	1/7/2015	1/7/2015	10/31/2014	10/31/2014	11/3/2014	11/3/2014	11/3/2014	10/31/2014	11/3/2014	11/3/2014	3/10/2015	3/10/2015	3/10/2015	3/10/2015	3/10/2015	3/10/2015	3/10/2015	3/10/2015	3/10/2015	3/2/2015	3/2/2015	3/2/2015	3/2/2015	3/2/2015
Preliminary Disposal Facility Category		MCP Regulated Type A	MCP Regulated Type B-1	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	Uncontaminated	Uncontaminated	MCP Regulated Type A	MCP Regulated Type B-1	Uncontaminated	Hazardous Material Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type B-1	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A
Styrene	mg/kg	<0.0031	<0.0040	<0.0063	<0.0052	<0.0039	<0.0049	<0.0040	<0.0054	<0.0050	<0.0059	<0.0036	<0.0050	<0.0040	<0.0077	<0.0042	<0.0048	<0.0038	<0.0037	<0.0047	<0.0118	<0.0038	<0.0034	<0.0272	<0.0045
tert-Butylbenzene	mg/kg	<0.0031	<0.0040	<0.0063	<0.0052	<0.0039	<0.0049	<0.0040	<0.0054	<0.0050	<0.0059	<0.0036	<0.0050	<0.0040	<0.0077	<0.0042	<0.0048	<0.0038	<0.0037	<0.0047	<0.0118	<0.0038	<0.0034	<0.0272	<0.0045
Tertiary-amyl methyl ether	mg/kg	<0.0031	<0.0040	<0.0063	<0.0052	<0.0039	<0.0049	<0.0040	<0.0054	<0.0050	<0.0059	<0.0036	<0.0050	<0.0040	<0.0077	<0.0042	<0.0048	<0.0038	<0.0037	<0.0047	<0.0118	<0.0038	<0.0034	<0.0272	<0.0045
Tetrachloroethene	mg/kg	<0.0031	<0.0040	<0.0063	<0.0052	<0.0039	<0.0049	<0.0040	<0.0054	<0.0050	<0.0059	<0.0036	<0.0050	<0.0040	<0.0077	<0.0042	<0.0048	<0.0038	<0.0037	<0.0047	<0.0118	<0.0038	<0.0034	<0.0272	<0.0045
Tetrahydrofuran	mg/kg	<0.0031	<0.0040	<0.0063	<0.0052	<0.0039	<0.0049	<0.0040	<0.0054	<0.0050	<0.0059	<0.0036	<0.0050	<0.0040	<0.0077	<0.0042	<0.0048	<0.0038	<0.0037	<0.0047	<0.0118	<0.0038	<0.0034	<0.0272	<0.0045
Toluene	mg/kg	<0.0031	<0.0040	<0.0063	<0.0052	<0.0039	<0.0049	<0.0040	<0.0054	<0.0050	<0.0059	<0.0036	<0.0050	<0.0040	<0.0077	<0.0042	<0.0048	<0.0038	<0.0037	<0.0047	<0.0118	<0.0038	<0.0034	<0.0272	<0.0045
trans-1,2-Dichloroethene	mg/kg	<0.0031	<0.0040	<0.0063	<0.0052	<0.0039	<0.0049	<0.0040	<0.0054	<0.0050	<0.0059	<0.0036	<0.0050	<0.0040	<0.0077	<0.0042	<0.0048	<0.0038	<0.0037	<0.0047	<0.0118	<0.0038	<0.0034	<0.0272	<0.0045
trans-1,3-Dichloropropene	mg/kg	<0.0031	<0.0040	<0.0063	<0.0052	<0.0039	<0.0049	<0.0040	<0.0054	<0.0050	<0.0059	<0.0036	<0.0050	<0.0040	<0.0077	<0.0042	<0.0048	<0.0038	<0.0037	<0.0047	<0.0118	<0.0038	<0.0034	<0.0272	<0.0045
Trichloroethene	mg/kg	<0.0031	<0.0040	<0.0063	<0.0052	<0.0039	<0.0049	<0.0040	<0.0054	<0.0050	<0.0059	<0.0036	<0.0050	<0.0040	<0.0077	<0.0042	<0.0048	<0.0038	<0.0037	<0.0047	<0.0118	<0.0038	<0.0034	<0.0272	<0.0045
Trichlorofluoromethane	mg/kg	<0.0031	<0.0040	<0.0063	<0.0052	<0.0039	<0.0049	<0.0040	<0.0054	<0.0050	<0.0059	<0.0036	<0.0050	<0.0040	<0.0077	<0.0042	<0.0048	<0.0038	<0.0037	<0.0047	<0.0118	<0.0038	<0.0034	<0.0272	<0.0045
Vinyl Chloride	mg/kg	<0.0062	<0.0080	<0.0126	<0.0105	<0.0079	<0.0099	<0.0079	<0.0109	<0.0099	<0.0118	<0.0072	<0.0100	<0.0079	<0.0155	<0.0084	<0.0096	<0.0077	<0.0074	<0.0094	<0.0236	<0.0076	<0.0068	<0.0544	<0.0090
Xylene O	mg/kg	<0.0031	<0.0040	<0.0063	<0.0052	<0.0039	<0.0049	<0.0040	<0.0054	<0.0050	<0.0059	<0.0036	<0.0050	<0.0040	<0.0077	<0.0042	<0.0048	<0.0038	<0.0037	<0.0047	<0.0118	<0.0038	<0.0034	<0.0272	<0.0045
Xylene P,M	mg/kg	<0.0062	<0.0080	<0.0126	<0.0105	<0.0079	<0.0099	<0.0079	<0.0109	<0.0099	<0.0118	<0.0072	<0.0100	<0.0079	<0.0155	<0.0084	<0.0096	<0.0077	<0.0074	<0.0094	<0.0236	<0.0076	<0.0068	<0.0544	<0.0090
Xylenes (Total)	mg/kg	<0.0062	<0.0080	<0.0126	<0.0105	<0.0079	<0.0099	<0.0079	<0.0109	<0.0099	<0.0118	<0.0072	<0.0100	<0.0079	<0.0155	<0.0084	<0.0096	<0.0077	<0.0074	<0.0094	<0.0236	<0.0076	<0.0068	<0.0544	<0.0090
Total VOCs (Low Level)	mg/kg	0.0222	ND	ND	0.0345	0.0087	ND	ND	ND	0.157	ND	ND	0.1815	0.0179	0.0807	0.0245	0.0148	0.0079	0.0187	0.0144	ND	0.0279	0.0454	ND	0.0289
Semi-Volatile Organic Compounds																									
1,2,4-Trichlorobenzene	mg/kg	<1.00	<1.03	<0.91	<1.19	<1.03	<1.05	<0.942	<0.895	<1.07	<0.863	<0.888	<0.920	<0.997	<1.53	<1.03	<1.02	<1.07	<1.01	<1.06	<0.935	<0.992	<0.939	<3.76	<1.01
1,2-Dichlorobenzene	mg/kg	<1.00	<1.03	<0.91	<1.19	<1.03	<1.05	<0.942	<0.895	<1.07	<0.863	<0.888	<0.920	<0.997	<1.53	<1.03	<1.02	<1.07	<1.01	<1.06	<0.935	<0.992	<0.939	<3.76	<1.01
1,3-Dichlorobenzene	mg/kg	<1.00	<1.03	<0.91	<1.19	<1.03	<1.05	<0.942	<0.895	<1.07	<0.863	<0.888	<0.920	<0.997	<1.53	<1.03	<1.02	<1.07	<1.01	<1.06	<0.935	<0.992	<0.939	<3.76	<1.01
1,4-Dichlorobenzene	mg/kg	<0.502	<0.514	<0.456	<0.598	<0.515	<0.528	<0.473	<0.449	<0.538	<0.433	<0.445	<0.461	<0.500	<0.767	<0.514	<0.512	<0.534	<0.508	<0.532	<0.469	<0.497	<0.471	<1.89	<0.506
2,4,5-Trichlorophenol	mg/kg	<1.00	<1.03	<0.91	<1.19	<1.03	<1.05	<0.942	<0.895	<1.07	<0.863	<0.888	<0.920	<0.997	<1.53	<1.03	<1.02	<1.07	<1.01	<1.06	<0.935	<0.992	<0.939	<3.76	<1.01
2,4,6-Trichlorophenol	mg/kg	<1.00	<1.03	<0.91	<1.19	<1.03	<1.05	<0.942	<0.895	<1.07	<0.863	<0.888	<0.920	<0.997	<1.53	<1.03	<1.02	<1.07	<1.01	<1.06	<0.935	<0.992	<0.939	<3.76	<1.01
2,4-Dichlorophenol	mg/kg	<1.00	<1.03	<0.91	<1.19	<1.03	<1.05	<0.942	<0.895	<1.07	<0.863	<0.888	<0.920	<0.997	<1.53	<1.03	<1.02	<1.07	<1.01	<1.06	<0.935	<0.992	<0.939	<3.76	<1.01
2,4-Dimethylphenol	mg/kg	<1.00	<1.03	<0.91	<1.19	<1.03	<1.05	<0.942	<0.895	<1.07	<0.863	<0.888	<0.920	<0.997	<1.53	<1.03	<1.02	<1.07	<1.01	<1.06	<0.935	<0.992	<0.939	<3.76	<1.01
2,4-Dinitrophenol	mg/kg	<5.02	<5.14	<4.56	<5.98	<5.15	<5.28	<4.73	<4.49	<5.38	<4.33	<4.45	<4.61	<5.00	<7.67	<5.14	<5.12	<5.34	<5.08	<5.32	<4.69	<4.97	<4.71	<18.9	<5.06
2,4-Dinitrotoluene	mg/kg	<1.00	<1.03	<0.91	<1.19	<1.03	<1.05	<0.942	<0.895	<1.07	<0.863	<0.888	<0.920	<0.997	<0.384	<1.03	<1.02	<1.07	<1.01	<1.06	<0.935	<0.992	<0.939	<0.943	<1.01
2,6-Dinitrotoluene	mg/kg	<1.00	<1.03	<0.91	<1.19	<1.03	<1.05	<0.942	<0.895	<1.07	<0.863	<0.888	<0.920	<0.997	<1.53	<1.03	<1.02	<1.07	<1.01	<1.06	<0.935	<0.992	<0.939	<3.76	<1.01
2-Chloronaphthalene	mg/kg	<1.00	<1.03	<0.91	<1.19	<1.03	<1.05	<0.942	<0.895	<1.07	<0.863	<0.888	<0.920	<0.997	<1.53	<1.03	<1.02	<1.07	<1.01	<1.06	<0.935	<0.992	<0.939	<3.76	<1.01
2-Chlorophenol	mg/kg	<1.00	<1.03	<0.91	<1.19	<1.03	<1.05	<0.942	<0.895	<1.07	<0.863	<0.888	<0.920	<0.997	<1.53	<1.03	<1.02	<1.07	<1.01	<1.06	<0.935	<0.992	<0.939	<3.76	<1.01
2-Methylnaphthalene	mg/kg	<1.00	<1.03	<0.91	<1.19	<1.03	<1.05	<0.942	<0.895	<1.07	<0.863	<0.888	<0.920	<0.997	<1.53	<1.03	<1.02	<1.07	<1.01	<1.06	<0.935	<0.992	<0.939	<3.76	<1.01
2-Methylphenol	mg/kg	<1.00	<1.03	<0.91	<1.19	<1.03	<1.05	<0.942	<0.895	<1.07	<0.863	<0.888	<0.920	<0.997	<1.53	<1.03	<1.02	<1.07	<1.01	<1.06	<0.935	<0.992	<0.939	<3.76	<1.01
2-Nitrophenol	mg/kg	<1.00	<1.03	<0.91	<1.19	<1.03	<1.05	<0.942	<0.895	<1.07	<0.863	<0.888	<0.920	<0.997	<1.53	<1.03	<1.02	<1.07	<1.01	<1.06	<0.935	<0.992	<0.939	<3.76	<1.01
3,3´-Dichlorobenzidine	mg/kg	<2.00	<2.05	<1.82	<2.39	<2.06	<2.11	<1.89	<1.79	<2.15	<1.73	<1.78	<1.84	<2.00	<3.06	<2.05	<2.05	<2.13	<2.03	<2.13	<1.87	<1.99	<1.88	<7.53	<2.02
3+4-Methylphenol	mg/kg	<2.00	<2.05	<1.82	<2.39	<2.06	<2.11	<1.89	<1.79	<2.15	<1.73	<1.78	<1.84	<2.00	<3.06	<2.05	<2.05	<2.13	<2.03	<2.13	<1.87	<1.99	<1.88	<7.53	<2.02
4-Bromophenyl-phenylether	mg/kg	<1.00	<1.03	<0.91	<1.19	<1.03	<1.05	<0.942	<0.895	<1.07	<0.863	<0.888	<0.920	<0.997	<1.53	<1.03	<1.02	<1.07	<1.01	<1.06	<0.935	<0.992	<0.939	<3.76	<1.01
4-Chloroaniline	mg/kg	<2.00	<2.05	<1.82	<2.39	<2.06	<2.11	<1.89	<1.79	<2.15	<1.73	<1.78	<1.84	<2.00	<0.767	<2.05	<2.05	<2.13	<2.03	<2.13	<1.87	<1.99	<1.88	<1.89	<2.02
4-Nitrophenol	mg/kg	<5.02	<5.14	<4.56	<5.98	<5.15	<5.28	<4.73	<4.49	<5.38	<4.33	<4.45	<4.61	<5.00	<7.67	<5.14	<5.12	<5.34	<5.08	<5.32	<4.69	<4.97	<4.71	<18.9	<5.06
Acenaphthene	mg/kg	<1.00	<1.03	<0.91	<1.19	<1.03	<1.05	<0.942	<0.895	<1.07	<0.863	<0.888	<0.920	<0.997	<1.53	<1.03	<1.02	<1.07	<1.01	<1.06	<0.935	3.53	3.24	<3.76	<1.01
Acenaphthylene	mg/kg	<1.00	<1.03	<0.91	<1.19	<1.03	<1.05	<0.942	<0.895	<1.07	<0.863	<0.888	<0.920	<0.997	<1.53	<1.03	<1.02	<1.07	<1.01	<1.06	<0.935	<0.992	<0.939	<3.76	<1.01
Acetophenone	mg/kg	<2.00	<2.05	<1.82	<2.39	<2.06	<2.11	<1.89	<1.79	<2.15	<1.73	<1.78	<1.84	<2.00	<3.06	<2.05	<2.05	<2.13	<2.03	<2.13	<1.87	<1.99	<1.88	<7.53	<2.02
Aniline	mg/kg	<5.02	<5.14	<4.56	<5.98	<5.15	<5.28	<4.73	<4.49	<5.38	<4.33	<4.45	<4.61	<5.00	<7.67	<5.14	<5.12	<5.34	<5.08	<5.32	<4.69	<4.97	<4.71	<18.9	<5.06
Anthracene	mg/kg	<1.00	<1.03	<0.91	<1.19	<1.03	<1.05	<0.942	<0.895	<1.07	<0.863	<0.888	1.21	<0.997	<1.53	<1.03	<1.02	<1.07	<1.01	<1.06	<0.935	6.13	6.65	<3.76	<1.01
Azobenzene	mg/kg	<1.00	<1.03	<0.91	<1.19	<1.03	<1.05	<0.942	<0.895	<1.07	<0.863	<0.888	<0.920	<0.997	<1.53	<1.03	<1.02	<1.07	<1.01	<1.06	<0.935	<0.992	<0.939	<3.76	<1.01
Benzo(a)anthracene	mg/kg	<1.00	<1.03	<0.91	<1.19	<1.03	<1.05	<0.942	0.962	<1.07	<0.863	1.88	3.34	<0.997	<1.53	<1.03	<1.02	<1.07	<1.01	<1.06	<0.935	13.2	12.9	<3.76	<1.01
Benzo(a)pyrene	mg/kg	<0.502	<0.514	<0.456	<0.598	<0.515	<0.528	<0.473	0.923	<0.538	<0.433	1.82	3.07	<0.500	<0.767	<0.514	<0.512	<0.534	<0.508	<0.532	<0.469	10.9	7.53	<1.89	<0.506
Benzo(b)fluoranthene	mg/kg	<1.00	<1.03	<0.91	<1.19	<1.03	<1.05	<0.942	1.22	<1.07	<0.863	2.53	3.62	<0.997	<1.53	<1.03	<1.02	<1.07	<1.01	<1.06	<0.935	15.9	12	<3.76	<1.01
Benzo(g,h,i)perylene	mg/kg	<1.00	<1.03	<0.91	<1.19	<1.03	<1.05	<0.942	<0.895	<1.07	<0.863	<0.888	2.13	<0.997	<1.53	<1.03	<1.02	<1.07	<1.01	<1.06	<0.935	2.88	3.91	<3.76	<1.01
Benzo(k)fluoranthene	mg/kg	<1.00	<1.03	<0.91	<1.19	<1.03	<1.05	<0.942	<0.895	<1.07	<0.863	<0.888	1.45	<0.997	<1.53	<1.03	<1.02	<1.07	<1.01	<1.06	<0.935	4.6	4.86	<3.76	<1.01
bis(2-Chloroethoxy)methane	mg/kg	<1.00	<1.03	<0.91	<1.19	<1.03	<1.05	<0.942	<0.895	<1.07	<0.863	<0.888	<0.920	<0.997	<1.53	<1.03	<1.02	<1.07	<1.01	<1.06	<0.935	<0.992	<0.939	<3.76	<1.01
bis(2-Chloroethyl)ether	mg/kg	<0.502	<0.514	<0.456	<0.598	<0.515	<0.528	<0.473	<0.449	<0.538	<0.433	<0.445	<0.461	<0.500	<0.152	<0.514	<0.512	<0.534	<0.508	<0.532	<0.469	<0.497	<0.471	<0.373	<0.506
bis(2-chloroisopropyl)Ether	mg/kg	<0.502	<0.514	<0.456	<0.598	<0.515	<0.528	<0.473	<0.449	<0.538	<0.433	<0.445	<0.461	<0.500	<0.152	<0.514	<0.512	<0.534	<0.508	<0.532	<0.469	<0.497	<0.471	<0.373	<0.506
bis(2-Ethylhexyl)phthalate	mg/kg	<1.00	<1.03	<0.91	<1.19	<1.03	<1.05	<0.942	<0.895	<1.07	<0.863	<0.888	<0.920	<0.997	<1.53	<1.03	<1.02	<1.07	<1.01	<1.06	<0.935	<0.992	<0.939	<3.76	1.75
Butylbenzylphthalate	mg/kg	<1.00	<1.03	<0.91	<1.19	<1.03	<1.05	<0.942	<0.895	<1.07	<0.863	<0.888	<0.920	<0.997	<1.53	<1.03	<1.02	<1.07	<1.01	<1.06	<0.935	<0.992	<0.939	<3.76	<1.01
Chrysene	mg/kg	<0.502	<0.514	0.719	<0.598	<0.515	<0.528	<0.473	0.97	<0.538	<0.433	1.93	2.89	<0.500	<0.767	<0.514	<0.512	<0.534	<0.508	<0.532	<0.469	11.4	11.4	<1.89	<0.506
Dibenzo(a,h)Anthracene	mg/kg	<0.502	<0.514	<0.456	<0.598	<0.515	<0.528	<0.473	<0.449	<0.538	<0.433	<0.445	0.927	<0.500	<0.767	<0.514	<0.512	<0.534	<0.508	<0.532	<0.469	<0.497	<0.471	<1.89	<0.506
Dibenzofuran	mg/kg	<1.00	<1.03	<0.91	<1.19	<1.03	<1.05	<0.942	<0.895	<1.07	<0.863	<0.888	<0.920	<0.997	<1.53	<1.03	<1.02	<1.07	<1.01	<1.06	<0.935	1.54	2.21	<3.76	<1.01
Diethylphthalate	mg/kg	<1.00	<1.03	<0.91	<1.19	<1.03	<1.05	<0.942	<0.895	<1.07	<0.863	<0.888	<0.920	<0.997	<1.53	<1.03	<1.02	<1.07	<1.01	<1.06	<0.935	<0.992	<0.939	<3.76	<1.01
Dimethylphthalate	mg/kg	<1.00	<1.03	<0.91	<1.19	<1.03	<1.05	<0.942	<0.895	<1.07	<0.863	<0.888	<0.920	<0.997	<1.53	<1.03	<1.02	<1.07	<1.01	<1.06	<0.935	<0.992	<0.939	<3.76	<1.01
Di-n-butylphthalate	mg/kg	<1.00	<1.03	<0.91	<1.19	<1.03	<1.05	<0.942	<0.895	<1.07	<0.863	<0.888	<0.920	<0.997	<1.53	<1.03	<1.02	<1.07	<1.01	<1.06	<0.935	<0.992	<0.939	<3.76	<1.01
Di-n-octylphthalate	mg/kg	<1.00	<1.03	<0.91	<1.19	<1.03	<1.05	<0.942	<0.895	<1.07	<0.863	<0.888	<0.920	<0.997	<1.53	<1.03	<1.02	<1.07	<1.01	<1.06	<0.935	<0.992	<0.939	<3.76	<1.01
Fluoranthene	mg/kg	<1.00	<1.03	1.47	<1.19	<1.03	<1.05	<0.942	1.77	<1.07	<0.863	3.74	6.39	<0.997	<1.53	<1.03	<1.02	<1.07	<1.01	<1.06	<0.935	35	36.2	<3.76	<1.01
Fluorene	mg/kg	<1.00	<1.03	<0.91	<1.19	<1.03	<1.05	<0.942	<0.895	<1.07	<0.863	<0.888	<0.920	<0.997	<1.53	<1.03	<1.02	<1.07	<1.01	<1.06	<0.935	2.9	3.24	<3.76	<1.01
Hexachlorobenzene	mg/kg	<0.502	<0.514	<0.456	<0.598	<0.515	<0.528	<0.473	<0.449	<0.538	<0.433	<0.445	<0.461	<0.500	<0.384	<0.514	<0.512	<0.534	<0.508	<0.532	<0.469	<0.497	<0.471	<1.89	<0.506
Hexachlorobutadiene	mg/kg	<1.00	<1.03	<0.91	<1.19	<1.03	<1.05	<0.942	<0.895	<1.07	<0.863	<0.888	<0.920	<0.997	<1.53	<1.03	<1.02	<1.07	<1.01	<1.06	<0.935	<0.992	<0.939	<3.76	<1.01
Hexachloroethane	mg/kg	<1.00	<1.03	<0.91	<1.19	<1.03	<1.05	<0.942	<0.895	<1.07	<0.863	<0.888	<0.920	<0.997	<0.767	<1.03	<1.02	<1.07	<1.01	<1.06	<0.935	<0.992	<0.939	<1.89	<1.01
Indeno(1,2,3-cd)Pyrene	mg/kg	<1.00	<1.03	<0.91	<1.19	<1.03	<1.05	<0.942	<0.895	<1.07	<0.863	<0.888	1.9	<0.997	<1.53	<1.03	<1.02	<1.07	<1.01	<1.06	<0.935	3.34	4.08	<3.76	<1.01
Isophorone	mg/kg	<1.00	<1.03	<0.91	<1.19	<1.03	<1.05	<0.942	<0.895	<1.07	<0.863	<0.888	<0.920	<0.997	<1.53	<1.03	<1.02	<1.07	<1.01	<1.06	<0.935	<0.992	<0.939	<3.76	<1.01
Naphthalene	mg/kg	<1.00	<1.03	<0.91	<1.19	<1.03	<1.05	<0.942	<0.895	<1.07	<0.863	<0.888	<0.920	<0.997	<1.53	<1.03	<1.02	<1.07	<1.01	<1.06	<0.935	1.02	1.41	<3.76	<1.01
Nitrobenzene	mg/kg	<1.00	<1.03	<0.91	<1.19	<1.03	<1.05	<0.942	<0.895	<1.07	<0.863	<0.888	<0.920	<0.997	<1.53	<1.03	<1.02	<1.07	<1.01	<1.06	<0.935	<0.992	<0.939	<3.76	<1.01
N-Nitrosodimethylamine	mg/kg	<1.00	<1.03	<0.91	<1.19	<1.03	<1.05	<0.942	<0.895	<1.07	<0.863	<0.888	<0.920	<0.997	<1.53	<1.03	<1.02	<1.07	<1.01	<1.06	<0.935	<0.992	<0.939	<3.76	<1.01
Pentachlorophenol	mg/kg	<5.02	<5.14	<4.56	<5.98	<5.15	<5.28	<4.73	<4.49	<5.38	<4.33	<4.45	<4.61	<5.00	<1.53	<5.14	<5.12	<5.34	<5.08	<5.32	<4.69	<4.97	<4.71	<3.76	<5.06
Phenanthrene	mg/kg	<1.00	<1.03	1.27	<1.19	<1.03	<1.05	<0.942	0.967	<1.07	<0.863	2.65	4.37	<0.997	<1.53	<1.03	<1.02	<1.07	<1.01	<1.06	<0.935	20.4	23.3	<3.76	<1.01
Phenol	mg/kg	<1.00	<1.03	<0.91	<1.19	<1.03	<1.05	<0.942	<0.895	<1.07	<0.863	<0.888	<0.920	<0.997	<1.53	<1.03	<1.02	<1.07	<1.01	<1.06	<0.935	<0.992	<0.939	<3.76	<1.01
Pyrene	mg/kg	<1.00	<1.03	0.924	<1.19	<1.03	<1.05	<0.942	1.19	<1.07	<0.863	2.88	5	<0.997	<1.53	<1.03	<1.02	<1.07	<1.01	<1.06	<0.935	17.7	21.4	<3.76	<1.01
Total SVOCs	mg/kg	ND	ND	4.383	ND	ND	ND	ND	8.002	ND	ND	17.43	36.297	ND	ND	ND	ND	ND	ND	ND	ND	150.44	154.33	ND	1.75
Classic Chemistry																									
Corrosivity (pH)	S.U.	6.9	5.18	7.83	7.09	6.91	7.23	7.41	8.62	7.44	8.15	8.51	11.7	9.13	8	8.28	7.79	7.28	7.18	7.9	8.06	7.08	8.17	7.36	8.02
Conductivity	umhos/cm	1460	5570	1690	3010	900	1450	2870	1620	4220	1180	266	1230	256	588	1810	1720	4340	3580	840	187	380	411	750	2230
Flashpoint	°F	--	--	>200	>200	>200	>200	>200	>200	>200	>200	>200	>200	>200	--	--	--	--	--	--	>200	>200	--	--	--
Reactive Cyanide	mg/kg	--	--	<2	<2	<2.0	<2.0	<2.0	<2	<2.0	<2.0	<2.0	<2.0	<2.0	--	--	--	--	--	--	<2.0	<2.0	--	--	--
Reactive Sulfide	mg/kg	--	--	<2	<2	<2.0	<2.0	<2.0	<2	<2.0	<2.0	<2.0	<2.0	<2.0	--	--	--	--	--	--	<2.0	<2.0	--	--	--

Table 1
Soil Precharacterization Data

Wynn Resort Casino
Everett, Massachusetts

Analyte	Precharacterization Cell	H06	H06	H06	H06	H07	H07	H07	H07	H07	H07	H07	H07	H07	H08	H08	H08	H08	H08	H08	H08	H08	H09	H09	H09
	Sample ID	H06S07	H06S08	H06S09	H06S10S11	H07S01S02A	H07S02BS04A	H07S04BS05	H07S06	H07S07	H07S08	H07S09	H07S10	H07S11S12	H08S01S02A	H08S02BS04A	H08S04BS05	H08S06S07	H08S09	H08S10	H08S11S12	H08S8	H09S01S02A	H09S03	H09S04
	Laboratory Work Order	1503021	1503021	1503021	1503021	1503111	1503111	1503111	1503111	1503111	1503111	1503111	1503111	1503111	1501192	1501192	1501192	1501192	1501192	1501192	1501192	1501192	1502051	1502051	1502051
	Soil Distinction	Natural	Natural	Natural	Natural	Fill	Fill	Fill	Natural	Natural	Natural	Natural	Natural	Natural	Fill	Fill	Fill	Natural	Natural	Natural	Natural	Natural	Fill	Natural	Natural
	Soil Type	Clay	Clay	Clay	Clay				Organics	Clay	Clay	Clay	Clay	Clay				Clay	Clay	Clay	Sand/Gravel	Clay		Clay	Clay
	Depth Interval (ft.)	19 - 21	24 - 26	29 - 31	34 - 38	0 - 3.3	3.3 - 6.6	6.6 - 10	10 - 12	14 - 16	19 - 21	24 - 26	29 - 31	34 - 38	0 - 3.3	3.3 - 6.6	6.6 - 10	10 - 14	24 - 26	29 - 31	0 - 34	19 - 21	0 - 3.3	12 - 14	19 - 21
	Sampling Date	3/2/2015	3/2/2015	3/2/2015	3/2/2015	3/6/2015	3/6/2015	3/6/2015	3/6/2015	3/6/2015	3/6/2015	3/6/2015	3/6/2015	3/6/2015	1/12/2015	1/12/2015	1/12/2015	1/12/2015	1/12/2015	1/12/2015	1/12/2015	1/12/2015	2/4/2015	2/4/2015	2/4/2015
Preliminary Disposal Facility Category		MCP Regulated Type B-1	MCP Regulated Type B-1	Uncontaminated	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Restricted	MCP Regulated Type A	MCP Regulated Type B-1	Uncontaminated	Uncontaminated	MCP Regulated Type A	MCP Regulated Type B-1	Hazardous Material Type A	Hazardous Material Type B	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type B-1	Uncontaminated	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type B-1
RCRA 8 Metals	**Units**																								
Arsenic	mg/kg	19.2	9.25	<8.10	<8.72	9.43	51.1	63.3	11.6	12.9	9	<7.53	<7.91	7.69	<9.48	14.1	128	10.4	<13.9	<11.4	<11.6	<14.2	<6.64	17	17.1
Barium	mg/kg	34.4	68	38.2	156	63.5	250	60.3	73.6	94.4	93.3	47.4	49.8	88	35.8	99.8	242	83.2	107	56.8	16.8	90.5	34.4	139	137
Cadmium	mg/kg	<1.54	<1.74	<1.62	<1.74	<1.41	<1.57	<1.69	<1.63	<1.57	<1.47	<1.51	<1.58	<1.35	<1.90	<2.58	30.7	<2.02	<2.78	<2.29	<2.31	<2.83	<1.33	<1.33	<1.63
Chromium	mg/kg	31.6	41.4	23.8	51.9	57.8	19.7	14.4	49	54.5	46.7	23.2	28.1	36.9	21	14.1	<5.43	42.2	61.3	38.9	12.4	51	33.9	72	74.4
Lead	mg/kg	<15.4	<17.4	<16.2	<17.4	267	611	540	<16.3	<15.7	<14.7	<15.1	<15.8	<13.5	152	481	2770	<20.2	<27.8	<22.9	<23.1	<28.3	37.9	14.5	<16.3
Selenium	mg/kg	<7.72	<8.70	<8.10	<8.72	<7.05	<7.87	8.62	<8.16	<7.87	<7.37	<7.53	<7.91	<6.74	<15.2	<16.5	69	<16.2	<11.1	<18.3	<18.5	<11.3	<6.64	<6.67	<8.13
Silver	mg/kg	<1.54	<1.74	<1.62	<1.74	<1.41	2.55	<1.69	<1.63	<1.57	<1.47	<1.51	<1.58	<1.35	<1.90	<2.58	23.3	<2.02	<2.78	<2.29	<2.31	<2.83	<1.33	<1.33	<1.63
Mercury	mg/kg	<0.037	<0.040	<0.035	<0.037	0.086	0.503	0.195	<0.039	<0.036	<0.042	<0.041	<0.039	<0.039	0.144	0.439	5.51	<0.032	<0.046	<0.039	<0.035	<0.040	<0.035	<0.042	<0.040
Metals by Toxicity Characteristic Leaching Procedure (TCLP)																									
Arsenic	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.091	--	--	--	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0100	--	--	--	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead	mg/L	--	--	--	--	<0.500	<0.500	<0.500	--	--	--	--	--	--	0.095	0.225	7.42	--	--	--	--	--	--	--	--
Selenium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.050	--	--	--	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.00050	--	--	--	--	--	--	--	--
Herbicides																									
2,4,5-T	mg/kg	--	--	--	--	<0.22	<0.10	<0.097	--	--	--	--	--	--	<0.054	<0.058	<0.062	--	--	--	--	--	<0.085	<0.051	--
2,4-D	mg/kg	--	--	--	--	<1.1	<0.52	<0.49	--	--	--	--	--	--	<0.054	<0.058	<0.062	--	--	--	--	--	<0.42	<0.25	--
2,4-DB	mg/kg	--	--	--	--	<0.083	<0.039	<0.036	--	--	--	--	--	--	<0.054	<0.058	<0.062	--	--	--	--	--	<0.032	<0.019	--
Dalapon	mg/kg	--	--	--	--	<6.7	<3.1	<2.9	--	--	--	--	--	--	<0.65	<0.69	<0.75	--	--	--	--	--	<2.5	<1.5	--
Dicamba	mg/kg	--	--	--	--	<0.33	<0.15	<0.15	--	--	--	--	--	--	<0.054	<0.058	<0.062	--	--	--	--	--	<0.13	<0.076	--
Dichlorprop	mg/kg	--	--	--	--	<0.72	<0.34	<0.32	--	--	--	--	--	--	<0.054	<0.058	<0.062	--	--	--	--	--	<0.28	<0.16	--
Dinoseb	mg/kg	--	--	--	--	<1.1	<0.52	<0.49	--	--	--	--	--	--	<0.32	<0.35	<0.37	--	--	--	--	--	<0.42	<0.25	--
MCPA	mg/kg	--	--	--	--	<280	<130	<120	--	--	--	--	--	--	<13	<14	<15	--	--	--	--	--	<110	<63	--
MCPP	mg/kg	--	--	--	--	<280	<130	<120	--	--	--	--	--	--	<13	<14	<15	--	--	--	--	--	<110	<63	--
Silvex (2,4,5-TP)	mg/kg	--	--	--	--	<0.22	<0.10	<0.097	--	--	--	--	--	--	<0.054	<0.058	<0.062	--	--	--	--	--	<0.085	<0.051	--
Pesticides																									
4,4'-DDD	mg/kg	--	--	--	--	<0.0038	<0.0021	<0.0021	--	--	--	--	--	--	<0.0094	<0.010	<0.0043	--	--	--	--	--	<0.018	<0.0021	--
4,4'-DDE	mg/kg	--	--	--	--	<0.0038	<0.0021	<0.0021	--	--	--	--	--	--	<0.0094	<0.010	<0.0043	--	--	--	--	--	<0.018	<0.0021	--
4,4'-DDT	mg/kg	--	--	--	--	<0.0038	<0.0021	<0.0021	--	--	--	--	--	--	<0.0094	<0.010	<0.0021	--	--	--	--	--	<0.018	<0.0021	--
Aldrin	mg/kg	--	--	--	--	<0.0038	<0.0021	<0.0021	--	--	--	--	--	--	<0.0094	<0.010	<0.0043	--	--	--	--	--	<0.018	<0.0021	--
alpha-BHC	mg/kg	--	--	--	--	<0.0038	<0.0021	<0.0021	--	--	--	--	--	--	<0.0094	<0.010	<0.0043	--	--	--	--	--	<0.018	<0.0021	--
beta-BHC	mg/kg	--	--	--	--	<0.0038	<0.0021	<0.0021	--	--	--	--	--	--	<0.0094	<0.010	<0.0043	--	--	--	--	--	<0.018	<0.0021	--
Chlordane (technical)	mg/kg	--	--	--	--	<0.038	<0.021	<0.021	--	--	--	--	--	--	<0.094	<0.10	<0.043	--	--	--	--	--	<0.18	<0.021	--
delta-BHC	mg/kg	--	--	--	--	<0.0038	<0.0021	<0.0021	--	--	--	--	--	--	<0.0094	<0.010	<0.0043	--	--	--	--	--	<0.018	<0.0021	--
Dieldrin	mg/kg	--	--	--	--	<0.0038	<0.0021	<0.0021	--	--	--	--	--	--	<0.0094	<0.010	<0.0043	--	--	--	--	--	<0.018	<0.0021	--
Endosulfan I	mg/kg	--	--	--	--	<0.0038	<0.0021	<0.0021	--	--	--	--	--	--	<0.0094	<0.010	<0.0043	--	--	--	--	--	<0.018	<0.0021	--
Endosulfan II	mg/kg	--	--	--	--	<0.0038	<0.0021	<0.0021	--	--	--	--	--	--	<0.0094	<0.010	<0.0043	--	--	--	--	--	<0.018	<0.0021	--
Endosulfan sulfate	mg/kg	--	--	--	--	<0.0038	<0.0021	<0.0021	--	--	--	--	--	--	<0.0094	<0.010	<0.0043	--	--	--	--	--	<0.018	<0.0021	--
Endrin	mg/kg	--	--	--	--	<0.0038	<0.0021	<0.0021	--	--	--	--	--	--	<0.0094	<0.010	<0.0043	--	--	--	--	--	<0.018	<0.0021	--
Endrin ketone	mg/kg	--	--	--	--	<0.0038	<0.0021	<0.0021	--	--	--	--	--	--	<0.0094	<0.010	<0.0043	--	--	--	--	--	<0.018	<0.0021	--
gamma-BHC (Lindane)	mg/kg	--	--	--	--	<0.0038	<0.0021	<0.0021	--	--	--	--	--	--	<0.0094	<0.010	<0.0043	--	--	--	--	--	<0.018	<0.0021	--
Heptachlor	mg/kg	--	--	--	--	<0.0038	<0.0021	<0.0021	--	--	--	--	--	--	<0.0094	<0.010	<0.0043	--	--	--	--	--	<0.018	<0.0021	--
Heptachlor epoxide	mg/kg	--	--	--	--	<0.0038	<0.0021	<0.0021	--	--	--	--	--	--	<0.0094	<0.010	<0.0043	--	--	--	--	--	<0.018	<0.0021	--
Hexachlorobenzene	mg/kg	--	--	--	--	<0.0038	<0.0021	<0.0021	--	--	--	--	--	--	<0.0094	<0.010	<0.0043	--	--	--	--	--	<0.018	<0.0021	--
Methoxychlor	mg/kg	--	--	--	--	<0.0038	<0.0021	<0.0021	--	--	--	--	--	--	<0.0094	<0.010	<0.0021	--	--	--	--	--	<0.018	<0.0021	--
Polychlorinated Biphenyls																									
Aroclor 1016	mg/kg	<0.149	<0.167	<0.155	<0.164	<0.129	<0.155	<0.160	<0.152	<0.156	<0.155	<0.161	<0.149	<0.142	<0.135	<0.149	<0.171	<0.133	<0.171	<0.151	<0.147	<0.155	<0.130	<0.157	<0.164
Aroclor 1221	mg/kg	<0.149	<0.167	<0.155	<0.164	<0.129	<0.155	<0.160	<0.152	<0.156	<0.155	<0.161	<0.149	<0.142	<0.135	<0.149	<0.171	<0.133	<0.171	<0.151	<0.147	<0.155	<0.130	<0.157	<0.164
Aroclor 1232	mg/kg	<0.149	<0.167	<0.155	<0.164	<0.129	<0.155	<0.160	<0.152	<0.156	<0.155	<0.161	<0.149	<0.142	<0.135	<0.149	<0.171	<0.133	<0.171	<0.151	<0.147	<0.155	<0.130	<0.157	<0.164
Aroclor 1242	mg/kg	<0.149	<0.167	<0.155	<0.164	<0.129	<0.155	<0.160	<0.152	<0.156	<0.155	<0.161	<0.149	<0.142	<0.135	<0.149	<0.171	<0.133	<0.171	<0.151	<0.147	<0.155	<0.130	<0.157	<0.164
Aroclor 1248	mg/kg	<0.149	<0.167	<0.155	<0.164	<0.129	<0.155	<0.160	<0.152	<0.156	<0.155	<0.161	<0.149	<0.142	<0.135	<0.149	<0.171	<0.133	<0.171	<0.151	<0.147	<0.155	<0.130	<0.157	<0.164
Aroclor 1254	mg/kg	<0.149	<0.167	<0.155	<0.164	<0.129	<0.155	<0.160	<0.152	<0.156	<0.155	<0.161	<0.149	<0.142	<0.135	0.208	<0.171	<0.133	<0.171	<0.151	<0.147	<0.155	<0.130	<0.157	<0.164
Aroclor 1260	mg/kg	<0.149	<0.167	<0.155	<0.164	<0.129	<0.155	<0.160	<0.152	<0.156	<0.155	<0.161	<0.149	<0.142	<0.135	<0.149	<0.171	<0.133	<0.171	<0.151	<0.147	<0.155	<0.130	<0.157	<0.164
Aroclor 1262	mg/kg	<0.149	<0.167	<0.155	<0.164	<0.129	<0.155	<0.160	<0.152	<0.156	<0.155	<0.161	<0.149	<0.142	<0.135	<0.149	<0.171	<0.133	<0.171	<0.151	<0.147	<0.155	<0.130	<0.157	<0.164
Aroclor 1268	mg/kg	<0.149	<0.167	<0.155	<0.164	<0.129	<0.155	<0.160	<0.152	<0.156	<0.155	<0.161	<0.149	<0.142	<0.135	<0.149	<0.171	<0.133	<0.171	<0.151	<0.147	<0.155	<0.130	<0.157	<0.164
Total PCBs	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.208	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Petroleum Hydrocarbons	mg/kg	<51.4	<50.7	<47.5	<52.7	331	543	86	<49.0	<47.9	<51.0	<50.9	<40.8	<46.9	3750	25200	388	<43.3	<54.1	<49.3	<45.6	<48.3	283	<48.3	<51.9
Volatile Organic Compounds (VOCs)																									
1,1,1,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-Chloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane - Screen	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Butanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Isopropyltoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-Pentanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Disulfide	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Analyte	Precharacterization Cell	H06	H06	H06	H06	H07	H07	H07	H07	H07	H07	H07	H07	H07	H08	H08	H08	H08	H08	H08	H08	H08	H09	H09	H09
	Sample ID	H06S07	H06S08	H06S09	H06S10S11	H07S01S02A	H07S02BS04A	H07S04BS05	H07S06	H07S07	H07S08	H07S09	H07S10	H07S11S12	H08S01S02A	H08S02BS04A	H08S04BS05	H08S06S07	H08S09	H08S10	H08S11S12	H08S8	H09S01S02A	H09S03	H09S04
	Laboratory Work Order	1503021	1503021	1503021	1503021	1503111	1503111	1503111	1503111	1503111	1503111	1503111	1503111	1503111	1501192	1501192	1501192	1501192	1501192	1501192	1501192	1501192	1502051	1502051	1502051
	Soil Distinction	Natural	Natural	Natural	Natural	Fill	Fill	Fill	Natural	Natural	Natural	Natural	Natural	Natural	Fill	Fill	Fill	Natural	Natural	Natural	Natural	Natural	Fill	Natural	Natural
	Soil Type	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Organics	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Sand/Gravel	Clay	Clay	Clay	Clay
	Depth Interval (ft.)	19 - 21	24 - 26	29 - 31	34 - 38	0 - 3.3	3.3 - 6.6	6.6 - 10	10 - 12	14 - 16	19 - 21	24 - 26	29 - 31	34 - 38	0 - 3.3	3.3 - 6.6	6.6 - 10	10 - 14	24 - 26	29 - 31	0 - 34	19 - 21	0 - 3.3	12 - 14	19 - 21
	Sampling Date	3/2/2015	3/2/2015	3/2/2015	3/2/2015	3/6/2015	3/6/2015	3/6/2015	3/6/2015	3/6/2015	3/6/2015	3/6/2015	3/6/2015	3/6/2015	1/12/2015	1/12/2015	1/12/2015	1/12/2015	1/12/2015	1/12/2015	1/12/2015	1/12/2015	2/4/2015	2/4/2015	2/4/2015
Preliminary Disposal Facility Category		MCP Regulated Type B-1	MCP Regulated Type B-1	Uncontaminated	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Restricted	MCP Regulated Type A	MCP Regulated Type B-1	Uncontaminated	Uncontaminated	MCP Regulated Type A	MCP Regulated Type B-1	Hazardous Material Type A	Hazardous Material Type B	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type B-1	Uncontaminated	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type B-1
Chlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Diethyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Di-isopropyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethyl tertiary-butyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
tert-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tertiary-amyl methyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene O	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene P,M	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylenes (Total)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total VOCs	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds - Low Level Analysis																									
1,1,1,2-Tetrachloroethane	mg/kg	<0.0035	<0.0026	<0.0030	<0.0032	<0.0042	<0.0042	<0.0047	<0.0037	<0.0042	<0.0044	<0.0040	<0.0038	<0.0037	<0.0041	<0.0056	<0.0045	<0.0031	<0.0047	<0.0038	<0.0039	<0.0045	<0.0066	<0.0051	<0.0038
1,1,1-Trichloroethane	mg/kg	<0.0035	<0.0026	<0.0030	<0.0032	<0.0042	<0.0042	<0.0047	<0.0037	<0.0042	<0.0044	<0.0040	<0.0038	<0.0037	<0.0041	<0.0056	<0.0045	<0.0031	<0.0047	<0.0038	<0.0039	<0.0045	<0.0066	<0.0051	<0.0038
1,1,2,2-Tetrachloroethane	mg/kg	<0.0014	<0.0010	<0.0012	<0.0013	<0.0017	<0.0017	<0.0019	<0.0015	<0.0017	<0.0018	<0.0016	<0.0015	<0.0015	<0.0017	<0.0022	<0.0018	<0.0013	<0.0019	<0.0015	<0.0015	<0.0018	<0.0026	<0.0020	<0.0015
1,1,2-Trichloroethane	mg/kg	<0.0035	<0.0026	<0.0030	<0.0032	<0.0042	<0.0042	<0.0047	<0.0037	<0.0042	<0.0044	<0.0040	<0.0038	<0.0037	<0.0041	<0.0056	<0.0045	<0.0031	<0.0047	<0.0038	<0.0039	<0.0045	<0.0066	<0.0051	<0.0038
1,1-Dichloroethane	mg/kg	<0.0035	<0.0026	<0.0030	<0.0032	<0.0042	<0.0042	<0.0047	<0.0037	<0.0042	<0.0044	<0.0040	<0.0038	<0.0037	<0.0041	<0.0056	<0.0045	<0.0031	<0.0047	<0.0038	<0.0039	<0.0045	<0.0066	<0.0051	<0.0038
1,1-Dichloroethene	mg/kg	<0.0035	<0.0026	<0.0030	<0.0032	<0.0042	<0.0042	<0.0047	<0.0037	<0.0042	<0.0044	<0.0040	<0.0038	<0.0037	<0.0041	<0.0056	<0.0045	<0.0031	<0.0047	<0.0038	<0.0039	<0.0045	<0.0066	<0.0051	<0.0038
1,1-Dichloropropene	mg/kg	<0.0035	<0.0026	<0.0030	<0.0032	<0.0042	<0.0042	<0.0047	<0.0037	<0.0042	<0.0044	<0.0040	<0.0038	<0.0037	<0.0041	<0.0056	<0.0045	<0.0031	<0.0047	<0.0038	<0.0039	<0.0045	<0.0066	<0.0051	<0.0038
1,2,3-Trichlorobenzene	mg/kg	<0.0035	<0.0026	<0.0030	<0.0032	<0.0042	<0.0042	<0.0047	<0.0037	<0.0042	<0.0044	<0.0040	<0.0038	<0.0037	<0.0041	<0.0056	<0.0045	<0.0031	<0.0047	<0.0038	<0.0039	<0.0045	<0.0066	<0.0051	<0.0038
1,2,3-Trichloropropane	mg/kg	<0.0035	<0.0026	<0.0030	<0.0032	<0.0042	<0.0042	<0.0047	<0.0037	<0.0042	<0.0044	<0.0040	<0.0038	<0.0037	<0.0041	<0.0056	<0.0045	<0.0031	<0.0047	<0.0038	<0.0039	<0.0045	<0.0066	<0.0051	<0.0038
1,2,4-Trichlorobenzene	mg/kg	<0.0035	<0.0026	<0.0030	<0.0032	<0.0042	<0.0042	<0.0047	<0.0037	<0.0042	<0.0044	<0.0040	<0.0038	<0.0037	<0.0041	<0.0056	<0.0045	<0.0031	<0.0047	<0.0038	<0.0039	<0.0045	<0.0066	<0.0051	<0.0038
1,2,4-Trimethylbenzene	mg/kg	<0.0035	<0.0026	<0.0030	<0.0032	<0.0042	<0.0042	<0.0047	<0.0037	<0.0042	<0.0044	<0.0040	<0.0038	<0.0037	<0.0041	<0.0056	<0.0045	<0.0031	<0.0047	<0.0038	<0.0039	<0.0045	<0.0066	<0.0051	<0.0038
1,2-Dibromo-3-Chloropropane	mg/kg	<0.0035	<0.0026	<0.0030	<0.0032	<0.0042	<0.0042	<0.0047	<0.0037	<0.0042	<0.0044	<0.0040	<0.0038	<0.0037	<0.0041	<0.0056	<0.0045	<0.0031	<0.0047	<0.0038	<0.0039	<0.0045	<0.0066	<0.0051	<0.0038
1,2-Dibromoethane	mg/kg	<0.0035	<0.0026	<0.0030	<0.0032	<0.0042	<0.0042	<0.0047	<0.0037	<0.0042	<0.0044	<0.0040	<0.0038	<0.0037	<0.0041	<0.0056	<0.0045	<0.0031	<0.0047	<0.0038	<0.0039	<0.0045	<0.0066	<0.0051	<0.0038
1,2-Dichlorobenzene	mg/kg	<0.0035	<0.0026	<0.0030	<0.0032	<0.0042	<0.0042	<0.0047	<0.0037	<0.0042	<0.0044	<0.0040	<0.0038	<0.0037	<0.0041	<0.0056	<0.0045	<0.0031	<0.0047	<0.0038	<0.0039	<0.0045	<0.0066	<0.0051	<0.0038
1,2-Dichloroethane	mg/kg	<0.0035	<0.0026	<0.0030	<0.0032	<0.0042	<0.0042	<0.0047	<0.0037	<0.0042	<0.0044	<0.0040	<0.0038	<0.0037	<0.0041	<0.0056	<0.0045	<0.0031	<0.0047	<0.0038	<0.0039	<0.0045	<0.0066	<0.0051	<0.0038
1,2-Dichloropropane	mg/kg	<0.0035	<0.0026	<0.0030	<0.0032	<0.0042	<0.0042	<0.0047	<0.0037	<0.0042	<0.0044	<0.0040	<0.0038	<0.0037	<0.0041	<0.0056	<0.0045	<0.0031	<0.0047	<0.0038	<0.0039	<0.0045	<0.0066	<0.0051	<0.0038
1,3,5-Trimethylbenzene	mg/kg	<0.0035	<0.0026	<0.0030	<0.0032	<0.0042	<0.0042	<0.0047	<0.0037	<0.0042	<0.0044	<0.0040	<0.0038	<0.0037	<0.0041	<0.0056	<0.0045	<0.0031	<0.0047	<0.0038	<0.0039	<0.0045	<0.0066	<0.0051	<0.0038
1,3-Dichlorobenzene	mg/kg	<0.0035	<0.0026	<0.0030	<0.0032	<0.0042	<0.0042	<0.0047	<0.0037	<0.0042	<0.0044	<0.0040	<0.0038	<0.0037	<0.0041	<0.0056	<0.0045	<0.0031	<0.0047	<0.0038	<0.0039	<0.0045	<0.0066	<0.0051	<0.0038
1,3-Dichloropropane	mg/kg	<0.0035	<0.0026	<0.0030	<0.0032	<0.0042	<0.0042	<0.0047	<0.0037	<0.0042	<0.0044	<0.0040	<0.0038	<0.0037	<0.0041	<0.0056	<0.0045	<0.0031	<0.0047	<0.0038	<0.0039	<0.0045	<0.0066	<0.0051	<0.0038
1,4-Dichlorobenzene	mg/kg	<0.0035	<0.0026	<0.0030	<0.0032	<0.0042	<0.0042	<0.0047	<0.0037	<0.0042	<0.0044	<0.0040	<0.0038	<0.0037	<0.0041	<0.0056	<0.0045	<0.0031	<0.0047	<0.0038	<0.0039	<0.0045	<0.0066	<0.0051	<0.0038
1,4-Dioxane	mg/kg	<0.0699	<0.0522	<0.0606	<0.0636	<0.0835	<0.0833	<0.0948	<0.0731	<0.0839	<0.0881	<0.0792	<0.0757	<0.0737	<0.0827	<0.112	<0.0903	<0.0627	<0.0936	<0.0767	<0.0774	<0.0907	<0.132	<0.102	<0.0753
2,2-Dichloropropane	mg/kg	<0.0035	<0.0026	<0.0030	<0.0032	<0.0042	<0.0042	<0.0047	<0.0037	<0.0042	<0.0044	<0.0040	<0.0038	<0.0037	<0.0041	<0.0056	<0.0045	<0.0031	<0.0047	<0.0038	<0.0039	<0.0045	<0.0066	<0.0051	<0.0038
2-Butanone	mg/kg	<0.0070	<0.0052	<0.0061	<0.0064	<0.0083	<0.0083	<0.0095	<0.0073	<0.0084	<0.0088	<0.0079	<0.0076	<0.0074	<0.0083	<0.0112	<0.0090	<0.0063	<0.0094	<0.0077	<0.0077	<0.0091	<0.0132	<0.0102	<0.0075
2-Chlorotoluene	mg/kg	<0.0035	<0.0026	<0.0030	<0.0032	<0.0042	<0.0042	<0.0047	<0.0037	<0.0042	<0.0044	<0.0040	<0.0038	<0.0037	<0.0041	<0.0056	<0.0045	<0.0031	<0.0047	<0.0038	<0.0039	<0.0045	<0.0066	<0.0051	<0.0038
2-Hexanone	mg/kg	<0.0070	<0.0052	<0.0061	<0.0064	<0.0083	<0.0083	<0.0095	<0.0073	<0.0084	<0.0088	<0.0079	<0.0076	<0.0074	<0.0083	<0.0112	<0.0090	<0.0063	<0.0094	<0.0077	<0.0077	<0.0091	<0.0132	<0.0102	<0.0075
4-Chlorotoluene	mg/kg	<0.0035	<0.0026	<0.0030	<0.0032	<0.0042	<0.0042	<0.0047	<0.0037	<0.0042	<0.0044	<0.0040	<0.0038	<0.0037	<0.0041	<0.0056	<0.0045	<0.0031	<0.0047	<0.0038	<0.0039	<0.0045	<0.0066	<0.0051	<0.0038
4-Isopropyltoluene	mg/kg	<0.0035	<0.0026	<0.0030	<0.0032	<0.0042	<0.0042	<0.0047	<0.0037	<0.0042	<0.0044	<0.0040	<0.0038	<0.0037	<0.0041	<0.0056	<0.0045	<0.0031	<0.0047	<0.0038	<0.0039	<0.0045	<0.0066	<0.0051	<0.0038
4-Methyl-2-Pentanone	mg/kg	<0.0070	<0.0052	<0.0061	<0.0064	<0.0083	<0.0083	<0.0095	<0.0073	<0.0084	<0.0088	<0.0079	<0.0076	<0.0074	<0.0083	<0.0112	<0.0090	<0.0063	<0.0094	<0.0077	<0.0077	<0.0091	<0.0132	<0.0102	<0.0075
Acetone	mg/kg	<0.0070	<0.0052	<0.0061	<0.0064	0.0381	<0.0083	0.0321	<0.0073	<0.0084	<0.0088	<0.0079	<0.0076	<0.0074	0.0096	0.253	0.0575	0.0119	<0.0094	<0.0077	<0.0077	<0.0091	0.0254	<0.0102	<0.0075
Benzene	mg/kg	<0.0035	<0.0026	<0.0030	<0.0032	<0.0042	<0.0042	0.0328	<0.0037	<0.0042	<0.0044	<0.0040	<0.0038	<0.0037	<0.0041	<0.0056	<0.0045	<0.0031	<0.0047	<0.0038	<0.0039	<0.0045	<0.0066	<0.0051	<0.0038
Bromobenzene	mg/kg	<0.0035	<0.0026	<0.0030	<0.0032	<0.0042	<0.0042	<0.0047	<0.0037	<0.0042	<0.0044	<0.0040	<0.0038	<0.0037	<0.0041	<0.0056	<0.0045	<0.0031	<0.0047	<0.0038	<0.0039	<0.0045	<0.0066	<0.0051	<0.0038
Bromochloromethane	mg/kg	<0.0035	<0.0026	<0.0030	<0.0032	<0.0042	<0.0042	<0.0047	<0.0037	<0.0042	<0.0044	<0.0040	<0.0038	<0.0037	<0.0041	<0.0056	<0.0045	<0.0031	<0.0047	<0.0038	<0.0039	<0.0045	<0.0066	<0.0051	<0.0038
Bromodichloromethane	mg/kg	<0.0035	<0.0026	<0.0030	<0.0032	<0.0042	<0.0042	<0.0047	<0.0037	<0.0042	<0.0044	<0.0040	<0.0038	<0.0037	<0.0041	<0.0056	<0.0045	<0.0031	<0.0047	<0.0038	<0.0039	<0.0045	<0.0066	<0.0051	<0.0038
Bromoform	mg/kg	<0.0035	<0.0026	<0.0030	<0.0032	<0.0042	<0.0042	<0.0047	<0.0037	<0.0042	<0.0044	<0.0040	<0.0038	<0.0037	<0.0041	<0.0056	<0.0045	<0.0031	<0.0047	<0.0038	<0.0039	<0.0045	<0.0066	<0.0051	<0.0038
Bromomethane	mg/kg	<0.0070	<0.0052	<0.0061	<0.0064	<0.0083	<0.0083	<0.0095	<0.0073	<0.0084	<0.0088	<0.0079	<0.0076	<0.0074	<0.0083	<0.0112	<0.0090	<0.0063	<0.0094	<0.0077	<0.0077	<0.0091	<0.0132	<0.0102	<0.0075
Carbon Disulfide	mg/kg	<0.0035	<0.0026	<0.0030	<0.0032	<0.0042	<0.0042	<0.0047	<0.0037	<0.0042	<0.0044	<0.0040	<0.0038	<0.0037	<0.0041	0.0123	<0.0045	<0.0031	<0.0047	<0.0038	<0.0039	<0.0045	<0.0066	<0.0051	<0.0038
Carbon Tetrachloride	mg/kg	<0.0035	<0.0026	<0.0030	<0.0032	<0.0042	<0.0042	<0.0047	<0.0037	<0.0042	<0.0044	<0.0040	<0.0038	<0.0037	<0.0041	<0.0056	<0.0045	<0.0031	<0.0047	<0.0038	<0.0039	<0.0045	<0.0066	<0.0051	<0.0038
Chlorobenzene	mg/kg	<0.0035	<0.0026	<0.0030	<0.0032	<0.0042	<0.0042	<0.0047	<0.0037	<0.0042	<0.0044	<0.0040	<0.0038	<0.0037	<0.0041	<0.0056	<0.0045	<0.0031	<0.0047	<0.0038	<0.0039	<0.0045	<0.0066	<0.0051	<0.0038
Chloroethane	mg/kg	<0.0070	<0.0052	<0.0061	<0.0064	<0.0083	<0.0083	<0.0095	<0.0073	<0.0084	<0.0088	<0.0079	<0.0076	<0.0074	<0.0083	<0.0112	<0.0090	<0.0063	<0.0094	<0.0077	<0.0077	<0.0091	<0.0132	<0.0102	<0.0075
Chloroform	mg/kg	<0.0035	<0.0026	<0.0030	<0.0032	<0.0042	<0.0042	<0.0047	<0.0037	<0.0042	<0.0044	<0.0040	<0.0038	<0.0037	<0.0041	<0.0056	<0.0045	<0.0031	<0.0047	<0.0038	<0.0039	<0.0045	<0.0066	<0.0051	<0.0038
Chloromethane	mg/kg	<0.0070	<0.0052	<0.0061	<0.0064	<0.0083	<0.0083	<0.0095	<0.0073	<0.0084	<0.0088	<0.0079	<0.0076	<0.0074	<0.0083	<0.0112	<0.0090	<0.0063	<0.0094	<0.0077	<0.0077	<0.0091	<0.0132	<0.0102	<0.0075
cis-1,2-Dichloroethene	mg/kg	<0.0035	<0.0026	<0.0030	<0.0032	<0.0042	<0.0042	<0.0047	<0.0037	<0.0042	<0.0044	<0.0040	<0.0038	<0.0037	<0.0041	<0.0056	<0.0045	<0.0031	<0.0047	<0.0038	<0.0039	<0.0045	<0.0066	<0.0051	<0.0038
cis-1,3-Dichloropropene	mg/kg	<0.0035	<0.0026	<0.0030	<0.0032	<0.0042	<0.0042	<0.0047	<0.0037	<0.0042	<0.0044	<0.0040	<0.0038	<0.0037	<0.0041	<0.0056	<0.0045	<0.0031	<0.0047	<0.0038	<0.0039	<0.0045	<0.0066	<0.0051	<0.0038
Dibromochloromethane	mg/kg	<0.0014	<0.0010	<0.0012	<0.0013	<0.0017	<0.0017	<0.0019	<0.0015	<0.0017	<0.0018	<0.0016	<0.0015	<0.0015	<0.0017	<0.0022	<0.0018	<0.0013	<0.0019	<0.0015	<0.0015	<0.0018	<0.0026	<0.0020	<0.0015
Dibromomethane	mg/kg	<0.0035	<0.0026	<0.0030	<0.0032	<0.0042	<0.0042	<0.0047	<0.0037	<0.0042	<0.0044	<0.0040	<0.0038	<0.0037	<0.0041	<0.0056	<0.0045	<0.0031	<0.0047	<0.0038	<0.0039	<0.0045	<0.0066	<0.0051	<0.0038
Dichlorodifluoromethane	mg/kg	<0.0070	<0.0052	<0.0061	<0.0064	<0.0083	<0.0083	<0.0095	<0.0073	<0.0084	<0.0088	<0.0079	<0.0076	<0.0074	<0.0083	<0.0112	<0.0090	<0.0063	<0.0094	<0.0077	<0.0077	<0.0091	<0.0132	<0.0102	<0.0075
Diethyl Ether	mg/kg	<0.0035	<0.0026	<0.0030	<0.0032	<0.0042	<0.0042	<0.0047	<0.0037	<0.0042	<0.0044	<0.0040	<0.0038	<0.0037	<0.0041	<0.0056	<0.0045	<0.0031	<0.0047	<0.0038	<0.0039	<0.0045	<0.0066	<0.0051	<0.0038
Di-isopropyl ether	mg/kg	<0.0035	<0.0026	<0.0030	<0.0032	<0.0042	<0.0042	<0.0047	<0.0037	<0.0042	<0.0044	<0.0040	<0.0038	<0.0037	<0.0041	<0.0056	<0.0045	<0.0031	<0.0047	<0.0038	<0.0039	<0.0045	<0.0066	<0.0051	<0.0038
Ethyl tertiary-butyl ether	mg/kg	<0.0035	<0.0026	<0.0030	<0.0032	<0.0042	<0.0042	<0.0047	<0.0037	<0.0042	<0.0044	<0.0040	<0.0038	<0.0037	<0.0041	<0.0056	<0.0045	<0.0031	<0.0047	<0.0038	<0.0039	<0.0045	<0.0066	<0.0051	<0.0038
Ethylbenzene	mg/kg	<0.0035	<0.0026	<0.0030	<0.0032	<0.0042	<0.0042	<0.0047	<0.0037	<0.0042	<0.0044	<0.0040	<0.0038	<0.0037	<0.0041	<0.0056	<0.0045	<0.0031	<0.0047	<0.0038	<0.0039	<0.0045	<0.0066	<0.0051	<0.0038
Hexachlorobutadiene	mg/kg	<0.0035	<0.0026	<0.0030	<0.0032	<0.0042	<0.0042	<0.0047	<0.0037	<0.0042	<0.0044	<0.0040	<0.0038	<0.0037	<0.0041	<0.0056	<0.0045	<0.0031	<0.0047	<0.0038	<0.0039	<0.0045	<0.0066	<0.0051	<0.0038
Isopropylbenzene	mg/kg	<0.0035	<0.0026	<0.0030	<0.0032	<0.0042	<0.0042	<0.0047	<0.0037	<0.0042	<0.0044	<0.0040	<0.0038	<0.0037	<0.0041	<0.0056	<0.0045	<0.0031	<0.0047	<0.0038	<0.0039	<0.0045	<0.0066	<0.0051	<0.0038
Methyl tert-Butyl Ether	mg/kg	<0.0035	<0.0026	<0.0030	<0.0032	<0.0042	<0.0042	<0.0047	<0.0037	<0.0042	<0.0044	<0.0040	<0.0038	<0.0037	<0.0041	<0.0056	<0.0045	<0.0031	<0.0047	<0.0038	<0.0039	<0.0045	<0.0066	<0.0051	<0.0038
Methylene Chloride	mg/kg	<0.0070	<0.0052	<0.0061	<0.0064	<0.0083	<0.0083	<0.0095	<0.0073	<0.0084	<0.0088	<0.0079	<0.0076	<0.0074	<0.0083	<0.0112	<0.0090	<0.0063	<0.0094	<0.0077	<0.0077	<0.0091	<0.0132	<0.0102	<0.0075
Naphthalene	mg/kg	<0.0035	<0.0026	<0.0030	<0.0032	<0.0042	<0.0042	0.0516	<0.0037	<0.0042	<0.0044	<0.0040	<0.0038	<0.0037	<0.0041	<0.0056	<0.0045	<0.0031	<0.0047	<0.0038	<0.0039	<0.0045	<0.0066	<0.0051	<0.0038
n-Butylbenzene	mg/kg	<0.0035	<0.0026	<0.0030	<0.0032	<0.0042	<0.0042	<0.0047	<0.0037	<0.0042	<0.0044	<0.0040	<0.0038	<0.0037	<0.0041	<0.0056	<0.0045	<0.0031	<0.0047	<0.0038	<0.0039	<0.0045	<0.0066	<0.0051	<0.0038
n-Propylbenzene	mg/kg	<0.0035	<0.0026	<0.0030	<0.0032	<0.0042	<0.0042	<0.0047	<0.0037	<0.0042	<0.0044	<0.0040	<0.0038	<0.0037	<0.0041	<0.0056	<0.0045	<0.0031	<0.0047	<0.0038	<0.0039	<0.0045	<0.0066	<0.0051	<0.0038
sec-Butylbenzene	mg/kg	<0.0035	<0.0026	<0.0030	<0.0032	<0.0042	<0.0042	<0.0047	<0.0037	<0.0042	<0.0044	<0.0040	<0.0038	<0.0037	<0.0041	<0.0056	<0.0045	<0.0031	<0.0047	<0.0038	<0.0039	<0.0045	<0.0066	<0.0051	<0.0038

Table 1
Soil Precharacterization Data

Wynn Resort Casino
Everett, Massachusetts

Analyte	Precharacterization Cell	H06	H06	H06	H06	H07	H07	H07	H07	H07	H07	H07	H07	H07	H08	H08	H08	H08	H08	H08	H08	H09	H09	H09
	Sample ID	H06S07	H06S08	H06S09	H06S10S11	H07S01S02A	H07S02BS04A	H07S04BS05	H07S06	H07S07	H07S08	H07S09	H07S10	H07S11S12	H08S01S02A	H08S02BS04A	H08S04BS05	H08S06S07	H08S09	H08S10	H08S11S12	H08S8	H09S01S02A	H09S03	H09S04
	Laboratory Work Order	1503021	1503021	1503021	1503021	1503111	1503111	1503111	1503111	1503111	1503111	1503111	1503111	1503111	1501192	1501192	1501192	1501192	1501192	1501192	1501192	1501192	1502051	1502051	1502051
	Soil Distinction	Natural	Natural	Natural	Natural	Fill	Fill	Fill	Organics	Natural	Natural	Natural	Natural	Natural	Fill	Fill	Fill	Natural	Natural	Natural	Natural	Natural	Fill	Natural	Natural
	Soil Type	Clay	Clay	Clay	Clay					Clay	Clay	Clay	Clay	Clay				Clay	Clay	Clay	Sand/Gravel	Clay		Clay	Clay
	Depth Interval (ft.)	19 - 21	24 - 26	29 - 31	34 - 38	0 - 3.3	3.3 - 6.6	6.6 - 10	10 - 12	14 - 16	19 - 21	24 - 26	29 - 31	34 - 38	0 - 3.3	3.3 - 6.6	6.6 - 10	10 - 14	24 - 26	29 - 31	0 - 34	19 - 21	0 - 3.3	12 - 14	19 - 21
	Sampling Date	3/2/2015	3/2/2015	3/2/2015	3/2/2015	3/6/2015	3/6/2015	3/6/2015	3/6/2015	3/6/2015	3/6/2015	3/6/2015	3/6/2015	3/6/2015	1/12/2015	1/12/2015	1/12/2015	1/12/2015	1/12/2015	1/12/2015	1/12/2015	1/12/2015	2/4/2015	2/4/2015	2/4/2015
Preliminary Disposal Facility Category		MCP Regulated Type B-1	MCP Regulated Type B-1	Uncontaminated	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Restricted	MCP Regulated Type A	MCP Regulated Type B-1	Uncontaminated	Uncontaminated	MCP Regulated Type A	MCP Regulated Type B-1	Hazardous Material Type A	Hazardous Material Type B	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type B-1	Uncontaminated	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type B-1
Styrene	mg/kg	<0.0035	<0.0026	<0.0030	<0.0032	<0.0042	<0.0042	<0.0047	<0.0037	<0.0042	<0.0044	<0.0040	<0.0038	<0.0037	<0.0041	<0.0056	<0.0045	<0.0031	<0.0047	<0.0038	<0.0039	<0.0045	<0.0066	<0.0051	<0.0038
tert-Butylbenzene	mg/kg	<0.0035	<0.0026	<0.0030	<0.0032	<0.0042	<0.0042	<0.0047	<0.0037	<0.0042	<0.0044	<0.0040	<0.0038	<0.0037	<0.0041	<0.0056	<0.0045	<0.0031	<0.0047	<0.0038	<0.0039	<0.0045	<0.0066	<0.0051	<0.0038
Tertiary-amyl methyl ether	mg/kg	<0.0035	<0.0026	<0.0030	<0.0032	<0.0042	<0.0042	<0.0047	<0.0037	<0.0042	<0.0044	<0.0040	<0.0038	<0.0037	<0.0041	<0.0056	<0.0045	<0.0031	<0.0047	<0.0038	<0.0039	<0.0045	<0.0066	<0.0051	<0.0038
Tetrachloroethene	mg/kg	<0.0035	<0.0026	<0.0030	<0.0032	<0.0042	<0.0042	<0.0047	<0.0037	<0.0042	<0.0044	<0.0040	<0.0038	<0.0037	<0.0041	<0.0056	<0.0045	<0.0031	<0.0047	<0.0038	<0.0039	<0.0045	<0.0066	<0.0051	<0.0038
Tetrahydrofuran	mg/kg	<0.0035	<0.0026	<0.0030	<0.0032	<0.0042	<0.0042	<0.0047	<0.0037	<0.0042	<0.0044	<0.0040	<0.0038	<0.0037	<0.0041	<0.0056	<0.0045	<0.0031	<0.0047	<0.0038	<0.0039	<0.0045	<0.0066	<0.0051	<0.0038
Toluene	mg/kg	<0.0035	<0.0026	<0.0030	<0.0032	<0.0042	<0.0042	<0.0047	<0.0037	<0.0042	<0.0044	<0.0040	<0.0038	<0.0037	<0.0041	<0.0056	<0.0045	<0.0031	<0.0047	<0.0038	<0.0039	<0.0045	<0.0066	<0.0051	<0.0038
trans-1,2-Dichloroethene	mg/kg	<0.0035	<0.0026	<0.0030	<0.0032	<0.0042	<0.0042	<0.0047	<0.0037	<0.0042	<0.0044	<0.0040	<0.0038	<0.0037	<0.0041	<0.0056	<0.0045	<0.0031	<0.0047	<0.0038	<0.0039	<0.0045	<0.0066	<0.0051	<0.0038
trans-1,3-Dichloropropene	mg/kg	<0.0035	<0.0026	<0.0030	<0.0032	<0.0042	<0.0042	<0.0047	<0.0037	<0.0042	<0.0044	<0.0040	<0.0038	<0.0037	<0.0041	<0.0056	<0.0045	<0.0031	<0.0047	<0.0038	<0.0039	<0.0045	<0.0066	<0.0051	<0.0038
Trichloroethene	mg/kg	<0.0035	<0.0026	<0.0030	<0.0032	<0.0042	<0.0042	<0.0047	<0.0037	<0.0042	<0.0044	<0.0040	<0.0038	<0.0037	<0.0041	<0.0056	<0.0045	<0.0031	<0.0047	<0.0038	<0.0039	<0.0045	<0.0066	<0.0051	<0.0038
Trichlorofluoromethane	mg/kg	<0.0035	<0.0026	<0.0030	<0.0032	<0.0042	<0.0042	<0.0047	<0.0037	<0.0042	<0.0044	<0.0040	<0.0038	<0.0037	<0.0041	<0.0056	<0.0045	<0.0031	<0.0047	<0.0038	<0.0039	<0.0045	<0.0066	<0.0051	<0.0038
Vinyl Chloride	mg/kg	<0.0070	<0.0052	<0.0061	<0.0064	<0.0083	<0.0083	<0.0095	<0.0073	<0.0084	<0.0088	<0.0079	<0.0076	<0.0074	<0.0083	<0.0112	<0.0090	<0.0063	<0.0094	<0.0077	<0.0077	<0.0091	<0.0132	<0.0102	<0.0075
Xylene O	mg/kg	<0.0035	<0.0026	<0.0030	<0.0032	<0.0042	<0.0042	<0.0047	<0.0037	<0.0042	<0.0044	<0.0040	<0.0038	<0.0037	<0.0041	<0.0056	<0.0045	<0.0031	<0.0047	<0.0038	<0.0039	<0.0045	<0.0066	<0.0051	<0.0038
Xylene P,M	mg/kg	<0.0070	<0.0052	<0.0061	<0.0064	<0.0083	<0.0083	<0.0095	<0.0073	<0.0084	<0.0088	<0.0079	<0.0076	<0.0074	<0.0083	<0.0112	<0.0090	<0.0063	<0.0094	<0.0077	<0.0077	<0.0091	<0.0132	<0.0102	<0.0075
Xylenes (Total)	mg/kg	<0.0070	<0.0052	<0.0061	<0.0064	<0.0083	<0.0083	<0.0095	<0.0073	<0.0084	<0.0088	<0.0079	<0.0076	<0.0074	<0.0083	<0.0112	<0.0090	<0.0063	<0.0094	<0.0077	<0.0077	<0.0091	<0.0132	<0.0102	<0.0075
Total VOCs (Low Level)	mg/kg	ND	ND	ND	ND	0.0381	ND	0.1165	ND	ND	ND	ND	ND	ND	0.0096	0.2653	0.0575	0.0119	ND	ND	ND	ND	0.0254	ND	ND
Semi-Volatile Organic Compounds																									
1,2,4-Trichlorobenzene	mg/kg	<1.06	<1.07	<0.943	<1.11	<0.877	<1.06	<1.09	<1.00	<1.01	<1.05	<1.07	<0.988	<0.982	<0.868	<5.74	<1.14	<0.934	<1.14	<0.984	<0.969	<0.985	<0.819	<0.996	<1.08
1,2-Dichlorobenzene	mg/kg	<1.06	<1.07	<0.943	<1.11	<0.877	<1.06	<1.09	<1.00	<1.01	<1.05	<1.07	<0.988	<0.982	<0.868	<5.74	<1.14	<0.934	<1.14	<0.984	<0.969	<0.985	<0.819	<0.996	<1.08
1,3-Dichlorobenzene	mg/kg	<1.06	<1.07	<0.943	<1.11	<0.877	<1.06	<1.09	<1.00	<1.01	<1.05	<1.07	<0.988	<0.982	<0.868	<5.74	<1.14	<0.934	<1.14	<0.984	<0.969	<0.985	<0.819	<0.996	<1.08
1,4-Dichlorobenzene	mg/kg	<0.531	<0.537	<0.473	<0.559	<0.440	<0.533	<0.546	<0.501	<0.505	<0.525	<0.535	<0.495	<0.493	<0.436	<2.88	<0.573	<0.469	<0.574	<0.494	<0.486	<0.494	<0.411	<0.500	<0.540
2,4,5-Trichlorophenol	mg/kg	<1.06	<1.07	<0.943	<1.11	<0.877	<1.06	<1.09	<1.00	<1.01	<1.05	<1.07	<0.988	<0.982	<0.868	<5.74	<1.14	<0.934	<1.14	<0.984	<0.969	<0.985	<0.819	<0.996	<1.08
2,4,6-Trichlorophenol	mg/kg	<1.06	<1.07	<0.943	<1.11	<0.877	<1.06	<1.09	<1.00	<1.01	<1.05	<1.07	<0.988	<0.982	<0.868	<5.74	<1.14	<0.934	<1.14	<0.984	<0.969	<0.985	<0.819	<0.996	<1.08
2,4-Dichlorophenol	mg/kg	<1.06	<1.07	<0.943	<1.11	<0.877	<1.06	<1.09	<1.00	<1.01	<1.05	<1.07	<0.988	<0.982	<0.868	<5.74	<1.14	<0.934	<1.14	<0.984	<0.969	<0.985	<0.819	<0.996	<1.08
2,4-Dimethylphenol	mg/kg	<1.06	<1.07	<0.943	<1.11	<0.877	<1.06	<1.09	<1.00	<1.01	<1.05	<1.07	<0.988	<0.982	<0.868	<5.74	<1.14	<0.934	<1.14	<0.984	<0.969	<0.985	<0.819	<0.996	<1.08
2,4-Dinitrophenol	mg/kg	<5.31	<5.37	<4.73	<5.59	<4.40	<5.33	<5.46	<5.01	<5.05	<5.25	<5.35	<4.95	<4.93	<4.36	<28.8	<5.73	<4.69	<5.74	<4.94	<4.86	<4.94	<4.11	<5.00	<5.40
2,4-Dinitrotoluene	mg/kg	<1.06	<1.07	<0.943	<1.11	<0.877	<1.06	<1.09	<1.00	<1.01	<1.05	<1.07	<0.988	<0.982	<0.868	<5.74	<1.14	<0.934	<1.14	<0.984	<0.969	<0.985	<0.819	<0.996	<1.08
2,6-Dinitrotoluene	mg/kg	<1.06	<1.07	<0.943	<1.11	<0.877	<1.06	<1.09	<1.00	<1.01	<1.05	<1.07	<0.988	<0.982	<0.868	<5.74	<1.14	<0.934	<1.14	<0.984	<0.969	<0.985	<0.819	<0.996	<1.08
2-Chloronaphthalene	mg/kg	<1.06	<1.07	<0.943	<1.11	<0.877	<1.06	<1.09	<1.00	<1.01	<1.05	<1.07	<0.988	<0.982	<0.868	<5.74	<1.14	<0.934	<1.14	<0.984	<0.969	<0.985	<0.819	<0.996	<1.08
2-Chlorophenol	mg/kg	<1.06	<1.07	<0.943	<1.11	<0.877	<1.06	<1.09	<1.00	<1.01	<1.05	<1.07	<0.988	<0.982	<0.868	<5.74	<1.14	<0.934	<1.14	<0.984	<0.969	<0.985	<0.819	<0.996	<1.08
2-Methylnaphthalene	mg/kg	<1.06	<1.07	<0.943	<1.11	7.3	<1.06	<1.09	<1.00	<1.01	<1.05	<1.07	<0.988	<0.982	<0.868	<5.74	<1.14	<0.934	<1.14	<0.984	<0.969	<0.985	<0.819	<0.996	<1.08
2-Methylphenol	mg/kg	<1.06	<1.07	<0.943	<1.11	<0.877	<1.06	<1.09	<1.00	<1.01	<1.05	<1.07	<0.988	<0.982	<0.868	<5.74	<1.14	<0.934	<1.14	<0.984	<0.969	<0.985	<0.819	<0.996	<1.08
2-Nitrophenol	mg/kg	<1.06	<1.07	<0.943	<1.11	<0.877	<1.06	<1.09	<1.00	<1.01	<1.05	<1.07	<0.988	<0.982	<0.868	<5.74	<1.14	<0.934	<1.14	<0.984	<0.969	<0.985	<0.819	<0.996	<1.08
3,3´-Dichlorobenzidine	mg/kg	<2.12	<2.15	<1.89	<2.23	<1.76	<2.13	<2.18	<2.00	<2.02	<2.10	<2.14	<1.98	<1.97	<1.74	<11.5	<2.29	<1.87	<2.29	<1.97	<1.94	<1.97	<1.64	<2.00	<2.16
3+4-Methylphenol	mg/kg	<2.12	<2.15	<1.89	<2.23	<1.76	<2.13	<2.18	<2.00	<2.02	<2.10	<2.14	<1.98	<1.97	<1.74	<11.5	<2.29	<1.87	<2.29	<1.97	<1.94	<1.97	<1.64	<2.00	<2.16
4-Bromophenyl-phenylether	mg/kg	<1.06	<1.07	<0.943	<1.11	<0.877	<1.06	<1.09	<1.00	<1.01	<1.05	<1.07	<0.988	<0.982	<0.868	<5.74	<1.14	<0.934	<1.14	<0.984	<0.969	<0.985	<0.819	<0.996	<1.08
4-Chloroaniline	mg/kg	<2.12	<2.15	<1.89	<2.23	<1.76	<2.13	<2.18	<2.00	<2.02	<2.10	<2.14	<1.98	<1.97	<1.74	<11.5	<2.29	<1.87	<2.29	<1.97	<1.94	<1.97	<1.64	<2.00	<2.16
4-Nitrophenol	mg/kg	<5.31	<5.37	<4.73	<5.59	<4.40	<5.33	<5.46	<5.01	<5.05	<5.25	<5.35	<4.95	<4.93	<4.36	<28.8	<5.73	<4.69	<5.74	<4.94	<4.86	<4.94	<4.11	<5.00	<5.40
Acenaphthene	mg/kg	<1.06	<1.07	<0.943	<1.11	41.2	<1.06	<1.09	<1.00	<1.01	<1.05	<1.07	<0.988	<0.982	<0.868	<5.74	<1.14	<0.934	<1.14	<0.984	<0.969	<0.985	<0.819	<0.996	<1.08
Acenaphthylene	mg/kg	<1.06	<1.07	<0.943	<1.11	<0.877	<1.06	<1.09	<1.00	<1.01	<1.05	<1.07	<0.988	<0.982	<0.868	<5.74	<1.14	<0.934	<1.14	<0.984	<0.969	<0.985	<0.819	<0.996	<1.08
Acetophenone	mg/kg	<2.12	<2.15	<1.89	<2.23	<1.76	<2.13	<2.18	<2.00	<2.02	<2.10	<2.14	<1.98	<1.97	<1.74	<11.5	<2.29	<1.87	<2.29	<1.97	<1.94	<1.97	<1.64	<2.00	<2.16
Aniline	mg/kg	<5.31	<5.37	<4.73	<5.59	<4.40	<5.33	<5.46	<5.01	<5.05	<5.25	<5.35	<4.95	<4.93	<4.36	<28.8	<5.73	<4.69	<5.74	<4.94	<4.86	<4.94	<4.11	<5.00	<5.40
Anthracene	mg/kg	<1.06	<1.07	<0.943	<1.11	34.4	1.28	<1.09	<1.00	<1.01	<1.05	<1.07	<0.988	<0.982	<0.868	<5.74	<1.14	<0.934	<1.14	<0.984	<0.969	<0.985	<0.819	<0.996	<1.08
Azobenzene	mg/kg	<1.06	<1.07	<0.943	<1.11	<0.877	<1.06	<1.09	<1.00	<1.01	<1.05	<1.07	<0.988	<0.982	<0.868	<5.74	<1.14	<0.934	<1.14	<0.984	<0.969	<0.985	<0.819	<0.996	<1.08
Benzo(a)anthracene	mg/kg	<1.06	<1.07	<0.943	<1.11	10	3.96	<1.09	<1.00	<1.01	<1.05	<1.07	<0.988	<0.982	<0.868	<5.74	<1.14	<0.934	<1.14	<0.984	<0.969	<0.985	<0.819	<0.996	<1.08
Benzo(a)pyrene	mg/kg	<0.531	<0.537	<0.473	<0.559	3.08	3.28	0.556	<0.501	<0.505	<0.525	<0.535	<0.495	<0.493	<0.436	<2.88	<0.573	<0.469	<0.574	<0.494	<0.486	<0.494	<0.411	<0.500	<0.540
Benzo(b)fluoranthene	mg/kg	<1.06	<1.07	<0.943	<1.11	5.14	2.52	<1.09	<1.00	<1.01	<1.05	<1.07	<0.988	<0.982	<0.868	<5.74	<1.14	<0.934	<1.14	<0.984	<0.969	<0.985	<0.819	<0.996	<1.08
Benzo(g,h,i)perylene	mg/kg	<1.06	<1.07	<0.943	<1.11	<0.877	1.19	<1.09	<1.00	<1.01	<1.05	<1.07	<0.988	<0.982	<0.868	<5.74	<1.14	<0.934	<1.14	<0.984	<0.969	<0.985	<0.819	<0.996	<1.08
Benzo(k)fluoranthene	mg/kg	<1.06	<1.07	<0.943	<1.11	2.98	2.89	<1.09	<1.00	<1.01	<1.05	<1.07	<0.988	<0.982	<0.868	<5.74	<1.14	<0.934	<1.14	<0.984	<0.969	<0.985	<0.819	<0.996	<1.08
bis(2-Chloroethoxy)methane	mg/kg	<1.06	<1.07	<0.943	<1.11	<0.877	<1.06	<1.09	<1.00	<1.01	<1.05	<1.07	<0.988	<0.982	<0.868	<5.74	<1.14	<0.934	<1.14	<0.984	<0.969	<0.985	<0.819	<0.996	<1.08
bis(2-Chloroethyl)ether	mg/kg	<0.531	<0.537	<0.473	<0.559	<0.440	<0.533	<0.546	<0.501	<0.505	<0.525	<0.535	<0.495	<0.493	<0.436	<2.88	<0.573	<0.469	<0.574	<0.494	<0.486	<0.494	<0.411	<0.500	<0.540
bis(2-chloroisopropyl)Ether	mg/kg	<0.531	<0.537	<0.473	<0.559	<0.440	<0.533	<0.546	<0.501	<0.505	<0.525	<0.535	<0.495	<0.493	<0.436	<2.88	<0.573	<0.469	<0.574	<0.494	<0.486	<0.494	<0.411	<0.500	<0.540
bis(2-Ethylhexyl)phthalate	mg/kg	<1.06	<1.07	<0.943	<1.11	1.07	<1.06	<1.09	<1.00	<1.01	<1.05	<1.07	<0.988	<0.982	<0.868	<5.74	104	7.8	1.87	2	<0.969	9.95	<0.819	<0.996	<1.08
Butylbenzylphthalate	mg/kg	<1.06	<1.07	<0.943	<1.11	<0.877	<1.06	<1.09	<1.00	<1.01	<1.05	<1.07	<0.988	<0.982	<0.868	<5.74	<1.14	<0.934	<1.14	<0.984	<0.969	<0.985	<0.819	<0.996	<1.08
Chrysene	mg/kg	<0.531	<0.537	<0.473	<0.559	8.62	3.28	0.621	<0.501	<0.505	<0.525	<0.535	<0.495	<0.493	<0.436	<2.88	0.579	<0.469	<0.574	<0.494	<0.486	<0.494	<0.411	<0.500	<0.540
Dibenzo(a,h)Anthracene	mg/kg	<0.531	<0.537	<0.473	<0.559	<0.440	0.722	<0.546	<0.501	<0.505	<0.525	<0.535	<0.495	<0.493	<0.436	<2.88	<0.573	<0.469	<0.574	<0.494	<0.486	<0.494	<0.411	<0.500	<0.540
Dibenzofuran	mg/kg	<1.06	<1.07	<0.943	<1.11	15	<1.06	<1.09	<1.00	<1.01	<1.05	<1.07	<0.988	<0.982	<0.868	<5.74	<1.14	<0.934	<1.14	<0.984	<0.969	<0.985	<0.819	<0.996	<1.08
Diethylphthalate	mg/kg	<1.06	<1.07	<0.943	<1.11	<0.877	<1.06	<1.09	<1.00	<1.01	<1.05	<1.07	<0.988	<0.982	<0.868	<5.74	<1.14	<0.934	<1.14	<0.984	<0.969	<0.985	<0.819	<0.996	<1.08
Dimethylphthalate	mg/kg	<1.06	<1.07	<0.943	<1.11	<0.877	<1.06	<1.09	<1.00	<1.01	<1.05	<1.07	<0.988	<0.982	<0.868	<5.74	<1.14	<0.934	<1.14	<0.984	<0.969	<0.985	<0.819	<0.996	<1.08
Di-n-butylphthalate	mg/kg	<1.06	<1.07	<0.943	<1.11	<0.877	<1.06	<1.09	<1.00	<1.01	<1.05	<1.07	<0.988	<0.982	<0.868	<5.74	<1.14	<0.934	<1.14	<0.984	<0.969	<0.985	<0.819	<0.996	<1.08
Di-n-octylphthalate	mg/kg	<1.06	<1.07	<0.943	<1.11	<0.877	<1.06	<1.09	<1.00	<1.01	<1.05	<1.07	<0.988	<0.982	<0.868	<5.74	<1.14	<0.934	<1.14	<0.984	<0.969	<0.985	<0.819	<0.996	<1.08
Fluoranthene	mg/kg	<1.06	<1.07	<0.943	<1.11	81.7	7.75	1.61	<1.00	<1.01	<1.05	<1.07	<0.988	<0.982	0.988	<5.74	<1.14	<0.934	<1.14	<0.984	<0.969	<0.985	<0.819	<0.996	<1.08
Fluorene	mg/kg	<1.06	<1.07	<0.943	<1.11	34.4	<1.06	<1.09	<1.00	<1.01	<1.05	<1.07	<0.988	<0.982	<0.868	<5.74	<1.14	<0.934	<1.14	<0.984	<0.969	<0.985	<0.819	<0.996	<1.08
Hexachlorobenzene	mg/kg	<0.531	<0.537	<0.473	<0.559	<0.440	<0.533	<0.546	<0.501	<0.505	<0.525	<0.535	<0.495	<0.493	<0.436	<2.88	<0.573	<0.469	<0.574	<0.494	<0.486	<0.494	<0.411	<0.500	<0.540
Hexachlorobutadiene	mg/kg	<1.06	<1.07	<0.943	<1.11	<0.877	<1.06	<1.09	<1.00	<1.01	<1.05	<1.07	<0.988	<0.982	<0.868	<5.74	<1.14	<0.934	<1.14	<0.984	<0.969	<0.985	<0.819	<0.996	<1.08
Hexachloroethane	mg/kg	<1.06	<1.07	<0.943	<1.11	<0.877	<1.06	<1.09	<1.00	<1.01	<1.05	<1.07	<0.988	<0.982	<0.868	<5.74	<1.14	<0.934	<1.14	<0.984	<0.969	<0.985	<0.819	<0.996	<1.08
Indeno(1,2,3-cd)Pyrene	mg/kg	<1.06	<1.07	<0.943	<1.11	<0.877	1.34	<1.09	<1.00	<1.01	<1.05	<1.07	<0.988	<0.982	<0.868	<5.74	<1.14	<0.934	<1.14	<0.984	<0.969	<0.985	<0.819	<0.996	<1.08
Isophorone	mg/kg	<1.06	<1.07	<0.943	<1.11	<0.877	<1.06	<1.09	<1.00	<1.01	<1.05	<1.07	<0.988	<0.982	<0.868	<5.74	<1.14	<0.934	<1.14	<0.984	<0.969	<0.985	<0.819	<0.996	<1.08
Naphthalene	mg/kg	<1.06	<1.07	<0.943	<1.11	9.88	<1.06	<1.09	<1.00	<1.01	<1.05	<1.07	<0.988	<0.982	<0.868	<5.74	<1.14	<0.934	<1.14	<0.984	<0.969	<0.985	<0.819	<0.996	<1.08
Nitrobenzene	mg/kg	<1.06	<1.07	<0.943	<1.11	<0.877	<1.06	<1.09	<1.00	<1.01	<1.05	<1.07	<0.988	<0.982	<0.868	<5.74	<1.14	<0.934	<1.14	<0.984	<0.969	<0.985	<0.819	<0.996	<1.08
N-Nitrosodimethylamine	mg/kg	<1.06	<1.07	<0.943	<1.11	<0.877	<1.06	<1.09	<1.00	<1.01	<1.05	<1.07	<0.988	<0.982	<0.868	<5.74	<1.14	<0.934	<1.14	<0.984	<0.969	<0.985	<0.819	<0.996	<1.08
Pentachlorophenol	mg/kg	<5.31	<5.37	<4.73	<5.59	<4.40	<5.33	<5.46	<5.01	<5.05	<5.25	<5.35	<4.95	<4.93	<4.36	<28.8	<5.73	<4.69	<5.74	<4.94	<4.86	<4.94	<4.11	<5.00	<5.40
Phenanthrene	mg/kg	<1.06	<1.07	<0.943	<1.11	134	3.61	1.59	<1.00	<1.01	<1.05	<1.07	<0.988	<0.982	<0.868	<5.74	<1.14	<0.934	<1.14	<0.984	<0.969	<0.985	<0.819	<0.996	<1.08
Phenol	mg/kg	<1.06	<1.07	<0.943	<1.11	<0.877	<1.06	<1.09	<1.00	<1.01	<1.05	<1.07	<0.988	<0.982	<0.868	<5.74	<1.14	<0.934	<1.14	<0.984	<0.969	<0.985	<0.819	<0.996	<1.08
Pyrene	mg/kg	<1.06	<1.07	<0.943	<1.11	42.8	5.08	<1.09	<1.00	<1.01	<1.05	<1.07	<0.988	<0.982	<0.868	<5.74	<1.14	<0.934	<1.14	<0.984	<0.969	<0.985	<0.819	<0.996	<1.08
Total SVOCs	mg/kg	ND	ND	ND	ND	431.57	36.902	4.377	ND	ND	ND	ND	ND	ND	0.988	ND	104.579	7.8	1.87	2	ND	9.95	ND	ND	ND
Classic Chemistry																									
Corrosivity (pH)	S.U.	7.24	7.12	7.55	7.44	9.66	7.78	7.45	8.32	8.05	7.09	7.41	7.39	7.31	8.21	10.7	6.44	4.67	7.11	7.21	7.14	7.04	9.07	6.38	7.03
Conductivity	umhos/cm	4320	7300	4630	2880	617	179	221	1820	3390	6550	7180	6110	3520	734	552	556	1590	8550	6800	3170	4160	207	2160	4950
Flashpoint	°F	--	--	--	--	>200	>200	>200	--	--	--	--	--	--	>200	>200	>200	--	--	--	--	--	>200	--	--
Reactive Cyanide	mg/kg	--	--	--	--	<2.0	<2.0	<2.0	--	--	--	--	--	--	<2.0	<2.0	<2.0	--	--	--	--	--	<2.0	--	--
Reactive Sulfide	mg/kg	--	--	--	--	<2.0	<2.0	<2.0	--	--	--	--	--	--	<2.0	<2.0	<2.0	--	--	--	--	--	<2.0	--	--

Table 1
Soil Precharacterization Data

Wynn Resort Casino
Everett, Massachusetts

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	H09 H09S05 1502051 Natural Clay 24 - 26 2/4/2015	H09 H09S06 1502051 Natural Clay 29 - 31 2/4/2015	H09 H09S07S08 1502051 Natural Clay 34 - 38 2/4/2015	H09 H09S09S11A 1503247 Fill 3 - 6.6 3/13/2015	H09 H09S11BS12 1503247 Fill 6.6 - 10 3/13/2015	H09 H09S13 1503247 Fill 10 - 12 3/13/2015	H10 H10S01S02A 1501358 Fill 0 - 3.33 1/19/2015	H10 H10S02BS04A 1501358 Fill 3.33 - 6.66 1/19/2015	H10 H10S04BS05 1501358 Fill 6.66 - 10 1/19/2015	H10 H10S06 1501358 Natural Organics 10 - 12 1/19/2015	H10 H10S07 1501358 Natural Clay 14 - 16 1/19/2015	H10 H10S08 1501358 Natural Clay 19 - 21 1/19/2015	H10 H10S09 1501358 Natural Clay 24 - 26 1/19/2015	H10 H10S10 1501358 Natural Clay 29 - 31 1/19/2015	H10 H10S11S12 1501358 Natural Clay 34 - 38 1/19/2015	H11 H11S01S02 1502188 Fill 0 - 4 2/12/2015	H11 H11S03S04A 1502206 Fill 4 - 7 2/13/2015	H11 H11S04BS05 1502206 Fill 7 - 10 2/13/2015	H11 H11S06 1502230 Natural Organics 10 - 12 2/17/2015	H11 H11S07 1502230 Natural Clay 14 - 16 2/17/2015	H11 H11S08 1502230 Natural Clay 19 - 21 2/17/2015	H11 H11S09 1502230 Natural Clay 24 - 26 2/17/2015	H11 H11S10 1502230 Natural Sand/Gravel 29 - 31 2/17/2015	H11 H11S11S12 1502230 Natural Clay 34 - 38 2/17/2015
Preliminary Disposal Facility Category		MCP Regulated Type B-1	MCP Regulated Type B-1	Uncontaminated	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	Hazardous Material Type B	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	Uncontaminated	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Material Type B-2	Hazardous Material Type B	Hazardous Material Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type A	Uncontaminated	Uncontaminated
RCRA 8 Metals	**Units**																								
Arsenic	mg/kg	<8.58	9.07	<7.36	12.4	10.5	15.2	<6.98	17	9.27	<7.85	13.2	11.5	18.3	<8.10	8.61	<6.71	16.8	220	43.6	16.8	14.1	12.4	<7.80	<8.17
Barium	mg/kg	153	76.7	20.1	39.4	11.5	41.7	10.5	51.5	58.9	18	80	107	84	35.4	42.9	15.2	28.2	135	26.7	157	120	88.4	34	30.9
Cadmium	mg/kg	<1.72	<1.56	<1.47	<1.45	<1.40	<1.38	<1.40	<1.33	2.34	<1.57	<1.66	<1.63	<1.52	<1.62	<1.66	<1.34	<1.26	4.75	<2.10	<1.64	<1.73	<1.48	<1.56	<1.63
Chromium	mg/kg	60.3	45	14.6	15.8	10.7	18.3	16.1	18.4	15.8	21.7	50.2	46.7	50	23.7	21.4	19.7	54.5	43.2	26.6	62.1	62.8	53.5	21.6	22.9
Lead	mg/kg	<17.2	<15.6	<14.7	553	53.8	355	<14.0	622	188	27.9	<16.6	<16.3	<15.2	<16.2	<16.6	<13.4	1860	18300	26.6	19.5	19	<14.8	<15.6	<16.3
Selenium	mg/kg	<8.58	<7.82	<7.36	<7.23	<7.00	<6.91	<6.98	<6.63	<7.44	<7.85	<8.32	<8.17	<7.61	<8.10	<8.31	<6.71	<6.30	<8.71	<10.5	<8.19	<8.64	<7.39	<7.80	<8.17
Silver	mg/kg	<1.72	<1.56	<1.47	<1.45	<1.40	<1.38	<1.40	<1.33	<1.49	<1.57	<1.66	<1.63	<1.52	<1.62	<1.66	<1.34	<1.26	3.53	<2.10	<1.64	<1.73	<1.48	<1.56	<1.63
Mercury	mg/kg	<0.040	<0.039	<0.029	0.224	0.209	0.055	<0.035	0.536	0.139	<0.040	<0.042	<0.036	<0.036	<0.035	<0.028	<0.031	0.123	1.11	<0.052	<0.040	<0.040	<0.036	<0.038	<0.037
Metals by Toxicity Characteristic Leaching Procedure (TCLP)																									
Arsenic	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.073	--	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead	mg/L	--	--	--	2.71	--	<0.500	--	5.72	0.062	--	--	--	--	--	--	--	105	177	--	--	--	--	--	--
Selenium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Herbicides																									
2,4,5-T	mg/kg	--	--	--	<0.055	<0.051	<0.053	<0.043	<0.47	<0.047	--	--	--	--	--	--	<0.053	<0.058	<0.079	--	--	--	--	--	--
2,4-D	mg/kg	--	--	--	<0.055	<0.051	<0.053	<0.21	<2.3	<0.24	--	--	--	--	--	--	<0.053	<0.058	<0.079	--	--	--	--	--	--
2,4-DB	mg/kg	--	--	--	<0.055	<0.051	<0.053	<0.016	<0.18	<0.018	--	--	--	--	--	--	<0.053	<0.058	<0.079	--	--	--	--	--	--
Dalapon	mg/kg	--	--	--	<0.66	<0.61	<0.64	<1.3	<14	<1.4	--	--	--	--	--	--	<0.63	<0.70	<0.95	--	--	--	--	--	--
Dicamba	mg/kg	--	--	--	<0.055	<0.051	<0.053	<0.064	<0.70	<0.071	--	--	--	--	--	--	<0.053	<0.058	<0.079	--	--	--	--	--	--
Dichlorprop	mg/kg	--	--	--	<0.055	<0.051	<0.053	<0.14	<1.5	<0.15	--	--	--	--	--	--	<0.053	<0.058	<0.079	--	--	--	--	--	--
Dinoseb	mg/kg	--	--	--	<0.33	<0.31	<0.32	<0.21	<2.3	<0.24	--	--	--	--	--	--	<0.32	<0.35	<0.48	--	--	--	--	--	--
MCPA	mg/kg	--	--	--	<13	<12	<13	<53	<580	<59	--	--	--	--	--	--	<13	<14	<19	--	--	--	--	--	--
MCPP	mg/kg	--	--	--	<13	<12	<13	<53	<580	<59	--	--	--	--	--	--	<13	<14	<19	--	--	--	--	--	--
Silvex (2,4,5-TP)	mg/kg	--	--	--	<0.055	<0.051	<0.053	<0.043	<0.47	<0.047	--	--	--	--	--	--	<0.053	<0.058	<0.079	--	--	--	--	--	--
Pesticides																									
4,4'-DDD	mg/kg	--	--	--	<0.038	<0.037	<0.0097	<0.0018	<0.0097	<0.010	--	--	--	--	--	--	<0.0018	<0.0040	<0.0054	--	--	--	--	--	--
4,4'-DDE	mg/kg	--	--	--	<0.038	<0.037	<0.0097	<0.0018	<0.0097	<0.010	--	--	--	--	--	--	<0.0018	<0.0040	<0.0054	--	--	--	--	--	--
4,4'-DDT	mg/kg	--	--	--	<0.038	<0.037	<0.0097	<0.0018	<0.0097	<0.010	--	--	--	--	--	--	<0.0018	<0.0040	<0.0054	--	--	--	--	--	--
Aldrin	mg/kg	--	--	--	<0.038	<0.037	<0.0097	<0.0018	<0.0097	<0.010	--	--	--	--	--	--	<0.0018	<0.0040	<0.0054	--	--	--	--	--	--
alpha-BHC	mg/kg	--	--	--	<0.038	<0.037	<0.0097	<0.0018	<0.0097	<0.010	--	--	--	--	--	--	<0.0018	<0.0040	<0.0054	--	--	--	--	--	--
beta-BHC	mg/kg	--	--	--	<0.038	<0.037	<0.0097	<0.0018	<0.0097	<0.010	--	--	--	--	--	--	<0.0018	<0.0040	<0.0054	--	--	--	--	--	--
Chlordane (technical)	mg/kg	--	--	--	<0.38	<0.37	<0.097	<0.018	<0.097	<0.10	--	--	--	--	--	--	<0.018	<0.040	<0.054	--	--	--	--	--	--
delta-BHC	mg/kg	--	--	--	<0.038	<0.037	<0.0097	<0.0018	<0.0097	<0.010	--	--	--	--	--	--	<0.0018	<0.0040	<0.0054	--	--	--	--	--	--
Dieldrin	mg/kg	--	--	--	<0.038	<0.037	<0.0097	<0.0018	<0.0097	<0.010	--	--	--	--	--	--	<0.0018	<0.0040	<0.0054	--	--	--	--	--	--
Endosulfan I	mg/kg	--	--	--	<0.038	<0.037	<0.0097	<0.0018	<0.0097	<0.010	--	--	--	--	--	--	<0.0018	<0.0040	<0.0054	--	--	--	--	--	--
Endosulfan II	mg/kg	--	--	--	<0.038	<0.037	<0.0097	<0.0018	<0.0097	<0.010	--	--	--	--	--	--	<0.0018	<0.0040	<0.0054	--	--	--	--	--	--
Endosulfan sulfate	mg/kg	--	--	--	<0.038	<0.037	<0.0097	<0.0018	<0.0097	<0.010	--	--	--	--	--	--	<0.0018	<0.0040	<0.0054	--	--	--	--	--	--
Endrin	mg/kg	--	--	--	<0.038	<0.037	<0.0097	<0.0018	<0.0097	<0.010	--	--	--	--	--	--	<0.0018	<0.0040	<0.0054	--	--	--	--	--	--
Endrin ketone	mg/kg	--	--	--	<0.038	<0.037	<0.0097	<0.0018	<0.0097	<0.010	--	--	--	--	--	--	<0.0018	<0.0040	<0.0054	--	--	--	--	--	--
gamma-BHC (Lindane)	mg/kg	--	--	--	<0.038	<0.037	<0.0097	<0.0018	<0.0097	<0.010	--	--	--	--	--	--	<0.0018	<0.0040	<0.0054	--	--	--	--	--	--
Heptachlor	mg/kg	--	--	--	<0.038	<0.037	<0.0097	<0.0018	<0.0097	<0.010	--	--	--	--	--	--	<0.0018	<0.0040	<0.0054	--	--	--	--	--	--
Heptachlor epoxide	mg/kg	--	--	--	<0.038	<0.037	<0.0097	<0.0018	<0.0097	<0.010	--	--	--	--	--	--	<0.0018	<0.0040	<0.0054	--	--	--	--	--	--
Hexachlorobenzene	mg/kg	--	--	--	<0.038	<0.037	<0.0097	<0.0018	<0.0097	<0.010	--	--	--	--	--	--	<0.0018	<0.0040	<0.0054	--	--	--	--	--	--
Methoxychlor	mg/kg	--	--	--	<0.038	<0.037	<0.0097	<0.0018	<0.0097	<0.010	--	--	--	--	--	--	<0.0018	<0.0040	<0.0054	--	--	--	--	--	--
Polychlorinated Biphenyls																									
Aroclor 1016	mg/kg	<0.170	<0.158	<0.147	<0.142	<0.145	<0.163	<0.130	<0.141	<0.138	<0.155	<0.152	<0.162	<0.153	<0.146	<0.147	<0.133	<0.136	<0.150	<0.205	<0.162	<0.162	<0.147	<0.150	<0.148
Aroclor 1221	mg/kg	<0.170	<0.158	<0.147	<0.142	<0.145	<0.163	<0.130	<0.141	<0.138	<0.155	<0.152	<0.162	<0.153	<0.146	<0.147	<0.133	<0.136	<0.150	<0.205	<0.162	<0.162	<0.147	<0.150	<0.148
Aroclor 1232	mg/kg	<0.170	<0.158	<0.147	<0.142	<0.145	<0.163	<0.130	<0.141	<0.138	<0.155	<0.152	<0.162	<0.153	<0.146	<0.147	<0.133	<0.136	<0.150	<0.205	<0.162	<0.162	<0.147	<0.150	<0.148
Aroclor 1242	mg/kg	<0.170	<0.158	<0.147	<0.142	0.16	<0.163	<0.130	<0.141	<0.138	<0.155	<0.152	<0.162	<0.153	<0.146	<0.147	<0.133	<0.136	<0.150	<0.205	<0.162	<0.162	<0.147	<0.150	<0.148
Aroclor 1248	mg/kg	<0.170	<0.158	<0.147	<0.142	<0.145	<0.163	<0.130	<0.141	<0.138	<0.155	<0.152	<0.162	<0.153	<0.146	<0.147	<0.133	<0.136	<0.150	<0.205	<0.162	<0.162	<0.147	<0.150	<0.148
Aroclor 1254	mg/kg	<0.170	<0.158	<0.147	<0.142	<0.145	<0.163	<0.130	0.268	<0.138	<0.155	<0.152	<0.162	<0.153	<0.146	<0.147	<0.133	<0.136	<0.150	<0.205	<0.162	<0.162	<0.147	<0.150	<0.148
Aroclor 1260	mg/kg	<0.170	<0.158	<0.147	<0.142	<0.145	<0.163	<0.130	<0.141	<0.138	<0.155	<0.152	<0.162	<0.153	<0.146	<0.147	<0.133	<0.136	<0.150	<0.205	<0.162	<0.162	<0.147	<0.150	<0.148
Aroclor 1262	mg/kg	<0.170	<0.158	<0.147	<0.142	<0.145	<0.163	<0.130	0.2	<0.138	<0.155	<0.152	<0.162	<0.153	<0.146	<0.147	<0.133	<0.136	<0.150	<0.205	<0.162	<0.162	<0.147	<0.150	<0.148
Aroclor 1268	mg/kg	<0.170	<0.158	<0.147	<0.142	<0.145	<0.163	<0.130	<0.141	<0.138	<0.155	<0.152	<0.162	<0.153	<0.146	<0.147	<0.133	<0.136	<0.150	<0.205	<0.162	<0.162	<0.147	<0.150	<0.148
Total PCBs	mg/kg	ND	ND	ND	0.16	ND	ND	ND	0.468	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Petroleum Hydrocarbons	mg/kg	<52.4	<50.8	<46.5	64700	104000	10900	<37.0	1180	5090	111	<51.7	<50.9	<51.3	<44.1	<42.3	<41.3	111	788	455	<47.7	<52.7	<43.3	<42.7	<46.9
Volatile Organic Compounds (VOCs)																									
1,1,1,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-Chloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane - Screen	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Butanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Isopropyltoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-Pentanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Disulfide	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	H09 H09S05 1502051 Natural Clay 24 - 26 2/4/2015	H09 H09S06 1502051 Natural Clay 29 - 31 2/4/2015	H09 H09S07S08 1502051 Natural Clay 34 - 38 2/4/2015	H09 H09S09S11A 1503247 Fill 3 - 6.6 3/13/2015	H09 H09S11BS12 1503247 Fill 6.6 - 10 3/13/2015	H09 H09S13 1503247 Fill 10 - 12 3/13/2015	H10 H10S01S02A 1501358 Fill 0 - 3.33 1/19/2015	H10 H10S02BS04A 1501358 Fill 3.33 - 6.66 1/19/2015	H10 H10S04BS05 1501358 Fill 6.66 - 10 1/19/2015	H10 H10S06 1501358 Natural Organics 10 - 12 1/19/2015	H10 H10S07 1501358 Natural Clay 14 - 16 1/19/2015	H10 H10S08 1501358 Natural Clay 19 - 21 1/19/2015	H10 H10S09 1501358 Natural Clay 24 - 26 1/19/2015	H10 H10S10 1501358 Natural Clay 29 - 31 1/19/2015	H10 H10S11S12 1501358 Natural Clay 34 - 38 1/19/2015	H11 H11S01S02 1502188 Fill 0 - 4 2/12/2015	H11 H11S03S04A 1502206 Fill 4 - 7 2/13/2015	H11 H11S04BS05 1502206 Fill 7 - 10 2/13/2015	H11 H11S06 1502230 Natural Organics 10 - 12 2/17/2015	H11 H11S07 1502230 Natural Clay 14 - 16 2/17/2015	H11 H11S08 1502230 Natural Clay 19 - 21 2/17/2015	H11 H11S09 1502230 Natural Clay 24 - 26 2/17/2015	H11 H11S10 1502230 Natural Sand/Gravel 29 - 31 2/17/2015	H11 H11S11S12 1502230 Natural Clay 34 - 38 2/17/2015
Preliminary Disposal Facility Category		MCP Regulated Type B-1	MCP Regulated Type B-1	Uncontaminated	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	Hazardous Material Type B	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	Uncontaminated	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Material Type B-2	Hazardous Material Type B	Hazardous Material Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type A	Uncontaminated	Uncontaminated
Chlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Diethyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Di-isopropyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethyl tertiary-butyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
tert-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tertiary-amyl methyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene O	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene P,M	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylenes (Total)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total VOCs	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds - Low Level Analysis																									
1,1,1,2-Tetrachloroethane	mg/kg	<0.0040	<0.0044	<0.0034	<0.0046	<0.0044	<0.0051	<0.0080	<0.0066	<0.0057	<0.0047	<0.0055	<0.0061	<0.0034	<0.0045	<0.0046	<0.0050	<0.0060	<0.0064	<0.0060	<0.0045	<0.0040	<0.0039	<0.0033	<0.0039
1,1,1-Trichloroethane	mg/kg	<0.0040	<0.0044	<0.0034	<0.0046	<0.0044	<0.0051	<0.0080	<0.0066	<0.0057	<0.0047	<0.0055	<0.0061	<0.0034	<0.0045	<0.0046	<0.0050	<0.0060	<0.0064	<0.0060	<0.0045	<0.0040	<0.0039	<0.0033	<0.0039
1,1,2,2-Tetrachloroethane	mg/kg	<0.0016	<0.0018	<0.0014	<0.0018	<0.0018	<0.0020	<0.0032	<0.0027	<0.0023	<0.0019	<0.0022	<0.0024	<0.0013	<0.0018	<0.0019	<0.0020	<0.0024	<0.0026	<0.0024	<0.0018	<0.0016	<0.0016	<0.0013	<0.0016
1,1,2-Trichloroethane	mg/kg	<0.0040	<0.0044	<0.0034	<0.0046	<0.0044	<0.0051	<0.0080	<0.0066	<0.0057	<0.0047	<0.0055	<0.0061	<0.0034	<0.0045	<0.0046	<0.0050	<0.0060	<0.0064	<0.0060	<0.0045	<0.0040	<0.0039	<0.0033	<0.0039
1,1-Dichloroethane	mg/kg	<0.0040	<0.0044	<0.0034	<0.0046	<0.0044	<0.0051	<0.0080	<0.0066	<0.0057	<0.0047	<0.0055	<0.0061	<0.0034	<0.0045	<0.0046	<0.0050	<0.0060	<0.0064	<0.0060	<0.0045	<0.0040	<0.0039	<0.0033	<0.0039
1,1-Dichloroethene	mg/kg	<0.0040	<0.0044	<0.0034	<0.0046	<0.0044	<0.0051	<0.0080	<0.0066	<0.0057	<0.0047	<0.0055	<0.0061	<0.0034	<0.0045	<0.0046	<0.0050	<0.0060	<0.0064	<0.0060	<0.0045	<0.0040	<0.0039	<0.0033	<0.0039
1,1-Dichloropropene	mg/kg	<0.0040	<0.0044	<0.0034	<0.0046	<0.0044	<0.0051	<0.0080	<0.0066	<0.0057	<0.0047	<0.0055	<0.0061	<0.0034	<0.0045	<0.0046	<0.0050	<0.0060	<0.0064	<0.0060	<0.0045	<0.0040	<0.0039	<0.0033	<0.0039
1,2,3-Trichlorobenzene	mg/kg	<0.0040	<0.0044	<0.0034	<0.0046	<0.0044	<0.0051	<0.0080	<0.0066	<0.0057	<0.0047	<0.0055	<0.0061	<0.0034	<0.0045	<0.0046	<0.0050	<0.0060	<0.0064	<0.0060	<0.0045	<0.0040	<0.0039	<0.0033	<0.0039
1,2,3-Trichloropropane	mg/kg	<0.0040	<0.0044	<0.0034	<0.0046	<0.0044	<0.0051	<0.0080	<0.0066	<0.0057	<0.0047	<0.0055	<0.0061	<0.0034	<0.0045	<0.0046	<0.0050	<0.0060	<0.0064	<0.0060	<0.0045	<0.0040	<0.0039	<0.0033	<0.0039
1,2,4-Trichlorobenzene	mg/kg	<0.0040	<0.0044	<0.0034	<0.0046	<0.0044	<0.0051	<0.0080	<0.0066	<0.0057	<0.0047	<0.0055	<0.0061	<0.0034	<0.0045	<0.0046	<0.0050	<0.0060	<0.0064	<0.0060	<0.0045	<0.0040	<0.0039	<0.0033	<0.0039
1,2,4-Trimethylbenzene	mg/kg	<0.0040	<0.0044	<0.0034	<0.0046	<0.0044	<0.0051	<0.0080	<0.0066	<0.0057	<0.0047	<0.0055	<0.0061	<0.0034	<0.0045	<0.0046	<0.0050	<0.0060	<0.0064	<0.0060	<0.0045	<0.0040	<0.0039	<0.0033	<0.0039
1,2-Dibromo-3-Chloropropane	mg/kg	<0.0040	<0.0044	<0.0034	<0.0046	<0.0044	<0.0051	<0.0080	<0.0066	<0.0057	<0.0047	<0.0055	<0.0061	<0.0034	<0.0045	<0.0046	<0.0050	<0.0060	<0.0064	<0.0060	<0.0045	<0.0040	<0.0039	<0.0033	<0.0039
1,2-Dibromoethane	mg/kg	<0.0040	<0.0044	<0.0034	<0.0046	<0.0044	<0.0051	<0.0080	<0.0066	<0.0057	<0.0047	<0.0055	<0.0061	<0.0034	<0.0045	<0.0046	<0.0050	<0.0060	<0.0064	<0.0060	<0.0045	<0.0040	<0.0039	<0.0033	<0.0039
1,2-Dichlorobenzene	mg/kg	<0.0040	<0.0044	<0.0034	<0.0046	<0.0044	<0.0051	<0.0080	<0.0066	<0.0057	<0.0047	<0.0055	<0.0061	<0.0034	<0.0045	<0.0046	<0.0050	<0.0060	<0.0064	<0.0060	<0.0045	<0.0040	<0.0039	<0.0033	<0.0039
1,2-Dichloroethane	mg/kg	<0.0040	<0.0044	<0.0034	<0.0046	<0.0044	<0.0051	<0.0080	<0.0066	<0.0057	<0.0047	<0.0055	<0.0061	<0.0034	<0.0045	<0.0046	<0.0050	<0.0060	<0.0064	<0.0060	<0.0045	<0.0040	<0.0039	<0.0033	<0.0039
1,2-Dichloropropane	mg/kg	<0.0040	<0.0044	<0.0034	<0.0046	<0.0044	<0.0051	<0.0080	<0.0066	<0.0057	<0.0047	<0.0055	<0.0061	<0.0034	<0.0045	<0.0046	<0.0050	<0.0060	<0.0064	<0.0060	<0.0045	<0.0040	<0.0039	<0.0033	<0.0039
1,3,5-Trimethylbenzene	mg/kg	<0.0040	<0.0044	<0.0034	<0.0046	<0.0044	<0.0051	<0.0080	<0.0066	<0.0057	<0.0047	<0.0055	<0.0061	<0.0034	<0.0045	<0.0046	<0.0050	<0.0060	<0.0064	<0.0060	<0.0045	<0.0040	<0.0039	<0.0033	<0.0039
1,3-Dichlorobenzene	mg/kg	<0.0040	<0.0044	<0.0034	<0.0046	<0.0044	<0.0051	<0.0080	<0.0066	<0.0057	<0.0047	<0.0055	<0.0061	<0.0034	<0.0045	<0.0046	<0.0050	<0.0060	<0.0064	<0.0060	<0.0045	<0.0040	<0.0039	<0.0033	<0.0039
1,3-Dichloropropane	mg/kg	<0.0040	<0.0044	<0.0034	<0.0046	<0.0044	<0.0051	<0.0080	<0.0066	<0.0057	<0.0047	<0.0055	<0.0061	<0.0034	<0.0045	<0.0046	<0.0050	<0.0060	<0.0064	<0.0060	<0.0045	<0.0040	<0.0039	<0.0033	<0.0039
1,4-Dichlorobenzene	mg/kg	<0.0040	<0.0044	<0.0034	<0.0046	<0.0044	<0.0051	<0.0080	<0.0066	<0.0057	<0.0047	<0.0055	<0.0061	<0.0034	<0.0045	<0.0046	<0.0050	<0.0060	<0.0064	<0.0060	<0.0045	<0.0040	<0.0039	<0.0033	<0.0039
1,4-Dioxane	mg/kg	<0.0805	<0.0881	<0.0689	<0.0918	<0.0886	<0.102	<0.159	<0.133	<0.115	<0.0930	<0.110	<0.121	<0.0673	<0.0893	<0.0926	<0.0993	<0.120	<0.128	<0.120	<0.0904	<0.0797	<0.0782	<0.0667	<0.0779
2,2-Dichloropropane	mg/kg	<0.0040	<0.0044	<0.0034	<0.0046	<0.0044	<0.0051	<0.0080	<0.0066	<0.0057	<0.0047	<0.0055	<0.0061	<0.0034	<0.0045	<0.0046	<0.0050	<0.0060	<0.0064	<0.0060	<0.0045	<0.0040	<0.0039	<0.0033	<0.0039
2-Butanone	mg/kg	<0.0081	<0.0088	<0.0069	<0.0092	<0.0089	<0.0102	<0.0159	<0.0133	<0.0115	<0.0093	<0.0110	<0.0121	<0.0067	<0.0089	<0.0093	<0.0099	<0.0120	<0.0128	<0.0120	<0.0090	<0.0080	<0.0078	<0.0067	<0.0078
2-Chlorotoluene	mg/kg	<0.0040	<0.0044	<0.0034	<0.0046	<0.0044	<0.0051	<0.0080	<0.0066	<0.0057	<0.0047	<0.0055	<0.0061	<0.0034	<0.0045	<0.0046	<0.0050	<0.0060	<0.0064	<0.0060	<0.0045	<0.0040	<0.0039	<0.0033	<0.0039
2-Hexanone	mg/kg	<0.0081	<0.0088	<0.0069	<0.0092	<0.0089	<0.0102	<0.0159	<0.0133	<0.0115	<0.0093	<0.0110	<0.0121	<0.0067	<0.0089	<0.0093	<0.0099	<0.0120	<0.0128	<0.0120	<0.0090	<0.0080	<0.0078	<0.0067	<0.0078
4-Chlorotoluene	mg/kg	<0.0040	<0.0044	<0.0034	<0.0046	<0.0044	<0.0051	<0.0080	<0.0066	<0.0057	<0.0047	<0.0055	<0.0061	<0.0034	<0.0045	<0.0046	<0.0050	<0.0060	<0.0064	<0.0060	<0.0045	<0.0040	<0.0039	<0.0033	<0.0039
4-Isopropyltoluene	mg/kg	<0.0040	<0.0044	<0.0034	<0.0046	<0.0044	<0.0051	<0.0080	<0.0066	<0.0057	<0.0047	<0.0055	<0.0061	<0.0034	<0.0045	<0.0046	<0.0050	<0.0060	<0.0064	<0.0060	<0.0045	<0.0040	<0.0039	<0.0033	<0.0039
4-Methyl-2-Pentanone	mg/kg	<0.0081	<0.0088	<0.0069	<0.0092	<0.0089	<0.0102	<0.0159	<0.0133	<0.0115	<0.0093	<0.0110	<0.0121	<0.0067	<0.0089	<0.0093	<0.0099	<0.0120	<0.0128	<0.0120	<0.0090	<0.0080	<0.0078	<0.0067	<0.0078
Acetone	mg/kg	<0.0081	0.009	<0.0069	0.0143	<0.0089	0.0281	<0.0159	0.0401	<0.0115	0.0401	0.0242	<0.0121	0.0079	<0.0089	0.0202	0.0263	0.0362	0.044	0.0433	<0.0090	<0.0080	<0.0078	<0.0067	<0.0078
Benzene	mg/kg	<0.0040	<0.0044	<0.0034	<0.0046	<0.0044	<0.0051	<0.0080	<0.0066	<0.0057	<0.0047	<0.0055	<0.0061	<0.0034	<0.0045	<0.0046	<0.0050	<0.0060	<0.0064	<0.0060	<0.0045	<0.0040	<0.0039	<0.0033	<0.0039
Bromobenzene	mg/kg	<0.0040	<0.0044	<0.0034	<0.0046	<0.0044	<0.0051	<0.0080	<0.0066	<0.0057	<0.0047	<0.0055	<0.0061	<0.0034	<0.0045	<0.0046	<0.0050	<0.0060	<0.0064	<0.0060	<0.0045	<0.0040	<0.0039	<0.0033	<0.0039
Bromochloromethane	mg/kg	<0.0040	<0.0044	<0.0034	<0.0046	<0.0044	<0.0051	<0.0080	<0.0066	<0.0057	<0.0047	<0.0055	<0.0061	<0.0034	<0.0045	<0.0046	<0.0050	<0.0060	<0.0064	<0.0060	<0.0045	<0.0040	<0.0039	<0.0033	<0.0039
Bromodichloromethane	mg/kg	<0.0040	<0.0044	<0.0034	<0.0046	<0.0044	<0.0051	<0.0080	<0.0066	<0.0057	<0.0047	<0.0055	<0.0061	<0.0034	<0.0045	<0.0046	<0.0050	<0.0060	<0.0064	<0.0060	<0.0045	<0.0040	<0.0039	<0.0033	<0.0039
Bromoform	mg/kg	<0.0040	<0.0044	<0.0034	<0.0046	<0.0044	<0.0051	<0.0080	<0.0066	<0.0057	<0.0047	<0.0055	<0.0061	<0.0034	<0.0045	<0.0046	<0.0050	<0.0060	<0.0064	<0.0060	<0.0045	<0.0040	<0.0039	<0.0033	<0.0039
Bromomethane	mg/kg	<0.0081	<0.0088	<0.0069	<0.0092	<0.0089	<0.0102	<0.0159	<0.0133	<0.0115	<0.0093	<0.0110	<0.0121	<0.0067	<0.0089	<0.0093	<0.0099	<0.0120	<0.0128	<0.0120	<0.0090	<0.0080	<0.0078	<0.0067	<0.0078
Carbon Disulfide	mg/kg	<0.0040	<0.0044	<0.0034	<0.0046	<0.0044	<0.0051	<0.0080	<0.0066	<0.0057	0.0051	<0.0055	<0.0061	<0.0034	<0.0045	<0.0046	<0.0050	<0.0060	<0.0064	<0.0060	<0.0045	<0.0040	<0.0039	<0.0033	<0.0039
Carbon Tetrachloride	mg/kg	<0.0040	<0.0044	<0.0034	<0.0046	<0.0044	<0.0051	<0.0080	<0.0066	<0.0057	<0.0047	<0.0055	<0.0061	<0.0034	<0.0045	<0.0046	<0.0050	<0.0060	<0.0064	<0.0060	<0.0045	<0.0040	<0.0039	<0.0033	<0.0039
Chlorobenzene	mg/kg	<0.0040	<0.0044	<0.0034	<0.0046	<0.0044	<0.0051	<0.0080	<0.0066	<0.0057	<0.0047	<0.0055	<0.0061	<0.0034	<0.0045	<0.0046	<0.0050	<0.0060	<0.0064	<0.0060	<0.0045	<0.0040	<0.0039	<0.0033	<0.0039
Chloroethane	mg/kg	<0.0081	<0.0088	<0.0069	<0.0092	<0.0089	<0.0102	<0.0159	<0.0133	<0.0115	<0.0093	<0.0110	<0.0121	<0.0067	<0.0089	<0.0093	<0.0099	<0.0120	<0.0128	<0.0120	<0.0090	<0.0080	<0.0078	<0.0067	<0.0078
Chloroform	mg/kg	<0.0040	<0.0044	<0.0034	<0.0046	<0.0044	<0.0051	<0.0080	<0.0066	<0.0057	<0.0047	<0.0055	<0.0061	<0.0034	<0.0045	<0.0046	<0.0050	<0.0060	<0.0064	<0.0060	<0.0045	<0.0040	<0.0039	<0.0033	<0.0039
Chloromethane	mg/kg	<0.0081	<0.0088	<0.0069	<0.0092	<0.0089	<0.0102	<0.0159	<0.0133	<0.0115	<0.0093	<0.0110	<0.0121	<0.0067	<0.0089	<0.0093	<0.0099	<0.0120	<0.0128	<0.0120	<0.0090	<0.0080	<0.0078	<0.0067	<0.0078
cis-1,2-Dichloroethene	mg/kg	<0.0040	<0.0044	<0.0034	<0.0046	<0.0044	<0.0051	<0.0080	<0.0066	<0.0057	<0.0047	<0.0055	<0.0061	<0.0034	<0.0045	<0.0046	<0.0050	<0.0060	<0.0064	<0.0060	<0.0045	<0.0040	<0.0039	<0.0033	<0.0039
cis-1,3-Dichloropropene	mg/kg	<0.0040	<0.0044	<0.0034	<0.0046	<0.0044	<0.0051	<0.0080	<0.0066	<0.0057	<0.0047	<0.0055	<0.0061	<0.0034	<0.0045	<0.0046	<0.0050	<0.0060	<0.0064	<0.0060	<0.0045	<0.0040	<0.0039	<0.0033	<0.0039
Dibromochloromethane	mg/kg	<0.0016	<0.0018	<0.0014	<0.0018	<0.0018	<0.0020	<0.0032	<0.0027	<0.0023	<0.0019	<0.0022	<0.0024	<0.0013	<0.0018	<0.0019	<0.0020	<0.0024	<0.0026	<0.0024	<0.0018	<0.0016	<0.0016	<0.0013	<0.0016
Dibromomethane	mg/kg	<0.0040	<0.0044	<0.0034	<0.0046	<0.0044	<0.0051	<0.0080	<0.0066	<0.0057	<0.0047	<0.0055	<0.0061	<0.0034	<0.0045	<0.0046	<0.0050	<0.0060	<0.0064	<0.0060	<0.0045	<0.0040	<0.0039	<0.0033	<0.0039
Dichlorodifluoromethane	mg/kg	<0.0081	<0.0088	<0.0069	<0.0092	<0.0089	<0.0102	<0.0159	<0.0133	<0.0115	<0.0093	<0.0110	<0.0121	<0.0067	<0.0089	<0.0093	<0.0099	<0.0120	<0.0128	<0.0120	<0.0090	<0.0080	<0.0078	<0.0067	<0.0078
Diethyl Ether	mg/kg	<0.0040	<0.0044	<0.0034	<0.0046	<0.0044	<0.0051	<0.0080	<0.0066	<0.0057	<0.0047	<0.0055	<0.0061	<0.0034	<0.0045	<0.0046	<0.0050	<0.0060	<0.0064	<0.0060	<0.0045	<0.0040	<0.0039	<0.0033	<0.0039
Di-isopropyl ether	mg/kg	<0.0040	<0.0044	<0.0034	<0.0046	<0.0044	<0.0051	<0.0080	<0.0066	<0.0057	<0.0047	<0.0055	<0.0061	<0.0034	<0.0045	<0.0046	<0.0050	<0.0060	<0.0064	<0.0060	<0.0045	<0.0040	<0.0039	<0.0033	<0.0039
Ethyl tertiary-butyl ether	mg/kg	<0.0040	<0.0044	<0.0034	<0.0046	<0.0044	<0.0051	<0.0080	<0.0066	<0.0057	<0.0047	<0.0055	<0.0061	<0.0034	<0.0045	<0.0046	<0.0050	<0.0060	<0.0064	<0.0060	<0.0045	<0.0040	<0.0039	<0.0033	<0.0039
Ethylbenzene	mg/kg	<0.0040	<0.0044	<0.0034	<0.0046	<0.0044	<0.0051	<0.0080	<0.0066	<0.0057	<0.0047	<0.0055	<0.0061	<0.0034	<0.0045	<0.0046	<0.0050	<0.0060	<0.0064	<0.0060	<0.0045	<0.0040	<0.0039	<0.0033	<0.0039
Hexachlorobutadiene	mg/kg	<0.0040	<0.0044	<0.0034	<0.0046	<0.0044	<0.0051	<0.0080	<0.0066	<0.0057	<0.0047	<0.0055	<0.0061	<0.0034	<0.0045	<0.0046	<0.0050	<0.0060	<0.0064	<0.0060	<0.0045	<0.0040	<0.0039	<0.0033	<0.0039
Isopropylbenzene	mg/kg	<0.0040	<0.0044	<0.0034	<0.0046	<0.0044	<0.0051	<0.0080	<0.0066	<0.0057	<0.0047	<0.0055	<0.0061	<0.0034	<0.0045	<0.0046	<0.0050	<0.0060	<0.0064	<0.0060	<0.0045	<0.0040	<0.0039	<0.0033	<0.0039
Methyl tert-Butyl Ether	mg/kg	<0.0040	<0.0044	<0.0034	<0.0046	<0.0044	<0.0051	<0.0080	<0.0066	<0.0057	<0.0047	<0.0055	<0.0061	<0.0034	<0.0045	<0.0046	<0.0050	<0.0060	<0.0064	<0.0060	<0.0045	<0.0040	<0.0039	<0.0033	<0.0039
Methylene Chloride	mg/kg	<0.0081	<0.0088	<0.0069	<0.0092	<0.0089	<0.0102	<0.0159	<0.0133	<0.0115	<0.0093	<0.0110	<0.0121	<0.0067	<0.0089	<0.0093	<0.0099	<0.0120	<0.0128	<0.0120	<0.0090	<0.0080	<0.0078	<0.0067	<0.0078
Naphthalene	mg/kg	<0.0040	<0.0044	<0.0034	<0.0046	<0.0044	<0.0051	<0.0080	<0.0066	<0.0057	<0.0047	<0.0055	<0.0061	<0.0034	<0.0045	<0.0046	<0.0050	<0.0060	<0.0064	<0.0060	<0.0045	<0.0040	<0.0039	<0.0033	<0.0039
n-Butylbenzene	mg/kg	<0.0040	<0.0044	<0.0034	<0.0046	<0.0044	<0.0051	<0.0080	<0.0066	<0.0057	<0.0047	<0.0055	<0.0061	<0.0034	<0.0045	<0.0046	<0.0050	<0.0060	<0.0064	<0.0060	<0.0045	<0.0040	<0.0039	<0.0033	<0.0039
n-Propylbenzene	mg/kg	<0.0040	<0.0044	<0.0034	<0.0046	<0.0044	<0.0051	<0.0080	<0.0066	<0.0057	<0.0047	<0.0055	<0.0061	<0.0034	<0.0045	<0.0046	<0.0050	<0.0060	<0.0064	<0.0060	<0.0045	<0.0040	<0.0039	<0.0033	<0.0039
sec-Butylbenzene	mg/kg	<0.0040	<0.0044	<0.0034	<0.0046	<0.0044	<0.0051	<0.0080	<0.0066	<0.0057	<0.0047	<0.0055	<0.0061	<0.0034	<0.0045	<0.0046	<0.0050	<0.0060	<0.0064	<0.0060	<0.0045	<0.0040	<0.0039	<0.0033	<0.0039

Table 1
Soil Precharacterization Data

Wynn Resort Casino
Everett, Massachusetts

Analyte	Precharacterization Cell	H09	H09	H09	H09	H09	H09	H10	H10	H10	H10	H10	H10	H10	H10	H10	H11	H11	H11	H11	H11	H11	H11	H11	H11
	Sample ID	H09S05	H09S06	H09S07S08	H09S09S11A	H09S11BS12	H09S13	H10S01S02A	H10S02BS04A	H10S04BS05	H10S06	H10S07	H10S08	H10S09	H10S10	H10S11S12	H11S01S02	H11S03S04A	H11S04BS05	H11S06	H11S07	H11S08	H11S09	H11S10	H11S11S12
	Laboratory Work Order	1502051	1502051	1502051	1503247	1503247	1503247	1501358	1501358	1501358	1501358	1501358	1501358	1501358	1501358	1501358	1502188	1502206	1502206	1502230	1502230	1502230	1502230	1502230	1502230
	Soil Distinction	Natural	Natural	Natural	Fill	Fill	Fill	Fill	Fill	Fill	Natural Organics	Natural	Natural	Natural	Natural	Natural	Fill	Fill	Fill	Natural Organics	Natural	Natural	Natural	Natural Sand/Gravel	Natural
	Soil Type	Clay	Clay	Clay								Clay	Clay	Clay	Clay	Clay					Clay	Clay	Clay		Clay
	Depth Interval (ft.)	24 - 26	29 - 31	34 - 38	3 - 6.6	6.6 - 10	10 - 12	0 - 3.33	3.33 - 6.66	6.66 - 10	10 - 12	14 - 16	19 - 21	24 - 26	29 - 31	34 - 38	0 - 4	4 - 7	7 - 10	10 - 12	14 - 16	19 - 21	24 - 26	29 - 31	34 - 38
	Sampling Date	2/4/2015	2/4/2015	2/4/2015	3/13/2015	3/13/2015	3/13/2015	1/19/2015	1/19/2015	1/19/2015	1/19/2015	1/19/2015	1/19/2015	1/19/2015	1/19/2015	1/19/2015	2/12/2015	2/13/2015	2/13/2015	2/17/2015	2/17/2015	2/17/2015	2/17/2015	2/17/2015	2/17/2015	2/17/2015
Preliminary Disposal Facility Category		MCP Regulated Type B-1	MCP Regulated Type B-1	Uncontaminated	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	Hazardous Material Type B	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	Uncontaminated	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Material Type B-2	Hazardous Material Type B	Hazardous Material Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type A	Uncontaminated	Uncontaminated
Styrene	mg/kg	<0.0040	<0.0044	<0.0034	<0.0046	<0.0044	<0.0051	<0.0080	<0.0066	<0.0057	<0.0047	<0.0055	<0.0061	<0.0034	<0.0045	<0.0046	<0.0050	<0.0060	<0.0064	<0.0060	<0.0045	<0.0040	<0.0039	<0.0033	<0.0039
tert-Butylbenzene	mg/kg	<0.0040	<0.0044	<0.0034	<0.0046	<0.0044	<0.0051	<0.0080	<0.0066	<0.0057	<0.0047	<0.0055	<0.0061	<0.0034	<0.0045	<0.0046	<0.0050	<0.0060	<0.0064	<0.0060	<0.0045	<0.0040	<0.0039	<0.0033	<0.0039
Tertiary-amyl methyl ether	mg/kg	<0.0040	<0.0044	<0.0034	<0.0046	<0.0044	<0.0051	<0.0080	<0.0066	<0.0057	<0.0047	<0.0055	<0.0061	<0.0034	<0.0045	<0.0046	<0.0050	<0.0060	<0.0064	<0.0060	<0.0045	<0.0040	<0.0039	<0.0033	<0.0039
Tetrachloroethene	mg/kg	<0.0040	<0.0044	<0.0034	<0.0046	<0.0044	<0.0051	<0.0080	<0.0066	<0.0057	<0.0047	<0.0055	<0.0061	<0.0034	<0.0045	<0.0046	<0.0050	<0.0060	<0.0064	<0.0060	<0.0045	<0.0040	<0.0039	<0.0033	<0.0039
Tetrahydrofuran	mg/kg	<0.0040	<0.0044	<0.0034	<0.0046	<0.0044	<0.0051	<0.0080	<0.0066	<0.0057	<0.0047	<0.0055	<0.0061	<0.0034	<0.0045	<0.0046	<0.0050	<0.0060	<0.0064	<0.0060	<0.0045	<0.0040	<0.0039	<0.0033	<0.0039
Toluene	mg/kg	<0.0040	<0.0044	<0.0034	<0.0046	<0.0044	<0.0051	<0.0080	<0.0066	<0.0057	<0.0047	<0.0055	<0.0061	<0.0034	<0.0045	<0.0046	<0.0050	<0.0060	<0.0064	<0.0060	<0.0045	<0.0040	<0.0039	<0.0033	<0.0039
trans-1,2-Dichloroethene	mg/kg	<0.0040	<0.0044	<0.0034	<0.0046	<0.0044	<0.0051	<0.0080	<0.0066	<0.0057	<0.0047	<0.0055	<0.0061	<0.0034	<0.0045	<0.0046	<0.0050	<0.0060	<0.0064	<0.0060	<0.0045	<0.0040	<0.0039	<0.0033	<0.0039
trans-1,3-Dichloropropene	mg/kg	<0.0040	<0.0044	<0.0034	<0.0046	<0.0044	<0.0051	<0.0080	<0.0066	<0.0057	<0.0047	<0.0055	<0.0061	<0.0034	<0.0045	<0.0046	<0.0050	<0.0060	<0.0064	<0.0060	<0.0045	<0.0040	<0.0039	<0.0033	<0.0039
Trichloroethene	mg/kg	<0.0040	<0.0044	<0.0034	<0.0046	<0.0044	<0.0051	<0.0080	<0.0066	<0.0057	<0.0047	<0.0055	<0.0061	<0.0034	<0.0045	<0.0046	<0.0050	<0.0060	<0.0064	<0.0060	<0.0045	<0.0040	<0.0039	<0.0033	<0.0039
Trichlorofluoromethane	mg/kg	<0.0040	<0.0044	<0.0034	<0.0046	<0.0044	<0.0051	<0.0080	<0.0066	<0.0057	<0.0047	<0.0055	<0.0061	<0.0034	<0.0045	<0.0046	<0.0050	<0.0060	<0.0064	<0.0060	<0.0045	<0.0040	<0.0039	<0.0033	<0.0039
Vinyl Chloride	mg/kg	<0.0081	<0.0088	<0.0069	<0.0092	<0.0089	<0.0102	<0.0159	<0.0133	<0.0115	<0.0093	<0.0110	<0.0121	<0.0067	<0.0089	<0.0093	<0.0099	<0.0120	<0.0128	<0.0120	<0.0090	<0.0080	<0.0078	<0.0067	<0.0078
Xylene O	mg/kg	<0.0040	<0.0044	<0.0034	<0.0046	<0.0044	<0.0051	<0.0080	<0.0066	<0.0057	<0.0047	<0.0055	<0.0061	<0.0034	<0.0045	<0.0046	<0.0050	<0.0060	<0.0064	<0.0060	<0.0045	<0.0040	<0.0039	<0.0033	<0.0039
Xylene P,M	mg/kg	<0.0081	<0.0088	<0.0069	<0.0092	<0.0089	<0.0102	<0.0159	<0.0133	<0.0115	<0.0093	<0.0110	<0.0121	<0.0067	<0.0089	<0.0093	<0.0099	<0.0120	<0.0128	<0.0120	<0.0090	<0.0080	<0.0078	<0.0067	<0.0078
Xylenes (Total)	mg/kg	<0.0081	<0.0088	<0.0069	<0.0092	<0.0089	<0.0102	<0.0159	<0.0133	<0.0115	<0.0093	<0.0110	<0.0121	<0.0067	<0.0089	<0.0093	<0.0099	<0.0120	<0.0128	<0.0120	<0.0090	<0.0080	<0.0078	<0.0067	<0.0078
Total VOCs (Low Level)	mg/kg	ND	0.009	ND	0.0143	ND	0.0281	ND	0.0401	ND	0.0452	0.0242	ND	0.0079	ND	0.0202	0.0263	0.0362	0.044	0.0433	ND	ND	ND	ND	ND
Semi-Volatile Organic Compounds																									
1,2,4-Trichlorobenzene	mg/kg	<1.14	<1.04	<0.965	<9.52	<55.0	<0.969	<0.838	<0.957	<0.852	<1.03	<1.06	<1.07	<0.980	<1.05	<1.03	<0.883	<0.883	<1.08	<1.36	<0.991	<1.07	<1.00	<0.995	<0.944
1,2-Dichlorobenzene	mg/kg	<1.14	<1.04	<0.965	<9.52	<55.0	<0.969	<0.838	<0.957	<0.852	<1.03	<1.06	<1.07	<0.980	<1.05	<1.03	<0.883	<0.883	<1.08	<1.36	<0.991	<1.07	<1.00	<0.995	<0.944
1,3-Dichlorobenzene	mg/kg	<1.14	<1.04	<0.965	<9.52	<55.0	<0.969	<0.838	<0.957	<0.852	<1.03	<1.06	<1.07	<0.980	<1.05	<1.03	<0.883	<0.883	<1.08	<1.36	<0.991	<1.07	<1.00	<0.995	<0.944
1,4-Dichlorobenzene	mg/kg	<0.570	<0.520	<0.484	<4.77	<27.6	<0.486	<0.420	<0.480	<0.427	<0.517	<0.532	<0.535	<0.491	<0.527	<0.515	<0.443	<0.443	<0.539	<0.684	<0.497	<0.534	<0.503	<0.499	<0.473
2,4,5-Trichlorophenol	mg/kg	<1.14	<1.04	<0.965	<9.52	<55.0	<0.969	<0.838	<0.957	<0.852	<1.03	<1.06	<1.07	<0.980	<1.05	<1.03	<0.883	<0.883	<1.08	<1.36	<0.991	<1.07	<1.00	<0.995	<0.944
2,4,6-Trichlorophenol	mg/kg	<1.14	<1.04	<0.965	<9.52	<55.0	<0.969	<0.838	<0.957	<0.852	<1.03	<1.06	<1.07	<0.980	<1.05	<1.03	<0.883	<0.883	<1.08	<1.36	<0.991	<1.07	<1.00	<0.995	<0.944
2,4-Dichlorophenol	mg/kg	<1.14	<1.04	<0.965	<9.52	<55.0	<0.969	<0.838	<0.957	<0.852	<1.03	<1.06	<1.07	<0.980	<1.05	<1.03	<0.883	<0.883	<1.08	<1.36	<0.991	<1.07	<1.00	<0.995	<0.944
2,4-Dimethylphenol	mg/kg	<1.14	<1.04	<0.965	<9.52	<55.0	<0.969	<0.838	<0.957	<0.852	<1.03	<1.06	<1.07	<0.980	<1.05	<1.03	<0.883	<0.883	<1.08	<1.36	<0.991	<1.07	<1.00	<0.995	<0.944
2,4-Dinitrophenol	mg/kg	<5.70	<5.20	<4.84	<47.7	<276	<4.86	<4.20	<4.80	<4.27	<5.17	<5.32	<5.35	<4.91	<5.27	<5.15	<4.43	<4.43	<5.39	<6.84	<4.97	<5.34	<5.03	<4.99	<4.73
2,4-Dinitrotoluene	mg/kg	<1.14	<1.04	<0.965	<9.52	<55.0	<0.969	<0.838	<0.957	<0.852	<1.03	<1.06	<1.07	<0.980	<1.05	<1.03	<0.883	<0.883	<1.08	<1.36	<0.991	<1.07	<1.00	<0.995	<0.944
2,6-Dinitrotoluene	mg/kg	<1.14	<1.04	<0.965	<9.52	<55.0	<0.969	<0.838	<0.957	<0.852	<1.03	<1.06	<1.07	<0.980	<1.05	<1.03	<0.883	<0.883	<1.08	<1.36	<0.991	<1.07	<1.00	<0.995	<0.944
2-Chloronaphthalene	mg/kg	<1.14	<1.04	<0.965	<9.52	<55.0	<0.969	<0.838	<0.957	<0.852	<1.03	<1.06	<1.07	<0.980	<1.05	<1.03	<0.883	<0.883	<1.08	<1.36	<0.991	<1.07	<1.00	<0.995	<0.944
2-Chlorophenol	mg/kg	<1.14	<1.04	<0.965	<9.52	<55.0	<0.969	<0.838	<0.957	<0.852	<1.03	<1.06	<1.07	<0.980	<1.05	<1.03	<0.883	<0.883	<1.08	<1.36	<0.991	<1.07	<1.00	<0.995	<0.944
2-Methylnaphthalene	mg/kg	<1.14	<1.04	<0.965	<9.52	<55.0	<0.969	<0.838	<0.957	<0.852	<1.03	<1.06	<1.07	<0.980	<1.05	<1.03	<0.883	<0.883	<1.08	<1.36	<0.991	<1.07	<1.00	<0.995	<0.944
2-Methylphenol	mg/kg	<1.14	<1.04	<0.965	<9.52	<55.0	<0.969	<0.838	<0.957	<0.852	<1.03	<1.06	<1.07	<0.980	<1.05	<1.03	<0.883	<0.883	<1.08	<1.36	<0.991	<1.07	<1.00	<0.995	<0.944
2-Nitrophenol	mg/kg	<1.14	<1.04	<0.965	<9.52	<55.0	<0.969	<0.838	<0.957	<0.852	<1.03	<1.06	<1.07	<0.980	<1.05	<1.03	<0.883	<0.883	<1.08	<1.36	<0.991	<1.07	<1.00	<0.995	<0.944
3,3´-Dichlorobenzidine	mg/kg	<2.28	<2.08	<1.93	<19.1	<110	<1.94	<1.68	<1.92	<1.71	<2.07	<2.12	<2.14	<1.96	<2.10	<2.06	<1.77	<1.77	<2.15	<2.73	<1.99	<2.13	<2.01	<1.99	<1.89
3+4-Methylphenol	mg/kg	<2.28	<2.08	<1.93	<19.1	<110	<1.94	<1.68	<1.92	<1.71	<2.07	<2.12	<2.14	<1.96	<2.10	<2.06	<1.77	<1.77	<2.15	<2.73	<1.99	<2.13	<2.01	<1.99	<1.89
4-Bromophenyl-phenylether	mg/kg	<1.14	<1.04	<0.965	<9.52	<55.0	<0.969	<0.838	<0.957	<0.852	<1.03	<1.06	<1.07	<0.980	<1.05	<1.03	<0.883	<0.883	<1.08	<1.36	<0.991	<1.07	<1.00	<0.995	<0.944
4-Chloroaniline	mg/kg	<2.28	<2.08	<1.93	<19.1	<110	<1.94	<1.68	<1.92	<1.71	<2.07	<2.12	<2.14	<1.96	<2.10	<2.06	<1.77	<1.77	<2.15	<2.73	<1.99	<2.13	<2.01	<1.99	<1.89
4-Nitrophenol	mg/kg	<5.70	<5.20	<4.84	<47.7	<276	<4.86	<4.20	<4.80	<4.27	<5.17	<5.32	<5.35	<4.91	<5.27	<5.15	<4.43	<4.43	<5.39	<6.84	<4.97	<5.34	<5.03	<4.99	<4.73
Acenaphthene	mg/kg	<1.14	<1.04	<0.965	<9.52	<55.0	<0.969	<0.838	<0.957	<0.852	<1.03	<1.06	<1.07	<0.980	<1.05	<1.03	<0.883	<0.883	<1.08	<1.36	<0.991	<1.07	<1.00	<0.995	<0.944
Acenaphthylene	mg/kg	<1.14	<1.04	<0.965	<9.52	<55.0	<0.969	<0.838	<0.957	<0.852	<1.03	<1.06	<1.07	<0.980	<1.05	<1.03	<0.883	<0.883	<1.08	<1.36	<0.991	<1.07	<1.00	<0.995	<0.944
Acetophenone	mg/kg	<2.28	<2.08	<1.93	<19.1	<110	<1.94	<1.68	<1.92	<1.71	<2.07	<2.12	<2.14	<1.96	<2.10	<2.06	<1.77	<1.77	<2.15	<2.73	<1.99	<2.13	<2.01	<1.99	<1.89
Aniline	mg/kg	<5.70	<5.20	<4.84	<47.7	<276	<4.86	<4.20	<4.80	<4.27	<5.17	<5.32	<5.35	<4.91	<5.27	<5.15	<4.43	<4.43	<5.39	<6.84	<4.97	<5.34	<5.03	<4.99	<4.73
Anthracene	mg/kg	<1.14	<1.04	<0.965	<9.52	<55.0	<0.969	<0.838	<0.957	<0.852	<1.03	<1.06	<1.07	<0.980	<1.05	<1.03	<0.883	<0.883	<1.08	<1.36	<0.991	<1.07	<1.00	<0.995	<0.944
Azobenzene	mg/kg	<1.14	<1.04	<0.965	<9.52	<55.0	<0.969	<0.838	<0.957	<0.852	<1.03	<1.06	<1.07	<0.980	<1.05	<1.03	<0.883	<0.883	<1.08	<1.36	<0.991	<1.07	<1.00	<0.995	<0.944
Benzo(a)anthracene	mg/kg	<1.14	<1.04	<0.965	<9.52	<55.0	<0.969	<0.838	<0.957	1.09	<1.03	<1.06	<1.07	<0.980	<1.05	<1.03	<0.883	<0.883	3.4	<1.36	<0.991	<1.07	<1.00	<0.995	<0.944
Benzo(a)pyrene	mg/kg	<0.570	<0.520	<0.484	<4.77	<27.6	<0.486	<0.420	<0.480	0.505	<0.517	<0.532	<0.535	<0.491	<0.527	<0.515	<0.443	0.643	2.75	<0.684	<0.497	<0.534	<0.503	<0.499	<0.473
Benzo(b)fluoranthene	mg/kg	<1.14	<1.04	<0.965	<9.52	<55.0	<0.969	<0.838	<0.957	0.968	<1.03	<1.06	<1.07	<0.980	<1.05	<1.03	<0.883	<0.883	2.6	<1.36	<0.991	<1.07	<1.00	<0.995	<0.944
Benzo(g,h,i)perylene	mg/kg	<1.14	<1.04	<0.965	<9.52	<55.0	<0.969	<0.838	<0.957	<0.852	<1.03	<1.06	<1.07	<0.980	<1.05	<1.03	<0.883	<0.883	1.74	<1.36	<0.991	<1.07	<1.00	<0.995	<0.944
Benzo(k)fluoranthene	mg/kg	<1.14	<1.04	<0.965	<9.52	<55.0	<0.969	<0.838	<0.957	<0.852	<1.03	<1.06	<1.07	<0.980	<1.05	<1.03	<0.883	<0.883	1.85	<1.36	<0.991	<1.07	<1.00	<0.995	<0.944
bis(2-Chloroethoxy)methane	mg/kg	<1.14	<1.04	<0.965	<9.52	<55.0	<0.969	<0.838	<0.957	<0.852	<1.03	<1.06	<1.07	<0.980	<1.05	<1.03	<0.883	<0.883	<1.08	<1.36	<0.991	<1.07	<1.00	<0.995	<0.944
bis(2-Chloroethyl)ether	mg/kg	<0.570	<0.520	<0.484	<4.77	<27.6	<0.486	<0.420	<0.480	<0.427	<0.517	<0.532	<0.535	<0.491	<0.527	<0.515	<0.443	<0.443	<0.539	<0.684	<0.497	<0.534	<0.503	<0.499	<0.473
bis(2-chloroisopropyl)Ether	mg/kg	<0.570	<0.520	<0.484	<4.77	<27.6	<0.486	<0.420	<0.480	<0.427	<0.517	<0.532	<0.535	<0.491	<0.527	<0.515	<0.443	<0.443	<0.539	<0.684	<0.497	<0.534	<0.503	<0.499	<0.473
bis(2-Ethylhexyl)phthalate	mg/kg	<1.14	<1.04	<0.965	92300	799000	12000	<0.838	433	536	<1.03	<1.06	<1.07	<0.980	<1.05	<1.03	<0.883	18.8	<1.08	<1.36	<0.991	<1.07	<1.00	<0.995	<0.944
Butylbenzylphthalate	mg/kg	<1.14	<1.04	<0.965	<9.52	<55.0	<0.969	<0.838	<0.957	<0.852	<1.03	<1.06	<1.07	<0.980	<1.05	<1.03	<0.883	<0.883	<1.08	<1.36	<0.991	<1.07	<1.00	<0.995	<0.944
Chrysene	mg/kg	<0.570	<0.520	<0.484	<4.77	<27.6	<0.486	<0.420	<0.480	1.39	<0.517	<0.532	<0.535	<0.491	<0.527	<0.515	<0.443	0.684	2.81	<0.684	<0.497	<0.534	<0.503	<0.499	<0.473
Dibenzo(a,h)Anthracene	mg/kg	<0.570	<0.520	<0.484	<4.77	<27.6	<0.486	<0.420	<0.480	<0.427	<0.517	<0.532	<0.535	<0.491	<0.527	<0.515	<0.443	<0.443	<0.539	<0.684	<0.497	<0.534	<0.503	<0.499	<0.473
Dibenzofuran	mg/kg	<1.14	<1.04	<0.965	<9.52	<55.0	<0.969	<0.838	<0.957	<0.852	<1.03	<1.06	<1.07	<0.980	<1.05	<1.03	<0.883	<0.883	<1.08	<1.36	<0.991	<1.07	<1.00	<0.995	<0.944
Diethylphthalate	mg/kg	<1.14	<1.04	<0.965	<9.52	<55.0	<0.969	<0.838	<0.957	<0.852	<1.03	<1.06	<1.07	<0.980	<1.05	<1.03	<0.883	<0.883	<1.08	<1.36	<0.991	<1.07	<1.00	<0.995	<0.944
Dimethylphthalate	mg/kg	<1.14	<1.04	<0.965	<9.52	<55.0	<0.969	<0.838	<0.957	<0.852	<1.03	<1.06	<1.07	<0.980	<1.05	<1.03	<0.883	<0.883	<1.08	<1.36	<0.991	<1.07	<1.00	<0.995	<0.944
Di-n-butylphthalate	mg/kg	<1.14	<1.04	<0.965	<9.52	<55.0	<0.969	<0.838	<0.957	<0.852	<1.03	<1.06	<1.07	<0.980	<1.05	<1.03	<0.883	<0.883	<1.08	<1.36	<0.991	<1.07	<1.00	<0.995	<0.944
Di-n-octylphthalate	mg/kg	<1.14	<1.04	<0.965	<9.52	<55.0	<0.969	<0.838	<0.957	<0.852	<1.03	<1.06	<1.07	<0.980	<1.05	<1.03	<0.883	<0.883	<1.08	<1.36	<0.991	<1.07	<1.00	<0.995	<0.944
Fluoranthene	mg/kg	<1.14	<1.04	<0.965	<9.52	<55.0	<0.969	<0.838	<0.957	1.06	<1.03	<1.06	<1.07	<0.980	<1.05	<1.03	<0.883	1.91	6.79	<1.36	<0.991	<1.07	<1.00	<0.995	<0.944
Fluorene	mg/kg	<1.14	<1.04	<0.965	<9.52	<55.0	<0.969	<0.838	<0.957	<0.852	<1.03	<1.06	<1.07	<0.980	<1.05	<1.03	<0.883	<0.883	<1.08	<1.36	<0.991	<1.07	<1.00	<0.995	<0.944
Hexachlorobenzene	mg/kg	<0.570	<0.520	<0.484	<4.77	<27.6	<0.486	<0.420	<0.480	<0.427	<0.517	<0.532	<0.535	<0.491	<0.527	<0.515	<0.443	<0.443	<0.539	<0.684	<0.497	<0.534	<0.503	<0.499	<0.473
Hexachlorobutadiene	mg/kg	<1.14	<1.04	<0.965	<9.52	<55.0	<0.969	<0.838	<0.957	<0.852	<1.03	<1.06	<1.07	<0.980	<1.05	<1.03	<0.883	<0.883	<1.08	<1.36	<0.991	<1.07	<1.00	<0.995	<0.944
Hexachloroethane	mg/kg	<1.14	<1.04	<0.965	<9.52	<55.0	<0.969	<0.838	<0.957	<0.852	<1.03	<1.06	<1.07	<0.980	<1.05	<1.03	<0.883	<0.883	<1.08	<1.36	<0.991	<1.07	<1.00	<0.995	<0.944
Indeno(1,2,3-cd)Pyrene	mg/kg	<1.14	<1.04	<0.965	<9.52	<55.0	<0.969	<0.838	<0.957	<0.852	<1.03	<1.06	<1.07	<0.980	<1.05	<1.03	<0.883	<0.883	1.68	<1.36	<0.991	<1.07	<1.00	<0.995	<0.944
Isophorone	mg/kg	<1.14	<1.04	<0.965	<9.52	<55.0	<0.969	<0.838	<0.957	<0.852	<1.03	<1.06	<1.07	<0.980	<1.05	<1.03	<0.883	<0.883	<1.08	<1.36	<0.991	<1.07	<1.00	<0.995	<0.944
Naphthalene	mg/kg	<1.14	<1.04	<0.965	<9.52	<55.0	<0.969	<0.838	<0.957	<0.852	<1.03	<1.06	<1.07	<0.980	<1.05	<1.03	<0.883	<0.883	<1.08	<1.36	<0.991	<1.07	<1.00	<0.995	<0.944
Nitrobenzene	mg/kg	<1.14	<1.04	<0.965	<9.52	<55.0	<0.969	<0.838	<0.957	<0.852	<1.03	<1.06	<1.07	<0.980	<1.05	<1.03	<0.883	<0.883	<1.08	<1.36	<0.991	<1.07	<1.00	<0.995	<0.944
N-Nitrosodimethylamine	mg/kg	<1.14	<1.04	<0.965	<9.52	<55.0	<0.969	<0.838	<0.957	<0.852	<1.03	<1.06	<1.07	<0.980	<1.05	<1.03	<0.883	<0.883	<1.08	<1.36	<0.991	<1.07	<1.00	<0.995	<0.944
Pentachlorophenol	mg/kg	<5.70	<5.20	<4.84	<47.7	<276	<4.86	<4.20	<4.80	<4.27	<5.17	<5.32	<5.35	<4.91	<5.27	<5.15	<4.43	<4.43	<5.39	<6.84	<4.97	<5.34	<5.03	<4.99	<4.73
Phenanthrene	mg/kg	<1.14	<1.04	<0.965	<9.52	<55.0	<0.969	<0.838	<0.957	0.936	<1.03	<1.06	<1.07	<0.980	<1.05	<1.03	<0.883	1.49	3.54	<1.36	<0.991	<1.07	<1.00	<0.995	<0.944
Phenol	mg/kg	<1.14	<1.04	<0.965	<9.52	<55.0	<0.969	<0.838	<0.957	<0.852	<1.03	<1.06	<1.07	<0.980	<1.05	<1.03	<0.883	<0.883	<1.08	<1.36	<0.991	<1.07	<1.00	<0.995	<0.944
Pyrene	mg/kg	<1.14	<1.04	<0.965	<9.52	<55.0	<0.969	<0.838	<0.957	0.913	<1.03	<1.06	<1.07	<0.980	<1.05	<1.03	<0.883	1.04	4.39	<1.36	<0.991	<1.07	<1.00	<0.995	<0.944
Total SVOCs	mg/kg	ND	ND	ND	92300	799000	12000	ND	433	542.862	ND	ND	ND	ND	ND	ND	ND	24.567	31.55	ND	ND	ND	ND	ND	ND
Classic Chemistry																									
Corrosivity (pH)	S.U.	6.8	6.65	7.43	8.44	8.45	11	9	8.04	9.03	4.43	5.57	6.96	6.77	7.09	6.99	8.58	6.72	6.15	4.27	5.27	6.12	6.01	6.18	6.09
Conductivity	umhos/cm	7710	6770	3290	327	240	1400	192	1660	1140	1650	2820	4810	5040	3820	3970	149	1730	1090	1280	4910	5270	3560	2510	1600
Flashpoint	°F	--	--	--	>200	>200	>200	>200	>200	>200	--	--	--	--	--	--	>200	>200	>200	--	--	--	--	--	--
Reactive Cyanide	mg/kg	--	--	--	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--	--	--	--	--	--	<2.0	<2.0	<2.0	--	--	--	--	--	--
Reactive Sulfide	mg/kg	--	--	--	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--	--	--	--	--	--	<2.0	<2.0	<2.0	--	--	--	--	--	--

Table 1
Soil Precharacterization Data

Wynn Resort Casino
Everett, Massachusetts

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	H12 H12S01S02A 1501169 Fill 0 - 3.3 1/9/2015	H12 H12S02BS04A 1501169 Fill 3.3 - 6.6 1/9/2015	H12 H12S04BS05 1501167 Fill 6.6 - 10 1/9/2015	H12 H12S06 1501167 Fill 10 - 12 1/9/2015	H12 H12S08 1501192 Natural Clay 14 - 16 1/12/2015	H12 H12S09 1501192 Natural Clay 19 - 21 1/12/2015	H12 H12S10 1501192 Natural Clay 24 - 26 1/12/2015	H12 H12S11 1501192 Natural Sand/Gravel 29 - 31 1/12/2015	H12 H12S12S13 1501192 Natural Sand/Gravel 34 - 38 1/12/2015	H13 H13S01S02A 1501169 Fill 0 - 3.3 1/9/2015	H13 H13S02BS04A 1501169 Fill 3.3 - 6.6 1/9/2015	H13 H13S04BS05 1501169 Fill 6.6 - 10 1/9/2015	H13 H13S06 1501169 Natural Clay 14 - 16 1/9/2015	H13 H13S07 1501169 Natural Clay 19 - 21 1/9/2015	H13 H13S08 1501169 Natural Clay 24 - 26 1/9/2015	H13 H13S09 1501169 Natural Clay 29 - 31 1/9/2015	H13 H13S10S11 1501169 Natural Sand/Gravel 34 - 38 1/9/2015	H14 GZ012S01S02 1411323 Fill 0 - 4 11/14/2014	H14 GZ012S03S05 1411323 Fill 4 - 10 11/14/2014	H14 GZ012S06S08 1411323 Natural Sand/Gravel 10 - 16 11/14/2014	H14 GZ012S09S10 1411363 Natural Clay 19 - 26 11/17/2014	H14 GZ012S11S12 1411363 Natural Clay 29 - 36 11/17/2014	H14 GZ012S13S14 1411363 Natural Clay 39 - 46 11/17/2014	H14 H14S01 1503115 Fill 4 - 6 3/6/2015
Preliminary Disposal Facility Category		MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type B	Hazardous Material Type B	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type A	Uncontaminated	MCP Regulated Type A	MCP Regulated Material Type B-2	Hazardous Material Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type A
RCRA 8 Metals	**Units**																								
Arsenic	mg/kg	<12.7	<12.8	69.3	71.7	<13.6	<16.4	<14.0	<12.2	<14.1	<12.1	20.8	43.4	20	17.3	22.1	<14.2	<10.9	7.73	2.56	<2.67	17.3	13.2	11.8	<6.29
Barium	mg/kg	16.9	19.9	107	97.9	104	119	91.1	53.2	32.6	15	63	108	123	87.2	117	81.2	54.9	14.7	3.44	4.29	129	80.8	74.5	17
Cadmium	mg/kg	<2.54	<2.55	6.47	14.9	<2.71	<3.28	<2.81	<2.45	<2.81	<2.42	2.63	11.7	<3.02	<2.82	<3.24	<2.85	<2.17	<0.49	<0.41	1.89	<0.62	<0.49	<0.41	<1.26
Chromium	mg/kg	23.7	33.1	23.9	13.3	60.9	65.3	48.1	22.2	19.2	19.4	32.8	5.43	63.8	55.1	59.6	50.7	28	21.5	64.3	7.56	50.3	45.6	36.7	36
Lead	mg/kg	<25.4	125	2340	2090	<27.1	<32.8	<28.1	<24.5	<28.1	<24.2	676	9420	<30.2	<28.2	<32.4	<28.5	<21.7	9.43	16	137	14.9	12.9	12.2	49.2
Selenium	mg/kg	<10.1	<10.2	<11.9	13.4	<10.8	<13.1	<11.2	<19.6	<18.0	<19.4	<10.2	15.6	<12.1	<11.3	<13.0	<11.4	<17.4	<14.8	<8.18	<10.7	<12.4	<9.70	<8.30	<6.29
Silver	mg/kg	<2.54	<2.55	17.8	8.73	<2.71	<3.28	<2.81	<2.45	<2.81	<2.42	2.89	34	<3.02	<2.82	<3.24	<2.85	<2.17	<0.49	<0.41	3.12	<0.62	<0.49	<0.41	<1.26
Mercury	mg/kg	<0.032	0.062	1.06	6.16	<0.039	<0.037	<0.041	<0.039	<0.038	<0.034	0.216	0.479	<0.043	<0.039	<0.041	<0.035	<0.036	<0.030	0.755	<0.035	<0.045	<0.036	<0.040	<0.025
Metals by Toxicity Characteristic Leaching Procedure (TCLP)																									
Arsenic	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead	mg/L	--	1.84	17.1	8.59	--	--	--	--	--	--	5.5	3.02	--	--	--	--	--	--	--	1.53	--	--	--	--
Selenium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	mg/L	--	--	--	<0.00050	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Herbicides																									
2,4,5-T	mg/kg	<0.053	<0.060	<0.056	<0.056	--	--	--	--	--	<0.053	<0.050	<0.063	--	--	--	--	--	<0.053	<0.053	<0.056	<0.062	<0.066	<0.060	<0.046
2,4-D	mg/kg	<0.053	<0.060	<0.056	<0.056	--	--	--	--	--	<0.053	<0.050	<0.063	--	--	--	--	--	<0.053	<0.053	<0.056	<0.062	<0.066	<0.060	<0.23
2,4-DB	mg/kg	<0.053	<0.060	<0.056	<0.056	--	--	--	--	--	<0.053	<0.050	<0.063	--	--	--	--	--	<0.053	<0.053	<0.056	<0.062	<0.066	<0.060	<0.017
Dalapon	mg/kg	<0.64	<0.72	<0.68	<0.68	--	--	--	--	--	<0.63	<0.61	<0.76	--	--	--	--	--	<0.64	<0.64	<0.68	<0.75	<0.80	<0.72	<1.4
Dicamba	mg/kg	<0.053	<0.060	<0.056	<0.056	--	--	--	--	--	<0.053	<0.050	<0.063	--	--	--	--	--	<0.053	<0.053	<0.056	<0.062	<0.066	<0.060	<0.069
Dichlorprop	mg/kg	<0.053	<0.060	<0.056	<0.056	--	--	--	--	--	<0.053	<0.050	<0.063	--	--	--	--	--	<0.053	<0.053	<0.056	<0.062	<0.066	<0.060	<0.15
Dinoseb	mg/kg	<0.32	<0.36	<0.34	<0.34	--	--	--	--	--	<0.32	<0.30	<0.38	--	--	--	--	--	<0.32	<0.32	<0.34	<0.37	<0.40	<0.36	<0.23
MCPA	mg/kg	<13	<14	<14	<14	--	--	--	--	--	<13	<12	<15	--	--	--	--	--	<13	<13	<14	<15	<16	<14	<57
MCPP	mg/kg	<13	<14	<14	<14	--	--	--	--	--	<13	<12	<15	--	--	--	--	--	<13	<13	<14	<15	<16	<14	<57
Silvex (2,4,5-TP)	mg/kg	<0.053	<0.060	<0.056	<0.056	--	--	--	--	--	<0.053	<0.050	<0.063	--	--	--	--	--	<0.053	<0.053	<0.056	<0.062	<0.066	<0.060	<0.046
Pesticides																									
4,4'-DDD	mg/kg	<0.0018	<0.0041	<0.0021	<0.0042	--	--	--	--	--	<0.0018	<0.0091	<0.011	--	--	--	--	--	<0.0018	<0.0019	<0.0019	<0.0021	<0.0023	<0.0021	<0.0019
4,4'-DDE	mg/kg	<0.0018	<0.0041	<0.0021	<0.0042	--	--	--	--	--	<0.0018	<0.0091	<0.011	--	--	--	--	--	<0.0018	<0.0019	<0.0019	<0.0021	<0.0023	<0.0021	<0.0019
4,4'-DDT	mg/kg	<0.0018	<0.0041	<0.0021	<0.0042	--	--	--	--	--	<0.0018	<0.0091	<0.011	--	--	--	--	--	<0.0018	<0.0019	<0.0019	<0.0021	<0.0023	<0.0021	<0.0019
Aldrin	mg/kg	<0.0018	<0.0041	<0.0021	<0.0042	--	--	--	--	--	<0.0018	<0.0091	<0.011	--	--	--	--	--	<0.0018	<0.0019	<0.0019	<0.0021	<0.0023	<0.0021	<0.0019
alpha-BHC	mg/kg	<0.0018	<0.0041	<0.0021	<0.0042	--	--	--	--	--	<0.0018	<0.0091	<0.011	--	--	--	--	--	<0.0018	<0.0019	<0.0019	<0.0021	<0.0023	<0.0021	<0.0019
beta-BHC	mg/kg	<0.0018	<0.0041	<0.0021	<0.0042	--	--	--	--	--	<0.0018	<0.0091	<0.011	--	--	--	--	--	<0.0018	<0.0019	<0.0019	<0.0021	<0.0023	<0.0021	<0.0019
Chlordane (technical)	mg/kg	<0.018	<0.041	<0.021	<0.042	--	--	--	--	--	<0.018	<0.091	<0.11	--	--	--	--	--	<0.018	<0.019	<0.019	<0.021	<0.023	<0.021	<0.019
delta-BHC	mg/kg	<0.0018	<0.0041	<0.0021	<0.0042	--	--	--	--	--	<0.0018	<0.0091	<0.011	--	--	--	--	--	<0.0018	<0.0019	<0.0019	<0.0021	<0.0023	<0.0021	<0.0019
Dieldrin	mg/kg	<0.0018	<0.0041	<0.0021	<0.0042	--	--	--	--	--	<0.0018	<0.0091	<0.011	--	--	--	--	--	<0.0018	<0.0019	<0.0019	<0.0021	<0.0023	<0.0021	<0.0019
Endosulfan I	mg/kg	<0.0018	<0.0041	<0.0021	<0.0042	--	--	--	--	--	<0.0018	<0.0091	<0.011	--	--	--	--	--	<0.0018	<0.0019	<0.0019	<0.0021	<0.0023	<0.0021	<0.0019
Endosulfan II	mg/kg	<0.0018	<0.0041	<0.0021	<0.0042	--	--	--	--	--	<0.0018	<0.0091	<0.011	--	--	--	--	--	<0.0018	<0.0019	<0.0019	<0.0021	<0.0023	<0.0021	<0.0019
Endosulfan sulfate	mg/kg	<0.0018	<0.0041	<0.0021	<0.0042	--	--	--	--	--	<0.0018	<0.0091	<0.011	--	--	--	--	--	<0.0018	<0.0019	<0.0019	<0.0021	<0.0023	<0.0021	<0.0019
Endrin	mg/kg	<0.0018	<0.0041	<0.0021	<0.0042	--	--	--	--	--	<0.0018	<0.0091	<0.011	--	--	--	--	--	<0.0018	<0.0019	<0.0019	<0.0021	<0.0023	<0.0021	<0.0019
Endrin ketone	mg/kg	<0.0018	<0.0041	<0.0021	<0.0042	--	--	--	--	--	<0.0018	<0.0091	<0.011	--	--	--	--	--	<0.0018	<0.0019	<0.0019	<0.0021	<0.0023	<0.0021	<0.0019
gamma-BHC (Lindane)	mg/kg	<0.0018	<0.0041	<0.0021	<0.0042	--	--	--	--	--	<0.0018	<0.0091	<0.011	--	--	--	--	--	<0.0018	<0.0019	<0.0019	<0.0021	<0.0023	<0.0021	<0.0019
Heptachlor	mg/kg	<0.0018	<0.0041	<0.0021	<0.0042	--	--	--	--	--	<0.0018	<0.0091	<0.011	--	--	--	--	--	<0.0018	<0.0019	<0.0019	<0.0021	<0.0023	<0.0021	<0.0019
Heptachlor epoxide	mg/kg	<0.0018	<0.0041	<0.0021	<0.0042	--	--	--	--	--	<0.0018	<0.0091	<0.011	--	--	--	--	--	<0.0018	<0.0019	<0.0019	<0.0021	<0.0023	<0.0021	<0.0019
Hexachlorobenzene	mg/kg	<0.0018	<0.0041	<0.0021	<0.0042	--	--	--	--	--	<0.0018	<0.0091	<0.011	--	--	--	--	--	<0.0018	<0.0019	<0.0019	<0.0021	<0.0023	<0.0021	<0.0019
Methoxychlor	mg/kg	<0.0018	<0.0041	<0.0021	<0.0042	--	--	--	--	--	<0.0018	<0.0091	<0.011	--	--	--	--	--	<0.0018	<0.0019	<0.0019	<0.0021	<0.0023	<0.0021	<0.0019
Polychlorinated Biphenyls																									
Aroclor 1016	mg/kg	<0.122	<0.132	<0.153	<0.152	<0.156	<0.157	<0.155	<0.145	<0.148	<0.121	<0.126	<0.140	<0.156	<0.157	<0.162	<0.146	<0.150	<0.195	<0.196	<0.224	<0.267	<0.264	<0.251	<0.122
Aroclor 1221	mg/kg	<0.122	<0.132	<0.153	<0.152	<0.156	<0.157	<0.155	<0.145	<0.148	<0.121	<0.126	<0.140	<0.156	<0.157	<0.162	<0.146	<0.150	<0.195	<0.196	<0.224	<0.267	<0.264	<0.251	<0.122
Aroclor 1232	mg/kg	<0.122	<0.132	<0.153	<0.152	<0.156	<0.157	<0.155	<0.145	<0.148	<0.121	<0.126	<0.140	<0.156	<0.157	<0.162	<0.146	<0.150	<0.195	<0.196	<0.224	<0.267	<0.264	<0.251	<0.122
Aroclor 1242	mg/kg	<0.122	<0.132	<0.153	<0.152	<0.156	<0.157	<0.155	<0.145	<0.148	<0.121	<0.126	<0.140	<0.156	<0.157	<0.162	<0.146	<0.150	<0.195	<0.196	<0.224	<0.267	<0.264	<0.251	<0.122
Aroclor 1248	mg/kg	<0.122	<0.132	<0.153	<0.152	<0.156	<0.157	<0.155	<0.145	<0.148	<0.121	<0.126	<0.140	<0.156	<0.157	<0.162	<0.146	<0.150	<0.195	<0.196	<0.224	<0.267	<0.264	<0.251	<0.122
Aroclor 1254	mg/kg	<0.122	<0.132	<0.153	<0.152	<0.156	<0.157	<0.155	<0.145	<0.148	<0.121	<0.126	<0.140	<0.156	<0.157	<0.162	<0.146	<0.150	<0.195	<0.196	<0.224	<0.267	<0.264	<0.251	<0.122
Aroclor 1260	mg/kg	<0.122	<0.132	<0.153	<0.152	<0.156	<0.157	<0.155	<0.145	<0.148	<0.121	<0.126	<0.140	<0.156	<0.157	<0.162	<0.146	<0.150	<0.195	<0.196	<0.224	<0.267	<0.264	<0.251	<0.122
Aroclor 1262	mg/kg	<0.122	<0.132	<0.153	<0.152	<0.156	<0.157	<0.155	<0.145	<0.148	<0.121	<0.126	<0.140	<0.156	<0.157	<0.162	<0.146	<0.150	<0.195	<0.196	<0.224	<0.267	<0.264	<0.251	<0.122
Aroclor 1268	mg/kg	<0.122	<0.132	<0.153	<0.152	<0.156	<0.157	<0.155	<0.145	<0.148	<0.121	<0.126	<0.140	<0.156	<0.157	<0.162	<0.146	<0.150	<0.195	<0.196	<0.224	<0.267	<0.264	<0.251	<0.122
Total PCBs	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Petroleum Hydrocarbons	mg/kg	<41.8	45.6	92.2	79.3	<49.5	<52.2	<48.1	<48.0	<44.9	<41.2	104	43.2	<51.9	<50.4	<53.0	<45.9	<48.0	<41.9	<43.6	<41.5	<53.4	<53.9	<49.3	128
Volatile Organic Compounds (VOCs)																									
1,1,1,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0790
1,1,1-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0395
1,1,2,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0395
1,1,2-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0395
1,1-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0395
1,1-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0395
1,1-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0395
1,2,3-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0395
1,2,3-Trichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0395
1,2,4-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0395
1,2,4-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0395
1,2-Dibromo-3-Chloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.158
1,2-Dibromoethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0395
1,2-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0395
1,2-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0395
1,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0395
1,3,5-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0395
1,3-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0395
1,3-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0395
1,4-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0395
1,4-Dioxane - Screen	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<3.95
2,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0790
2-Butanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.158
2-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0395
2-Hexanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.158
4-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0395
4-Isopropyltoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0395
4-Methyl-2-Pentanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.158
Acetone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.158
Benzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0395
Bromobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0395
Bromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0395
Bromodichloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0395
Bromoform	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0395
Bromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0790
Carbon Disulfide	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0395
Carbon Tetrachloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0395

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	H12 H12S01S02A 1501169 Fill 0 - 3.3 1/9/2015	H12 H12S02BS04A 1501169 Fill 3.3 - 6.6 1/9/2015	H12 H12S04BS05 1501167 Fill 6.6 - 10 1/9/2015	H12 H12S06 1501167 Fill 10 - 12 1/9/2015	H12 H12S08 1501192 Natural Clay 14 - 16 1/12/2015	H12 H12S09 1501192 Natural Clay 19 - 21 1/12/2015	H12 H12S10 1501192 Natural Clay 24 - 26 1/12/2015	H12 H12S11 1501192 Natural Sand/Gravel 29 - 31 1/12/2015	H12 H12S12S13 1501192 Natural Sand/Gravel 34 - 38 1/12/2015	H13 H13S01S02A 1501169 Fill 0 - 3.3 1/9/2015	H13 H13S02BS04A 1501169 Fill 3.3 - 6.6 1/9/2015	H13 H13S04BS05 1501169 Fill 6.6 - 10 1/9/2015	H13 H13S06 1501169 Natural Clay 14 - 16 1/9/2015	H13 H13S07 1501169 Natural Clay 19 - 21 1/9/2015	H13 H13S08 1501169 Natural Clay 24 - 26 1/9/2015	H13 H13S09 1501169 Natural Clay 29 - 31 1/9/2015	H13 H13S10S11 1501169 Natural Sand/Gravel 34 - 38 1/9/2015	H14 GZ012S01S02 1411323 Fill 0 - 4 11/14/2014	H14 GZ012S03S05 1411323 Fill 4 - 10 11/14/2014	H14 GZ012S06S08 1411323 Natural Sand/Gravel 10 - 16 11/14/2014	H14 GZ012S09S10 1411363 Natural Clay 19 - 26 11/17/2014	H14 GZ012S11S12 1411363 Natural Clay 29 - 36 11/17/2014	H14 GZ012S13S14 1411363 Natural Clay 39 - 46 11/17/2014	H14 H14S01 1503115 Fill 4 - 6 3/6/2015
Preliminary Disposal Facility Category		MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type B	Hazardous Material Type B	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type A	Uncontaminated	MCP Regulated Type A	MCP Regulated Material Type B-2	Hazardous Material Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type A
Chlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0395
Chloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0790
Chloroform	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0395
Chloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0790
cis-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0395
cis-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0395
Dibromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0395
Dibromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0395
Dichlorodifluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0395
Diethyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0395
Di-isopropyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0395
Ethyl tertiary-butyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0395
Ethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0395
Hexachlorobutadiene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0395
Isopropylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0395
Methyl tert-Butyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0395
Methylene Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.158
Naphthalene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.13
n-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0395
n-Propylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0395
sec-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0395
Styrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0395
tert-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0395
Tertiary-amyl methyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0395
Tetrachloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0395
Tetrahydrofuran	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.158
Toluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0395
trans-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0395
trans-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0395
Trichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0395
Trichlorofluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0395
Vinyl Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0395
Xylene O	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0395
Xylene P,M	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0790
Xylenes (Total)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0790
Total VOCs	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.13
Volatile Organic Compounds - Low Level Analysis																									
1,1,1,2-Tetrachloroethane	mg/kg	<0.0050	<0.0037	<0.0050	<0.0041	<0.0042	<0.0043	<0.0041	<0.0038	<0.0036	<0.0052	<0.0041	<0.0036	<0.0043	<0.0047	<0.0047	<0.0039	<0.0035	<0.0045	<0.0033	<0.0035	<0.0043	<0.0032	<0.0040	<0.0031
1,1,1-Trichloroethane	mg/kg	<0.0050	<0.0037	<0.0050	<0.0041	<0.0042	<0.0043	<0.0041	<0.0038	<0.0036	<0.0052	<0.0041	<0.0036	<0.0043	<0.0047	<0.0047	<0.0039	<0.0035	<0.0045	<0.0033	<0.0035	<0.0043	<0.0032	<0.0040	<0.0031
1,1,2,2-Tetrachloroethane	mg/kg	<0.0020	<0.0015	<0.0020	<0.0016	<0.0017	<0.0017	<0.0016	<0.0015	<0.0015	<0.0021	<0.0016	<0.0015	<0.0017	<0.0019	<0.0019	<0.0016	<0.0014	<0.0018	<0.0013	<0.0014	<0.0017	<0.0013	<0.0016	<0.0012
1,1,2-Trichloroethane	mg/kg	<0.0050	<0.0037	<0.0050	<0.0041	<0.0042	<0.0043	<0.0041	<0.0038	<0.0036	<0.0052	<0.0041	<0.0036	<0.0043	<0.0047	<0.0047	<0.0039	<0.0035	<0.0045	<0.0033	<0.0035	<0.0043	<0.0032	<0.0040	<0.0031
1,1-Dichloroethane	mg/kg	<0.0050	<0.0037	<0.0050	<0.0041	<0.0042	<0.0043	<0.0041	<0.0038	<0.0036	<0.0052	<0.0041	<0.0036	<0.0043	<0.0047	<0.0047	<0.0039	<0.0035	<0.0045	<0.0033	<0.0035	<0.0043	<0.0032	<0.0040	<0.0031
1,1-Dichloroethene	mg/kg	<0.0050	<0.0037	<0.0050	<0.0041	<0.0042	<0.0043	<0.0041	<0.0038	<0.0036	<0.0052	<0.0041	<0.0036	<0.0043	<0.0047	<0.0047	<0.0039	<0.0035	<0.0045	<0.0033	<0.0035	<0.0043	<0.0032	<0.0040	<0.0031
1,1-Dichloropropene	mg/kg	<0.0050	<0.0037	<0.0050	<0.0041	<0.0042	<0.0043	<0.0041	<0.0038	<0.0036	<0.0052	<0.0041	<0.0036	<0.0043	<0.0047	<0.0047	<0.0039	<0.0035	<0.0045	<0.0033	<0.0035	<0.0043	<0.0032	<0.0040	<0.0031
1,2,3-Trichlorobenzene	mg/kg	<0.0050	<0.0037	<0.0050	<0.0041	<0.0042	<0.0043	<0.0041	<0.0038	<0.0036	<0.0052	<0.0041	<0.0036	<0.0043	<0.0047	<0.0047	<0.0039	<0.0035	<0.0045	<0.0033	<0.0035	<0.0043	<0.0032	<0.0040	<0.0031
1,2,3-Trichloropropane	mg/kg	<0.0050	<0.0037	<0.0050	<0.0041	<0.0042	<0.0043	<0.0041	<0.0038	<0.0036	<0.0052	<0.0041	<0.0036	<0.0043	<0.0047	<0.0047	<0.0039	<0.0035	<0.0045	<0.0033	<0.0035	<0.0043	<0.0032	<0.0040	<0.0031
1,2,4-Trichlorobenzene	mg/kg	<0.0050	<0.0037	<0.0050	<0.0041	<0.0042	<0.0043	<0.0041	<0.0038	<0.0036	<0.0052	<0.0041	<0.0036	<0.0043	<0.0047	<0.0047	<0.0039	<0.0035	<0.0045	<0.0033	<0.0035	<0.0043	<0.0032	<0.0040	<0.0031
1,2,4-Trimethylbenzene	mg/kg	<0.0050	<0.0037	<0.0050	<0.0041	<0.0042	<0.0043	<0.0041	<0.0038	<0.0036	<0.0052	<0.0041	<0.0036	<0.0043	<0.0047	<0.0047	<0.0039	<0.0035	<0.0045	<0.0033	<0.0035	<0.0043	<0.0032	<0.0040	<0.0031
1,2-Dibromo-3-Chloropropane	mg/kg	<0.0050	<0.0037	<0.0050	<0.0041	<0.0042	<0.0043	<0.0041	<0.0038	<0.0036	<0.0052	<0.0041	<0.0036	<0.0043	<0.0047	<0.0047	<0.0039	<0.0035	<0.0045	<0.0033	<0.0035	<0.0043	<0.0032	<0.0040	<0.0031
1,2-Dibromoethane	mg/kg	<0.0050	<0.0037	<0.0050	<0.0041	<0.0042	<0.0043	<0.0041	<0.0038	<0.0036	<0.0052	<0.0041	<0.0036	<0.0043	<0.0047	<0.0047	<0.0039	<0.0035	<0.0045	<0.0033	<0.0035	<0.0043	<0.0032	<0.0040	<0.0031
1,2-Dichlorobenzene	mg/kg	<0.0050	<0.0037	<0.0050	<0.0041	<0.0042	<0.0043	<0.0041	<0.0038	<0.0036	<0.0052	<0.0041	<0.0036	<0.0043	<0.0047	<0.0047	<0.0039	<0.0035	<0.0045	<0.0033	<0.0035	<0.0043	<0.0032	<0.0040	<0.0031
1,2-Dichloroethane	mg/kg	<0.0050	<0.0037	<0.0050	<0.0041	<0.0042	<0.0043	<0.0041	<0.0038	<0.0036	<0.0052	<0.0041	<0.0036	<0.0043	<0.0047	<0.0047	<0.0039	<0.0035	<0.0045	<0.0033	<0.0035	<0.0043	<0.0032	<0.0040	<0.0031
1,2-Dichloropropane	mg/kg	<0.0050	<0.0037	<0.0050	<0.0041	<0.0042	<0.0043	<0.0041	<0.0038	<0.0036	<0.0052	<0.0041	<0.0036	<0.0043	<0.0047	<0.0047	<0.0039	<0.0035	<0.0045	<0.0033	<0.0035	<0.0043	<0.0032	<0.0040	<0.0031
1,3,5-Trimethylbenzene	mg/kg	<0.0050	<0.0037	<0.0050	<0.0041	<0.0042	<0.0043	<0.0041	<0.0038	<0.0036	<0.0052	<0.0041	<0.0036	<0.0043	<0.0047	<0.0047	<0.0039	<0.0035	<0.0045	<0.0033	<0.0035	<0.0043	<0.0032	<0.0040	<0.0031
1,3-Dichlorobenzene	mg/kg	<0.0050	<0.0037	<0.0050	<0.0041	<0.0042	<0.0043	<0.0041	<0.0038	<0.0036	<0.0052	<0.0041	<0.0036	<0.0043	<0.0047	<0.0047	<0.0039	<0.0035	<0.0045	<0.0033	<0.0035	<0.0043	<0.0032	<0.0040	<0.0031
1,3-Dichloropropane	mg/kg	<0.0050	<0.0037	<0.0050	<0.0041	<0.0042	<0.0043	<0.0041	<0.0038	<0.0036	<0.0052	<0.0041	<0.0036	<0.0043	<0.0047	<0.0047	<0.0039	<0.0035	<0.0045	<0.0033	<0.0035	<0.0043	<0.0032	<0.0040	<0.0031
1,4-Dichlorobenzene	mg/kg	<0.0050	<0.0037	<0.0050	<0.0041	<0.0042	<0.0043	<0.0041	<0.0038	<0.0036	<0.0052	<0.0041	<0.0036	<0.0043	<0.0047	<0.0047	<0.0039	<0.0035	<0.0045	<0.0033	<0.0035	<0.0043	<0.0032	<0.0040	<0.0031
1,4-Dioxane	mg/kg	<0.101	<0.0739	<0.0998	<0.0819	<0.0842	<0.0861	<0.0816	<0.0757	<0.0727	<0.103	<0.0812	<0.0726	<0.0851	<0.0942	<0.0933	<0.0776	<0.0698	<0.0909	<0.0669	<0.0707	<0.0863	<0.0642	<0.0801	<0.0619
2,2-Dichloropropane	mg/kg	<0.0050	<0.0037	<0.0050	<0.0041	<0.0042	<0.0043	<0.0041	<0.0038	<0.0036	<0.0052	<0.0041	<0.0036	<0.0043	<0.0047	<0.0047	<0.0039	<0.0035	<0.0045	<0.0033	<0.0035	<0.0043	<0.0032	<0.0040	<0.0031
2-Butanone	mg/kg	<0.0101	<0.0074	<0.0100	<0.0082	<0.0084	<0.0086	<0.0082	<0.0076	<0.0073	<0.0103	<0.0081	<0.0073	<0.0085	<0.0094	<0.0093	<0.0078	<0.0070	<0.0091	<0.0067	<0.0071	<0.0086	<0.0064	<0.0080	<0.0062
2-Chlorotoluene	mg/kg	<0.0050	<0.0037	<0.0050	<0.0041	<0.0042	<0.0043	<0.0041	<0.0038	<0.0036	<0.0052	<0.0041	<0.0036	<0.0043	<0.0047	<0.0047	<0.0039	<0.0035	<0.0045	<0.0033	<0.0035	<0.0043	<0.0032	<0.0040	<0.0031
2-Hexanone	mg/kg	<0.0101	<0.0074	<0.0100	<0.0082	<0.0084	<0.0086	<0.0082	<0.0076	<0.0073	<0.0103	<0.0081	<0.0073	<0.0085	<0.0094	<0.0093	<0.0078	<0.0070	<0.0091	<0.0067	<0.0071	<0.0086	<0.0064	<0.0080	<0.0062
4-Chlorotoluene	mg/kg	<0.0050	<0.0037	<0.0050	<0.0041	<0.0042	<0.0043	<0.0041	<0.0038	<0.0036	<0.0052	<0.0041	<0.0036	<0.0043	<0.0047	<0.0047	<0.0039	<0.0035	<0.0045	<0.0033	<0.0035	<0.0043	<0.0032	<0.0040	<0.0031
4-Isopropyltoluene	mg/kg	<0.0050	<0.0037	<0.0050	<0.0041	<0.0042	<0.0043	<0.0041	<0.0038	<0.0036	<0.0052	<0.0041	<0.0036	<0.0043	<0.0047	<0.0047	<0.0039	<0.0035	<0.0045	<0.0033	<0.0035	<0.0043	<0.0032	<0.0040	<0.0031
4-Methyl-2-Pentanone	mg/kg	<0.0101	<0.0074	<0.0100	<0.0082	<0.0084	<0.0086	<0.0082	<0.0076	<0.0073	<0.0103	<0.0081	<0.0073	<0.0085	<0.0094	<0.0093	<0.0078	<0.0070	<0.0091	<0.0067	<0.0071	<0.0086	<0.0064	<0.0080	<0.0062
Acetone	mg/kg	<0.0101	<0.0074	0.0421	0.0436	0.0221	<0.0086	<0.0082	<0.0076	<0.0073	<0.0103	<0.0081	0.0186	0.0124	<0.0094	<0.0093	<0.0078	<0.0070	<0.0091	<0.0067	0.037	<0.0086	<0.0064	<0.0080	<0.0062
Benzene	mg/kg	<0.0050	<0.0037	<0.0050	<0.0041	<0.0042	<0.0043	<0.0041	<0.0038	<0.0036	<0.0052	<0.0041	<0.0036	<0.0043	<0.0047	<0.0047	<0.0039	<0.0035	<0.0045	<0.0033	<0.0035	<0.0043	<0.0032	<0.0040	<0.0031
Bromobenzene	mg/kg	<0.0050	<0.0037	<0.0050	<0.0041	<0.0042	<0.0043	<0.0041	<0.0038	<0.0036	<0.0052	<0.0041	<0.0036	<0.0043	<0.0047	<0.0047	<0.0039	<0.0035	<0.0045	<0.0033	<0.0035	<0.0043	<0.0032	<0.0040	<0.0031
Bromochloromethane	mg/kg	<0.0050	<0.0037	<0.0050	<0.0041	<0.0042	<0.0043	<0.0041	<0.0038	<0.0036	<0.0052	<0.0041	<0.0036	<0.0043	<0.0047	<0.0047	<0.0039	<0.0035	<0.0045	<0.0033	<0.0035	<0.0043	<0.0032	<0.0040	<0.0031
Bromodichloromethane	mg/kg	<0.0050	<0.0037	<0.0050	<0.0041	<0.0042	<0.0043	<0.0041	<0.0038	<0.0036	<0.0052	<0.0041	<0.0036	<0.0043	<0.0047	<0.0047	<0.0039	<0.0035	<0.0045	<0.0033	<0.0035	<0.0043	<0.0032	<0.0040	<0.0031
Bromoform	mg/kg	<0.0050	<0.0037	<0.0050	<0.0041	<0.0042	<0.0043	<0.0041	<0.0038	<0.0036	<0.0052	<0.0041	<0.0036	<0.0043	<0.0047	<0.0047	<0.0039	<0.0035	<0.0045	<0.0033	<0.0035	<0.0043	<0.0032	<0.0040	<0.0031
Bromomethane	mg/kg	<0.0101	<0.0074	<0.0100	<0.0082	<0.0084	<0.0086	<0.0082	<0.0076	<0.0073	<0.0103	<0.0081	<0.0073	<0.0085	<0.0094	<0.0093	<0.0078	<0.0070	<0.0091	<0.0067	<0.0071	<0.0086	<0.0064	<0.0080	<0.0062
Carbon Disulfide	mg/kg	<0.0050	<0.0037	<0.0050	<0.0041	<0.0042	<0.0043	<0.0041	<0.0038	<0.0036	<0.0052	<0.0041	<0.0036	<0.0043	<0.0047	<0.0047	<0.0039	<0.0035	<0.0045	<0.0033	<0.0035	<0.0043	<0.0032	<0.0040	<0.0031
Carbon Tetrachloride	mg/kg	<0.0050	<0.0037	<0.0050	<0.0041	<0.0042	<0.0043	<0.0041	<0.0038	<0.0036	<0.0052	<0.0041	<0.0036	<0.0043	<0.0047	<0.0047	<0.0039	<0.0035	<0.0045	<0.0033	<0.0035	<0.0043	<0.0032	<0.0040	<0.0031
Chlorobenzene	mg/kg	<0.0050	<0.0037	<0.0050	<0.0041	<0.0042	<0.0043	<0.0041	<0.0038	<0.0036	<0.0052	<0.0041	<0.0036	<0.0043	<0.0047	<0.0047	<0.0039	<0.0035	<0.0045	<0.0033	<0.0035	<0.0043	<0.0032	<0.0040	<0.0031
Chloroethane	mg/kg	<0.0101	<0.0074	<0.0100	<0.0082	<0.0084	<0.0086	<0.0082	<0.0076	<0.0073	<0.0103	<0.0081	<0.0073	<0.0085	<0.0094	<0.0093	<0.0078	<0.0070	<0.0091	<0.0067	<0.0071	<0.0086	<0.0064	<0.0080	<0.0062
Chloroform	mg/kg	<0.0050	<0.0037	<0.0050	<0.0041	<0.0042	<0.0043	<0.0041	<0.0038	<0.0036	<0.0052	<0.0041	<0.0036	<0.0043	<0.0047	<0.0047	<0.0039	<0.0035	<0.0045	<0.0033	<0.0035	<0.0043	<0.0032	<0.0040	<0.0031
Chloromethane	mg/kg	<0.0101	<0.0074	<0.0100	<0.0082	<0.0084	<0.0086	<0.0082	<0.0076	<0.0073	<0.0103	<0.0081	<0.0073	<0.0085	<0.0094	<0.0093	<0.0078	<0.0070	<0.0091	<0.0067	<0.0071	<0.0086	<0.0064	<0.0080	<0.0062
cis-1,2-Dichloroethene	mg/kg	<0.0050	<0.0037	<0.0050	<0.0041	<0.0042	<0.0043	<0.0041	<0.0038	<0.0036	<0.0052	<0.0041	<0.0036	<0.0043	<0.0047	<0.0047	<0.0039	<0.0035	<0.0045	<0.0033	<0.0035	<0.0043	<0.0032	<0.0040	<0.0031
cis-1,3-Dichloropropene	mg/kg	<0.0050	<0.0037	<0.0050	<0.0041	<0.0042	<0.0043	<0.0041	<0.0038	<0.0036	<0.0052	<0.0041	<0.0036	<0.0043	<0.0047	<0.0047	<0.0039	<0.0035	<0.0045	<0.0033	<0.0035	<0.0043	<0.0032	<0.0040	<0.0031
Dibromochloromethane	mg/kg	<0.0020	<0.0015	<0.0020	<0.0016	<0.0017	<0.0017	<0.0016	<0.0015	<0.0015	<0.0021	<0.0016	<0.0015	<0.0017	<0.0019	<0.0019	<0.0016	<0.0014	<0.0018	<0.0013	<0.0014	<0.0017	<0.0013	<0.0016	<0.0012
Dibromomethane	mg/kg	<0.0050	<0.0037	<0.0050	<0.0041	<0.0042	<0.0043	<0.0041	<0.0038	<0.0036	<0.0052	<0.0041	<0.0036	<0.0043	<0.0047	<0.0047	<0.0039	<0.0035	<0.0045	<0.0033	<0.0035	<0.0043	<0.0032	<0.0040	<0.0031
Dichlorodifluoromethane	mg/kg	<0.0101	<0.0074	<0.0100	<0.0082	<0.0084	<0.0086	<0.0082	<0.0076	<0.0073	<0.0103	<0.0081	<0.0073	<0.0085	<0.0094	<0.0093	<0.0078	<0.0070	<0.0091	<0.0067	<0.0071	<0.0086	<0.0064	<0.0080	<0.0062
Diethyl Ether	mg/kg	<0.0050	<0.0037	<0.0050	<0.0041	<0.0042	<0.0043	<0.0041	<0.0038	<0.0036	<0.0052	<0.0041	<0.0036	<0.0043	<0.0047	<0.0047	<0.0039	<0.0035	<0.0045	<0.0033	<0.0035	<0.0043	<0.0032	<0.0040	<0.0031
Di-isopropyl ether	mg/kg	<0.0050	<0.0037	<0.0050	<0.0041	<0.0042	<0.0043	<0.0041	<0.0038	<0.0036	<0.0052	<0.0041	<0.0036	<0.0043	<0.0047	<0.0047	<0.0039	<0.0035	<0.0045	<0.0033	<0.0035	<0.0043	<0.0032	<0.0040	<0.0031
Ethyl tertiary-butyl ether	mg/kg	<0.0050	<0.0037	<0.0050	<0.0041	<0.0042	<0.0043	<0.0041	<0.0038	<0.0036	<0.0052	<0.0041	<0.0036	<0.0043	<0.0047	<0.0047	<0.0039	<0.0035	<0.0045	<0.0033	<0.0035	<0.0043	<0.0032	<0.0040	<0.0031
Ethylbenzene	mg/kg	<0.0050	<0.0037	<0.0050	<0.0041	<0.0042	<0.0043	<0.0041	<0.0038	<0.0036	<0.0052	<0.0041	<0.0036	<0.0043	<0.0047	<0.0047	<0.0039	<0.0035	<0.0045	<0.0033	<0.0035	<0.0043	<0.0032	<0.0040	<0.0031
Hexachlorobutadiene	mg/kg	<0.0050	<0.0037	<0.0050	<0.0041	<0.0042	<0.0043	<0.0041	<0.0038	<0.0036	<0.0052	<0.0041	<0.0036	<0.0043	<0.0047	<0.0047	<0.0039	<0.0035	<0.0045	<0.0033	<0.0035	<0.0043	<0.0032	<0.0040	<0.0031
Isopropylbenzene	mg/kg	<0.0050	<0.0037	<0.0050	<0.0041	<0.0042	<0.0043	<0.0041	<0.0038	<0.0036	<0.0052	<0.0041	<0.0036	<0.0043	<0.0047	<0.0047	<0.0039	<0.0035	<0.0045	<0.0033	<0.0035	<0.0043	<0.0032	<0.0040	<0.0031
Methyl tert-Butyl Ether	mg/kg	<0.0050	<0.0037	<0.0050	<0.0041	<0.0042	<0.0043	<0.0041	<0.0038	<0.0036	<0.0052	<0.0041	<0.0036	<0.0043	<0.0047	<0.0047	<0.0039	<0.0035	<0.0045	<0.0033	<0.0035	<0.0043	<0.0032	<0.0040	<0.0031
Methylene Chloride	mg/kg	<0.0101	<0.0074	<0.0100	<0.0082	<0.0084	<0.0086	<0.0082	<0.0076	<0.0073	<0.0103	<0.0081	<0.0073	<0.0085	<0.0094	<0.0093	<0.0078	<0.0070	<0.0091	<0.0067	<0.0071	<0.0086	<0.0064	<0.0080	<0.0062
Naphthalene	mg/kg	<0.0050	<0.0037	<0.0050	<0.0041	<0.0042	<0.0043	<0.0041	<0.0038	<0.0036	<0.0052	<0.0041	<0.0036	<0.0043	<0.0047	<0.0047	<0.0039	<0.0035	<0.0045	<0.0033	<0.0035	<0.0043	<0.0032	<0.0040	0.81
n-Butylbenzene	mg/kg	<0.0050	<0.0037	<0.0050	<0.0041	<0.0042	<0.0043	<0.0041	<0.0038	<0.0036	<0.0052	<0.0041	<0.0036	<0.0043	<0.0047	<0.0047	<0.0039	<0.0035	<0.0045	<0.0033	<0.0035	<0.0043	<0.0032	<0.0040	<0.0031
n-Propylbenzene	mg/kg	<0.0050	<0.0037	<0.0050	<0.0041	<0.0042	<0.0043	<0.0041	<0.0038	<0.0036	<0.0052	<0.0041	<0.0036	<0.0043	<0.0047	<0.0047	<0.0039	<0.0035	<0.0045	<0.0033	<0.0035	<0.0043	<0.0032	<0.0040	<0.0031
sec-Butylbenzene	mg/kg	<0.0050	<0.0037	<0.0050	<0.0041	<0.0042	<0.0043	<0.0041	<0.0038	<0.0036	<0.0052	<0.0041	<0.0036	<0.0043	<0.0047	<0.0047	<0.0039	<0.0035	<0.0045	<0.0033	<0.0035	<0.0043	<0.0032	<0.0040

Table 1
Soil Precharacterization Data

Wynn Resort Casino
Everett, Massachusetts

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	H12 H12S01S02A 1501169 Fill 0 - 3.3 1/9/2015	H12 H12S02BS04A 1501169 Fill 3.3 - 6.6 1/9/2015	H12 H12S04BS05 1501167 Fill 6.6 - 10 1/9/2015	H12 H12S06 1501167 Fill 10 - 12 1/9/2015	H12 H12S08 1501192 Natural Clay 14 - 16 1/12/2015	H12 H12S09 1501192 Natural Clay 19 - 21 1/12/2015	H12 H12S10 1501192 Natural Clay 24 - 26 1/12/2015	H12 H12S11 1501192 Natural Sand/Gravel 29 - 31 1/12/2015	H12 H12S12S13 1501192 Natural Sand/Gravel 34 - 38 1/12/2015	H13 H13S01S02A 1501169 Fill 0 - 3.3 1/9/2015	H13 H13S02BS04A 1501169 Fill 3.3 - 6.6 1/9/2015	H13 H13S04BS05 1501169 Fill 6.6 - 10 1/9/2015	H13 H13S06 1501169 Natural Clay 14 - 16 1/9/2015	H13 H13S07 1501169 Natural Clay 19 - 21 1/9/2015	H13 H13S08 1501169 Natural Clay 24 - 26 1/9/2015	H13 H13S09 1501169 Natural Clay 29 - 31 1/9/2015	H13 H13S10S11 1501169 Natural Sand/Gravel 34 - 38 1/9/2015	H14 GZ012S01S02 1411323 Fill 0 - 4 11/14/2014	H14 GZ012S03S05 1411323 Fill 4 - 10 11/14/2014	H14 GZ012S06S08 1411323 Natural Sand/Gravel 10 - 16 11/14/2014	H14 GZ012S09S10 1411363 Natural Clay 19 - 26 11/17/2014	H14 GZ012S11S12 1411363 Natural Clay 29 - 36 11/17/2014	H14 GZ012S13S14 1411363 Natural Clay 39 - 46 11/17/2014	H14 H14S01 1503115 Fill 4 - 6 3/6/2015
Preliminary Disposal Facility Category		MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type B	Hazardous Material Type B	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type A	Uncontaminated	MCP Regulated Type A	MCP Regulated Material Type B-2	Hazardous Material Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type A
Styrene	mg/kg	<0.0050	<0.0037	<0.0050	<0.0041	<0.0042	<0.0043	<0.0041	<0.0038	<0.0036	<0.0052	<0.0041	<0.0036	<0.0043	<0.0047	<0.0047	<0.0039	<0.0035	<0.0045	<0.0033	<0.0035	<0.0043	<0.0032	<0.0040	0.006
tert-Butylbenzene	mg/kg	<0.0050	<0.0037	<0.0050	<0.0041	<0.0042	<0.0043	<0.0041	<0.0038	<0.0036	<0.0052	<0.0041	<0.0036	<0.0043	<0.0047	<0.0047	<0.0039	<0.0035	<0.0045	<0.0033	<0.0035	<0.0043	<0.0032	<0.0040	<0.0031
Tertiary-amyl methyl ether	mg/kg	<0.0050	<0.0037	<0.0050	<0.0041	<0.0042	<0.0043	<0.0041	<0.0038	<0.0036	<0.0052	<0.0041	<0.0036	<0.0043	<0.0047	<0.0047	<0.0039	<0.0035	<0.0045	<0.0033	<0.0035	<0.0043	<0.0032	<0.0040	<0.0031
Tetrachloroethene	mg/kg	<0.0050	<0.0037	<0.0050	<0.0041	<0.0042	<0.0043	<0.0041	<0.0038	<0.0036	<0.0052	<0.0041	<0.0036	<0.0043	<0.0047	<0.0047	<0.0039	<0.0035	<0.0045	<0.0033	<0.0035	<0.0043	<0.0032	<0.0040	<0.0031
Tetrahydrofuran	mg/kg	<0.0050	<0.0037	<0.0050	<0.0041	<0.0042	<0.0043	<0.0041	<0.0038	<0.0036	<0.0052	<0.0041	<0.0036	<0.0043	<0.0047	<0.0047	<0.0039	<0.0035	<0.0045	<0.0033	<0.0035	<0.0043	<0.0032	<0.0040	<0.0031
Toluene	mg/kg	<0.0050	<0.0037	<0.0050	<0.0041	<0.0042	<0.0043	<0.0041	<0.0038	<0.0036	<0.0052	<0.0041	<0.0036	<0.0043	<0.0047	<0.0047	<0.0039	<0.0035	<0.0045	<0.0033	<0.0035	<0.0043	<0.0032	<0.0040	<0.0031
trans-1,2-Dichloroethene	mg/kg	<0.0050	<0.0037	<0.0050	<0.0041	<0.0042	<0.0043	<0.0041	<0.0038	<0.0036	<0.0052	<0.0041	<0.0036	<0.0043	<0.0047	<0.0047	<0.0039	<0.0035	<0.0045	<0.0033	<0.0035	<0.0043	<0.0032	<0.0040	<0.0031
trans-1,3-Dichloropropene	mg/kg	<0.0050	<0.0037	<0.0050	<0.0041	<0.0042	<0.0043	<0.0041	<0.0038	<0.0036	<0.0052	<0.0041	<0.0036	<0.0043	<0.0047	<0.0047	<0.0039	<0.0035	<0.0045	<0.0033	<0.0035	<0.0043	<0.0032	<0.0040	<0.0031
Trichloroethene	mg/kg	<0.0050	<0.0037	<0.0050	<0.0041	<0.0042	<0.0043	<0.0041	<0.0038	<0.0036	<0.0052	<0.0041	<0.0036	<0.0043	<0.0047	<0.0047	<0.0039	<0.0035	<0.0045	<0.0033	<0.0035	<0.0043	<0.0032	<0.0040	<0.0031
Trichlorofluoromethane	mg/kg	<0.0050	<0.0037	<0.0050	<0.0041	<0.0042	<0.0043	<0.0041	<0.0038	<0.0036	<0.0052	<0.0041	<0.0036	<0.0043	<0.0047	<0.0047	<0.0039	<0.0035	<0.0045	<0.0033	<0.0035	<0.0043	<0.0032	<0.0040	<0.0031
Vinyl Chloride	mg/kg	<0.0101	<0.0074	<0.0100	<0.0082	<0.0084	<0.0086	<0.0082	<0.0076	<0.0073	<0.0103	<0.0081	<0.0073	<0.0085	<0.0094	<0.0093	<0.0078	<0.0070	<0.0091	<0.0067	<0.0071	<0.0086	<0.0064	<0.0080	<0.0062
Xylene O	mg/kg	<0.0050	<0.0037	<0.0050	<0.0041	<0.0042	<0.0043	<0.0041	<0.0038	<0.0036	<0.0052	<0.0041	<0.0036	<0.0043	<0.0047	<0.0047	<0.0039	<0.0035	<0.0045	<0.0033	<0.0035	<0.0043	<0.0032	<0.0040	<0.0031
Xylene P,M	mg/kg	<0.0101	<0.0074	<0.0100	<0.0082	<0.0084	<0.0086	<0.0082	<0.0076	<0.0073	<0.0103	<0.0081	<0.0073	<0.0085	<0.0094	<0.0093	<0.0078	<0.0070	<0.0091	<0.0067	<0.0071	<0.0086	<0.0064	<0.0080	<0.0062
Xylenes (Total)	mg/kg	<0.0101	<0.0074	<0.0100	<0.0082	<0.0084	<0.0086	<0.0082	<0.0076	<0.0073	<0.0103	<0.0081	<0.0073	<0.0085	<0.0094	<0.0093	<0.0078	<0.0070	<0.0091	<0.0067	<0.0071	<0.0086	<0.0064	<0.0080	<0.0062
Total VOCs (Low Level)	mg/kg	ND	ND	0.0421	0.0436	0.0221	ND	ND	ND	ND	ND	ND	0.0186	0.0124	ND	ND	ND	ND	ND	ND	0.037	ND	ND	ND	0.816
Semi-Volatile Organic Compounds																									
1,2,4-Trichlorobenzene	mg/kg	<0.891	<0.836	<0.908	<1.02	<1.01	<1.03	<0.986	<1.05	<0.960	<0.829	<0.868	<0.778	<0.981	<1.08	<1.06	<0.930	<1.04	<0.880	<0.878	<0.868	<1.12	<1.10	<1.07	<0.914
1,2-Dichlorobenzene	mg/kg	<0.891	<0.836	<0.908	<1.02	<1.01	<1.03	<0.986	<1.05	<0.960	<0.829	<0.868	<0.778	<0.981	<1.08	<1.06	<0.930	<1.04	<0.880	<0.878	<0.868	<1.12	<1.10	<1.07	<0.914
1,3-Dichlorobenzene	mg/kg	<0.891	<0.836	<0.908	<1.02	<1.01	<1.03	<0.986	<1.05	<0.960	<0.829	<0.868	<0.778	<0.981	<1.08	<1.06	<0.930	<1.04	<0.880	<0.878	<0.868	<1.12	<1.10	<1.07	<0.914
1,4-Dichlorobenzene	mg/kg	<0.447	<0.419	<0.455	<0.510	<0.505	<0.518	<0.494	<0.527	<0.482	<0.416	<0.435	<0.390	<0.492	<0.543	<0.529	<0.467	<0.522	<0.441	<0.440	<0.435	<0.560	<0.554	<0.535	<0.458
2,4,5-Trichlorophenol	mg/kg	<0.891	<0.836	<0.908	<1.02	<1.01	<1.03	<0.986	<1.05	<0.960	<0.829	<0.868	<0.778	<0.981	<1.08	<1.06	<0.930	<1.04	<0.880	<0.878	<0.868	<1.12	<1.10	<1.07	<0.914
2,4,6-Trichlorophenol	mg/kg	<0.891	<0.836	<0.908	<1.02	<1.01	<1.03	<0.986	<1.05	<0.960	<0.829	<0.868	<0.778	<0.981	<1.08	<1.06	<0.930	<1.04	<0.880	<0.878	<0.868	<1.12	<1.10	<1.07	<0.914
2,4-Dichlorophenol	mg/kg	<0.891	<0.836	<0.908	<1.02	<1.01	<1.03	<0.986	<1.05	<0.960	<0.829	<0.868	<0.778	<0.981	<1.08	<1.06	<0.930	<1.04	<0.880	<0.878	<0.868	<1.12	<1.10	<1.07	<0.914
2,4-Dimethylphenol	mg/kg	<0.891	<0.836	<0.908	<1.02	<1.01	<1.03	<0.986	<1.05	<0.960	<0.829	<0.868	<0.778	<0.981	<1.08	<1.06	<0.930	<1.04	<0.880	<0.878	<0.868	<1.12	<1.10	<1.07	<0.914
2,4-Dinitrophenol	mg/kg	<4.47	<4.19	<4.55	<5.10	<5.05	<5.18	<4.94	<5.27	<4.82	<4.16	<4.35	<3.90	<4.92	<5.43	<5.29	<4.67	<5.22	<4.41	<4.40	<4.35	<5.60	<5.54	<5.35	<4.58
2,4-Dinitrotoluene	mg/kg	<0.891	<0.836	<0.908	<1.02	<1.01	<1.03	<0.986	<1.05	<0.960	<0.829	<0.868	<0.778	<0.981	<1.08	<1.06	<0.930	<1.04	<0.880	<0.878	<0.868	<1.12	<1.10	<1.07	<0.914
2,6-Dinitrotoluene	mg/kg	<0.891	<0.836	<0.908	<1.02	<1.01	<1.03	<0.986	<1.05	<0.960	<0.829	<0.868	<0.778	<0.981	<1.08	<1.06	<0.930	<1.04	<0.880	<0.878	<0.868	<1.12	<1.10	<1.07	<0.914
2-Chloronaphthalene	mg/kg	<0.891	<0.836	<0.908	<1.02	<1.01	<1.03	<0.986	<1.05	<0.960	<0.829	<0.868	<0.778	<0.981	<1.08	<1.06	<0.930	<1.04	<0.880	<0.878	<0.868	<1.12	<1.10	<1.07	<0.914
2-Chlorophenol	mg/kg	<0.891	<0.836	<0.908	<1.02	<1.01	<1.03	<0.986	<1.05	<0.960	<0.829	<0.868	<0.778	<0.981	<1.08	<1.06	<0.930	<1.04	<0.880	<0.878	<0.868	<1.12	<1.10	<1.07	<0.914
2-Methylnaphthalene	mg/kg	<0.891	<0.836	<0.908	<1.02	<1.01	<1.03	<0.986	<1.05	<0.960	<0.829	<0.868	<0.778	<0.981	<1.08	<1.06	<0.930	<1.04	<0.880	<0.878	<0.868	<1.12	<1.10	<1.07	<0.914
2-Methylphenol	mg/kg	<0.891	<0.836	<0.908	<1.02	<1.01	<1.03	<0.986	<1.05	<0.960	<0.829	<0.868	<0.778	<0.981	<1.08	<1.06	<0.930	<1.04	<0.880	<0.878	<0.868	<1.12	<1.10	<1.07	<0.914
2-Nitrophenol	mg/kg	<0.891	<0.836	<0.908	<1.02	<1.01	<1.03	<0.986	<1.05	<0.960	<0.829	<0.868	<0.778	<0.981	<1.08	<1.06	<0.930	<1.04	<0.880	<0.878	<0.868	<1.12	<1.10	<1.07	<0.914
3,3´-Dichlorobenzidine	mg/kg	<1.78	<1.68	<1.82	<2.04	<2.02	<2.07	<1.97	<2.10	<1.92	<1.66	<1.74	<1.56	<1.97	<2.17	<2.11	<1.86	<2.08	<1.76	<1.76	<1.74	<2.24	<2.21	<2.14	<1.83
3+4-Methylphenol	mg/kg	<1.78	<1.68	<1.82	<2.04	<2.02	<2.07	<1.97	<2.10	<1.92	<1.66	<1.74	<1.56	<1.97	<2.17	<2.11	<1.86	<2.08	<1.76	<1.76	<1.74	<2.24	<2.21	<2.14	<1.83
4-Bromophenyl-phenylether	mg/kg	<0.891	<0.836	<0.908	<1.02	<1.01	<1.03	<0.986	<1.05	<0.960	<0.829	<0.868	<0.778	<0.981	<1.08	<1.06	<0.930	<1.04	<0.880	<0.878	<0.868	<1.12	<1.10	<1.07	<0.914
4-Chloroaniline	mg/kg	<1.78	<1.68	<1.82	<2.04	<2.02	<2.07	<1.97	<2.10	<1.92	<1.66	<1.74	<1.56	<1.97	<2.17	<2.11	<1.86	<2.08	<1.76	<1.76	<1.74	<2.24	<2.21	<2.14	<1.83
4-Nitrophenol	mg/kg	<4.47	<4.19	<4.55	<5.10	<5.05	<5.18	<4.94	<5.27	<4.82	<4.16	<4.35	<3.90	<4.92	<5.43	<5.29	<4.67	<5.22	<4.41	<4.40	<4.35	<5.60	<5.54	<5.35	<4.58
Acenaphthene	mg/kg	<0.891	<0.836	<0.908	<1.02	<1.01	<1.03	<0.986	<1.05	<0.960	<0.829	<0.868	<0.778	<0.981	<1.08	<1.06	<0.930	<1.04	<0.880	<0.878	<0.868	<1.12	<1.10	<1.07	<0.914
Acenaphthylene	mg/kg	<0.891	<0.836	<0.908	<1.02	<1.01	<1.03	<0.986	<1.05	<0.960	<0.829	<0.868	<0.778	<0.981	<1.08	<1.06	<0.930	<1.04	<0.880	<0.878	<0.868	<1.12	<1.10	<1.07	<0.914
Acetophenone	mg/kg	<1.78	<1.68	<1.82	<2.04	<2.02	<2.07	<1.97	<2.10	<1.92	<1.66	<1.74	<1.56	<1.97	<2.17	<2.11	<1.86	<2.08	<1.76	<1.76	<1.74	<2.24	<2.21	<2.14	<1.83
Aniline	mg/kg	<4.47	<4.19	<4.55	<5.10	<5.05	<5.18	<4.94	<5.27	<4.82	<4.16	<4.35	<3.90	<4.92	<5.43	<5.29	<4.67	<5.22	<4.41	<4.40	<4.35	<5.60	<5.54	<5.35	<4.58
Anthracene	mg/kg	<0.891	<0.836	<0.908	<1.02	<1.01	<1.03	<0.986	<1.05	<0.960	<0.829	<0.868	<0.778	<0.981	<1.08	<1.06	<0.930	<1.04	<0.880	<0.878	<0.868	<1.12	<1.10	<1.07	2.45
Azobenzene	mg/kg	<0.891	<0.836	<0.908	<1.02	<1.01	<1.03	<0.986	<1.05	<0.960	<0.829	<0.868	<0.778	<0.981	<1.08	<1.06	<0.930	<1.04	<0.880	<0.878	<0.868	<1.12	<1.10	<1.07	<0.914
Benzo(a)anthracene	mg/kg	<0.891	<0.836	1.08	<1.02	<1.01	<1.03	<0.986	<1.05	<0.960	<0.829	<0.868	<0.778	<0.981	<1.08	<1.06	<0.930	<1.04	<0.880	<0.878	<0.868	<1.12	<1.10	<1.07	1.94
Benzo(a)pyrene	mg/kg	<0.447	<0.419	0.875	0.732	<0.505	<0.518	<0.494	<0.527	<0.482	<0.416	0.462	0.539	<0.492	<0.543	<0.529	<0.467	<0.522	<0.441	<0.440	<0.435	<0.560	<0.554	<0.535	1.65
Benzo(b)fluoranthene	mg/kg	<0.891	<0.836	1.07	<1.02	<1.01	<1.03	<0.986	<1.05	<0.960	<0.829	<0.868	0.864	<0.981	<1.08	<1.06	<0.930	<1.04	<0.880	<0.878	<0.868	<1.12	<1.10	<1.07	1.63
Benzo(g,h,i)perylene	mg/kg	<0.891	<0.836	<0.908	<1.02	<1.01	<1.03	<0.986	<1.05	<0.960	<0.829	<0.868	<0.778	<0.981	<1.08	<1.06	<0.930	<1.04	<0.880	<0.878	<0.868	<1.12	<1.10	<1.07	0.965
Benzo(k)fluoranthene	mg/kg	<0.891	<0.836	<0.908	<1.02	<1.01	<1.03	<0.986	<1.05	<0.960	<0.829	<0.868	<0.778	<0.981	<1.08	<1.06	<0.930	<1.04	<0.880	<0.878	<0.868	<1.12	<1.10	<1.07	<0.914
bis(2-Chloroethoxy)methane	mg/kg	<0.891	<0.836	<0.908	<1.02	<1.01	<1.03	<0.986	<1.05	<0.960	<0.829	<0.868	<0.778	<0.981	<1.08	<1.06	<0.930	<1.04	<0.880	<0.878	<0.868	<1.12	<1.10	<1.07	<0.914
bis(2-Chloroethyl)ether	mg/kg	<0.447	<0.419	<0.455	<0.510	<0.505	<0.518	<0.494	<0.527	<0.482	<0.416	<0.435	<0.390	<0.492	<0.543	<0.529	<0.467	<0.522	<0.441	<0.440	<0.435	<0.560	<0.554	<0.535	<0.458
bis(2-chloroisopropyl)Ether	mg/kg	<0.447	<0.419	<0.455	<0.510	<0.505	<0.518	<0.494	<0.527	<0.482	<0.416	<0.435	<0.390	<0.492	<0.543	<0.529	<0.467	<0.522	<0.441	<0.440	<0.435	<0.560	<0.554	<0.535	<0.458
bis(2-Ethylhexyl)phthalate	mg/kg	<0.891	2.42	<0.908	<1.02	<1.01	<1.03	<0.986	<1.05	<0.960	<0.829	<0.868	<0.778	<0.981	<1.08	<1.06	<0.930	<1.04	<0.880	<0.878	<0.868	<1.12	<1.10	<1.07	<0.914
Butylbenzylphthalate	mg/kg	<0.891	<0.836	<0.908	<1.02	<1.01	<1.03	<0.986	<1.05	<0.960	<0.829	<0.868	<0.778	<0.981	<1.08	<1.06	<0.930	<1.04	<0.880	<0.878	<0.868	<1.12	<1.10	<1.07	<0.914
Chrysene	mg/kg	<0.447	<0.419	0.955	0.937	<0.505	<0.518	<0.494	<0.527	<0.482	<0.416	0.521	0.761	<0.492	<0.543	<0.529	<0.467	<0.522	<0.441	<0.440	<0.435	<0.560	<0.554	<0.535	1.73
Dibenzo(a,h)Anthracene	mg/kg	<0.447	<0.419	<0.455	<0.510	<0.505	<0.518	<0.494	<0.527	<0.482	<0.416	<0.435	<0.390	<0.492	<0.543	<0.529	<0.467	<0.522	<0.441	<0.440	<0.435	<0.560	<0.554	<0.535	<0.458
Dibenzofuran	mg/kg	<0.891	<0.836	<0.908	<1.02	<1.01	<1.03	<0.986	<1.05	<0.960	<0.829	<0.868	<0.778	<0.981	<1.08	<1.06	<0.930	<1.04	<0.880	<0.878	<0.868	<1.12	<1.10	<1.07	1.08
Diethylphthalate	mg/kg	<0.891	<0.836	<0.908	<1.02	<1.01	<1.03	<0.986	<1.05	<0.960	<0.829	<0.868	<0.778	<0.981	<1.08	<1.06	<0.930	<1.04	<0.880	<0.878	<0.868	<1.12	<1.10	<1.07	<0.914
Dimethylphthalate	mg/kg	<0.891	<0.836	<0.908	<1.02	<1.01	<1.03	<0.986	<1.05	<0.960	<0.829	<0.868	<0.778	<0.981	<1.08	<1.06	<0.930	<1.04	<0.880	<0.878	<0.868	<1.12	<1.10	<1.07	<0.914
Di-n-butylphthalate	mg/kg	<0.891	<0.836	<0.908	<1.02	<1.01	<1.03	<0.986	<1.05	<0.960	<0.829	<0.868	<0.778	<0.981	<1.08	<1.06	<0.930	<1.04	<0.880	<0.878	<0.868	<1.12	<1.10	<1.07	<0.914
Di-n-octylphthalate	mg/kg	<0.891	<0.836	<0.908	<1.02	<1.01	<1.03	<0.986	<1.05	<0.960	<0.829	<0.868	<0.778	<0.981	<1.08	<1.06	<0.930	<1.04	<0.880	<0.878	<0.868	<1.12	<1.10	<1.07	<0.914
Fluoranthene	mg/kg	<0.891	<0.836	2.1	1.89	<1.01	<1.03	<0.986	<1.05	<0.960	<0.829	1.23	1.32	<0.981	<1.08	<1.06	<0.930	<1.04	<0.880	<0.878	<0.868	<1.12	<1.10	<1.07	4.88
Fluorene	mg/kg	<0.891	<0.836	<0.908	<1.02	<1.01	<1.03	<0.986	<1.05	<0.960	<0.829	<0.868	<0.778	<0.981	<1.08	<1.06	<0.930	<1.04	<0.880	<0.878	<0.868	<1.12	<1.10	<1.07	1.11
Hexachlorobenzene	mg/kg	<0.447	<0.419	<0.455	<0.510	<0.505	<0.518	<0.494	<0.527	<0.482	<0.416	<0.435	<0.390	<0.492	<0.543	<0.529	<0.467	<0.522	<0.441	<0.440	<0.435	<0.560	<0.554	<0.535	<0.458
Hexachlorobutadiene	mg/kg	<0.891	<0.836	<0.908	<1.02	<1.01	<1.03	<0.986	<1.05	<0.960	<0.829	<0.868	<0.778	<0.981	<1.08	<1.06	<0.930	<1.04	<0.880	<0.878	<0.868	<1.12	<1.10	<1.07	<0.914
Hexachloroethane	mg/kg	<0.891	<0.836	<0.908	<1.02	<1.01	<1.03	<0.986	<1.05	<0.960	<0.829	<0.868	<0.778	<0.981	<1.08	<1.06	<0.930	<1.04	<0.880	<0.878	<0.868	<1.12	<1.10	<1.07	<0.914
Indeno(1,2,3-cd)Pyrene	mg/kg	<0.891	<0.836	<0.908	<1.02	<1.01	<1.03	<0.986	<1.05	<0.960	<0.829	<0.868	<0.778	<0.981	<1.08	<1.06	<0.930	<1.04	<0.880	<0.878	<0.868	<1.12	<1.10	<1.07	<0.914
Isophorone	mg/kg	<0.891	<0.836	<0.908	<1.02	<1.01	<1.03	<0.986	<1.05	<0.960	<0.829	<0.868	<0.778	<0.981	<1.08	<1.06	<0.930	<1.04	<0.880	<0.878	<0.868	<1.12	<1.10	<1.07	<0.914
Naphthalene	mg/kg	<0.891	<0.836	<0.908	<1.02	<1.01	<1.03	<0.986	<1.05	<0.960	<0.829	<0.868	<0.778	<0.981	<1.08	<1.06	<0.930	<1.04	<0.880	<0.878	<0.868	<1.12	<1.10	<1.07	1.17
Nitrobenzene	mg/kg	<0.891	<0.836	<0.908	<1.02	<1.01	<1.03	<0.986	<1.05	<0.960	<0.829	<0.868	<0.778	<0.981	<1.08	<1.06	<0.930	<1.04	<0.880	<0.878	<0.868	<1.12	<1.10	<1.07	<0.914
N-Nitrosodimethylamine	mg/kg	<0.891	<0.836	<0.908	<1.02	<1.01	<1.03	<0.986	<1.05	<0.960	<0.829	<0.868	<0.778	<0.981	<1.08	<1.06	<0.930	<1.04	<0.880	<0.878	<0.868	<1.12	<1.10	<1.07	<0.914
Pentachlorophenol	mg/kg	<4.47	<4.19	<4.55	<5.10	<5.05	<5.18	<4.94	<5.27	<4.82	<4.16	<4.35	<3.90	<4.92	<5.43	<5.29	<4.67	<5.22	<4.41	<4.40	<4.35	<5.60	<5.54	<5.35	<4.58
Phenanthrene	mg/kg	<0.891	<0.836	1.08	1.59	<1.01	<1.03	<0.986	<1.05	<0.960	<0.829	1.11	0.809	<0.981	<1.08	<1.06	<0.930	<1.04	<0.880	<0.878	<0.868	<1.12	<1.10	<1.07	6.97
Phenol	mg/kg	<0.891	<0.836	<0.908	<1.02	<1.01	<1.03	<0.986	<1.05	<0.960	<0.829	<0.868	<0.778	<0.981	<1.08	<1.06	<0.930	<1.04	<0.880	<0.878	<0.868	<1.12	<1.10	<1.07	<0.914
Pyrene	mg/kg	<0.891	<0.836	1.84	1.8	<1.01	<1.03	<0.986	<1.05	<0.960	<0.829	0.909	1.14	<0.981	<1.08	<1.06	<0.930	<1.04	<0.880	<0.878	<0.868	<1.12	<1.10	<1.07	4.13
Total SVOCs	mg/kg	ND	2.42	9	6.949	ND	ND	ND	ND	ND	ND	4.232	5.433	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	29.705
Classic Chemistry																									
Corrosivity (pH)	S.U.	9.23	8.44	6.59	7.74	4.77	6.97	7.08	6.85	6.99	9.65	7.74	5.73	6.48	6.74	6.83	6.94	7.05	8.82	7.35	5.69	5.54	6.31	6.43	7.9
Conductivity	umhos/cm	146	734	980	2890	5520	7270	5410	2610	2700	273	1340	724	4540	5680	7360	4930	4510	338	2770	2710	4170	6760	5810	431
Flashpoint	°F	>200	>200	>200	>200	--	--	--	--	--	>200	>200	>200	--	--	--	--	--	>200	>200	>200	>200	>200	>200	>200
Reactive Cyanide	mg/kg	<2.0	<2.0	<2.0	<2.0	--	--	--	--	--	<2.0	<2.0	<2.0	--	--	--	--	--	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Reactive Sulfide	mg/kg	<2.0	<2.0	<2.0	<2.0	--	--	--	--	--	<2.0	<2.0	<2.0	--	--	--	--	--	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0

Table 1
Soil Precharacterization Data

Wynn Resort Casino
Everett, Massachusetts

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	H15 H15S01S02A 1501112 Fill 0 - 3.3 1/7/2015	H15 H15S02BS04A 1501112 Fill 3.3 - 6.6 1/7/2015	H15 H15S04BS05 1501112 Fill 6.6 - 10 1/7/2015	H15 H15S06 1501112 Natural Clay 10 - 12 1/7/2015	H15 H15S07 1501112 Natural Clay 14 - 16 1/7/2015	H15 H15S08 1501112 Natural Clay 19 - 21 1/7/2015	H15 H15S09 1501112 Natural Clay 24 - 26 1/7/2015	H15 H15S10 1501112 Natural Clay 29 - 31 1/7/2015	H15 H15S11S12 1501112 Natural Clay 34 - 38 1/7/2015	H16 H16S01S02A 1501056 Fill 0 - 3.3 1/6/2015	H16 H16S02BS04A 1501056 Fill 3.3 - 6.6 1/6/2015	H16 H16S04BS05 1501056 Fill 6.6 - 10 1/6/2015	H16 H16S07 1501056 Natural Sand/Gravel 12 - 14 1/6/2015	H16 H16S08 1501056 Natural Clay 14 - 16 1/6/2015	H16 H16S09 1501112 Natural Clay 19 - 21 1/7/2015	H16 H16S10 1501112 Natural Clay 24 - 26 1/7/2015	H16 H16S11 1501112 Natural Sand/Gravel 29 - 31 1/7/2015	H16 H16S12S13 1501112 Natural Clay 34 - 38 1/7/2015	H17 GZ02SS01S02A 1503112 Fill 0 - 3.3 3/6/2015	H17 GZ02SS02BS04A 1503112 Fill 3.3 - 6.6 3/6/2015	H17 GZ02SS04BS05 1503112 Fill 6.6 - 10 3/6/2015	H17 GZ02SS04BS05 1503112 Fill 6.6 - 10 3/6/2015	H17 GZ02SS07BS08A 1503112 Fill 13.3 - 16.6 3/6/2015	H17 GZ02SS09BS10 1503112 Natural Clay 16.6 - 20 3/6/2015
Preliminary Disposal Facility Category		MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Uncontaminated	Uncontaminated	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Restricted
RCRA 8 Metals	**Units**																							
Arsenic	mg/kg	15.4	<11.8	83.2	<19.2	<13.4	23.5	26.3	<12.8	<11.6	9.64	6.32	59.9	91.1	<3.22	18.7	18.9	<12.7	<14.4	9.68	51	218	<7.66	134	10.5
Barium	mg/kg	18	42	225	36.5	<13.4	139	185	51.8	58.9	17.6	35.7	178	108	19.4	98.9	85.6	48.1	<14.4	24.1	173	323	35.2	218	109
Cadmium	mg/kg	<2.38	<2.36	12	249	<2.67	<2.69	<2.89	<2.56	<2.31	<0.51	<0.51	13.8	13	<0.64	<2.92	<2.90	<2.55	<2.87	<1.40	<1.20	3.8	<1.53	3.29	<1.55
Chromium	mg/kg	26.9	25.3	20.1	27.9	<5.35	73.8	63.7	31.7	22.8	25.3	23.4	3.64	16	13.1	57.6	50.9	25.1	10.5	27	27.8	4.55	10.3	11.3	44.9
Lead	mg/kg	<23.8	71.8	491	179	<26.7	<26.9	<28.9	<25.6	<23.1	9.1	12	526	896	9.7	<29.2	<29.0	<25.5	<28.7	<14.0	344	730	51.2	605	<15.5
Selenium	mg/kg	<19.0	<18.9	<12.4	<15.3	<10.7	<17.2	<11.6	<16.4	<18.5	<10.2	<10.1	<10.7	14.4	<12.9	<18.7	<18.6	<16.3	<18.4	<6.99	<6.01	<8.29	<7.66	<8.20	<7.73
Silver	mg/kg	<2.38	<2.36	11.5	<3.83	<2.67	<2.69	<2.89	<2.56	<2.31	<0.51	<0.51	20.2	14.5	<0.64	<2.92	<2.90	<2.55	<2.87	<1.40	2.73	6.02	<1.53	2.83	<1.55
Mercury	mg/kg	<0.030	8.71	7.82	0.236	<0.042	<0.039	<0.039	<0.036	<0.039	<0.032	<0.033	0.464	0.26	<0.042	<0.038	<0.034	<0.035	<0.039	<0.033	0.942	0.496	0.22	0.294	<0.032
Metals by Toxicity Characteristic Leaching Procedure (TCLP)																									
Arsenic	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.500	--	<0.500	--
Cadmium	mg/L	--	--	--	<0.0100	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead	mg/L	--	--	1.73	<0.050	--	--	--	--	--	--	--	4.67	<0.050	--	--	--	--	--	--	<0.500	<0.500	--	<0.500	--
Selenium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	mg/L	--	<0.00050	<0.00050	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Herbicides																									
2,4,5-T	mg/kg	<0.051	<0.051	<0.059	--	--	--	--	--	--	<0.053	<0.053	<0.063	--	--	--	--	--	--	<0.042	<0.049	<0.055	<0.058	<0.055	--
2,4-D	mg/kg	<0.051	<0.051	<0.059	--	--	--	--	--	--	<0.053	<0.053	<0.063	--	--	--	--	--	--	<0.21	<0.24	<0.28	<0.058	<0.27	--
2,4-DB	mg/kg	<0.051	<0.051	<0.059	--	--	--	--	--	--	<0.053	<0.053	<0.063	--	--	--	--	--	--	<0.016	<0.018	<0.021	<0.058	<0.020	--
Dalapon	mg/kg	<0.62	<0.61	<0.71	--	--	--	--	--	--	<0.64	<0.64	<0.76	--	--	--	--	--	--	<1.3	<1.5	<1.7	<0.70	<1.6	--
Dicamba	mg/kg	<0.051	<0.051	<0.059	--	--	--	--	--	--	<0.053	<0.053	<0.063	--	--	--	--	--	--	<0.063	<0.073	<0.083	<0.058	<0.082	--
Dichlorprop	mg/kg	<0.051	<0.051	<0.059	--	--	--	--	--	--	<0.053	<0.053	<0.063	--	--	--	--	--	--	<0.14	<0.16	<0.18	<0.058	<0.18	--
Dinoseb	mg/kg	<0.31	<0.31	<0.36	--	--	--	--	--	--	<0.32	<0.32	<0.38	--	--	--	--	--	--	<0.21	<0.24	<0.28	<0.35	<0.27	--
MCPA	mg/kg	<12	<12	<14	--	--	--	--	--	--	<13	<13	<15	--	--	--	--	--	--	<52	<61	<69	<14	<68	--
MCPP	mg/kg	<12	<12	<14	--	--	--	--	--	--	<13	<13	<15	--	--	--	--	--	--	<52	<61	<69	<14	<68	--
Silvex (2,4,5-TP)	mg/kg	<0.051	<0.051	<0.059	--	--	--	--	--	--	<0.053	<0.053	<0.063	--	--	--	--	--	--	<0.042	<0.049	<0.055	<0.058	<0.055	--
Pesticides																									
4,4'-DDD	mg/kg	<0.0019	<0.0094	<0.0042	--	--	--	--	--	--	<0.0018	<0.0018	<0.0043	--	--	--	--	--	--	<0.0018	<0.0020	<0.0023	<0.010	<0.0023	--
4,4'-DDE	mg/kg	<0.0019	<0.0094	<0.0042	--	--	--	--	--	--	<0.0018	<0.0018	<0.0043	--	--	--	--	--	--	<0.0018	<0.0020	<0.0023	<0.010	<0.0023	--
4,4'-DDT	mg/kg	<0.0019	<0.0094	<0.0042	--	--	--	--	--	--	<0.0018	<0.0018	<0.0043	--	--	--	--	--	--	<0.0018	<0.0020	<0.0023	<0.010	<0.0023	--
Aldrin	mg/kg	<0.0019	<0.0094	<0.0042	--	--	--	--	--	--	<0.0018	<0.0018	<0.0043	--	--	--	--	--	--	<0.0018	<0.0020	<0.0023	<0.010	<0.0023	--
alpha-BHC	mg/kg	<0.0019	<0.0094	<0.0042	--	--	--	--	--	--	<0.0018	<0.0018	<0.0043	--	--	--	--	--	--	<0.0018	<0.0020	<0.0023	<0.010	<0.0023	--
beta-BHC	mg/kg	<0.0019	<0.0094	<0.0042	--	--	--	--	--	--	<0.0018	<0.0018	<0.0043	--	--	--	--	--	--	<0.0018	<0.0020	<0.0023	<0.010	<0.0023	--
Chlordane (technical)	mg/kg	<0.019	<0.094	<0.042	--	--	--	--	--	--	<0.018	<0.018	<0.043	--	--	--	--	--	--	<0.018	<0.020	<0.023	<0.10	<0.023	--
delta-BHC	mg/kg	<0.0019	<0.0094	<0.0042	--	--	--	--	--	--	<0.0018	<0.0018	<0.0043	--	--	--	--	--	--	<0.0018	<0.0020	<0.0023	<0.010	<0.0023	--
Dieldrin	mg/kg	<0.0019	<0.0094	<0.0042	--	--	--	--	--	--	<0.0018	<0.0018	<0.0043	--	--	--	--	--	--	<0.0018	<0.0020	<0.0023	<0.010	<0.0023	--
Endosulfan I	mg/kg	<0.0019	<0.0094	<0.0042	--	--	--	--	--	--	<0.0018	<0.0018	<0.0043	--	--	--	--	--	--	<0.0018	<0.0020	<0.0023	<0.010	<0.0023	--
Endosulfan II	mg/kg	<0.0019	<0.0094	<0.0042	--	--	--	--	--	--	<0.0018	<0.0018	<0.0043	--	--	--	--	--	--	<0.0018	<0.0020	<0.0023	<0.010	<0.0023	--
Endosulfan sulfate	mg/kg	<0.0019	<0.0094	<0.0042	--	--	--	--	--	--	<0.0018	<0.0018	<0.0043	--	--	--	--	--	--	<0.0018	<0.0020	<0.0023	<0.010	<0.0023	--
Endrin	mg/kg	<0.0019	<0.0094	<0.0042	--	--	--	--	--	--	<0.0018	<0.0018	<0.0043	--	--	--	--	--	--	<0.0018	<0.0020	<0.0023	<0.010	<0.0023	--
Endrin ketone	mg/kg	<0.0019	<0.0094	<0.0042	--	--	--	--	--	--	<0.0018	<0.0018	<0.0043	--	--	--	--	--	--	<0.0018	<0.0020	<0.0023	<0.010	<0.0023	--
gamma-BHC (Lindane)	mg/kg	<0.0019	<0.0094	<0.0042	--	--	--	--	--	--	<0.0018	<0.0018	<0.0043	--	--	--	--	--	--	<0.0018	<0.0020	<0.0023	<0.010	<0.0023	--
Heptachlor	mg/kg	<0.0019	<0.0094	<0.0042	--	--	--	--	--	--	<0.0018	<0.0018	<0.0043	--	--	--	--	--	--	<0.0018	<0.0020	<0.0023	<0.010	<0.0023	--
Heptachlor epoxide	mg/kg	<0.0019	<0.0094	<0.0042	--	--	--	--	--	--	<0.0018	<0.0018	<0.0043	--	--	--	--	--	--	<0.0018	<0.0020	<0.0023	<0.010	<0.0023	--
Hexachlorobenzene	mg/kg	<0.0019	<0.0094	<0.0042	--	--	--	--	--	--	<0.0018	<0.0018	<0.0043	--	--	--	--	--	--	<0.0018	<0.0020	<0.0023	<0.010	<0.0023	--
Methoxychlor	mg/kg	<0.0019	<0.0094	<0.0042	--	--	--	--	--	--	<0.0018	<0.0018	<0.0043	--	--	--	--	--	--	<0.0018	<0.0020	<0.0023	<0.010	<0.0023	--
Polychlorinated Biphenyls																									
Aroclor 1016	mg/kg	<0.123	<0.136	<0.151	<0.206	<0.154	<0.169	<0.148	<0.156	<0.148	<0.128	<0.132	<0.151	<0.177	<0.154	<0.154	<0.155	<0.151	<0.145	<0.130	<0.134	<0.168	<0.137	<0.165	<0.138
Aroclor 1221	mg/kg	<0.123	<0.136	<0.151	<0.206	<0.154	<0.169	<0.148	<0.156	<0.148	<0.128	<0.132	<0.151	<0.177	<0.154	<0.154	<0.155	<0.151	<0.145	<0.130	<0.134	<0.168	<0.137	<0.165	<0.138
Aroclor 1232	mg/kg	<0.123	<0.136	<0.151	<0.206	<0.154	<0.169	<0.148	<0.156	<0.148	<0.128	<0.132	<0.151	<0.177	<0.154	<0.154	<0.155	<0.151	<0.145	<0.130	<0.134	<0.168	<0.137	<0.165	<0.138
Aroclor 1242	mg/kg	<0.123	<0.136	<0.151	<0.206	<0.154	<0.169	<0.148	<0.156	<0.148	<0.128	<0.132	<0.151	<0.177	<0.154	<0.154	<0.155	<0.151	<0.145	<0.130	<0.134	<0.168	<0.137	<0.165	<0.138
Aroclor 1248	mg/kg	<0.123	<0.136	<0.151	<0.206	<0.154	<0.169	<0.148	<0.156	<0.148	<0.128	<0.132	<0.151	<0.177	<0.154	<0.154	<0.155	<0.151	<0.145	<0.130	<0.134	<0.168	<0.137	<0.165	<0.138
Aroclor 1254	mg/kg	<0.123	<0.136	<0.151	<0.206	<0.154	<0.169	<0.148	<0.156	<0.148	<0.128	<0.132	<0.151	<0.177	<0.154	<0.154	<0.155	<0.151	<0.145	<0.130	0.136	<0.168	<0.137	<0.165	<0.138
Aroclor 1260	mg/kg	<0.123	<0.136	<0.151	<0.206	<0.154	<0.169	<0.148	<0.156	<0.148	<0.128	<0.132	<0.151	<0.177	<0.154	<0.154	<0.155	<0.151	<0.145	<0.130	<0.134	<0.168	<0.137	<0.165	<0.138
Aroclor 1262	mg/kg	<0.123	<0.136	<0.151	<0.206	<0.154	<0.169	<0.148	<0.156	<0.148	<0.128	<0.132	<0.151	<0.177	<0.154	<0.154	<0.155	<0.151	<0.145	<0.130	<0.134	<0.168	<0.137	<0.165	<0.138
Aroclor 1268	mg/kg	<0.123	<0.136	<0.151	<0.206	<0.154	<0.169	<0.148	<0.156	<0.148	<0.128	<0.132	<0.151	<0.177	<0.154	<0.154	<0.155	<0.151	<0.145	<0.130	<0.134	<0.168	<0.137	<0.165	<0.138
Total PCBs	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.136	ND	ND	ND	ND
Total Petroleum Hydrocarbons	mg/kg	<39.6	198	51.1	953	<49.6	<48.2	<50.5	<46.2	<42.7	<36.7	110	<47.1	215	65.2	<49.5	<47.9	<45.2	<39.2	<41.9	45	<53.8	<47.0	<52.4	<44.4
Volatile Organic Compounds (VOCs)																									
1,1,1,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-Chloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane - Screen	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Butanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Isopropyltoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-Pentanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Disulfide	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	H15 H15S01S02A 1501112 Fill 0 - 3.3 1/7/2015	H15 H15S02BS04A 1501112 Fill 3.3 - 6.6 1/7/2015	H15 H15S04BS05 1501112 Fill 6.6 - 10 1/7/2015	H15 H15S06 1501112 Natural Clay 10 - 12 1/7/2015	H15 H15S07 1501112 Natural Clay 14 - 16 1/7/2015	H15 H15S08 1501112 Natural Clay 19 - 21 1/7/2015	H15 H15S09 1501112 Natural Clay 24 - 26 1/7/2015	H15 H15S10 1501112 Natural Clay 29 - 31 1/7/2015	H15 H15S11S12 1501112 Natural Clay 34 - 38 1/7/2015	H16 H16S01S02A 1501056 Fill 0 - 3.3 1/6/2015	H16 H16S02BS04A 1501056 Fill 3.3 - 6.6 1/6/2015	H16 H16S04BS05 1501056 Fill 6.6 - 10 1/6/2015	H16 H16S07 1501056 Natural Sand/Gravel 12 - 14 1/6/2015	H16 H16S08 1501056 Natural Clay 14 - 16 1/6/2015	H16 H16S09 1501112 Natural Clay 19 - 21 1/7/2015	H16 H16S10 1501112 Natural Clay 24 - 26 1/7/2015	H16 H16S11 1501112 Natural Sand/Gravel 29 - 31 1/7/2015	H16 H16S12S13 1501112 Natural Clay 34 - 38 1/7/2015	H17 GZ02SS01S02A 1503112 Fill 0 - 3.3 3/6/2015	H17 GZ02SS02BS04A 1503112 Fill 3.3 - 6.6 3/6/2015	H17 GZ02SS04BS05 1503112 Fill 6.6 - 10 3/6/2015	H17 GZ02SS04BS05 1503112 Fill 6.6 - 10 3/6/2015	H17 GZ02SS07BS08A 1503112 Fill 13.3 - 16.6 3/6/2015	H17 GZ02SS09BS10 1503112 Natural Clay 16.6 - 20 3/6/2015
Preliminary Disposal Facility Category		MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Uncontaminated	Uncontaminated	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Restricted
Chlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Diethyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Di-isopropyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethyl tertiary-butyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
tert-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tertiary-amyl methyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene O	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene P,M	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylenes (Total)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total VOCs	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds - Low Level Analysis																									
1,1,1,2-Tetrachloroethane	mg/kg	<0.0049	<0.0047	<0.0041	<0.0061	<0.0037	<0.0053	<0.0043	<0.0038	<0.0033	<0.0043	<0.0037	<0.0039	<0.0045	<0.0033	<0.0048	<0.0050	<0.0036	<0.0036	<0.0034	<0.0042	<0.0037	<0.0024	<0.0029	<0.0047
1,1,1-Trichloroethane	mg/kg	<0.0049	<0.0047	<0.0041	<0.0061	<0.0037	<0.0053	<0.0043	<0.0038	<0.0033	<0.0043	<0.0037	<0.0039	<0.0045	<0.0033	<0.0048	<0.0050	<0.0036	<0.0036	<0.0034	<0.0042	<0.0037	<0.0024	<0.0029	<0.0047
1,1,2,2-Tetrachloroethane	mg/kg	<0.0020	<0.0019	<0.0016	<0.0024	<0.0015	<0.0021	<0.0017	<0.0015	<0.0013	<0.0017	<0.0015	<0.0016	<0.0018	<0.0013	<0.0019	<0.0020	<0.0014	<0.0014	<0.0014	<0.0017	<0.0015	<0.0009	<0.0012	<0.0019
1,1,2-Trichloroethane	mg/kg	<0.0049	<0.0047	<0.0041	<0.0061	<0.0037	<0.0053	<0.0043	<0.0038	<0.0033	<0.0043	<0.0037	<0.0039	<0.0045	<0.0033	<0.0048	<0.0050	<0.0036	<0.0036	<0.0034	<0.0042	<0.0037	<0.0024	<0.0029	<0.0047
1,1-Dichloroethane	mg/kg	<0.0049	<0.0047	<0.0041	<0.0061	<0.0037	<0.0053	<0.0043	<0.0038	<0.0033	<0.0043	<0.0037	<0.0039	<0.0045	<0.0033	<0.0048	<0.0050	<0.0036	<0.0036	<0.0034	<0.0042	<0.0037	<0.0024	<0.0029	<0.0047
1,1-Dichloroethene	mg/kg	<0.0049	<0.0047	<0.0041	<0.0061	<0.0037	<0.0053	<0.0043	<0.0038	<0.0033	<0.0043	<0.0037	<0.0039	<0.0045	<0.0033	<0.0048	<0.0050	<0.0036	<0.0036	<0.0034	<0.0042	<0.0037	<0.0024	<0.0029	<0.0047
1,1-Dichloropropene	mg/kg	<0.0049	<0.0047	<0.0041	<0.0061	<0.0037	<0.0053	<0.0043	<0.0038	<0.0033	<0.0043	<0.0037	<0.0039	<0.0045	<0.0033	<0.0048	<0.0050	<0.0036	<0.0036	<0.0034	<0.0042	<0.0037	<0.0024	<0.0029	<0.0047
1,2,3-Trichlorobenzene	mg/kg	<0.0049	<0.0047	<0.0041	<0.0061	<0.0037	<0.0053	<0.0043	<0.0038	<0.0033	<0.0043	<0.0037	<0.0039	<0.0045	<0.0033	<0.0048	<0.0050	<0.0036	<0.0036	<0.0034	<0.0042	<0.0037	<0.0024	<0.0029	<0.0047
1,2,3-Trichloropropane	mg/kg	<0.0049	<0.0047	<0.0041	<0.0061	<0.0037	<0.0053	<0.0043	<0.0038	<0.0033	<0.0043	<0.0037	<0.0039	<0.0045	<0.0033	<0.0048	<0.0050	<0.0036	<0.0036	<0.0034	<0.0042	<0.0037	<0.0024	<0.0029	<0.0047
1,2,4-Trichlorobenzene	mg/kg	<0.0049	<0.0047	<0.0041	<0.0061	<0.0037	<0.0053	<0.0043	<0.0038	<0.0033	<0.0043	<0.0037	<0.0039	<0.0045	<0.0033	<0.0048	<0.0050	<0.0036	<0.0036	<0.0034	<0.0042	<0.0037	<0.0024	<0.0029	<0.0047
1,2,4-Trimethylbenzene	mg/kg	<0.0049	<0.0047	<0.0041	<0.0061	<0.0037	<0.0053	<0.0043	<0.0038	<0.0033	<0.0043	<0.0037	<0.0039	<0.0045	<0.0033	<0.0048	<0.0050	<0.0036	<0.0036	<0.0034	<0.0042	<0.0037	<0.0024	<0.0029	<0.0047
1,2-Dibromo-3-Chloropropane	mg/kg	<0.0049	<0.0047	<0.0041	<0.0061	<0.0037	<0.0053	<0.0043	<0.0038	<0.0033	<0.0043	<0.0037	<0.0039	<0.0045	<0.0033	<0.0048	<0.0050	<0.0036	<0.0036	<0.0034	<0.0042	<0.0037	<0.0024	<0.0029	<0.0047
1,2-Dibromoethane	mg/kg	<0.0049	<0.0047	<0.0041	<0.0061	<0.0037	<0.0053	<0.0043	<0.0038	<0.0033	<0.0043	<0.0037	<0.0039	<0.0045	<0.0033	<0.0048	<0.0050	<0.0036	<0.0036	<0.0034	<0.0042	<0.0037	<0.0024	<0.0029	<0.0047
1,2-Dichlorobenzene	mg/kg	<0.0049	<0.0047	<0.0041	<0.0061	<0.0037	<0.0053	<0.0043	<0.0038	<0.0033	<0.0043	<0.0037	<0.0039	<0.0045	<0.0033	<0.0048	<0.0050	<0.0036	<0.0036	<0.0034	<0.0042	<0.0037	<0.0024	<0.0029	<0.0047
1,2-Dichloroethane	mg/kg	<0.0049	<0.0047	<0.0041	<0.0061	<0.0037	<0.0053	<0.0043	<0.0038	<0.0033	<0.0043	<0.0037	<0.0039	<0.0045	<0.0033	<0.0048	<0.0050	<0.0036	<0.0036	<0.0034	<0.0042	<0.0037	<0.0024	<0.0029	<0.0047
1,2-Dichloropropane	mg/kg	<0.0049	<0.0047	<0.0041	<0.0061	<0.0037	<0.0053	<0.0043	<0.0038	<0.0033	<0.0043	<0.0037	<0.0039	<0.0045	<0.0033	<0.0048	<0.0050	<0.0036	<0.0036	<0.0034	<0.0042	<0.0037	<0.0024	<0.0029	<0.0047
1,3,5-Trimethylbenzene	mg/kg	<0.0049	<0.0047	<0.0041	<0.0061	<0.0037	<0.0053	<0.0043	<0.0038	<0.0033	<0.0043	<0.0037	<0.0039	<0.0045	<0.0033	<0.0048	<0.0050	<0.0036	<0.0036	<0.0034	<0.0042	<0.0037	<0.0024	<0.0029	<0.0047
1,3-Dichlorobenzene	mg/kg	<0.0049	<0.0047	<0.0041	<0.0061	<0.0037	<0.0053	<0.0043	<0.0038	<0.0033	<0.0043	<0.0037	<0.0039	<0.0045	<0.0033	<0.0048	<0.0050	<0.0036	<0.0036	<0.0034	<0.0042	<0.0037	<0.0024	<0.0029	<0.0047
1,3-Dichloropropane	mg/kg	<0.0049	<0.0047	<0.0041	<0.0061	<0.0037	<0.0053	<0.0043	<0.0038	<0.0033	<0.0043	<0.0037	<0.0039	<0.0045	<0.0033	<0.0048	<0.0050	<0.0036	<0.0036	<0.0034	<0.0042	<0.0037	<0.0024	<0.0029	<0.0047
1,4-Dichlorobenzene	mg/kg	<0.0049	<0.0047	<0.0041	<0.0061	<0.0037	<0.0053	<0.0043	<0.0038	<0.0033	<0.0043	<0.0037	<0.0039	<0.0045	<0.0033	<0.0048	<0.0050	<0.0036	<0.0036	<0.0034	<0.0042	<0.0037	<0.0024	<0.0029	<0.0047
1,4-Dioxane	mg/kg	<0.0988	<0.0946	<0.0813	<0.122	<0.0740	<0.105	<0.0855	<0.0761	<0.0652	<0.0864	<0.0738	<0.0779	<0.0904	<0.0654	<0.0964	<0.0996	<0.0711	<0.0718	<0.0681	<0.0835	<0.0740	<0.0471	<0.0579	<0.0943
2,2-Dichloropropane	mg/kg	<0.0049	<0.0047	<0.0041	<0.0061	<0.0037	<0.0053	<0.0043	<0.0038	<0.0033	<0.0043	<0.0037	<0.0039	<0.0045	<0.0033	<0.0048	<0.0050	<0.0036	<0.0036	<0.0034	<0.0042	<0.0037	<0.0024	<0.0029	<0.0047
2-Butanone	mg/kg	<0.0099	<0.0095	<0.0081	0.0267	<0.0074	<0.0105	<0.0085	<0.0076	<0.0065	<0.0086	<0.0074	<0.0078	<0.0090	<0.0065	<0.0096	<0.0100	<0.0071	<0.0072	<0.0068	<0.0084	<0.0074	<0.0047	<0.0058	<0.0094
2-Chlorotoluene	mg/kg	<0.0049	<0.0047	<0.0041	<0.0061	<0.0037	<0.0053	<0.0043	<0.0038	<0.0033	<0.0043	<0.0037	<0.0039	<0.0045	<0.0033	<0.0048	<0.0050	<0.0036	<0.0036	<0.0034	<0.0042	<0.0037	<0.0024	<0.0029	<0.0047
2-Hexanone	mg/kg	<0.0099	<0.0095	<0.0081	<0.0122	<0.0074	<0.0105	<0.0085	<0.0076	<0.0065	<0.0086	<0.0074	<0.0078	<0.0090	<0.0065	<0.0096	<0.0100	<0.0071	<0.0072	<0.0068	<0.0084	<0.0074	<0.0047	<0.0058	<0.0094
4-Chlorotoluene	mg/kg	<0.0049	<0.0047	<0.0041	<0.0061	<0.0037	<0.0053	<0.0043	<0.0038	<0.0033	<0.0043	<0.0037	<0.0039	<0.0045	<0.0033	<0.0048	<0.0050	<0.0036	<0.0036	<0.0034	<0.0042	<0.0037	<0.0024	<0.0029	<0.0047
4-Isopropyltoluene	mg/kg	<0.0049	<0.0047	<0.0041	<0.0061	<0.0037	<0.0053	<0.0043	<0.0038	<0.0033	<0.0043	<0.0037	<0.0039	<0.0045	<0.0033	<0.0048	<0.0050	<0.0036	<0.0036	<0.0034	<0.0042	<0.0037	<0.0024	<0.0029	<0.0047
4-Methyl-2-Pentanone	mg/kg	<0.0099	<0.0095	<0.0081	<0.0122	<0.0074	<0.0105	<0.0085	<0.0076	<0.0065	<0.0086	<0.0074	<0.0078	<0.0090	<0.0065	<0.0096	<0.0100	<0.0071	<0.0072	<0.0068	<0.0084	<0.0074	<0.0047	<0.0058	<0.0094
Acetone	mg/kg	<0.0099	<0.0095	0.033	0.214	0.0386	<0.0105	<0.0085	<0.0076	<0.0065	<0.0086	<0.0074	0.017	0.0256	0.0195	<0.0096	<0.0100	<0.0071	<0.0072	<0.0068	<0.0084	<0.0074	0.0126	<0.0058	<0.0094
Benzene	mg/kg	<0.0049	<0.0047	<0.0041	<0.0061	<0.0037	<0.0053	<0.0043	<0.0038	<0.0033	<0.0043	<0.0037	<0.0039	<0.0045	<0.0033	<0.0048	<0.0050	<0.0036	<0.0036	<0.0034	<0.0042	<0.0037	<0.0024	<0.0029	<0.0047
Bromobenzene	mg/kg	<0.0049	<0.0047	<0.0041	<0.0061	<0.0037	<0.0053	<0.0043	<0.0038	<0.0033	<0.0043	<0.0037	<0.0039	<0.0045	<0.0033	<0.0048	<0.0050	<0.0036	<0.0036	<0.0034	<0.0042	<0.0037	<0.0024	<0.0029	<0.0047
Bromochloromethane	mg/kg	<0.0049	<0.0047	<0.0041	<0.0061	<0.0037	<0.0053	<0.0043	<0.0038	<0.0033	<0.0043	<0.0037	<0.0039	<0.0045	<0.0033	<0.0048	<0.0050	<0.0036	<0.0036	<0.0034	<0.0042	<0.0037	<0.0024	<0.0029	<0.0047
Bromodichloromethane	mg/kg	<0.0049	<0.0047	<0.0041	<0.0061	<0.0037	<0.0053	<0.0043	<0.0038	<0.0033	<0.0043	<0.0037	<0.0039	<0.0045	<0.0033	<0.0048	<0.0050	<0.0036	<0.0036	<0.0034	<0.0042	<0.0037	<0.0024	<0.0029	<0.0047
Bromoform	mg/kg	<0.0049	<0.0047	<0.0041	<0.0061	<0.0037	<0.0053	<0.0043	<0.0038	<0.0033	<0.0043	<0.0037	<0.0039	<0.0045	<0.0033	<0.0048	<0.0050	<0.0036	<0.0036	<0.0034	<0.0042	<0.0037	<0.0024	<0.0029	<0.0047
Bromomethane	mg/kg	<0.0099	<0.0095	<0.0081	<0.0122	<0.0074	<0.0105	<0.0085	<0.0076	<0.0065	<0.0086	<0.0074	<0.0078	<0.0090	<0.0065	<0.0096	<0.0100	<0.0071	<0.0072	<0.0068	<0.0084	<0.0074	<0.0047	<0.0058	<0.0094
Carbon Disulfide	mg/kg	<0.0049	<0.0047	<0.0041	0.0149	<0.0037	<0.0053	<0.0043	<0.0038	<0.0033	<0.0043	<0.0037	<0.0039	<0.0045	0.0053	<0.0048	<0.0050	<0.0036	<0.0036	<0.0034	<0.0042	<0.0037	<0.0024	<0.0029	<0.0047
Carbon Tetrachloride	mg/kg	<0.0049	<0.0047	<0.0041	<0.0061	<0.0037	<0.0053	<0.0043	<0.0038	<0.0033	<0.0043	<0.0037	<0.0039	<0.0045	<0.0033	<0.0048	<0.0050	<0.0036	<0.0036	<0.0034	<0.0042	<0.0037	<0.0024	<0.0029	<0.0047
Chlorobenzene	mg/kg	<0.0049	<0.0047	<0.0041	<0.0061	<0.0037	<0.0053	<0.0043	<0.0038	<0.0033	<0.0043	<0.0037	<0.0039	<0.0045	<0.0033	<0.0048	<0.0050	<0.0036	<0.0036	<0.0034	<0.0042	<0.0037	<0.0024	<0.0029	<0.0047
Chloroethane	mg/kg	<0.0099	<0.0095	<0.0081	<0.0122	<0.0074	<0.0105	<0.0085	<0.0076	<0.0065	<0.0086	<0.0074	<0.0078	<0.0090	<0.0065	<0.0096	<0.0100	<0.0071	<0.0072	<0.0068	<0.0084	<0.0074	<0.0047	<0.0058	<0.0094
Chloroform	mg/kg	<0.0049	<0.0047	<0.0041	<0.0061	<0.0037	<0.0053	<0.0043	<0.0038	<0.0033	<0.0043	<0.0037	<0.0039	<0.0045	<0.0033	<0.0048	<0.0050	<0.0036	<0.0036	<0.0034	<0.0042	<0.0037	<0.0024	<0.0029	<0.0047
Chloromethane	mg/kg	<0.0099	<0.0095	<0.0081	<0.0122	<0.0074	<0.0105	<0.0085	<0.0076	<0.0065	<0.0086	<0.0074	<0.0078	<0.0090	<0.0065	<0.0096	<0.0100	<0.0071	<0.0072	<0.0068	<0.0084	<0.0074	<0.0047	<0.0058	<0.0094
cis-1,2-Dichloroethene	mg/kg	<0.0049	<0.0047	<0.0041	<0.0061	<0.0037	<0.0053	<0.0043	<0.0038	<0.0033	<0.0043	<0.0037	<0.0039	<0.0045	<0.0033	<0.0048	<0.0050	<0.0036	<0.0036	<0.0034	<0.0042	<0.0037	<0.0024	<0.0029	<0.0047
cis-1,3-Dichloropropene	mg/kg	<0.0049	<0.0047	<0.0041	<0.0061	<0.0037	<0.0053	<0.0043	<0.0038	<0.0033	<0.0043	<0.0037	<0.0039	<0.0045	<0.0033	<0.0048	<0.0050	<0.0036	<0.0036	<0.0034	<0.0042	<0.0037	<0.0024	<0.0029	<0.0047
Dibromochloromethane	mg/kg	<0.0020	<0.0019	<0.0016	<0.0024	<0.0015	<0.0021	<0.0017	<0.0015	<0.0013	<0.0017	<0.0015	<0.0016	<0.0018	<0.0013	<0.0019	<0.0020	<0.0014	<0.0014	<0.0014	<0.0017	<0.0015	<0.0009	<0.0012	<0.0019
Dibromomethane	mg/kg	<0.0049	<0.0047	<0.0041	<0.0061	<0.0037	<0.0053	<0.0043	<0.0038	<0.0033	<0.0043	<0.0037	<0.0039	<0.0045	<0.0033	<0.0048	<0.0050	<0.0036	<0.0036	<0.0034	<0.0042	<0.0037	<0.0024	<0.0029	<0.0047
Dichlorodifluoromethane	mg/kg	<0.0099	<0.0095	<0.0081	<0.0122	<0.0074	<0.0105	<0.0085	<0.0076	<0.0065	<0.0086	<0.0074	<0.0078	<0.0090	<0.0065	<0.0096	<0.0100	<0.0071	<0.0072	<0.0068	<0.0084	<0.0074	<0.0047	<0.0058	<0.0094
Diethyl Ether	mg/kg	<0.0049	<0.0047	<0.0041	<0.0061	<0.0037	<0.0053	<0.0043	<0.0038	<0.0033	<0.0043	<0.0037	<0.0039	<0.0045	<0.0033	<0.0048	<0.0050	<0.0036	<0.0036	<0.0034	<0.0042	<0.0037	<0.0024	<0.0029	<0.0047
Di-isopropyl ether	mg/kg	<0.0049	<0.0047	<0.0041	<0.0061	<0.0037	<0.0053	<0.0043	<0.0038	<0.0033	<0.0043	<0.0037	<0.0039	<0.0045	<0.0033	<0.0048	<0.0050	<0.0036	<0.0036	<0.0034	<0.0042	<0.0037	<0.0024	<0.0029	<0.0047
Ethyl tertiary-butyl ether	mg/kg	<0.0049	<0.0047	<0.0041	<0.0061	<0.0037	<0.0053	<0.0043	<0.0038	<0.0033	<0.0043	<0.0037	<0.0039	<0.0045	<0.0033	<0.0048	<0.0050	<0.0036	<0.0036	<0.0034	<0.0042	<0.0037	<0.0024	<0.0029	<0.0047
Ethylbenzene	mg/kg	<0.0049	<0.0047	<0.0041	<0.0061	<0.0037	<0.0053	<0.0043	<0.0038	<0.0033	<0.0043	<0.0037	<0.0039	<0.0045	<0.0033	<0.0048	<0.0050	<0.0036	<0.0036	<0.0034	<0.0042	<0.0037	<0.0024	<0.0029	<0.0047
Hexachlorobutadiene	mg/kg	<0.0049	<0.0047	<0.0041	<0.0061	<0.0037	<0.0053	<0.0043	<0.0038	<0.0033	<0.0043	<0.0037	<0.0039	<0.0045	<0.0033	<0.0048	<0.0050	<0.0036	<0.0036	<0.0034	<0.0042	<0.0037	<0.0024	<0.0029	<0.0047
Isopropylbenzene	mg/kg	<0.0049	<0.0047	<0.0041	<0.0061	<0.0037	<0.0053	<0.0043	<0.0038	<0.0033	<0.0043	<0.0037	<0.0039	<0.0045	<0.0033	<0.0048	<0.0050	<0.0036	<0.0036	<0.0034	<0.0042	<0.0037	<0.0024	<0.0029	<0.0047
Methyl tert-Butyl Ether	mg/kg	<0.0049	<0.0047	<0.0041	<0.0061	<0.0037	<0.0053	<0.0043	<0.0038	<0.0033	<0.0043	<0.0037	<0.0039	<0.0045	<0.0033	<0.0048	<0.0050	<0.0036	<0.0036	<0.0034	<0.0042	<0.0037	<0.0024	<0.0029	<0.0047
Methylene Chloride	mg/kg	<0.0099	<0.0095	<0.0081	<0.0122	<0.0074	<0.0105	<0.0085	<0.0076	<0.0065	<0.0086	<0.0074	<0.0078	<0.0090	<0.0065	<0.0096	<0.0100	<0.0071	<0.0072	<0.0068	<0.0084	<0.0074	<0.0047	<0.0058	<0.0094
Naphthalene	mg/kg	<0.0049	<0.0047	<0.0041	<0.0061	<0.0037	<0.0053	<0.0043	<0.0038	<0.0033	<0.0043	<0.0037	<0.0039	0.0448	<0.0033	<0.0048	<0.0050	<0.0036	<0.0036	<0.0034	<0.0042	<0.0037	<0.0024	<0.0029	<0.0047
n-Butylbenzene	mg/kg	<0.0049	<0.0047	<0.0041	<0.0061	<0.0037	<0.0053	<0.0043	<0.0038	<0.0033	<0.0043	<0.0037	<0.0039	<0.0045	<0.0033	<0.0048	<0.0050	<0.0036	<0.0036	<0.0034	<0.0042	<0.0037	<0.0024	<0.0029	<0.0047
n-Propylbenzene	mg/kg	<0.0049	<0.0047	<0.0041	<0.0061	<0.0037	<0.0053	<0.0043	<0.0038	<0.0033	<0.0043	<0.0037	<0.0039	<0.0045	<0.0033	<0.0048	<0.0050	<0.0036	<0.0036	<0.0034	<0.0042	<0.0037	<0.0024	<0.0029	<0.0047
sec-Butylbenzene	mg/kg	<0.0049	<0.0047	<0.0041	<0.0061	<0.0037	<0.0053	<0.0043	<0.0038	<0.0033	<0.0043	<0.0037	<0.0039	<0.0045	<0.0033	<0.0048	<0.0050	<0.0036	<0.0036	<0.0034	<0.0042	<0.0037	<0.0024	<0.0029	<0.0047

Table 1
Soil Precharacterization Data

Wynn Resort Casino
Everett, Massachusetts

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	H15 H15S01S02A 1501112 Fill 0 - 3.3 1/7/2015	H15 H15S02BS04A 1501112 Fill 3.3 - 6.6 1/7/2015	H15 H15S04BS05 1501112 Fill 6.6 - 10 1/7/2015	H15 H15S06 1501112 Natural Clay 10 - 12 1/7/2015	H15 H15S07 1501112 Natural Clay 14 - 16 1/7/2015	H15 H15S08 1501112 Natural Clay 19 - 21 1/7/2015	H15 H15S09 1501112 Natural Clay 24 - 26 1/7/2015	H15 H15S10 1501112 Natural Clay 29 - 31 1/7/2015	H15 H15S11S12 1501112 Natural Clay 34 - 38 1/7/2015	H16 H16S01S02A 1501056 Fill 0 - 3.3 1/6/2015	H16 H16S02BS04A 1501056 Fill 3.3 - 6.6 1/6/2015	H16 H16S04BS05 1501056 Fill 6.6 - 10 1/6/2015	H16 H16S07 1501056 Natural Sand/Gravel 12 - 14 1/6/2015	H16 H16S08 1501056 Natural Clay 14 - 16 1/6/2015	H16 H16S09 1501112 Natural Clay 19 - 21 1/7/2015	H16 H16S10 1501112 Natural Clay 24 - 26 1/7/2015	H16 H16S11 1501112 Natural Sand/Gravel 29 - 31 1/7/2015	H16 H16S12S13 1501112 Natural Clay 34 - 38 1/7/2015	H17 GZ02SS01S02A 1503112 Fill 0 - 3.3 3/6/2015	H17 GZ02SS02BS04A 1503112 Fill 3.3 - 6.6 3/6/2015	H17 GZ02SS04BS05 1503112 Fill 6.6 - 10 3/6/2015	H17 GZ02SS04BS05 1503112 Fill 6.6 - 10 3/6/2015	H17 GZ02SS07BS08A 1503112 Fill 13.3 - 16.6 3/6/2015	H17 GZ02SS09BS10 1503112 Natural Clay 16.6 - 20 3/6/2015
Preliminary Disposal Facility Category		MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Uncontaminated	Uncontaminated	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Restricted
Styrene	mg/kg	<0.0049	<0.0047	<0.0041	<0.0061	<0.0037	<0.0053	<0.0043	<0.0038	<0.0033	<0.0043	<0.0037	<0.0039	<0.0045	<0.0033	<0.0048	<0.0050	<0.0036	<0.0036	<0.0034	<0.0042	<0.0037	<0.0024	<0.0029	<0.0047
tert-Butylbenzene	mg/kg	<0.0049	<0.0047	<0.0041	<0.0061	<0.0037	<0.0053	<0.0043	<0.0038	<0.0033	<0.0043	<0.0037	<0.0039	<0.0045	<0.0033	<0.0048	<0.0050	<0.0036	<0.0036	<0.0034	<0.0042	<0.0037	<0.0024	<0.0029	<0.0047
Tertiary-amyl methyl ether	mg/kg	<0.0049	<0.0047	<0.0041	<0.0061	<0.0037	<0.0053	<0.0043	<0.0038	<0.0033	<0.0043	<0.0037	<0.0039	<0.0045	<0.0033	<0.0048	<0.0050	<0.0036	<0.0036	<0.0034	<0.0042	<0.0037	<0.0024	<0.0029	<0.0047
Tetrachloroethene	mg/kg	<0.0049	<0.0047	<0.0041	<0.0061	<0.0037	<0.0053	<0.0043	<0.0038	<0.0033	<0.0043	<0.0037	<0.0039	<0.0045	<0.0033	<0.0048	<0.0050	<0.0036	<0.0036	<0.0034	<0.0042	<0.0037	<0.0024	<0.0029	<0.0047
Tetrahydrofuran	mg/kg	<0.0049	<0.0047	<0.0041	<0.0061	<0.0037	<0.0053	<0.0043	<0.0038	<0.0033	<0.0043	<0.0037	<0.0039	<0.0045	<0.0033	<0.0048	<0.0050	<0.0036	<0.0036	<0.0034	<0.0042	<0.0037	<0.0024	<0.0029	<0.0047
Toluene	mg/kg	<0.0049	<0.0047	<0.0041	<0.0061	<0.0037	<0.0053	<0.0043	<0.0038	<0.0033	<0.0043	<0.0037	<0.0039	<0.0045	<0.0033	<0.0048	<0.0050	<0.0036	<0.0036	<0.0034	<0.0042	<0.0037	<0.0024	<0.0029	<0.0047
trans-1,2-Dichloroethene	mg/kg	<0.0049	<0.0047	<0.0041	<0.0061	<0.0037	<0.0053	<0.0043	<0.0038	<0.0033	<0.0043	<0.0037	<0.0039	<0.0045	<0.0033	<0.0048	<0.0050	<0.0036	<0.0036	<0.0034	<0.0042	<0.0037	<0.0024	<0.0029	<0.0047
trans-1,3-Dichloropropene	mg/kg	<0.0049	<0.0047	<0.0041	<0.0061	<0.0037	<0.0053	<0.0043	<0.0038	<0.0033	<0.0043	<0.0037	<0.0039	<0.0045	<0.0033	<0.0048	<0.0050	<0.0036	<0.0036	<0.0034	<0.0042	<0.0037	<0.0024	<0.0029	<0.0047
Trichloroethene	mg/kg	<0.0049	<0.0047	<0.0041	<0.0061	<0.0037	<0.0053	<0.0043	<0.0038	<0.0033	<0.0043	<0.0037	<0.0039	<0.0045	<0.0033	<0.0048	<0.0050	<0.0036	<0.0036	<0.0034	<0.0042	<0.0037	<0.0024	<0.0029	<0.0047
Trichlorofluoromethane	mg/kg	<0.0049	<0.0047	<0.0041	<0.0061	<0.0037	<0.0053	<0.0043	<0.0038	<0.0033	<0.0043	<0.0037	<0.0039	<0.0045	<0.0033	<0.0048	<0.0050	<0.0036	<0.0036	<0.0034	<0.0042	<0.0037	<0.0024	<0.0029	<0.0047
Vinyl Chloride	mg/kg	<0.0099	<0.0095	<0.0081	<0.0122	<0.0074	<0.0105	<0.0085	<0.0076	<0.0065	<0.0086	<0.0074	<0.0078	<0.0090	<0.0065	<0.0096	<0.0100	<0.0071	<0.0072	<0.0068	<0.0084	<0.0074	<0.0047	<0.0058	<0.0094
Xylene O	mg/kg	<0.0049	<0.0047	<0.0041	<0.0061	<0.0037	<0.0053	<0.0043	<0.0038	<0.0033	<0.0043	<0.0037	<0.0039	<0.0045	<0.0033	<0.0048	<0.0050	<0.0036	<0.0036	<0.0034	<0.0042	<0.0037	<0.0024	<0.0029	<0.0047
Xylene P,M	mg/kg	<0.0099	<0.0095	<0.0081	<0.0122	<0.0074	<0.0105	<0.0085	<0.0076	<0.0065	<0.0086	<0.0074	<0.0078	<0.0090	<0.0065	<0.0096	<0.0100	<0.0071	<0.0072	<0.0068	<0.0084	<0.0074	<0.0047	<0.0058	<0.0094
Xylenes (Total)	mg/kg	<0.0099	<0.0095	<0.0081	<0.0122	<0.0074	<0.0105	<0.0085	<0.0076	<0.0065	<0.0086	<0.0074	<0.0078	<0.0090	<0.0065	<0.0096	<0.0100	<0.0071	<0.0072	<0.0068	<0.0084	<0.0074	<0.0047	<0.0058	<0.0094
Total VOCs (Low Level)	mg/kg	ND	ND	0.033	0.2556	0.0386	ND	ND	ND	ND	ND	ND	0.017	0.0704	0.0248	ND	ND	ND	ND	ND	ND	ND	0.0126	ND	ND
Semi-Volatile Organic Compounds																									
1,2,4-Trichlorobenzene	mg/kg	<0.835	<0.875	<0.950	<1.38	<1.05	<1.07	<0.994	<0.999	<1.02	<0.729	<0.854	<0.936	<1.16	<1.04	<0.985	<1.01	<0.864	<0.903	<0.854	<0.861	<1.20	<0.953	<1.05	<1.03
1,2-Dichlorobenzene	mg/kg	<0.835	<0.875	<0.950	<1.38	<1.05	<1.07	<0.994	<0.999	<1.02	<0.729	<0.854	<0.936	<1.16	<1.04	<0.985	<1.01	<0.864	<0.903	<0.854	<0.861	<1.20	<0.953	<1.05	<1.03
1,3-Dichlorobenzene	mg/kg	<0.835	<0.875	<0.950	<1.38	<1.05	<1.07	<0.994	<0.999	<1.02	<0.729	<0.854	<0.936	<1.16	<1.04	<0.985	<1.01	<0.864	<0.903	<0.854	<0.861	<1.20	<0.953	<1.05	<1.03
1,4-Dichlorobenzene	mg/kg	<0.419	<0.439	<0.477	<0.692	<0.526	<0.537	<0.498	<0.501	<0.509	<0.366	<0.428	<0.469	<0.582	<0.523	<0.494	<0.506	<0.433	<0.453	<0.428	<0.432	<0.603	<0.478	<0.526	<0.516
2,4,5-Trichlorophenol	mg/kg	<0.835	<0.875	<0.950	<1.38	<1.05	<1.07	<0.994	<0.999	<1.02	<0.729	<0.854	<0.936	<1.16	<1.04	<0.985	<1.01	<0.864	<0.903	<0.854	<0.861	<1.20	<0.953	<1.05	<1.03
2,4,6-Trichlorophenol	mg/kg	<0.835	<0.875	<0.950	<1.38	<1.05	<1.07	<0.994	<0.999	<1.02	<0.729	<0.854	<0.936	<1.16	<1.04	<0.985	<1.01	<0.864	<0.903	<0.854	<0.861	<1.20	<0.953	<1.05	<1.03
2,4-Dichlorophenol	mg/kg	<0.835	<0.875	<0.950	<1.38	<1.05	<1.07	<0.994	<0.999	<1.02	<0.729	<0.854	<0.936	<1.16	<1.04	<0.985	<1.01	<0.864	<0.903	<0.854	<0.861	<1.20	<0.953	<1.05	<1.03
2,4-Dimethylphenol	mg/kg	<0.835	<0.875	<0.950	<1.38	<1.05	<1.07	<0.994	<0.999	<1.02	<0.729	<0.854	<0.936	<1.16	<1.04	<0.985	<1.01	<0.864	<0.903	<0.854	<0.861	<1.20	<0.953	<1.05	<1.03
2,4-Dinitrophenol	mg/kg	<4.19	<4.39	<4.77	<6.92	<5.26	<5.37	<4.98	<5.01	<5.09	<3.66	<4.28	<4.69	<5.82	<5.23	<4.94	<5.06	<4.33	<4.53	<4.28	<4.32	<6.03	<4.78	<5.26	<5.16
2,4-Dinitrotoluene	mg/kg	<0.835	<0.875	<0.950	<1.38	<1.05	<1.07	<0.994	<0.999	<1.02	<0.729	<0.854	<0.936	<1.16	<1.04	<0.985	<1.01	<0.864	<0.903	<0.854	<0.861	<1.20	<0.953	<1.05	<1.03
2,6-Dinitrotoluene	mg/kg	<0.835	<0.875	<0.950	<1.38	<1.05	<1.07	<0.994	<0.999	<1.02	<0.729	<0.854	<0.936	<1.16	<1.04	<0.985	<1.01	<0.864	<0.903	<0.854	<0.861	<1.20	<0.953	<1.05	<1.03
2-Chloronaphthalene	mg/kg	<0.835	<0.875	<0.950	<1.38	<1.05	<1.07	<0.994	<0.999	<1.02	<0.729	<0.854	<0.936	<1.16	<1.04	<0.985	<1.01	<0.864	<0.903	<0.854	<0.861	<1.20	<0.953	<1.05	<1.03
2-Chlorophenol	mg/kg	<0.835	<0.875	<0.950	<1.38	<1.05	<1.07	<0.994	<0.999	<1.02	<0.729	<0.854	<0.936	<1.16	<1.04	<0.985	<1.01	<0.864	<0.903	<0.854	<0.861	<1.20	<0.953	<1.05	<1.03
2-Methylnaphthalene	mg/kg	<0.835	<0.875	<0.950	<1.38	<1.05	<1.07	<0.994	<0.999	<1.02	<0.729	<0.854	<0.936	<1.16	<1.04	<0.985	<1.01	<0.864	<0.903	<0.854	<0.861	<1.20	<0.953	<1.05	<1.03
2-Methylphenol	mg/kg	<0.835	<0.875	<0.950	<1.38	<1.05	<1.07	<0.994	<0.999	<1.02	<0.729	<0.854	<0.936	<1.16	<1.04	<0.985	<1.01	<0.864	<0.903	<0.854	<0.861	<1.20	<0.953	<1.05	<1.03
2-Nitrophenol	mg/kg	<0.835	<0.875	<0.950	<1.38	<1.05	<1.07	<0.994	<0.999	<1.02	<0.729	<0.854	<0.936	<1.16	<1.04	<0.985	<1.01	<0.864	<0.903	<0.854	<0.861	<1.20	<0.953	<1.05	<1.03
3,3´-Dichlorobenzidine	mg/kg	<1.67	<1.75	<1.90	<2.77	<2.10	<2.15	<1.99	<2.00	<2.03	<1.46	<1.71	<1.87	<2.33	<2.09	<1.97	<2.02	<1.73	<1.81	<1.71	<1.72	<2.41	<1.91	<2.10	<2.06
3+4-Methylphenol	mg/kg	<1.67	<1.75	<1.90	<2.77	<2.10	<2.15	<1.99	<2.00	<2.03	<1.46	<1.71	<1.87	<2.33	<2.09	<1.97	<2.02	<1.73	<1.81	<1.71	<1.72	<2.41	<1.91	<2.10	<2.06
4-Bromophenyl-phenylether	mg/kg	<0.835	<0.875	<0.950	<1.38	<1.05	<1.07	<0.994	<0.999	<1.02	<0.729	<0.854	<0.936	<1.16	<1.04	<0.985	<1.01	<0.864	<0.903	<0.854	<0.861	<1.20	<0.953	<1.05	<1.03
4-Chloroaniline	mg/kg	<1.67	<1.75	<1.90	<2.77	<2.10	<2.15	<1.99	<2.00	<2.03	<1.46	<1.71	<1.87	<2.33	<2.09	<1.97	<2.02	<1.73	<1.81	<1.71	<1.72	<2.41	<1.91	<2.10	<2.06
4-Nitrophenol	mg/kg	<4.19	<4.39	<4.77	<6.92	<5.26	<5.37	<4.98	<5.01	<5.09	<3.66	<4.28	<4.69	<5.82	<5.23	<4.94	<5.06	<4.33	<4.53	<4.28	<4.32	<6.03	<4.78	<5.26	<5.16
Acenaphthene	mg/kg	<0.835	<0.875	<0.950	<1.38	<1.05	<1.07	<0.994	<0.999	<1.02	<0.729	<0.854	<0.936	<1.16	<1.04	<0.985	<1.01	<0.864	<0.903	<0.854	<0.861	<1.20	<0.953	<1.05	<1.03
Acenaphthylene	mg/kg	<0.835	<0.875	<0.950	<1.38	<1.05	<1.07	<0.994	<0.999	<1.02	<0.729	<0.854	<0.936	<1.16	<1.04	<0.985	<1.01	<0.864	<0.903	<0.854	<0.861	<1.20	<0.953	<1.05	<1.03
Acetophenone	mg/kg	<1.67	<1.75	<1.90	<2.77	<2.10	<2.15	<1.99	<2.00	<2.03	<1.46	<1.71	<1.87	<2.33	<2.09	<1.97	<2.02	<1.73	<1.81	<1.71	<1.72	<2.41	<1.91	<2.10	<2.06
Aniline	mg/kg	<4.19	<4.39	<4.77	<6.92	<5.26	<5.37	<4.98	<5.01	<5.09	<3.66	<4.28	<4.69	<5.82	<5.23	<4.94	<5.06	<4.33	<4.53	<4.28	<4.32	<6.03	<4.78	<5.26	<5.16
Anthracene	mg/kg	<0.835	<0.875	<0.950	<1.38	<1.05	<1.07	<0.994	<0.999	<1.02	<0.729	<0.854	<0.936	1.27	<1.04	<0.985	<1.01	<0.864	<0.903	<0.854	<0.861	<1.20	<0.953	<1.05	<1.03
Azobenzene	mg/kg	<0.835	<0.875	<0.950	<1.38	<1.05	<1.07	<0.994	<0.999	<1.02	<0.729	<0.854	<0.936	<1.16	<1.04	<0.985	<1.01	<0.864	<0.903	<0.854	<0.861	<1.20	<0.953	<1.05	<1.03
Benzo(a)anthracene	mg/kg	<0.835	<0.875	<0.950	4.19	<1.05	<1.07	<0.994	<0.999	<1.02	<0.729	<0.854	<0.936	<1.16	<1.04	<0.985	<1.01	<0.864	<0.903	<0.854	<0.861	<1.20	<0.953	<1.05	<1.03
Benzo(a)pyrene	mg/kg	<0.419	<0.439	<0.477	3.1	<0.526	<0.537	<0.498	<0.501	<0.509	<0.366	<0.428	0.709	0.658	<0.523	<0.494	<0.506	<0.433	<0.453	<0.428	<0.432	<0.603	<0.478	<0.526	<0.516
Benzo(b)fluoranthene	mg/kg	<0.835	<0.875	<0.950	4.47	<1.05	<1.07	<0.994	<0.999	<1.02	<0.729	<0.854	1.13	<1.16	<1.04	<0.985	<1.01	<0.864	<0.903	<0.854	<0.861	<1.20	<0.953	<1.05	<1.03
Benzo(g,h,i)perylene	mg/kg	<0.835	<0.875	<0.950	<1.38	<1.05	<1.07	<0.994	<0.999	<1.02	<0.729	<0.854	<0.936	<1.16	<1.04	<0.985	<1.01	<0.864	<0.903	<0.854	<0.861	<1.20	<0.953	<1.05	<1.03
Benzo(k)fluoranthene	mg/kg	<0.835	<0.875	<0.950	2.45	<1.05	<1.07	<0.994	<0.999	<1.02	<0.729	<0.854	<0.936	<1.16	<1.04	<0.985	<1.01	<0.864	<0.903	<0.854	<0.861	<1.20	<0.953	<1.05	<1.03
bis(2-Chloroethoxy)methane	mg/kg	<0.835	<0.875	<0.950	<1.38	<1.05	<1.07	<0.994	<0.999	<1.02	<0.729	<0.854	<0.936	<1.16	<1.04	<0.985	<1.01	<0.864	<0.903	<0.854	<0.861	<1.20	<0.953	<1.05	<1.03
bis(2-Chloroethyl)ether	mg/kg	<0.419	<0.439	<0.477	<0.692	<0.526	<0.537	<0.498	<0.501	<0.509	<0.366	<0.428	<0.469	<0.582	<0.523	<0.494	<0.506	<0.433	<0.453	<0.428	<0.432	<0.603	<0.478	<0.526	<0.516
bis(2-chloroisopropyl)Ether	mg/kg	<0.419	<0.439	<0.477	<0.692	<0.526	<0.537	<0.498	<0.501	<0.509	<0.366	<0.428	<0.469	<0.582	<0.523	<0.494	<0.506	<0.433	<0.453	<0.428	<0.432	<0.603	<0.478	<0.526	<0.516
bis(2-Ethylhexyl)phthalate	mg/kg	<0.835	<0.875	<0.950	<1.38	<1.05	<1.07	<0.994	<0.999	<1.02	<0.729	<0.854	<0.936	<1.16	<1.04	<0.985	<1.01	<0.864	<0.903	<0.854	<0.861	<1.20	<0.953	<1.05	<1.03
Butylbenzylphthalate	mg/kg	<0.835	<0.875	<0.950	<1.38	<1.05	<1.07	<0.994	<0.999	<1.02	<0.729	<0.854	<0.936	<1.16	<1.04	<0.985	<1.01	<0.864	<0.903	<0.854	<0.861	<1.20	<0.953	1.36	<1.03
Chrysene	mg/kg	<0.419	<0.439	<0.477	3.73	<0.526	<0.537	<0.498	<0.501	<0.509	<0.366	<0.428	0.96	0.957	<0.523	<0.494	<0.506	<0.433	<0.453	<0.428	<0.432	<0.603	<0.478	<0.526	<0.516
Dibenzo(a,h)Anthracene	mg/kg	<0.419	<0.439	<0.477	<0.692	<0.526	<0.537	<0.498	<0.501	<0.509	<0.366	<0.428	<0.469	<0.582	<0.523	<0.494	<0.506	<0.433	<0.453	<0.428	<0.432	<0.603	<0.478	<0.526	<0.516
Dibenzofuran	mg/kg	<0.835	<0.875	<0.950	<1.38	<1.05	<1.07	<0.994	<0.999	<1.02	<0.729	<0.854	<0.936	1.66	<1.04	<0.985	<1.01	<0.864	<0.903	<0.854	<0.861	<1.20	<0.953	<1.05	<1.03
Diethylphthalate	mg/kg	<0.835	<0.875	<0.950	<1.38	<1.05	<1.07	<0.994	<0.999	<1.02	<0.729	<0.854	<0.936	<1.16	<1.04	<0.985	<1.01	<0.864	<0.903	<0.854	<0.861	<1.20	<0.953	<1.05	<1.03
Dimethylphthalate	mg/kg	<0.835	<0.875	<0.950	<1.38	<1.05	<1.07	<0.994	<0.999	<1.02	<0.729	<0.854	<0.936	<1.16	<1.04	<0.985	<1.01	<0.864	<0.903	<0.854	<0.861	<1.20	<0.953	<1.05	<1.03
Di-n-butylphthalate	mg/kg	<0.835	<0.875	<0.950	<1.38	<1.05	<1.07	<0.994	<0.999	<1.02	<0.729	<0.854	<0.936	<1.16	<1.04	<0.985	<1.01	<0.864	<0.903	<0.854	<0.861	<1.20	<0.953	<1.05	<1.03
Di-n-octylphthalate	mg/kg	<0.835	<0.875	<0.950	<1.38	<1.05	<1.07	<0.994	<0.999	<1.02	<0.729	<0.854	<0.936	<1.16	<1.04	<0.985	<1.01	<0.864	<0.903	<0.854	<0.861	<1.20	<0.953	<1.05	<1.03
Fluoranthene	mg/kg	<0.835	<0.875	<0.950	6.78	<1.05	<1.07	<0.994	<0.999	<1.02	<0.729	<0.854	1.54	2.65	<1.04	<0.985	<1.01	<0.864	<0.903	<0.854	<0.861	<1.20	<0.953	<1.05	<1.03
Fluorene	mg/kg	<0.835	<0.875	<0.950	<1.38	<1.05	<1.07	<0.994	<0.999	<1.02	<0.729	<0.854	<0.936	<1.16	<1.04	<0.985	<1.01	<0.864	<0.903	<0.854	<0.861	<1.20	<0.953	<1.05	<1.03
Hexachlorobenzene	mg/kg	<0.419	<0.439	<0.477	<0.692	<0.526	<0.537	<0.498	<0.501	<0.509	<0.366	<0.428	<0.469	<0.582	<0.523	<0.494	<0.506	<0.433	<0.453	<0.428	<0.432	<0.603	<0.478	<0.526	<0.516
Hexachlorobutadiene	mg/kg	<0.835	<0.875	<0.950	<1.38	<1.05	<1.07	<0.994	<0.999	<1.02	<0.729	<0.854	<0.936	<1.16	<1.04	<0.985	<1.01	<0.864	<0.903	<0.854	<0.861	<1.20	<0.953	<1.05	<1.03
Hexachloroethane	mg/kg	<0.835	<0.875	<0.950	<1.38	<1.05	<1.07	<0.994	<0.999	<1.02	<0.729	<0.854	<0.936	<1.16	<1.04	<0.985	<1.01	<0.864	<0.903	<0.854	<0.861	<1.20	<0.953	<1.05	<1.03
Indeno(1,2,3-cd)Pyrene	mg/kg	<0.835	<0.875	<0.950	<1.38	<1.05	<1.07	<0.994	<0.999	<1.02	<0.729	<0.854	<0.936	<1.16	<1.04	<0.985	<1.01	<0.864	<0.903	<0.854	<0.861	<1.20	<0.953	<1.05	<1.03
Isophorone	mg/kg	<0.835	<0.875	<0.950	<1.38	<1.05	<1.07	<0.994	<0.999	<1.02	<0.729	<0.854	<0.936	<1.16	<1.04	<0.985	<1.01	<0.864	<0.903	<0.854	<0.861	<1.20	<0.953	<1.05	<1.03
Naphthalene	mg/kg	<0.835	<0.875	<0.950	<1.38	<1.05	<1.07	<0.994	<0.999	<1.02	<0.729	<0.854	<0.936	2.07	<1.04	<0.985	<1.01	<0.864	<0.903	<0.854	<0.861	<1.20	<0.953	<1.05	<1.03
Nitrobenzene	mg/kg	<0.835	<0.875	<0.950	<1.38	<1.05	<1.07	<0.994	<0.999	<1.02	<0.729	<0.854	<0.936	<1.16	<1.04	<0.985	<1.01	<0.864	<0.903	<0.854	<0.861	<1.20	<0.953	<1.05	<1.03
N-Nitrosodimethylamine	mg/kg	<0.835	<0.875	<0.950	<1.38	<1.05	<1.07	<0.994	<0.999	<1.02	<0.729	<0.854	<0.936	<1.16	<1.04	<0.985	<1.01	<0.864	<0.903	<0.854	<0.861	<1.20	<0.953	<1.05	<1.03
Pentachlorophenol	mg/kg	<4.19	<4.39	<4.77	<6.92	<5.26	<5.37	<4.98	<5.01	<5.09	<3.66	<4.28	<4.69	<5.82	<5.23	<4.94	<5.06	<4.33	<4.53	<4.28	<4.32	<6.03	<4.78	<5.26	<5.16
Phenanthrene	mg/kg	<0.835	<0.875	<0.950	2.38	<1.05	<1.07	<0.994	<0.999	<1.02	<0.729	<0.854	1.17	2.52	<1.04	<0.985	<1.01	<0.864	<0.903	<0.854	<0.861	<1.20	<0.953	<1.05	<1.03
Phenol	mg/kg	<0.835	<0.875	<0.950	<1.38	<1.05	<1.07	<0.994	<0.999	<1.02	<0.729	<0.854	<0.936	<1.16	<1.04	<0.985	<1.01	<0.864	<0.903	<0.854	<0.861	<1.20	<0.953	<1.05	<1.03
Pyrene	mg/kg	<0.835	<0.875	<0.950	4.98	<1.05	<1.07	<0.994	<0.999	<1.02	<0.729	<0.854	1.51	2.35	<1.04	<0.985	<1.01	<0.864	<0.903	<0.854	<0.861	<1.20	<0.953	<1.05	<1.03
Total SVOCs	mg/kg	ND	ND	ND	32.08	ND	ND	ND	ND	ND	ND	ND	7.019	14.135	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	ND
Classic Chemistry																									
Corrosivity (pH)	S.U.	8.61	8.55	7.16	6.71	6.62	6.85	6.93	6.82	6.64	8.64	8.55	6.94	7.21	7.81	7.59	7.3	6.52	5.51	8.45	7.69	5.5	11	5.58	6.09
Conductivity	umhos/cm	162	1140	217	172	1730	1750	6330	5260	4390	210	632	1070	686	1260	3870	3520	1260	1130	617	1740	1640	793	1480	1620
Flashpoint	°F	>200	>200	>200	--	--	--	--	--	--	>200	>200	>200	--	--	--	--	--	--	>200	>200	>200	>200	>200	--
Reactive Cyanide	mg/kg	<2.0	<2.0	<2.0	--	--	--	--	--	--	<2.0	<2.0	<2.0	--	--	--	--	--	--	<2.0	<2.0	<2.0	<2.0	<2.0	--
Reactive Sulfide	mg/kg	<2.0	<2.0	<2.0	--	--	--	--	--	--	<2.0	<2.0	<2.0	--	--	--	--	--	--	<2.0	<2.0	<2.0	<2.0	<2.0	--

Table 1
Soil Precharacterization Data

Wynn Resort Casino
Everett, Massachusetts

Analyte	Precharacterization Cell	H17	H17	H17	H17	H17	H18	H18	H18	H18	H18	H18	H18	H18	H18	I07	I07	I07	I07	I07	I07	I07	I07	I07	I08
	Sample ID	GZ025S11	GZ025S12	GZ025S13	GZ025S14	GZ025S15	H18S01S02A	H18S02BS04A	H18S04BS05	H18S06S07A	H18S08	H18S09	H18S10	H18S11	H18S12S13	I07S01S02A	I07S02BS04A	I07S04BS05	I07S06S07	I07S08	I07S09	I07S10	I07S11	I07S12S13	I08S01S02A
	Laboratory Work Order	1503112	1503112	1503112	1503112	1503112	1501030	1501030	1501030	1501030	1501056	1501056	1501056	1501056	1501056	1501489	1501489	1501489	1501489	1501489	1501489	1501489	1501489	1501489	1502186
	Soil Distinction	Natural	Natural	Natural	Natural	Natural	Fill	Fill	Fill	Fill	Natural	Natural	Natural	Natural	Natural	Fill	Fill	Fill	Natural	Natural	Natural	Natural	Natural	Natural	Fill
	Soil Type	Clay	Clay	Clay	Sand/Gravel	Sand/Gravel					Clay	Clay	Sand/Gravel	Sand/Gravel	Sand/Gravel				Organics	Clay	Clay	Clay	Clay	Clay	
	Depth Interval (ft.)	20 - 22	24 - 26	29 - 31	34 - 36	36 - 38	0 - 3.3	3.3 - 6.6	6.6 - 10	10 - 13.3	14 - 16	19 - 21	24 - 26	29 - 31	34 - 38	0 - 3.3	3.3 - 6.6	6.6 - 9	10 - 14	14 - 16	19 - 21	24 - 26	29 - 31	34 - 38	0 - 3.3
	Sampling Date	3/6/2015	3/6/2015	3/6/2015	3/6/2015	3/6/2015	1/5/2015	1/5/2015	1/5/2015	1/5/2015	1/6/2015	1/6/2015	1/6/2015	1/6/2015	1/6/2015	1/23/2015	1/23/2015	1/23/2015	1/23/2015	1/23/2015	1/23/2015	1/23/2015	1/23/2015	1/23/2015	1/23/2015	2/12/2015
Preliminary Disposal Facility Category		MCP Regulated Type A	MCP Regulated Type B-1	MCP Restricted	Uncontaminated	Uncontaminated	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Restricted	Uncontaminated	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	Hazardous Material Type A	MCP Regulated Type B-1	MCP Regulated Type A	Hazardous Material Type A
RCRA 8 Metals	**Units**																								
Arsenic	mg/kg	14.3	16.3	11.8	<7.55	9.49	7.76	13.5	32.1	74.6	33	12.9	4.92	8.85	4.02	13.8	15	<7.08	<8.59	14.6	11.4	<8.17	8.04	<7.19	16.2
Barium	mg/kg	101	98.1	103	10.5	32.8	15.7	224	301	75.9	78.7	22	9.14	69.4	30.8	54.5	79.7	25.2	9.99	123	109	68	19.1	36.4	65.6
Cadmium	mg/kg	<1.70	<1.45	<1.65	<1.51	<1.45	<0.50	0.81	2.85	11.8	21.5	1.6	0.45	<0.57	<0.58	<1.40	<1.54	2.9	<1.72	<1.66	<1.57	<1.63	<1.51	<1.44	<1.24
Chromium	mg/kg	52.5	61.8	48.5	9.44	19.4	17.2	13.7	3.45	20.8	12.5	20.1	9.88	38.1	20	14.2	17	12.1	10	65.1	51	44.9	17.9	20.1	14
Lead	mg/kg	<17.0	17.2	<16.5	<15.1	<14.5	12.6	230	294	687	358	8.04	17.3	12.4	8.53	209	183	16.4	<17.2	21.4	17.2	<16.3	<15.1	<14.4	1580
Selenium	mg/kg	<8.51	<7.27	<8.23	<7.55	<7.27	<10.1	<10.4	<9.62	<12.9	<12.7	<11.3	<8.11	<11.3	<11.5	<7.00	<7.68	<14.2	<17.2	<8.30	<7.86	<8.17	<7.54	<14.4	<6.19
Silver	mg/kg	<1.70	<1.45	<1.65	<1.51	<1.45	<0.50	0.94	1.95	4.09	22.5	<0.57	<0.41	<0.57	<0.58	<1.40	1.59	<1.42	<1.72	<1.66	<1.57	<1.63	<1.51	<1.44	<1.24
Mercury	mg/kg	<0.040	<0.044	<0.029	<0.030	<0.031	<0.031	0.236	0.152	0.124	0.472	<0.038	<0.037	<0.040	<0.037	0.15	0.217	<0.037	<0.043	<0.038	<0.040	<0.041	<0.038	<0.038	0.734
Metals by Toxicity Characteristic Leaching Procedure (TCLP)																									
Arsenic	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--	--	--	--	--	0.0603	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead	mg/L	--	--	--	--	--	--	0.059	0.089	0.544	2.12	--	--	--	--	1.06	<0.050	--	--	--	--	--	--	--	3.14
Selenium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Herbicides																									
2,4,5-T	mg/kg	--	--	--	--	--	<0.050	<0.058	<0.059	<0.062	<0.061	--	--	--	--	<0.56	<0.053	<0.056	--	--	--	--	--	--	<0.055
2,4-D	mg/kg	--	--	--	--	--	<0.050	<0.058	<0.059	<0.062	<0.061	--	--	--	--	<0.56	<0.053	<0.056	--	--	--	--	--	--	<0.055
2,4-DB	mg/kg	--	--	--	--	--	<0.050	<0.058	<0.059	<0.062	<0.061	--	--	--	--	<0.56	<0.053	<0.056	--	--	--	--	--	--	<0.055
Dalapon	mg/kg	--	--	--	--	--	<0.61	<0.70	<0.71	<0.74	<0.74	--	--	--	--	<6.8	<0.63	<0.68	--	--	--	--	--	--	<0.66
Dicamba	mg/kg	--	--	--	--	--	<0.050	<0.058	<0.059	<0.062	<0.061	--	--	--	--	<0.56	<0.053	<0.056	--	--	--	--	--	--	<0.055
Dichlorprop	mg/kg	--	--	--	--	--	<0.050	<0.058	<0.059	<0.062	<0.061	--	--	--	--	<0.56	<0.053	<0.056	--	--	--	--	--	--	<0.055
Dinoseb	mg/kg	--	--	--	--	--	<0.30	<0.35	<0.36	<0.37	<0.37	--	--	--	--	<3.4	<0.32	<0.34	--	--	--	--	--	--	<0.33
MCPA	mg/kg	--	--	--	--	--	<12	<14	<14	<15	<15	--	--	--	--	<140	<13	<14	--	--	--	--	--	--	<13
MCPP	mg/kg	--	--	--	--	--	<12	<14	<14	<15	<15	--	--	--	--	<140	<13	<14	--	--	--	--	--	--	<13
Silvex (2,4,5-TP)	mg/kg	--	--	--	--	--	<0.050	<0.058	<0.059	<0.062	<0.061	--	--	--	--	<0.56	<0.053	<0.056	--	--	--	--	--	--	<0.055
Pesticides																									
4,4'-DDD	mg/kg	--	--	--	--	--	<0.0018	<0.010	<0.0021	<0.0023	<0.0022	--	--	--	--	<0.039	<0.0040	<0.0041	--	--	--	--	--	--	<0.018
4,4'-DDE	mg/kg	--	--	--	--	--	<0.0018	<0.010	<0.0021	<0.0023	<0.0022	--	--	--	--	<0.039	<0.0040	<0.0041	--	--	--	--	--	--	<0.018
4,4'-DDT	mg/kg	--	--	--	--	--	<0.0018	<0.010	<0.0021	<0.0023	<0.0022	--	--	--	--	<0.039	<0.0040	<0.0041	--	--	--	--	--	--	<0.018
Aldrin	mg/kg	--	--	--	--	--	<0.0018	<0.010	<0.0021	<0.0023	<0.0022	--	--	--	--	<0.039	<0.0040	<0.0041	--	--	--	--	--	--	<0.018
alpha-BHC	mg/kg	--	--	--	--	--	<0.0018	<0.010	<0.0021	<0.0023	<0.0022	--	--	--	--	<0.039	<0.0040	<0.0041	--	--	--	--	--	--	<0.018
beta-BHC	mg/kg	--	--	--	--	--	<0.0018	<0.010	<0.0021	<0.0023	<0.0022	--	--	--	--	<0.039	<0.0040	<0.0041	--	--	--	--	--	--	<0.018
Chlordane (technical)	mg/kg	--	--	--	--	--	<0.018	<0.10	<0.021	<0.023	<0.022	--	--	--	--	<0.39	<0.040	<0.041	--	--	--	--	--	--	<0.18
delta-BHC	mg/kg	--	--	--	--	--	<0.0018	<0.010	<0.0021	<0.0023	<0.0022	--	--	--	--	<0.039	<0.0040	<0.0041	--	--	--	--	--	--	<0.018
Dieldrin	mg/kg	--	--	--	--	--	<0.0018	<0.010	<0.0021	<0.0023	<0.0022	--	--	--	--	<0.039	<0.0040	<0.0041	--	--	--	--	--	--	<0.018
Endosulfan I	mg/kg	--	--	--	--	--	<0.0018	<0.010	<0.0021	<0.0023	<0.0022	--	--	--	--	<0.039	<0.0040	<0.0041	--	--	--	--	--	--	<0.018
Endosulfan II	mg/kg	--	--	--	--	--	<0.0018	<0.010	<0.0021	<0.0023	<0.0022	--	--	--	--	<0.039	<0.0040	<0.0041	--	--	--	--	--	--	<0.018
Endosulfan sulfate	mg/kg	--	--	--	--	--	<0.0018	<0.010	<0.0021	<0.0023	<0.0022	--	--	--	--	<0.039	<0.0040	<0.0041	--	--	--	--	--	--	<0.018
Endrin	mg/kg	--	--	--	--	--	<0.0018	<0.010	<0.0021	<0.0023	<0.0022	--	--	--	--	<0.039	<0.0040	<0.0041	--	--	--	--	--	--	<0.018
Endrin ketone	mg/kg	--	--	--	--	--	<0.0018	<0.010	<0.0021	<0.0023	<0.0022	--	--	--	--	<0.039	<0.0040	<0.0041	--	--	--	--	--	--	<0.018
gamma-BHC (Lindane)	mg/kg	--	--	--	--	--	<0.0018	<0.010	<0.0021	<0.0023	<0.0022	--	--	--	--	<0.039	<0.0040	<0.0041	--	--	--	--	--	--	<0.018
Heptachlor	mg/kg	--	--	--	--	--	<0.0018	<0.010	<0.0021	<0.0023	<0.0022	--	--	--	--	<0.039	<0.0040	<0.0041	--	--	--	--	--	--	<0.018
Heptachlor epoxide	mg/kg	--	--	--	--	--	<0.0018	<0.010	<0.0021	<0.0023	<0.0022	--	--	--	--	<0.039	<0.0040	<0.0041	--	--	--	--	--	--	<0.018
Hexachlorobenzene	mg/kg	--	--	--	--	--	<0.0018	<0.010	<0.0021	<0.0023	<0.0022	--	--	--	--	<0.039	<0.0040	<0.0041	--	--	--	--	--	--	<0.018
Methoxychlor	mg/kg	--	--	--	--	--	<0.0018	<0.010	<0.0021	<0.0023	<0.0022	--	--	--	--	<0.039	<0.0040	<0.0041	--	--	--	--	--	--	<0.018
Polychlorinated Biphenyls																									
Aroclor 1016	mg/kg	<0.163	<0.165	<0.170	<0.144	<0.150	<0.126	<0.144	<0.152	<0.165	<0.161	<0.138	<0.134	<0.149	<0.126	<0.129	<0.134	<0.145	<0.163	<0.155	<0.150	<0.150	<0.151	<0.137	<0.132
Aroclor 1221	mg/kg	<0.163	<0.165	<0.170	<0.144	<0.150	<0.126	<0.144	<0.152	<0.165	<0.161	<0.138	<0.134	<0.149	<0.126	<0.129	<0.134	<0.145	<0.163	<0.155	<0.150	<0.150	<0.151	<0.137	<0.132
Aroclor 1232	mg/kg	<0.163	<0.165	<0.170	<0.144	<0.150	<0.126	<0.144	<0.152	<0.165	<0.161	<0.138	<0.134	<0.149	<0.126	<0.129	<0.134	<0.145	<0.163	<0.155	<0.150	<0.150	<0.151	<0.137	<0.132
Aroclor 1242	mg/kg	<0.163	<0.165	<0.170	<0.144	<0.150	<0.126	<0.144	<0.152	<0.165	<0.161	<0.138	<0.134	<0.149	<0.126	<0.129	<0.134	<0.145	<0.163	<0.155	<0.150	<0.150	<0.151	<0.137	<0.132
Aroclor 1248	mg/kg	<0.163	<0.165	<0.170	<0.144	<0.150	<0.126	<0.144	<0.152	<0.165	<0.161	<0.138	<0.134	<0.149	<0.126	<0.129	<0.134	<0.145	<0.163	<0.155	<0.150	<0.150	<0.151	<0.137	<0.132
Aroclor 1254	mg/kg	<0.163	<0.165	<0.170	<0.144	<0.150	<0.126	<0.144	<0.152	<0.165	<0.161	<0.138	<0.134	<0.149	<0.126	0.247	<0.134	<0.145	<0.163	<0.155	<0.150	<0.150	<0.151	<0.137	<0.132
Aroclor 1260	mg/kg	<0.163	<0.165	<0.170	<0.144	<0.150	<0.126	<0.144	<0.152	<0.165	<0.161	<0.138	<0.134	<0.149	<0.126	<0.129	<0.134	<0.145	<0.163	<0.155	<0.150	<0.150	<0.151	<0.137	<0.132
Aroclor 1262	mg/kg	<0.163	<0.165	<0.170	<0.144	<0.150	<0.126	<0.144	<0.152	<0.165	<0.161	<0.138	<0.134	<0.149	<0.126	<0.129	<0.134	<0.145	<0.163	<0.155	<0.150	<0.150	<0.151	<0.137	<0.132
Aroclor 1268	mg/kg	<0.163	<0.165	<0.170	<0.144	<0.150	<0.126	<0.144	<0.152	<0.165	<0.161	<0.138	<0.134	<0.149	<0.126	<0.129	<0.134	<0.145	<0.163	<0.155	<0.150	<0.150	<0.151	<0.137	<0.132
Total PCBs	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.247	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Petroleum Hydrocarbons	mg/kg	<52.1	<51.5	<52.5	<45.8	<46.5	54.6	138	77.9	60.2	<51.4	<47.9	<43.2	<48.9	<44.9	12400	343	245	224	60.4	<48.6	<49.8	<46.6	<44.3	1330
Volatile Organic Compounds (VOCs)																									
1,1,1,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-Chloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane - Screen	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Butanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Isopropyltoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-Pentanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Disulfide	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	H17 GZ02SS11 1503112 Natural Clay 20 - 22 3/6/2015	H17 GZ02SS12 1503112 Natural Clay 24 - 26 3/6/2015	H17 GZ02SS13 1503112 Natural Clay 29 - 31 3/6/2015	H17 GZ02SS14 1503112 Natural Sand/Gravel 34 - 36 3/6/2015	H17 GZ02SS15 1503112 Natural Sand/Gravel 36 - 38 3/6/2015	H18 H18S01S02A 1501030 Fill 0 - 3.3 1/5/2015	H18 H18S02BS04A 1501030 Fill 3.3 - 6.6 1/5/2015	H18 H18S04BS05 1501030 Fill 6.6 - 10 1/5/2015	H18 H18S06S07A 1501030 Fill 10 - 13.3 1/5/2015	H18 H18S08 1501056 Fill 14 - 16 1/6/2015	H18 H18S09 1501056 Natural Clay 19 - 21 1/6/2015	H18 H18S10 1501056 Natural Sand/Gravel 24 - 26 1/6/2015	H18 H18S11 1501056 Natural Sand/Gravel 29 - 31 1/6/2015	H18 H18S12S13 1501056 Natural Sand/Gravel 34 - 38 1/6/2015	I07 I07S01S02A 1501489 Fill 0 - 3.3 1/23/2015	I07 I07S02BS04A 1501489 Fill 3.3 - 6.6 1/23/2015	I07 I07S04BS05 1501489 Fill 6.6 - 9 1/23/2015	I07 I07S06S07 1501489 Natural Organics 10 - 14 1/23/2015	I07 I07S08 1501489 Natural Clay 14 - 16 1/23/2015	I07 I07S09 1501489 Natural Clay 19 - 21 1/23/2015	I07 I07S10 1501489 Natural Clay 24 - 26 1/23/2015	I07 I07S11 1501489 Natural Clay 29 - 31 1/23/2015	I07 I07S12S13 1501489 Natural Clay 34 - 38 1/23/2015	I08 I08S01S02A 1502186 Fill 0 - 3.3 2/12/2015
Preliminary Disposal Facility Category		MCP Regulated Type A	MCP Regulated Type B-1	MCP Restricted	Uncontaminated	Uncontaminated	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Restricted	Uncontaminated	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	Hazardous Material Type A	MCP Regulated Type B-1	MCP Regulated Type A	Hazardous Material Type A
Chlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Diethyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Di-isopropyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethyl tertiary-butyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
tert-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tertiary-amyl methyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene O	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene P,M	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylenes (Total)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total VOCs	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds - Low Level Analysis																									
1,1,1,2-Tetrachloroethane	mg/kg	<0.0032	<0.0031	<0.0030	<0.0030	<0.0055	<0.0039	<0.0043	<0.0035	<0.0045	<0.0044	<0.0035	<0.0035	<0.0033	<0.0036	<0.0043	<0.0035	<0.0039	<0.0058	<0.0037	<0.0043	<0.0037	<0.0037	<0.0037	<0.0060
1,1,1-Trichloroethane	mg/kg	<0.0032	<0.0031	<0.0030	<0.0030	<0.0055	<0.0039	<0.0043	<0.0035	<0.0045	<0.0044	<0.0035	<0.0035	<0.0033	<0.0036	<0.0043	<0.0035	<0.0039	<0.0058	<0.0037	<0.0043	<0.0037	<0.0037	<0.0037	<0.0060
1,1,2,2-Tetrachloroethane	mg/kg	<0.0013	<0.0013	<0.0012	<0.0012	<0.0022	<0.0016	<0.0017	<0.0014	<0.0018	<0.0017	<0.0014	<0.0014	<0.0013	<0.0014	<0.0017	<0.0014	<0.0016	<0.0023	<0.0015	<0.0017	<0.0015	<0.0015	<0.0015	<0.0024
1,1,2-Trichloroethane	mg/kg	<0.0032	<0.0031	<0.0030	<0.0030	<0.0055	<0.0039	<0.0043	<0.0035	<0.0045	<0.0044	<0.0035	<0.0035	<0.0033	<0.0036	<0.0043	<0.0035	<0.0039	<0.0058	<0.0037	<0.0043	<0.0037	<0.0037	<0.0037	<0.0060
1,1-Dichloroethane	mg/kg	<0.0032	<0.0031	<0.0030	<0.0030	<0.0055	<0.0039	<0.0043	<0.0035	<0.0045	<0.0044	<0.0035	<0.0035	<0.0033	<0.0036	<0.0043	<0.0035	<0.0039	<0.0058	<0.0037	<0.0043	<0.0037	<0.0037	<0.0037	<0.0060
1,1-Dichloroethene	mg/kg	<0.0032	<0.0031	<0.0030	<0.0030	<0.0055	<0.0039	<0.0043	<0.0035	<0.0045	<0.0044	<0.0035	<0.0035	<0.0033	<0.0036	<0.0043	<0.0035	<0.0039	<0.0058	<0.0037	<0.0043	<0.0037	<0.0037	<0.0037	<0.0060
1,1-Dichloropropene	mg/kg	<0.0032	<0.0031	<0.0030	<0.0030	<0.0055	<0.0039	<0.0043	<0.0035	<0.0045	<0.0044	<0.0035	<0.0035	<0.0033	<0.0036	<0.0043	<0.0035	<0.0039	<0.0058	<0.0037	<0.0043	<0.0037	<0.0037	<0.0037	<0.0060
1,2,3-Trichlorobenzene	mg/kg	<0.0032	<0.0031	<0.0030	<0.0030	<0.0055	<0.0039	<0.0043	<0.0035	<0.0045	<0.0044	<0.0035	<0.0035	<0.0033	<0.0036	<0.0043	<0.0035	<0.0039	<0.0058	<0.0037	<0.0043	<0.0037	<0.0037	<0.0037	<0.0060
1,2,3-Trichloropropane	mg/kg	<0.0032	<0.0031	<0.0030	<0.0030	<0.0055	<0.0039	<0.0043	<0.0035	<0.0045	<0.0044	<0.0035	<0.0035	<0.0033	<0.0036	<0.0043	<0.0035	<0.0039	<0.0058	<0.0037	<0.0043	<0.0037	<0.0037	<0.0037	<0.0060
1,2,4-Trichlorobenzene	mg/kg	<0.0032	<0.0031	<0.0030	<0.0030	<0.0055	<0.0039	<0.0043	<0.0035	<0.0045	<0.0044	<0.0035	<0.0035	<0.0033	<0.0036	<0.0043	<0.0035	<0.0039	<0.0058	<0.0037	<0.0043	<0.0037	<0.0037	<0.0037	<0.0060
1,2,4-Trimethylbenzene	mg/kg	<0.0032	<0.0031	<0.0030	<0.0030	<0.0055	<0.0039	<0.0043	<0.0035	<0.0045	<0.0044	<0.0035	<0.0035	<0.0033	<0.0036	0.029	<0.0035	<0.0039	<0.0058	<0.0037	<0.0043	<0.0037	<0.0037	<0.0037	<0.0060
1,2-Dibromo-3-Chloropropane	mg/kg	<0.0032	<0.0031	<0.0030	<0.0030	<0.0055	<0.0039	<0.0043	<0.0035	<0.0045	<0.0044	<0.0035	<0.0035	<0.0033	<0.0036	<0.0043	<0.0035	<0.0039	<0.0058	<0.0037	<0.0043	<0.0037	<0.0037	<0.0037	<0.0060
1,2-Dibromoethane	mg/kg	<0.0032	<0.0031	<0.0030	<0.0030	<0.0055	<0.0039	<0.0043	<0.0035	<0.0045	<0.0044	<0.0035	<0.0035	<0.0033	<0.0036	<0.0043	<0.0035	<0.0039	<0.0058	<0.0037	<0.0043	<0.0037	<0.0037	<0.0037	<0.0060
1,2-Dichlorobenzene	mg/kg	<0.0032	<0.0031	<0.0030	<0.0030	<0.0055	<0.0039	<0.0043	<0.0035	<0.0045	<0.0044	<0.0035	<0.0035	<0.0033	<0.0036	<0.0043	<0.0035	<0.0039	<0.0058	<0.0037	<0.0043	<0.0037	<0.0037	<0.0037	<0.0060
1,2-Dichloroethane	mg/kg	<0.0032	<0.0031	<0.0030	<0.0030	<0.0055	<0.0039	<0.0043	<0.0035	<0.0045	<0.0044	<0.0035	<0.0035	<0.0033	<0.0036	<0.0043	<0.0035	<0.0039	<0.0058	<0.0037	<0.0043	<0.0037	<0.0037	<0.0037	<0.0060
1,2-Dichloropropane	mg/kg	<0.0032	<0.0031	<0.0030	<0.0030	<0.0055	<0.0039	<0.0043	<0.0035	<0.0045	<0.0044	<0.0035	<0.0035	<0.0033	<0.0036	<0.0043	<0.0035	<0.0039	<0.0058	<0.0037	<0.0043	<0.0037	<0.0037	<0.0037	<0.0060
1,3,5-Trimethylbenzene	mg/kg	<0.0032	<0.0031	<0.0030	<0.0030	<0.0055	<0.0039	<0.0043	<0.0035	<0.0045	<0.0044	<0.0035	<0.0035	<0.0033	<0.0036	0.0112	<0.0035	<0.0039	<0.0058	<0.0037	<0.0043	<0.0037	<0.0037	<0.0037	<0.0060
1,3-Dichlorobenzene	mg/kg	<0.0032	<0.0031	<0.0030	<0.0030	<0.0055	<0.0039	<0.0043	<0.0035	<0.0045	<0.0044	<0.0035	<0.0035	<0.0033	<0.0036	<0.0043	<0.0035	<0.0039	<0.0058	<0.0037	<0.0043	<0.0037	<0.0037	<0.0037	<0.0060
1,3-Dichloropropane	mg/kg	<0.0032	<0.0031	<0.0030	<0.0030	<0.0055	<0.0039	<0.0043	<0.0035	<0.0045	<0.0044	<0.0035	<0.0035	<0.0033	<0.0036	<0.0043	<0.0035	<0.0039	<0.0058	<0.0037	<0.0043	<0.0037	<0.0037	<0.0037	<0.0060
1,4-Dichlorobenzene	mg/kg	<0.0032	<0.0031	<0.0030	<0.0030	<0.0055	<0.0039	<0.0043	<0.0035	<0.0045	<0.0044	<0.0035	<0.0035	<0.0033	<0.0036	<0.0043	<0.0035	<0.0039	<0.0058	<0.0037	<0.0043	<0.0037	<0.0037	<0.0037	<0.0060
1,4-Dioxane	mg/kg	<0.0640	<0.0626	<0.0596	<0.0594	<0.111	<0.0787	<0.0856	<0.0708	<0.0910	<0.0870	<0.0699	<0.0698	<0.0665	<0.0719	<0.0853	<0.0702	<0.0787	<0.116	<0.0748	<0.0861	<0.0742	<0.0744	<0.0737	<0.120
2,2-Dichloropropane	mg/kg	<0.0032	<0.0031	<0.0030	<0.0030	<0.0055	<0.0039	<0.0043	<0.0035	<0.0045	<0.0044	<0.0035	<0.0035	<0.0033	<0.0036	<0.0043	<0.0035	<0.0039	<0.0058	<0.0037	<0.0043	<0.0037	<0.0037	<0.0037	<0.0060
2-Butanone	mg/kg	<0.0064	<0.0063	<0.0060	<0.0059	<0.0111	<0.0079	<0.0086	<0.0071	<0.0091	<0.0087	0.0091	<0.0070	<0.0067	<0.0072	<0.0085	<0.0070	<0.0079	<0.0116	<0.0075	<0.0086	<0.0074	<0.0074	<0.0074	<0.0120
2-Chlorotoluene	mg/kg	<0.0032	<0.0031	<0.0030	<0.0030	<0.0055	<0.0039	<0.0043	<0.0035	<0.0045	<0.0044	0.0101	<0.0035	<0.0033	<0.0036	<0.0043	<0.0035	<0.0039	<0.0058	<0.0037	<0.0043	<0.0037	<0.0037	<0.0037	<0.0060
2-Hexanone	mg/kg	<0.0064	<0.0063	<0.0060	<0.0059	<0.0111	<0.0079	<0.0086	<0.0071	<0.0091	<0.0087	<0.0070	<0.0070	<0.0067	<0.0072	<0.0085	<0.0070	<0.0079	<0.0116	<0.0075	<0.0086	<0.0074	<0.0074	<0.0074	<0.0120
4-Chlorotoluene	mg/kg	<0.0032	<0.0031	<0.0030	<0.0030	<0.0055	<0.0039	<0.0043	<0.0035	<0.0045	<0.0044	<0.0035	<0.0035	<0.0033	<0.0036	<0.0043	<0.0035	<0.0039	<0.0058	<0.0037	<0.0043	<0.0037	<0.0037	<0.0037	<0.0060
4-Isopropyltoluene	mg/kg	<0.0032	<0.0031	<0.0030	<0.0030	<0.0055	<0.0039	<0.0043	<0.0035	<0.0045	<0.0044	<0.0035	<0.0035	<0.0033	<0.0036	<0.0043	<0.0035	<0.0039	<0.0058	<0.0037	<0.0043	<0.0037	<0.0037	<0.0037	<0.0060
4-Methyl-2-Pentanone	mg/kg	<0.0064	<0.0063	<0.0060	<0.0059	<0.0111	<0.0079	<0.0086	<0.0071	<0.0091	<0.0087	<0.0070	<0.0070	<0.0067	<0.0072	<0.0085	<0.0070	<0.0079	<0.0116	<0.0075	<0.0086	<0.0074	<0.0074	<0.0074	<0.0120
Acetone	mg/kg	<0.0064	<0.0063	<0.0060	<0.0059	<0.0111	<0.0079	<0.0086	<0.0071	<0.0091	0.012	0.0736	0.0128	<0.0067	<0.0072	0.0392	0.0299	0.0696	0.0203	0.0192	<0.0086	0.0153	0.0093	0.0089	<0.0120
Benzene	mg/kg	<0.0032	<0.0031	<0.0030	<0.0030	<0.0055	<0.0039	<0.0043	<0.0035	<0.0045	<0.0044	<0.0035	<0.0035	<0.0033	<0.0036	0.0554	<0.0035	<0.0039	<0.0058	<0.0037	<0.0043	<0.0037	<0.0037	<0.0037	<0.0060
Bromobenzene	mg/kg	<0.0032	<0.0031	<0.0030	<0.0030	<0.0055	<0.0039	<0.0043	<0.0035	<0.0045	<0.0044	<0.0035	<0.0035	<0.0033	<0.0036	<0.0043	<0.0035	<0.0039	<0.0058	<0.0037	<0.0043	<0.0037	<0.0037	<0.0037	<0.0060
Bromochloromethane	mg/kg	<0.0032	<0.0031	<0.0030	<0.0030	<0.0055	<0.0039	<0.0043	<0.0035	<0.0045	<0.0044	<0.0035	<0.0035	<0.0033	<0.0036	<0.0043	<0.0035	<0.0039	<0.0058	<0.0037	<0.0043	<0.0037	<0.0037	<0.0037	<0.0060
Bromodichloromethane	mg/kg	<0.0032	<0.0031	<0.0030	<0.0030	<0.0055	<0.0039	<0.0043	<0.0035	<0.0045	<0.0044	<0.0035	<0.0035	<0.0033	<0.0036	<0.0043	<0.0035	<0.0039	<0.0058	<0.0037	<0.0043	<0.0037	<0.0037	<0.0037	<0.0060
Bromoform	mg/kg	<0.0032	<0.0031	<0.0030	<0.0030	<0.0055	<0.0039	<0.0043	<0.0035	<0.0045	<0.0044	<0.0035	<0.0035	<0.0033	<0.0036	<0.0043	<0.0035	<0.0039	<0.0058	<0.0037	<0.0043	<0.0037	<0.0037	<0.0037	<0.0060
Bromomethane	mg/kg	<0.0064	<0.0063	<0.0060	<0.0059	<0.0111	<0.0079	<0.0086	<0.0071	<0.0091	<0.0087	<0.0070	<0.0070	<0.0067	<0.0072	<0.0085	<0.0070	<0.0079	<0.0116	<0.0075	<0.0086	<0.0074	<0.0074	<0.0074	<0.0120
Carbon Disulfide	mg/kg	<0.0032	<0.0031	<0.0030	<0.0030	<0.0055	<0.0039	<0.0043	<0.0035	<0.0045	0.0044	<0.0035	<0.0035	<0.0033	<0.0036	<0.0043	<0.0035	<0.0039	<0.0058	<0.0037	<0.0043	<0.0037	<0.0037	<0.0037	<0.0060
Carbon Tetrachloride	mg/kg	<0.0032	<0.0031	<0.0030	<0.0030	<0.0055	<0.0039	<0.0043	<0.0035	<0.0045	<0.0044	<0.0035	<0.0035	<0.0033	<0.0036	<0.0043	<0.0035	<0.0039	<0.0058	<0.0037	<0.0043	<0.0037	<0.0037	<0.0037	<0.0060
Chlorobenzene	mg/kg	<0.0032	<0.0031	<0.0030	<0.0030	<0.0055	<0.0039	<0.0043	<0.0035	<0.0045	<0.0044	<0.0035	<0.0035	<0.0033	<0.0036	<0.0043	<0.0035	<0.0039	<0.0058	<0.0037	<0.0043	<0.0037	<0.0037	<0.0037	<0.0060
Chloroethane	mg/kg	<0.0064	<0.0063	<0.0060	<0.0059	<0.0111	<0.0079	<0.0086	<0.0071	<0.0091	<0.0087	<0.0070	<0.0070	<0.0067	<0.0072	<0.0085	<0.0070	<0.0079	<0.0116	<0.0075	<0.0086	<0.0074	<0.0074	<0.0074	<0.0120
Chloroform	mg/kg	<0.0032	<0.0031	<0.0030	<0.0030	<0.0055	<0.0039	<0.0043	<0.0035	<0.0045	<0.0044	<0.0035	<0.0035	<0.0033	<0.0036	<0.0043	<0.0035	<0.0039	<0.0058	<0.0037	<0.0043	<0.0037	<0.0037	<0.0037	<0.0060
Chloromethane	mg/kg	<0.0064	<0.0063	<0.0060	<0.0059	<0.0111	<0.0079	<0.0086	<0.0071	<0.0091	<0.0087	<0.0070	<0.0070	<0.0067	<0.0072	<0.0085	<0.0070	<0.0079	<0.0116	<0.0075	<0.0086	<0.0074	<0.0074	<0.0074	<0.0120
cis-1,2-Dichloroethene	mg/kg	<0.0032	<0.0031	<0.0030	<0.0030	<0.0055	<0.0039	<0.0043	<0.0035	<0.0045	<0.0044	<0.0035	<0.0035	<0.0033	<0.0036	<0.0043	<0.0035	<0.0039	<0.0058	<0.0037	<0.0043	<0.0037	<0.0037	<0.0037	<0.0060
cis-1,3-Dichloropropene	mg/kg	<0.0032	<0.0031	<0.0030	<0.0030	<0.0055	<0.0039	<0.0043	<0.0035	<0.0045	<0.0044	<0.0035	<0.0035	<0.0033	<0.0036	<0.0043	<0.0035	<0.0039	<0.0058	<0.0037	<0.0043	<0.0037	<0.0037	<0.0037	<0.0060
Dibromochloromethane	mg/kg	<0.0013	<0.0013	<0.0012	<0.0012	<0.0022	<0.0016	<0.0017	<0.0014	<0.0018	<0.0017	<0.0014	<0.0014	<0.0013	<0.0014	<0.0017	<0.0014	<0.0016	<0.0023	<0.0015	<0.0017	<0.0015	<0.0015	<0.0015	<0.0024
Dibromomethane	mg/kg	<0.0032	<0.0031	<0.0030	<0.0030	<0.0055	<0.0039	<0.0043	<0.0035	<0.0045	<0.0044	<0.0035	<0.0035	<0.0033	<0.0036	<0.0043	<0.0035	<0.0039	<0.0058	<0.0037	<0.0043	<0.0037	<0.0037	<0.0037	<0.0060
Dichlorodifluoromethane	mg/kg	<0.0064	<0.0063	<0.0060	<0.0059	<0.0111	<0.0079	<0.0086	<0.0071	<0.0091	<0.0087	<0.0070	<0.0070	<0.0067	<0.0072	<0.0085	<0.0070	<0.0079	<0.0116	<0.0075	<0.0086	<0.0074	<0.0074	<0.0074	<0.0120
Diethyl Ether	mg/kg	<0.0032	<0.0031	<0.0030	<0.0030	<0.0055	<0.0039	<0.0043	<0.0035	<0.0045	<0.0044	<0.0035	<0.0035	<0.0033	<0.0036	<0.0043	<0.0035	<0.0039	<0.0058	<0.0037	<0.0043	<0.0037	<0.0037	<0.0037	<0.0060
Di-isopropyl ether	mg/kg	<0.0032	<0.0031	<0.0030	<0.0030	<0.0055	<0.0039	<0.0043	<0.0035	<0.0045	<0.0044	<0.0035	<0.0035	<0.0033	<0.0036	<0.0043	<0.0035	<0.0039	<0.0058	<0.0037	<0.0043	<0.0037	<0.0037	<0.0037	<0.0060
Ethyl tertiary-butyl ether	mg/kg	<0.0032	<0.0031	<0.0030	<0.0030	<0.0055	<0.0039	<0.0043	<0.0035	<0.0045	<0.0044	<0.0035	<0.0035	<0.0033	<0.0036	<0.0043	<0.0035	<0.0039	<0.0058	<0.0037	<0.0043	<0.0037	<0.0037	<0.0037	<0.0060
Ethylbenzene	mg/kg	<0.0032	<0.0031	<0.0030	<0.0030	<0.0055	<0.0039	<0.0043	<0.0035	<0.0045	<0.0044	<0.0035	<0.0035	<0.0033	<0.0036	<0.0043	<0.0035	<0.0039	<0.0058	<0.0037	<0.0043	<0.0037	<0.0037	<0.0037	<0.0060
Hexachlorobutadiene	mg/kg	<0.0032	<0.0031	<0.0030	<0.0030	<0.0055	<0.0039	<0.0043	<0.0035	<0.0045	<0.0044	<0.0035	<0.0035	<0.0033	<0.0036	<0.0043	<0.0035	<0.0039	<0.0058	<0.0037	<0.0043	<0.0037	<0.0037	<0.0037	<0.0060
Isopropylbenzene	mg/kg	<0.0032	<0.0031	<0.0030	<0.0030	<0.0055	<0.0039	<0.0043	<0.0035	<0.0045	<0.0044	<0.0035	<0.0035	<0.0033	<0.0036	<0.0043	<0.0035	<0.0039	<0.0058	<0.0037	<0.0043	<0.0037	<0.0037	<0.0037	<0.0060
Methyl tert-Butyl Ether	mg/kg	<0.0032	<0.0031	<0.0030	<0.0030	<0.0055	<0.0039	<0.0043	<0.0035	<0.0045	<0.0044	<0.0035	<0.0035	<0.0033	<0.0036	<0.0043	<0.0035	<0.0039	<0.0058	<0.0037	<0.0043	<0.0037	<0.0037	<0.0037	<0.0060
Methylene Chloride	mg/kg	<0.0064	<0.0063	<0.0060	<0.0059	<0.0111	<0.0079	<0.0086	<0.0071	<0.0091	<0.0087	<0.0070	<0.0070	<0.0067	<0.0072	<0.0085	<0.0070	<0.0079	<0.0116	<0.0075	<0.0086	<0.0074	<0.0074	<0.0074	<0.0120
Naphthalene	mg/kg	<0.0032	<0.0031	<0.0030	<0.0030	<0.0055	<0.0039	<0.0043	<0.0035	<0.0045	<0.0044	<0.0035	<0.0035	<0.0033	<0.0036	0.0116	0.0862	0.01	<0.0058	0.017	<0.0043	<0.0037	<0.0037	<0.0037	<0.0060
n-Butylbenzene	mg/kg	<0.0032	<0.0031	<0.0030	<0.0030	<0.0055	<0.0039	<0.0043	<0.0035	<0.0045	<0.0044	<0.0035	<0.0035	<0.0033	<0.0036	<0.0043	<0.0035	<0.0039	<0.0058	<0.0037	<0.0043	<0.0037	<0.0037	<0.0037	<0.0060
n-Propylbenzene	mg/kg	<0.0032	<0.0031	<0.0030	<0.0030	<0.0055	<0.0039	<0.0043	<0.0035	<0.0045	<0.0044	<0.0035	<0.0035	<0.0033	<0.0036	<0.0043	<0.0035	<0.0039	<0.0058	<0.0037	<0.0043	<0.0037	<0.0037	<0.0037	<0.0060
sec-Butylbenzene	mg/kg	<0.0032	<0.0031	<0.0030	<0.0030	<0.0055	<0.0039	<0.0043	<0.0035	<0.0045	<0.0044	<0.0035	<0.0035	<0.0033	<0.0036	<0.0043	<0.0035	<0.0039	<0.0058	<0.0037	<0.0043	<0.0037	<0.0037	<0.0037	<0.0060

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	H17 GZ02SS11 1503112 Natural Clay 20 - 22 3/6/2015	H17 GZ02SS12 1503112 Natural Clay 24 - 26 3/6/2015	H17 GZ02SS13 1503112 Natural Clay 29 - 31 3/6/2015	H17 GZ02SS14 1503112 Natural Sand/Gravel 34 - 36 3/6/2015	H17 GZ02SS15 1503112 Natural Sand/Gravel 36 - 38 3/6/2015	H18 H18S01S02A 1501030 Fill 0 - 3.3 1/5/2015	H18 H18S02BS04A 1501030 Fill 3.3 - 6.6 1/5/2015	H18 H18S04BS05 1501030 Fill 6.6 - 10 1/5/2015	H18 H18S06S07A 1501030 Fill 10 - 13.3 1/5/2015	H18 H18S08 1501056 Fill 14 - 16 1/6/2015	H18 H18S09 1501056 Natural Clay 19 - 21 1/6/2015	H18 H18S10 1501056 Natural Sand/Gravel 24 - 26 1/6/2015	H18 H18S11 1501056 Natural Sand/Gravel 29 - 31 1/6/2015	H18 H18S12S13 1501056 Natural Sand/Gravel 34 - 38 1/6/2015	I07 I07S01S02A 1501489 Fill 0 - 3.3 1/23/2015	I07 I07S02BS04A 1501489 Fill 3.3 - 6.6 1/23/2015	I07 I07S04BS05 1501489 Fill 6.6 - 9 1/23/2015	I07 I07S06S07 1501489 Natural Organics 10 - 14 1/23/2015	I07 I07S08 1501489 Natural Clay 14 - 16 1/23/2015	I07 I07S09 1501489 Natural Clay 19 - 21 1/23/2015	I07 I07S10 1501489 Natural Clay 24 - 26 1/23/2015	I07 I07S11 1501489 Natural Clay 29 - 31 1/23/2015	I07 I07S12S13 1501489 Natural Clay 34 - 38 1/23/2015	I08 I08S01S02A 1502186 Fill 0 - 3.3 2/12/2015
Preliminary Disposal Facility Category		MCP Regulated Type A	MCP Regulated Type B-1	MCP Restricted	Uncontaminated	Uncontaminated	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Restricted	Uncontaminated	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	Hazardous Material Type A	MCP Regulated Type B-1	MCP Regulated Type A	Hazardous Material Type A
Styrene	mg/kg	<0.0032	<0.0031	<0.0030	<0.0030	<0.0055	<0.0039	<0.0043	<0.0035	<0.0045	<0.0044	<0.0035	<0.0035	<0.0033	<0.0036	<0.0043	<0.0035	<0.0039	<0.0058	<0.0037	<0.0043	<0.0037	<0.0037	<0.0037	<0.0060
tert-Butylbenzene	mg/kg	<0.0032	<0.0031	<0.0030	<0.0030	<0.0055	<0.0039	<0.0043	<0.0035	<0.0045	<0.0044	<0.0035	<0.0035	<0.0033	<0.0036	<0.0043	<0.0035	<0.0039	<0.0058	<0.0037	<0.0043	<0.0037	<0.0037	<0.0037	<0.0060
Tertiary-amyl methyl ether	mg/kg	<0.0032	<0.0031	<0.0030	<0.0030	<0.0055	<0.0039	<0.0043	<0.0035	<0.0045	<0.0044	<0.0035	<0.0035	<0.0033	<0.0036	<0.0043	<0.0035	<0.0039	<0.0058	<0.0037	<0.0043	<0.0037	<0.0037	<0.0037	<0.0060
Tetrachloroethene	mg/kg	<0.0032	<0.0031	<0.0030	<0.0030	<0.0055	<0.0039	<0.0043	<0.0035	<0.0045	<0.0044	<0.0035	<0.0035	<0.0033	<0.0036	<0.0043	<0.0035	<0.0039	<0.0058	<0.0037	<0.0043	<0.0037	<0.0037	<0.0037	<0.0060
Tetrahydrofuran	mg/kg	<0.0032	<0.0031	<0.0030	<0.0030	<0.0055	<0.0039	<0.0043	<0.0035	<0.0045	<0.0044	<0.0035	<0.0035	<0.0033	<0.0036	<0.0043	<0.0035	<0.0039	<0.0058	<0.0037	<0.0043	<0.0037	<0.0037	<0.0037	<0.0060
Toluene	mg/kg	<0.0032	<0.0031	<0.0030	<0.0030	<0.0055	<0.0039	<0.0043	<0.0035	<0.0045	<0.0044	<0.0035	<0.0035	<0.0033	<0.0036	0.0096	<0.0035	<0.0039	<0.0058	<0.0037	<0.0043	<0.0037	<0.0037	<0.0037	<0.0060
trans-1,2-Dichloroethene	mg/kg	<0.0032	<0.0031	<0.0030	<0.0030	<0.0055	<0.0039	<0.0043	<0.0035	<0.0045	<0.0044	<0.0035	<0.0035	<0.0033	<0.0036	<0.0043	<0.0035	<0.0039	<0.0058	<0.0037	<0.0043	<0.0037	<0.0037	<0.0037	<0.0060
trans-1,3-Dichloropropene	mg/kg	<0.0032	<0.0031	<0.0030	<0.0030	<0.0055	<0.0039	<0.0043	<0.0035	<0.0045	<0.0044	<0.0035	<0.0035	<0.0033	<0.0036	<0.0043	<0.0035	<0.0039	<0.0058	<0.0037	<0.0043	<0.0037	<0.0037	<0.0037	<0.0060
Trichloroethene	mg/kg	<0.0032	<0.0031	<0.0030	<0.0030	<0.0055	<0.0039	<0.0043	<0.0035	<0.0045	<0.0044	<0.0035	<0.0035	<0.0033	<0.0036	<0.0043	<0.0035	<0.0039	<0.0058	<0.0037	<0.0043	<0.0037	<0.0037	<0.0037	<0.0060
Trichlorofluoromethane	mg/kg	<0.0032	<0.0031	<0.0030	<0.0030	<0.0055	<0.0039	<0.0043	<0.0035	<0.0045	<0.0044	<0.0035	<0.0035	<0.0033	<0.0036	<0.0043	<0.0035	<0.0039	<0.0058	<0.0037	<0.0043	<0.0037	<0.0037	<0.0037	<0.0060
Vinyl Chloride	mg/kg	<0.0064	<0.0063	<0.0060	<0.0059	<0.0111	<0.0079	<0.0086	<0.0071	<0.0091	<0.0087	<0.0070	<0.0070	<0.0067	<0.0072	<0.0085	<0.0070	<0.0079	<0.0116	<0.0075	<0.0086	<0.0074	<0.0074	<0.0074	<0.0120
Xylene O	mg/kg	<0.0032	<0.0031	<0.0030	<0.0030	<0.0055	<0.0039	<0.0043	<0.0035	<0.0045	<0.0044	<0.0035	<0.0035	<0.0033	<0.0036	0.0099	<0.0035	<0.0039	<0.0058	<0.0037	<0.0043	<0.0037	<0.0037	<0.0037	<0.0060
Xylene P,M	mg/kg	<0.0064	<0.0063	<0.0060	<0.0059	<0.0111	<0.0079	<0.0086	<0.0071	<0.0091	<0.0087	<0.0070	<0.0070	<0.0067	<0.0072	0.0109	<0.0070	<0.0079	<0.0116	<0.0075	<0.0086	<0.0074	<0.0074	<0.0074	<0.0120
Xylenes (Total)	mg/kg	<0.0064	<0.0063	<0.0060	<0.0059	<0.0111	<0.0079	<0.0086	<0.0071	<0.0091	<0.0087	<0.0070	<0.0070	<0.0067	<0.0072	0.0208	<0.0070	<0.0079	<0.0116	<0.0075	<0.0086	<0.0074	<0.0074	<0.0074	<0.0120
Total VOCs (Low Level)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0164	0.0928	0.0128	ND	ND	0.1976	0.1161	0.0796	0.0203	0.0362	ND	0.0153	0.0093	0.0089	ND
Semi-Volatile Organic Compounds																									
1,2,4-Trichlorobenzene	mg/kg	<1.01	<1.07	<1.12	<0.985	<0.986	<0.820	<0.928	<0.940	<1.14	<0.986	<0.942	<0.866	<1.04	<0.726	<3.30	<0.947	<0.912	<5.01	<0.989	<0.980	<0.994	<0.941	<0.917	<0.840
1,2-Dichlorobenzene	mg/kg	<1.01	<1.07	<1.12	<0.985	<0.986	<0.820	<0.928	<0.940	<1.14	<0.986	<0.942	<0.866	<1.04	<0.726	<3.30	<0.947	<0.912	<5.01	<0.989	<0.980	<0.994	<0.941	<0.917	<0.840
1,3-Dichlorobenzene	mg/kg	<1.01	<1.07	<1.12	<0.985	<0.986	<0.820	<0.928	<0.940	<1.14	<0.986	<0.942	<0.866	<1.04	<0.726	<3.30	<0.947	<0.912	<5.01	<0.989	<0.980	<0.994	<0.941	<0.917	<0.840
1,4-Dichlorobenzene	mg/kg	<0.509	<0.534	<0.564	<0.494	<0.494	<0.411	<0.465	<0.471	<0.570	<0.494	<0.472	<0.434	<0.522	<0.364	<1.66	<0.475	<0.457	<2.51	<0.496	<0.491	<0.499	<0.472	<0.460	<0.421
2,4,5-Trichlorophenol	mg/kg	<1.01	<1.07	<1.12	<0.985	<0.986	<0.820	<0.928	<0.940	<1.14	<0.986	<0.942	<0.866	<1.04	<0.726	<3.30	<0.947	<0.912	<5.01	<0.989	<0.980	<0.994	<0.941	<0.917	<0.840
2,4,6-Trichlorophenol	mg/kg	<1.01	<1.07	<1.12	<0.985	<0.986	<0.820	<0.928	<0.940	<1.14	<0.986	<0.942	<0.866	<1.04	<0.726	<3.30	<0.947	<0.912	<5.01	<0.989	<0.980	<0.994	<0.941	<0.917	<0.840
2,4-Dichlorophenol	mg/kg	<1.01	<1.07	<1.12	<0.985	<0.986	<0.820	<0.928	<0.940	<1.14	<0.986	<0.942	<0.866	<1.04	<0.726	<3.30	<0.947	<0.912	<5.01	<0.989	<0.980	<0.994	<0.941	<0.917	<0.840
2,4-Dimethylphenol	mg/kg	<1.01	<1.07	<1.12	<0.985	<0.986	<0.820	<0.928	<0.940	<1.14	<0.986	<0.942	<0.866	<1.04	<0.726	<3.30	<0.947	<0.912	<5.01	<0.989	<0.980	<0.994	<0.941	<0.917	<0.840
2,4-Dinitrophenol	mg/kg	<5.09	<5.34	<5.64	<4.94	<4.94	<4.11	<4.65	<4.71	<5.70	<4.94	<4.72	<4.34	<5.22	<3.64	<16.6	<4.75	<4.57	<25.1	<4.96	<4.91	<4.99	<4.72	<4.60	<4.21
2,4-Dinitrotoluene	mg/kg	<1.01	<1.07	<1.12	<0.985	<0.986	<0.820	<0.928	<0.940	<1.14	<0.986	<0.942	<0.866	<1.04	<0.726	<0.828	<0.947	<0.912	<1.26	<0.989	<0.980	<0.994	<0.941	<0.917	<0.840
2,6-Dinitrotoluene	mg/kg	<1.01	<1.07	<1.12	<0.985	<0.986	<0.820	<0.928	<0.940	<1.14	<0.986	<0.942	<0.866	<1.04	<0.726	<3.30	<0.947	<0.912	<5.01	<0.989	<0.980	<0.994	<0.941	<0.917	<0.840
2-Chloronaphthalene	mg/kg	<1.01	<1.07	<1.12	<0.985	<0.986	<0.820	<0.928	<0.940	<1.14	<0.986	<0.942	<0.866	<1.04	<0.726	<3.30	<0.947	<0.912	<5.01	<0.989	<0.980	<0.994	<0.941	<0.917	<0.840
2-Chlorophenol	mg/kg	<1.01	<1.07	<1.12	<0.985	<0.986	<0.820	<0.928	<0.940	<1.14	<0.986	<0.942	<0.866	<1.04	<0.726	<3.30	<0.947	<0.912	<5.01	<0.989	<0.980	<0.994	<0.941	<0.917	<0.840
2-Methylnaphthalene	mg/kg	<1.01	<1.07	<1.12	<0.985	<0.986	<0.820	<0.928	<0.940	<1.14	<0.986	<0.942	<0.866	<1.04	<0.726	52.4	<0.947	<0.912	<5.01	<0.989	<0.980	<0.994	<0.941	<0.917	<0.840
2-Methylphenol	mg/kg	<1.01	<1.07	<1.12	<0.985	<0.986	<0.820	<0.928	<0.940	<1.14	<0.986	<0.942	<0.866	<1.04	<0.726	<3.30	<0.947	<0.912	<5.01	<0.989	<0.980	<0.994	<0.941	<0.917	<0.840
2-Nitrophenol	mg/kg	<1.01	<1.07	<1.12	<0.985	<0.986	<0.820	<0.928	<0.940	<1.14	<0.986	<0.942	<0.866	<1.04	<0.726	<3.30	<0.947	<0.912	<5.01	<0.989	<0.980	<0.994	<0.941	<0.917	<0.840
3,3´-Dichlorobenzidine	mg/kg	<2.03	<2.13	<2.25	<1.97	<1.97	<1.64	<1.86	<1.88	<2.28	<1.97	<1.89	<1.73	<2.09	<1.45	<6.61	<1.90	<1.83	<10.0	<1.98	<1.96	<1.99	<1.88	<1.84	<1.68
3+4-Methylphenol	mg/kg	<2.03	<2.13	<2.25	<1.97	<1.97	<1.64	<1.86	<1.88	<2.28	<1.97	<1.89	<1.73	<2.09	<1.45	<6.61	<1.90	<1.83	<10.0	<1.98	<1.96	<1.99	<1.88	<1.84	<1.68
4-Bromophenyl-phenylether	mg/kg	<1.01	<1.07	<1.12	<0.985	<0.986	<0.820	<0.928	<0.940	<1.14	<0.986	<0.942	<0.866	<1.04	<0.726	<3.30	<0.947	<0.912	<5.01	<0.989	<0.980	<0.994	<0.941	<0.917	<0.840
4-Chloroaniline	mg/kg	<2.03	<2.13	<2.25	<1.97	<1.97	<1.64	<1.86	<1.88	<2.28	<1.97	<1.89	<1.73	<2.09	<1.45	<1.66	<1.90	<1.83	<2.51	<1.98	<1.96	<1.99	<1.88	<1.84	<1.68
4-Nitrophenol	mg/kg	<5.09	<5.34	<5.64	<4.94	<4.94	<4.11	<4.65	<4.71	<5.70	<4.94	<4.72	<4.34	<5.22	<3.64	<16.6	<4.75	<4.57	<25.1	<4.96	<4.91	<4.99	<4.72	<4.60	<4.21
Acenaphthene	mg/kg	<1.01	<1.07	<1.12	<0.985	<0.986	<0.820	<0.928	<0.940	<1.14	<0.986	<0.942	<0.866	<1.04	<0.726	58.7	0.956	<0.912	<5.01	<0.989	<0.980	<0.994	<0.941	<0.917	<0.840
Acenaphthylene	mg/kg	<1.01	<1.07	<1.12	<0.985	<0.986	<0.820	<0.928	<0.940	<1.14	<0.986	<0.942	<0.866	<1.04	<0.726	3.74	<0.947	<0.912	<5.01	<0.989	<0.980	<0.994	<0.941	<0.917	<0.840
Acetophenone	mg/kg	<2.03	<2.13	<2.25	<1.97	<1.97	<1.64	<1.86	<1.88	<2.28	<1.97	<1.89	<1.73	<2.09	<1.45	<6.61	<1.90	<1.83	<10.0	<1.98	<1.96	<1.99	<1.88	<1.84	<1.68
Aniline	mg/kg	<5.09	<5.34	<5.64	<4.94	<4.94	<4.11	<4.65	<4.71	<5.70	<4.94	<4.72	<4.34	<5.22	<3.64	<16.6	<4.75	<4.57	<25.1	<4.96	<4.91	<4.99	<4.72	<4.60	<4.21
Anthracene	mg/kg	<1.01	<1.07	<1.12	<0.985	<0.986	<0.820	<0.928	<0.940	<1.14	<0.986	<0.942	<0.866	<1.04	<0.726	136	2.57	1.37	<5.01	<0.989	<0.980	<0.994	<0.941	<0.917	3.57
Azobenzene	mg/kg	<1.01	<1.07	<1.12	<0.985	<0.986	<0.820	<0.928	<0.940	<1.14	<0.986	<0.942	<0.866	<1.04	<0.726	<3.30	<0.947	<0.912	<5.01	<0.989	<0.980	<0.994	<0.941	<0.917	<0.840
Benzo(a)anthracene	mg/kg	<1.01	<1.07	<1.12	<0.985	<0.986	<0.820	<0.928	<0.940	<1.14	<0.986	<0.942	<0.866	<1.04	<0.726	153	3.61	1.58	<5.01	<0.989	<0.980	<0.994	<0.941	<0.917	11.4
Benzo(a)pyrene	mg/kg	<0.509	<0.534	<0.564	<0.494	<0.494	<0.411	<0.465	<0.471	<0.570	<0.494	<0.472	<0.434	<0.522	<0.364	113	3.02	1.23	<2.51	<0.496	<0.491	<0.499	<0.472	<0.460	9.53
Benzo(b)fluoranthene	mg/kg	<1.01	<1.07	<1.12	<0.985	<0.986	<0.820	<0.928	<0.940	<1.14	<0.986	<0.942	<0.866	<1.04	<0.726	132	4.04	1.22	<5.01	<0.989	<0.980	<0.994	<0.941	<0.917	14.7
Benzo(g,h,i)perylene	mg/kg	<1.01	<1.07	<1.12	<0.985	<0.986	<0.820	<0.928	<0.940	<1.14	<0.986	<0.942	<0.866	<1.04	<0.726	18.5	<0.947	<0.912	<5.01	<0.989	<0.980	<0.994	<0.941	<0.917	1.6
Benzo(k)fluoranthene	mg/kg	<1.01	<1.07	<1.12	<0.985	<0.986	<0.820	<0.928	<0.940	<1.14	<0.986	<0.942	<0.866	<1.04	<0.726	38.3	1.38	<0.912	<5.01	<0.989	<0.980	<0.994	<0.941	<0.917	5.26
bis(2-Chloroethoxy)methane	mg/kg	<1.01	<1.07	<1.12	<0.985	<0.986	<0.820	<0.928	<0.940	<1.14	<0.986	<0.942	<0.866	<1.04	<0.726	<3.30	<0.947	<0.912	<5.01	<0.989	<0.980	<0.994	<0.941	<0.917	<0.840
bis(2-Chloroethyl)ether	mg/kg	<0.509	<0.534	<0.564	<0.494	<0.494	<0.411	<0.465	<0.471	<0.570	<0.494	<0.472	<0.434	<0.522	<0.364	<0.327	<0.475	<0.457	<0.496	<0.496	<0.491	<0.499	<0.472	<0.460	<0.421
bis(2-chloroisopropyl)Ether	mg/kg	<0.509	<0.534	<0.564	<0.494	<0.494	<0.411	<0.465	<0.471	<0.570	<0.494	<0.472	<0.434	<0.522	<0.364	<0.327	<0.475	<0.457	<0.496	<0.496	<0.491	<0.499	<0.472	<0.460	<0.421
bis(2-Ethylhexyl)phthalate	mg/kg	<1.01	<1.07	<1.12	<0.985	<0.986	<0.820	<0.928	<0.940	<1.14	<0.986	<0.942	<0.866	<1.04	<0.726	16.1	<0.947	<0.912	<5.01	<0.989	<0.980	<0.994	<0.941	<0.917	<0.840
Butylbenzylphthalate	mg/kg	<1.01	<1.07	<1.12	<0.985	<0.986	<0.820	16.9	<0.940	1.7	<0.986	<0.942	<0.866	<1.04	<0.726	<3.30	<0.947	<0.912	<5.01	<0.989	<0.980	<0.994	<0.941	<0.917	<0.840
Chrysene	mg/kg	<0.509	<0.534	<0.564	<0.494	<0.494	<0.411	0.467	<0.471	<0.570	<0.494	<0.472	<0.434	<0.522	<0.364	124	3.15	1.36	<2.51	<0.496	<0.491	<0.499	<0.472	<0.460	10.7
Dibenzo(a,h)Anthracene	mg/kg	<0.509	<0.534	<0.564	<0.494	<0.494	<0.411	<0.465	<0.471	<0.570	<0.494	<0.472	<0.434	<0.522	<0.364	1.81	<0.475	<0.457	<2.51	<0.496	<0.491	<0.499	<0.472	<0.460	1.17
Dibenzofuran	mg/kg	<1.01	<1.07	<1.12	<0.985	<0.986	<0.820	<0.928	<0.940	<1.14	<0.986	<0.942	<0.866	<1.04	<0.726	52.3	<0.947	<0.912	<5.01	<0.989	<0.980	<0.994	<0.941	<0.917	<0.840
Diethylphthalate	mg/kg	<1.01	<1.07	<1.12	<0.985	<0.986	<0.820	<0.928	<0.940	<1.14	<0.986	<0.942	<0.866	<1.04	<0.726	<3.30	<0.947	<0.912	<5.01	<0.989	<0.980	<0.994	<0.941	<0.917	<0.840
Dimethylphthalate	mg/kg	<1.01	<1.07	<1.12	<0.985	<0.986	<0.820	<0.928	<0.940	<1.14	<0.986	<0.942	<0.866	<1.04	<0.726	<3.30	<0.947	<0.912	<5.01	<0.989	<0.980	<0.994	<0.941	<0.917	<0.840
Di-n-butylphthalate	mg/kg	<1.01	<1.07	<1.12	<0.985	<0.986	<0.820	3.28	<0.940	<1.14	<0.986	<0.942	<0.866	<1.04	<0.726	<3.30	<0.947	<0.912	<5.01	<0.989	<0.980	<0.994	<0.941	<0.917	<0.840
Di-n-octylphthalate	mg/kg	<1.01	<1.07	<1.12	<0.985	<0.986	<0.820	<0.928	<0.940	<1.14	<0.986	<0.942	<0.866	<1.04	<0.726	<3.30	<0.947	<0.912	<5.01	<0.989	<0.980	<0.994	<0.941	<0.917	<0.840
Fluoranthene	mg/kg	<1.01	<1.07	<1.12	<0.985	<0.986	<0.820	0.949	<0.940	<1.14	<0.986	<0.942	<0.866	<1.04	<0.726	285	7.53	3.69	<5.01	<0.989	<0.980	<0.994	<0.941	<0.917	27.9
Fluorene	mg/kg	<1.01	<1.07	<1.12	<0.985	<0.986	<0.820	<0.928	<0.940	<1.14	<0.986	<0.942	<0.866	<1.04	<0.726	64.4	1.09	<0.912	<5.01	<0.989	<0.980	<0.994	<0.941	<0.917	1.3
Hexachlorobenzene	mg/kg	<0.509	<0.534	<0.564	<0.494	<0.494	<0.411	<0.465	<0.471	<0.570	<0.494	<0.472	<0.434	<0.522	<0.364	<0.828	<0.475	<0.457	<1.26	<0.496	<0.491	<0.499	<0.472	<0.460	<0.421
Hexachlorobutadiene	mg/kg	<1.01	<1.07	<1.12	<0.985	<0.986	<0.820	<0.928	<0.940	<1.14	<0.986	<0.942	<0.866	<1.04	<0.726	<3.30	<0.947	<0.912	<5.01	<0.989	<0.980	<0.994	<0.941	<0.917	<0.840
Hexachloroethane	mg/kg	<1.01	<1.07	<1.12	<0.985	<0.986	<0.820	<0.928	<0.940	<1.14	<0.986	<0.942	<0.866	<1.04	<0.726	<1.66	<0.947	<0.912	<2.51	<0.989	<0.980	<0.994	<0.941	<0.917	<0.840
Indeno(1,2,3-cd)Pyrene	mg/kg	<1.01	<1.07	<1.12	<0.985	<0.986	<0.820	<0.928	<0.940	<1.14	<0.986	<0.942	<0.866	<1.04	<0.726	20.6	<0.947	<0.912	<5.01	<0.989	<0.980	<0.994	<0.941	<0.917	1.75
Isophorone	mg/kg	<1.01	<1.07	<1.12	<0.985	<0.986	<0.820	<0.928	<0.940	<1.14	<0.986	<0.942	<0.866	<1.04	<0.726	<3.30	<0.947	<0.912	<5.01	<0.989	<0.980	<0.994	<0.941	<0.917	<0.840
Naphthalene	mg/kg	<1.01	<1.07	<1.12	<0.985	<0.986	<0.820	<0.928	<0.940	<1.14	<0.986	<0.942	<0.866	<1.04	<0.726	78.4	1.33	1.04	<5.01	<0.989	<0.980	<0.994	<0.941	<0.917	<0.840
Nitrobenzene	mg/kg	<1.01	<1.07	<1.12	<0.985	<0.986	<0.820	<0.928	<0.940	<1.14	<0.986	<0.942	<0.866	<1.04	<0.726	<3.30	<0.947	<0.912	<5.01	<0.989	<0.980	<0.994	<0.941	<0.917	<0.840
N-Nitrosodimethylamine	mg/kg	<1.01	<1.07	<1.12	<0.985	<0.986	<0.820	<0.928	<0.940	<1.14	<0.986	<0.942	<0.866	<1.04	<0.726	<3.30	<0.947	<0.912	<5.01	<0.989	<0.980	<0.994	<0.941	<0.917	<0.840
Pentachlorophenol	mg/kg	<5.09	<5.34	<5.64	<4.94	<4.94	<4.11	<4.65	<4.71	<5.70	<4.94	<4.72	<4.34	<5.22	<3.64	<3.30	<4.75	<4.57	<5.01	<4.96	<4.91	<4.99	<4.72	<4.60	<4.21
Phenanthrene	mg/kg	<1.01	<1.07	<1.12	<0.985	<0.986	<0.820	<0.928	<0.940	<1.14	<0.986	<0.942	<0.866	<1.04	<0.726	328	7.01	3.87	<5.01	<0.989	<0.980	<0.994	<0.941	<0.917	13
Phenol	mg/kg	<1.01	<1.07	<1.12	<0.985	<0.986	<0.820	<0.928	<0.940	<1.14	<0.986	<0.942	<0.866	<1.04	<0.726	<3.30	<0.947	<0.912	<5.01	<0.989	<0.980	<0.994	<0.941	<0.917	<0.840
Pyrene	mg/kg	<1.01	<1.07	<1.12	<0.985	<0.986	<0.820	<0.928	<0.940	<1.14	<0.986	<0.942	<0.866	<1.04	<0.726	256	5.9	2.8	<5.01	<0.989	<0.980	<0.994	<0.941	<0.917	15.4
Total SVOCs	mg/kg	ND	ND	ND	ND	ND	ND	21.596	ND	1.7	ND	ND	ND	ND	ND	1932.25	41.586	18.16	ND	ND	ND	ND	ND	ND	117.28
Classic Chemistry																									
Corrosivity (pH)	S.U.	6.66	6.96	6.81	5.76	6.26	7.18	9.15	10.7	6.27	6.42	5.48	6.18	6.48	6.84	8.09	6.68	6.93	7.42	7.94	7.5	7.21	7.25	7.57	7.27
Conductivity	umhos/cm	3230	4450	1810	888	1360	682	614	833	1340	1580	1340	905	940	1790	470	192	214	2150	4620	6990	8040	4050	2130	418
Flashpoint	°F	--	--	--	--	--	>200	>200	>200	>200	>200	--	--	--	--	>200	>200	>200	--	--	--	--	--	--	>200
Reactive Cyanide	mg/kg	--	--	--	--	--	<2.0	<2.0	<2.0	<2.0	<2.0	--	--	--	--	<2.0	<2.0	<2.0	--	--	--	--	--	--	<2.0
Reactive Sulfide	mg/kg	--	--	--	--	--	<2.0	<2.0	<2.0	<2.0	<2.0	--	--	--	--	<2.0	<2.0	<2.0	--	--	--	--	--	--	<2.0

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	I08 I08S02BS04A 1502186 Fill 3.3 - 6.6 2/12/2015	I08 I08S04BS05A 1502186 Fill 6.6 - 9 2/12/2015	I08 I08S05B 1502186 Natural Organics 9 - 10 2/12/2015	I08 I08S06 1502186 Natural Clay 14 - 16 2/12/2015	I08 I08S07 1502186 Natural Clay 19 - 21 2/12/2015	I08 I08S08 1502186 Natural Clay 24 - 26 2/12/2015	I08 I08S09 1502186 Natural Sand/Gravel 29 - 31 2/12/2015	I08 I08S10S11 1502186 Natural Clay 34 - 38 2/12/2015	I09 I09S01S02A 1501231 Fill 0 - 3.3 1/13/2015	I09 I09S02BS04A 1501231 Fill 3.3 - 6.6 1/13/2015	I09 I09S04BS05 1501231 Fill 6.6 - 10 1/13/2015	I09 I09S06 1501231 Natural Clay 14 - 16 1/13/2015	I09 I09S07 1501231 Natural Clay 19 - 21 1/13/2015	I09 I09S08 1501231 Natural Clay 24 - 26 1/13/2015	I09 I09S09 1501231 Natural Clay 29 - 31 1/13/2015	I09 I09S10S11 1501231 Natural Clay 34 - 38 1/13/2015	I10 I10S01S02A 1502078 Fill 0 - 3.3 2/5/2015	I10 I10S02BS04A 1502078 Fill 3.3 - 6.6 2/5/2015	I10 I10S04BS05 1502078 Fill 6.6 - 10 2/5/2015	I10 I10S06 1502078 Fill 10 - 12 2/5/2015	I10 I10S07 1502078 Natural Clay 14 - 16 2/5/2015	I10 I10S08 1502078 Natural Clay 19 - 21 2/5/2015	I10 I10S09 1502078 Natural Clay 24 - 26 2/5/2015	I10 I10S10 1502078 Natural Clay 29 - 31 2/5/2015
Preliminary Disposal Facility Category		MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type B-1	Uncontaminated	MCP Restricted	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type B	Hazardous Material Type B	MCP Regulated Type A	MCP Restricted	MCP Regulated Type A	Uncontaminated
RCRA 8 Metals	**Units**																								
Arsenic	mg/kg	24.9	15.9	15.1	14.4	14.2	9.66	<7.33	8.52	7.64	14.2	81.7	14	14.1	18.1	<8.09	<7.50	10.3	10.1	28.1	45	<6.60	14.2	<7.28	<7.14
Barium	mg/kg	82.7	321	54.8	102	108	63.6	27.2	91.8	15.6	55.3	70.4	115	108	92.1	43.8	45.3	31.6	34.4	65.7	43.3	47.9	111	96.4	28.2
Cadmium	mg/kg	<1.52	<1.72	<2.72	<1.62	<1.58	<1.64	<1.47	<1.57	<1.35	<1.47	1.94	<1.59	<1.69	<1.45	<1.62	<1.50	<1.29	<1.38	<1.55	<2.10	<1.32	<1.56	<1.46	<1.43
Chromium	mg/kg	9.36	8.23	35.8	50.5	54.1	33.8	13.7	54.8	18	20.2	37.4	50.7	55	52.6	23.3	30.8	40.6	31.6	33.6	19.2	25.7	59.7	48.7	18.1
Lead	mg/kg	125	83.8	<27.2	<16.2	<15.8	<16.4	<14.7	<15.7	13.8	206	640	16.6	19	16.3	<16.2	<15.0	<12.9	517	6440	426	<13.2	<15.6	<14.6	<14.3
Selenium	mg/kg	<7.61	<8.60	<13.6	<8.12	<7.89	<8.21	<7.33	<7.83	<6.73	<7.35	17.1	<7.97	<8.46	<7.27	<8.09	<7.50	<6.45	<6.91	<7.75	<10.5	<6.60	<7.78	<7.28	<7.14
Silver	mg/kg	<1.52	<1.72	<2.72	<1.62	<1.58	<1.64	<1.47	<1.57	<1.35	<1.47	<1.62	<1.59	<1.69	<1.45	<1.62	<1.50	<1.29	<1.38	<1.55	<2.10	<1.32	<1.56	<1.46	<1.43
Mercury	mg/kg	0.279	0.351	<0.067	<0.042	<0.041	<0.036	<0.041	<0.041	<0.030	0.386	1.07	<0.036	<0.039	<0.039	<0.036	<0.037	<0.030	0.105	2.52	2.51	<0.037	<0.033	<0.035	<0.033
Metals by Toxicity Characteristic Leaching Procedure (TCLP)																									
Arsenic	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead	mg/L	<0.050	--	--	--	--	--	--	--	--	3.58	0.158	--	--	--	--	--	--	1.27	70.1	9.17	--	--	--	--
Selenium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Herbicides																									
2,4,5-T	mg/kg	<0.062	<0.063	--	--	--	--	--	--	<0.051	<0.055	<0.063	--	--	--	--	--	<0.084	<0.044	<0.049	<0.34	<0.044	--	--	--
2,4-D	mg/kg	<0.062	<0.063	--	--	--	--	--	--	<0.051	<0.055	0.15	--	--	--	--	--	<0.42	<0.22	<0.24	<1.7	<0.22	--	--	--
2,4-DB	mg/kg	<0.062	<0.063	--	--	--	--	--	--	<0.051	<0.055	<0.063	--	--	--	--	--	<0.032	<0.017	<0.018	<0.13	<0.017	--	--	--
Dalapon	mg/kg	<0.74	<0.76	--	--	--	--	--	--	<0.61	<0.66	<0.76	--	--	--	--	--	<2.5	<1.3	<1.5	<10	<1.3	--	--	--
Dicamba	mg/kg	<0.062	<0.063	--	--	--	--	--	--	<0.051	<0.055	<0.063	--	--	--	--	--	<0.13	<0.066	<0.073	<0.51	<0.066	--	--	--
Dichlorprop	mg/kg	<0.062	<0.063	--	--	--	--	--	--	<0.051	<0.055	<0.063	--	--	--	--	--	<0.27	<0.14	<0.16	<1.1	<0.14	--	--	--
Dinoseb	mg/kg	<0.37	<0.38	--	--	--	--	--	--	<0.31	<0.33	<0.38	--	--	--	--	--	<0.42	<0.22	<0.24	<1.7	<0.22	--	--	--
MCPA	mg/kg	<15	<15	--	--	--	--	--	--	<12	<13	<15	--	--	--	--	--	<110	<55	<61	<430	<55	--	--	--
MCPP	mg/kg	<15	<15	--	--	--	--	--	--	<12	<13	<15	--	--	--	--	--	<110	<55	<61	<430	<55	--	--	--
Silvex (2,4,5-TP)	mg/kg	<0.062	<0.063	--	--	--	--	--	--	<0.051	<0.055	<0.063	--	--	--	--	--	<0.084	<0.044	<0.049	<0.34	<0.044	--	--	--
Pesticides																									
4,4'-DDD	mg/kg	<0.0042	<0.022	--	--	--	--	--	--	<0.0037	<0.019	<0.022	--	--	--	--	--	<0.0035	<0.0038	<0.0040	<0.0057	<0.0018	--	--	--
4,4'-DDE	mg/kg	<0.0042	<0.022	--	--	--	--	--	--	<0.0037	<0.019	<0.022	--	--	--	--	--	<0.0035	<0.0038	<0.0040	<0.0057	<0.0018	--	--	--
4,4'-DDT	mg/kg	<0.0042	<0.022	--	--	--	--	--	--	<0.0037	<0.019	<0.022	--	--	--	--	--	<0.0035	<0.0038	<0.0040	<0.0057	<0.0018	--	--	--
Aldrin	mg/kg	<0.0043	<0.011	--	--	--	--	--	--	<0.0037	<0.019	<0.022	--	--	--	--	--	<0.0035	<0.0038	<0.0040	<0.0057	<0.0018	--	--	--
alpha-BHC	mg/kg	<0.0043	<0.011	--	--	--	--	--	--	<0.0037	<0.019	<0.022	--	--	--	--	--	<0.0035	<0.0038	<0.0040	<0.0057	<0.0018	--	--	--
beta-BHC	mg/kg	<0.0043	<0.011	--	--	--	--	--	--	<0.0037	<0.019	<0.022	--	--	--	--	--	<0.0035	<0.0038	<0.0040	<0.0057	<0.0018	--	--	--
Chlordane (technical)	mg/kg	<0.043	<0.11	--	--	--	--	--	--	<0.037	<0.19	<0.22	--	--	--	--	--	<0.035	<0.038	<0.040	<0.057	<0.018	--	--	--
delta-BHC	mg/kg	<0.0043	<0.011	--	--	--	--	--	--	<0.0037	<0.019	<0.022	--	--	--	--	--	<0.0035	<0.0038	<0.0040	<0.0057	<0.0018	--	--	--
Dieldrin	mg/kg	<0.0043	<0.011	--	--	--	--	--	--	<0.0037	<0.019	<0.022	--	--	--	--	--	<0.0035	<0.0038	<0.0040	<0.0057	<0.0018	--	--	--
Endosulfan I	mg/kg	<0.0043	<0.011	--	--	--	--	--	--	<0.0037	<0.019	<0.022	--	--	--	--	--	<0.0035	<0.0038	<0.0040	<0.0057	<0.0018	--	--	--
Endosulfan II	mg/kg	<0.0043	<0.011	--	--	--	--	--	--	<0.0037	<0.019	<0.022	--	--	--	--	--	<0.0035	<0.0038	<0.0040	<0.0057	<0.0018	--	--	--
Endosulfan sulfate	mg/kg	<0.0043	<0.011	--	--	--	--	--	--	<0.0037	<0.019	<0.022	--	--	--	--	--	<0.0035	<0.0038	<0.0040	<0.0057	<0.0018	--	--	--
Endrin	mg/kg	<0.0043	<0.011	--	--	--	--	--	--	<0.0037	<0.019	<0.022	--	--	--	--	--	<0.0035	<0.0038	<0.0040	<0.0057	<0.0018	--	--	--
Endrin ketone	mg/kg	<0.0043	<0.011	--	--	--	--	--	--	<0.0037	<0.019	<0.022	--	--	--	--	--	<0.0035	<0.0038	<0.0040	<0.0057	<0.0018	--	--	--
gamma-BHC (Lindane)	mg/kg	<0.0043	<0.011	--	--	--	--	--	--	<0.0037	<0.019	<0.022	--	--	--	--	--	<0.0035	<0.0038	<0.0040	<0.0057	<0.0018	--	--	--
Heptachlor	mg/kg	<0.0043	<0.011	--	--	--	--	--	--	<0.0037	<0.019	<0.022	--	--	--	--	--	<0.0035	<0.0038	<0.0040	<0.0057	<0.0018	--	--	--
Heptachlor epoxide	mg/kg	<0.0043	<0.011	--	--	--	--	--	--	<0.0037	<0.019	<0.022	--	--	--	--	--	<0.0035	<0.0038	<0.0040	<0.0057	<0.0018	--	--	--
Hexachlorobenzene	mg/kg	<0.0043	<0.011	--	--	--	--	--	--	<0.0037	<0.019	<0.022	--	--	--	--	--	<0.0035	<0.0038	<0.0040	<0.0057	<0.0018	--	--	--
Methoxychlor	mg/kg	<0.0043	<0.011	--	--	--	--	--	--	<0.0037	<0.019	<0.022	--	--	--	--	--	<0.0035	<0.0038	<0.0040	<0.0057	<0.0018	--	--	--
Polychlorinated Biphenyls																									
Aroclor 1016	mg/kg	<0.147	<0.167	<0.252	<0.158	<0.154	<0.155	<0.150	<0.166	<0.129	<0.133	<0.154	<0.147	<0.159	<0.153	<0.153	<0.150	<0.130	<0.130	<0.144	<0.219	<0.138	<0.155	<0.157	<0.152
Aroclor 1221	mg/kg	<0.147	<0.167	<0.252	<0.158	<0.154	<0.155	<0.150	<0.166	<0.129	<0.133	<0.154	<0.147	<0.159	<0.153	<0.153	<0.150	<0.130	<0.130	<0.144	<0.219	<0.138	<0.155	<0.157	<0.152
Aroclor 1232	mg/kg	<0.147	<0.167	<0.252	<0.158	<0.154	<0.155	<0.150	<0.166	<0.129	<0.133	<0.154	<0.147	<0.159	<0.153	<0.153	<0.150	<0.130	<0.130	<0.144	<0.219	<0.138	<0.155	<0.157	<0.152
Aroclor 1242	mg/kg	<0.147	<0.167	<0.252	<0.158	<0.154	<0.155	<0.150	<0.166	<0.129	<0.133	<0.154	<0.147	<0.159	<0.153	<0.153	<0.150	<0.130	<0.130	<0.144	<0.219	<0.138	<0.155	<0.157	<0.152
Aroclor 1248	mg/kg	<0.147	<0.167	<0.252	<0.158	<0.154	<0.155	<0.150	<0.166	<0.129	<0.133	<0.154	<0.147	<0.159	<0.153	<0.153	<0.150	<0.130	<0.130	<0.144	<0.219	<0.138	<0.155	<0.157	<0.152
Aroclor 1254	mg/kg	<0.147	<0.167	<0.252	<0.158	<0.154	<0.155	<0.150	<0.166	<0.129	<0.133	<0.154	<0.147	<0.159	<0.153	<0.153	<0.150	<0.130	<0.130	<0.144	<0.219	<0.138	<0.155	<0.157	<0.152
Aroclor 1260	mg/kg	<0.147	<0.167	<0.252	<0.158	<0.154	<0.155	<0.150	<0.166	<0.129	<0.133	<0.154	<0.147	<0.159	<0.153	<0.153	<0.150	<0.130	<0.130	<0.144	<0.219	<0.138	<0.155	<0.157	<0.152
Aroclor 1262	mg/kg	<0.147	<0.167	<0.252	<0.158	<0.154	<0.155	<0.150	<0.166	<0.129	<0.133	<0.154	<0.147	<0.159	<0.153	<0.153	<0.150	<0.130	<0.130	<0.144	<0.219	<0.138	<0.155	<0.157	<0.152
Aroclor 1268	mg/kg	<0.147	<0.167	<0.252	<0.158	<0.154	<0.155	<0.150	<0.166	<0.129	13.2	<0.154	<0.147	<0.159	<0.153	<0.153	<0.150	<0.130	0.455	<0.144	<0.219	<0.138	<0.155	<0.157	<0.152
Total PCBs	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	13.2	ND	ND	ND	ND	ND	ND	ND	0.455	ND	ND	ND	ND	ND	ND
Total Petroleum Hydrocarbons	mg/kg	145	3590	182	<49.9	<50.2	<50.6	<44.9	<52.5	44.7	1640	1050	<47.9	<50.7	<48.3	81.3	<44.9	78.5	215	279	2060	<45.1	<48.9	<49.3	<46.2
Volatile Organic Compounds (VOCs)																									
1,1,1,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.219	--	--	--	--
1,1,1-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.110	--	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.110	--	--	--	--
1,1,2-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.110	--	--	--	--
1,1-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.110	--	--	--	--
1,1-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.110	--	--	--	--
1,1-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.110	--	--	--	--
1,2,3-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.110	--	--	--	--
1,2,3-Trichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.110	--	--	--	--
1,2,4-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.110	--	--	--	--
1,2,4-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.110	--	--	--	--
1,2-Dibromo-3-Chloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.438	--	--	--	--
1,2-Dibromoethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.110	--	--	--	--
1,2-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.110	--	--	--	--
1,2-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.110	--	--	--	--
1,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.110	--	--	--	--
1,3,5-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.110	--	--	--	--
1,3-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.110	--	--	--	--
1,3-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.110	--	--	--	--
1,4-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.110	--	--	--	--
1,4-Dioxane - Screen	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<11.0	--	--	--	--
2,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.219	--	--	--	--
2-Butanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.438	--	--	--	--
2-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.110	--	--	--	--
2-Hexanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.438	--	--	--	--
4-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.110	--	--	--	--
4-Isopropyltoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.110	--	--	--	--
4-Methyl-2-Pentanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.438	--	--	--	--
Acetone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.01	--	--	--	--
Benzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.110	--	--	--	--
Bromobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.110	--	--	--	--
Bromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.110	--	--	--	--
Bromodichloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.110	--	--	--	--
Bromoform	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.110	--	--	--	--
Bromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.219	--	--	--	--
Carbon Disulfide	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.110	--	--	--	--
Carbon Tetrachloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.110	--	--	--	--

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	I08 I08S02BS04A 1502186 Fill 3.3 - 6.6 2/12/2015	I08 I08S04BS05A 1502186 Fill 6.6 - 9 2/12/2015	I08 I08S05B 1502186 Natural Organics 9 - 10 2/12/2015	I08 I08S06 1502186 Natural Clay 14 - 16 2/12/2015	I08 I08S07 1502186 Natural Clay 19 - 21 2/12/2015	I08 I08S08 1502186 Natural Clay 24 - 26 2/12/2015	I08 I08S09 1502186 Natural Sand/Gravel 29 - 31 2/12/2015	I08 I08S10S11 1502186 Natural Clay 34 - 38 2/12/2015	I09 I09S01S02A 1501231 Fill 0 - 3.3 1/13/2015	I09 I09S02BS04A 1501231 Fill 3.3 - 6.6 1/13/2015	I09 I09S04BS05 1501231 Fill 6.6 - 10 1/13/2015	I09 I09S06 1501231 Natural Clay 14 - 16 1/13/2015	I09 I09S07 1501231 Natural Clay 19 - 21 1/13/2015	I09 I09S08 1501231 Natural Clay 24 - 26 1/13/2015	I09 I09S09 1501231 Natural Clay 29 - 31 1/13/2015	I09 I09S10S11 1501231 Natural Clay 34 - 38 1/13/2015	I10 I10S01S02A 1502078 Fill 0 - 3.3 2/5/2015	I10 I10S02BS04A 1502078 Fill 3.3 - 6.6 2/5/2015	I10 I10S04BS05 1502078 Fill 6.6 - 10 2/5/2015	I10 I10S06 1502078 Fill 10 - 12 2/5/2015	I10 I10S07 1502078 Natural Clay 14 - 16 2/5/2015	I10 I10S08 1502078 Natural Clay 19 - 21 2/5/2015	I10 I10S09 1502078 Natural Clay 24 - 26 2/5/2015	I10 I10S10 1502078 Natural Clay 29 - 31 2/5/2015
Preliminary Disposal Facility Category		MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type B-1	Uncontaminated	MCP Restricted	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type B	Hazardous Material Type B	MCP Regulated Type A	MCP Restricted	MCP Regulated Type A	Uncontaminated
Chlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.110	--	--	--	--
Chloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.219	--	--	--	--
Chloroform	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.110	--	--	--	--
Chloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.219	--	--	--	--
cis-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.110	--	--	--	--
cis-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.110	--	--	--	--
Dibromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.110	--	--	--	--
Dibromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.110	--	--	--	--
Dichlorodifluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.110	--	--	--	--
Diethyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.110	--	--	--	--
Di-isopropyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.110	--	--	--	--
Ethyl tertiary-butyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.110	--	--	--	--
Ethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.110	--	--	--	--
Hexachlorobutadiene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.110	--	--	--	--
Isopropylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.110	--	--	--	--
Methyl tert-Butyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.110	--	--	--	--
Methylene Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.438	--	--	--	--
Naphthalene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.692	--	--	--	--
n-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.110	--	--	--	--
n-Propylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.110	--	--	--	--
sec-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.110	--	--	--	--
Styrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.110	--	--	--	--
tert-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.110	--	--	--	--
Tertiary-amyl methyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.110	--	--	--	--
Tetrachloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.110	--	--	--	--
Tetrahydrofuran	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.438	--	--	--	--
Toluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.110	--	--	--	--
trans-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.110	--	--	--	--
trans-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.110	--	--	--	--
Trichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.110	--	--	--	--
Trichlorofluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.110	--	--	--	--
Vinyl Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.110	--	--	--	--
Xylene O	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.110	--	--	--	--
Xylene P,M	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.219	--	--	--	--
Xylenes (Total)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.219	--	--	--	--
Total VOCs	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.702	--	--	--	--
Volatile Organic Compounds - Low Level Analysis																									
1,1,1,2-Tetrachloroethane	mg/kg	<0.0051	<0.0063	<0.0114	<0.0055	<0.0045	<0.0055	<0.0045	<0.0041	<0.0050	<0.0057	<0.0047	<0.0054	<0.0052	<0.0043	<0.0053	<0.0053	<0.0085	<0.0035	<0.0049	<0.0084	<0.0037	<0.0044	<0.0046	<0.0045
1,1,1-Trichloroethane	mg/kg	<0.0051	<0.0063	<0.0114	<0.0055	<0.0045	<0.0055	<0.0045	<0.0041	<0.0050	<0.0057	<0.0047	<0.0054	<0.0052	<0.0043	<0.0053	<0.0053	<0.0085	<0.0035	<0.0049	<0.0084	<0.0037	<0.0044	<0.0046	<0.0045
1,1,2,2-Tetrachloroethane	mg/kg	<0.0020	<0.0025	<0.0046	<0.0022	<0.0018	<0.0022	<0.0018	<0.0016	<0.0020	<0.0023	<0.0019	<0.0021	<0.0021	<0.0017	<0.0021	<0.0021	<0.0034	<0.0014	<0.0020	<0.0033	<0.0015	<0.0017	<0.0018	<0.0018
1,1,2-Trichloroethane	mg/kg	<0.0051	<0.0063	<0.0114	<0.0055	<0.0045	<0.0055	<0.0045	<0.0041	<0.0050	<0.0057	<0.0047	<0.0054	<0.0052	<0.0043	<0.0053	<0.0053	<0.0085	<0.0035	<0.0049	<0.0084	<0.0037	<0.0044	<0.0046	<0.0045
1,1-Dichloroethane	mg/kg	<0.0051	<0.0063	<0.0114	<0.0055	<0.0045	<0.0055	<0.0045	<0.0041	<0.0050	<0.0057	<0.0047	<0.0054	<0.0052	<0.0043	<0.0053	<0.0053	<0.0085	<0.0035	<0.0049	<0.0084	<0.0037	<0.0044	<0.0046	<0.0045
1,1-Dichloroethene	mg/kg	<0.0051	<0.0063	<0.0114	<0.0055	<0.0045	<0.0055	<0.0045	<0.0041	<0.0050	<0.0057	<0.0047	<0.0054	<0.0052	<0.0043	<0.0053	<0.0053	<0.0085	<0.0035	<0.0049	<0.0084	<0.0037	<0.0044	<0.0046	<0.0045
1,1-Dichloropropene	mg/kg	<0.0051	<0.0063	<0.0114	<0.0055	<0.0045	<0.0055	<0.0045	<0.0041	<0.0050	<0.0057	<0.0047	<0.0054	<0.0052	<0.0043	<0.0053	<0.0053	<0.0085	<0.0035	<0.0049	<0.0084	<0.0037	<0.0044	<0.0046	<0.0045
1,2,3-Trichlorobenzene	mg/kg	<0.0051	<0.0063	<0.0114	<0.0055	<0.0045	<0.0055	<0.0045	<0.0041	<0.0050	<0.0057	<0.0047	<0.0054	<0.0052	<0.0043	<0.0053	<0.0053	<0.0085	<0.0035	<0.0049	<0.0084	<0.0037	<0.0044	<0.0046	<0.0045
1,2,3-Trichloropropane	mg/kg	<0.0051	<0.0063	<0.0114	<0.0055	<0.0045	<0.0055	<0.0045	<0.0041	<0.0050	<0.0057	<0.0047	<0.0054	<0.0052	<0.0043	<0.0053	<0.0053	<0.0085	<0.0035	<0.0049	<0.0084	<0.0037	<0.0044	<0.0046	<0.0045
1,2,4-Trichlorobenzene	mg/kg	<0.0051	<0.0063	<0.0114	<0.0055	<0.0045	<0.0055	<0.0045	<0.0041	<0.0050	<0.0057	<0.0047	<0.0054	<0.0052	<0.0043	<0.0053	<0.0053	<0.0085	<0.0035	<0.0049	<0.0084	<0.0037	<0.0044	<0.0046	<0.0045
1,2,4-Trimethylbenzene	mg/kg	<0.0051	<0.0063	<0.0114	<0.0055	<0.0045	<0.0055	<0.0045	<0.0041	<0.0050	<0.0057	<0.0047	<0.0054	<0.0052	<0.0043	<0.0053	<0.0053	<0.0085	<0.0035	<0.0049	0.0093	<0.0037	<0.0044	<0.0046	<0.0045
1,2-Dibromo-3-Chloropropane	mg/kg	<0.0051	<0.0063	<0.0114	<0.0055	<0.0045	<0.0055	<0.0045	<0.0041	<0.0050	<0.0057	<0.0047	<0.0054	<0.0052	<0.0043	<0.0053	<0.0053	<0.0085	<0.0035	<0.0049	<0.0084	<0.0037	<0.0044	<0.0046	<0.0045
1,2-Dibromoethane	mg/kg	<0.0051	<0.0063	<0.0114	<0.0055	<0.0045	<0.0055	<0.0045	<0.0041	<0.0050	<0.0057	<0.0047	<0.0054	<0.0052	<0.0043	<0.0053	<0.0053	<0.0085	<0.0035	<0.0049	<0.0084	<0.0037	<0.0044	<0.0046	<0.0045
1,2-Dichlorobenzene	mg/kg	<0.0051	<0.0063	<0.0114	<0.0055	<0.0045	<0.0055	<0.0045	<0.0041	<0.0050	<0.0057	<0.0047	<0.0054	<0.0052	<0.0043	<0.0053	<0.0053	<0.0085	<0.0035	<0.0049	<0.0084	<0.0037	<0.0044	<0.0046	<0.0045
1,2-Dichloroethane	mg/kg	<0.0051	<0.0063	<0.0114	<0.0055	<0.0045	<0.0055	<0.0045	<0.0041	<0.0050	<0.0057	<0.0047	<0.0054	<0.0052	<0.0043	<0.0053	<0.0053	<0.0085	<0.0035	<0.0049	<0.0084	<0.0037	<0.0044	<0.0046	<0.0045
1,2-Dichloropropane	mg/kg	<0.0051	<0.0063	<0.0114	<0.0055	<0.0045	<0.0055	<0.0045	<0.0041	<0.0050	<0.0057	<0.0047	<0.0054	<0.0052	<0.0043	<0.0053	<0.0053	<0.0085	<0.0035	<0.0049	<0.0084	<0.0037	<0.0044	<0.0046	<0.0045
1,3,5-Trimethylbenzene	mg/kg	<0.0051	<0.0063	<0.0114	<0.0055	<0.0045	<0.0055	<0.0045	<0.0041	<0.0050	<0.0057	<0.0047	<0.0054	<0.0052	<0.0043	<0.0053	<0.0053	<0.0085	<0.0035	<0.0049	<0.0084	<0.0037	<0.0044	<0.0046	<0.0045
1,3-Dichlorobenzene	mg/kg	<0.0051	<0.0063	<0.0114	<0.0055	<0.0045	<0.0055	<0.0045	<0.0041	<0.0050	<0.0057	<0.0047	<0.0054	<0.0052	<0.0043	<0.0053	<0.0053	<0.0085	<0.0035	<0.0049	<0.0084	<0.0037	<0.0044	<0.0046	<0.0045
1,3-Dichloropropane	mg/kg	<0.0051	<0.0063	<0.0114	<0.0055	<0.0045	<0.0055	<0.0045	<0.0041	<0.0050	<0.0057	<0.0047	<0.0054	<0.0052	<0.0043	<0.0053	<0.0053	<0.0085	<0.0035	<0.0049	<0.0084	<0.0037	<0.0044	<0.0046	<0.0045
1,4-Dichlorobenzene	mg/kg	<0.0051	<0.0063	<0.0114	<0.0055	<0.0045	<0.0055	<0.0045	<0.0041	<0.0050	<0.0057	<0.0047	<0.0054	<0.0052	<0.0043	<0.0053	<0.0053	<0.0085	<0.0035	<0.0049	<0.0084	<0.0037	<0.0044	<0.0046	<0.0045
1,4-Dioxane	mg/kg	<0.101	<0.127	<0.228	<0.111	<0.0896	<0.109	<0.0909	<0.0824	<0.100	<0.114	<0.0934	<0.107	<0.103	<0.0858	<0.106	<0.105	<0.169	<0.0700	<0.0988	<0.167	<0.0736	<0.0874	<0.0910	<0.0906
2,2-Dichloropropane	mg/kg	<0.0051	<0.0063	<0.0114	<0.0055	<0.0045	<0.0055	<0.0045	<0.0041	<0.0050	<0.0057	<0.0047	<0.0054	<0.0052	<0.0043	<0.0053	<0.0053	<0.0085	<0.0035	<0.0049	<0.0084	<0.0037	<0.0044	<0.0046	<0.0045
2-Butanone	mg/kg	<0.0101	<0.0127	<0.0228	<0.0111	<0.0090	<0.0109	<0.0091	<0.0082	<0.0100	<0.0114	<0.0093	<0.0107	<0.0103	<0.0086	<0.0106	<0.0105	<0.0169	<0.0070	<0.0099	0.0286	<0.0074	<0.0087	<0.0091	<0.0091
2-Chlorotoluene	mg/kg	<0.0051	<0.0063	<0.0114	<0.0055	<0.0045	<0.0055	<0.0045	<0.0041	<0.0050	<0.0057	<0.0047	<0.0054	<0.0052	<0.0043	<0.0053	<0.0053	<0.0085	<0.0035	<0.0049	<0.0084	<0.0037	<0.0044	<0.0046	<0.0045
2-Hexanone	mg/kg	<0.0101	<0.0127	<0.0228	<0.0111	<0.0090	<0.0109	<0.0091	<0.0082	<0.0100	<0.0114	<0.0093	<0.0107	<0.0103	<0.0086	<0.0106	<0.0105	<0.0169	<0.0070	<0.0099	<0.0167	<0.0074	<0.0087	<0.0091	<0.0091
4-Chlorotoluene	mg/kg	<0.0051	<0.0063	<0.0114	<0.0055	<0.0045	<0.0055	<0.0045	<0.0041	<0.0050	<0.0057	<0.0047	<0.0054	<0.0052	<0.0043	<0.0053	<0.0053	<0.0085	<0.0035	<0.0049	<0.0084	<0.0037	<0.0044	<0.0046	<0.0045
4-Isopropyltoluene	mg/kg	<0.0051	<0.0063	<0.0114	<0.0055	<0.0045	<0.0055	<0.0045	<0.0041	<0.0050	<0.0057	<0.0047	<0.0054	<0.0052	<0.0043	<0.0053	<0.0053	<0.0085	<0.0035	<0.0049	<0.0084	<0.0037	<0.0044	<0.0046	<0.0045
4-Methyl-2-Pentanone	mg/kg	<0.0101	<0.0127	<0.0228	<0.0111	<0.0090	<0.0109	<0.0091	<0.0082	<0.0100	<0.0114	<0.0093	<0.0107	<0.0103	<0.0086	<0.0106	<0.0105	<0.0169	<0.0070	<0.0099	<0.0167	<0.0074	<0.0087	<0.0091	<0.0091
Acetone	mg/kg	<0.0101	<0.0127	0.0678	0.0303	<0.0090	<0.0109	<0.0091	<0.0082	<0.0100	<0.0114	0.0492	0.0218	<0.0103	<0.0086	<0.0106	<0.0105	0.0285	0.0095	0.0228	0.267	0.0205	<0.0087	0.0208	<0.0091
Benzene	mg/kg	<0.0051	<0.0063	<0.0114	<0.0055	<0.0045	<0.0055	<0.0045	<0.0041	<0.0050	<0.0057	<0.0047	<0.0054	<0.0052	<0.0043	<0.0053	<0.0053	<0.0085	<0.0035	<0.0049	<0.0084	<0.0037	<0.0044	<0.0046	<0.0045
Bromobenzene	mg/kg	<0.0051	<0.0063	<0.0114	<0.0055	<0.0045	<0.0055	<0.0045	<0.0041	<0.0050	<0.0057	<0.0047	<0.0054	<0.0052	<0.0043	<0.0053	<0.0053	<0.0085	<0.0035	<0.0049	<0.0084	<0.0037	<0.0044	<0.0046	<0.0045
Bromochloromethane	mg/kg	<0.0051	<0.0063	<0.0114	<0.0055	<0.0045	<0.0055	<0.0045	<0.0041	<0.0050	<0.0057	<0.0047	<0.0054	<0.0052	<0.0043	<0.0053	<0.0053	<0.0085	<0.0035	<0.0049	<0.0084	<0.0037	<0.0044	<0.0046	<0.0045
Bromodichloromethane	mg/kg	<0.0051	<0.0063	<0.0114	<0.0055	<0.0045	<0.0055	<0.0045	<0.0041	<0.0050	<0.0057	<0.0047	<0.0054	<0.0052	<0.0043	<0.0053	<0.0053	<0.0085	<0.0035	<0.0049	<0.0084	<0.0037	<0.0044	<0.0046	<0.0045
Bromoform	mg/kg	<0.0051	<0.0063	<0.0114	<0.0055	<0.0045	<0.0055	<0.0045	<0.0041	<0.0050	<0.0057	<0.0047	<0.0054	<0.0052	<0.0043	<0.0053	<0.0053	<0.0085	<0.0035	<0.0049	<0.0084	<0.0037	<0.0044	<0.0046	<0.0045
Bromomethane	mg/kg	<0.0101	<0.0127	<0.0228	<0.0111	<0.0090	<0.0109	<0.0091	<0.0082	<0.0100	<0.0114	<0.0093	<0.0107	<0.0103	<0.0086	<0.0106	<0.0105	<0.0169	<0.0070	<0.0099	<0.0167	<0.0074	<0.0087	<0.0091	<0.0091
Carbon Disulfide	mg/kg	<0.0051	0.0121	<0.0114	<0.0055	<0.0045	<0.0055	<0.0045	<0.0041	<0.0050	<0.0057	<0.0047	<0.0054	<0.0052	<0.0043	<0.0053	<0.0053	<0.0085	<0.0035	<0.0049	0.0192	<0.0037	<0.0044	<0.0046	<0.0045
Carbon Tetrachloride	mg/kg	<0.0051	<0.0063	<0.0114	<0.0055	<0.0045	<0.0055	<0.0045	<0.0041	<0.0050	<0.0057	<0.0047	<0.0054	<0.0052	<0.0043	<0.0053	<0.0053	<0.0085	<0.0035	<0.0049	<0.0084	<0.0037	<0.0044	<0.0046	<0.0045
Chlorobenzene	mg/kg	<0.0051	<0.0063	<0.0114	<0.0055	<0.0045	<0.0055	<0.0045	<0.0041	<0.0050	<0.0057	<0.0047	<0.0054	<0.0052	<0.0043	<0.0053	<0.0053	<0.0085	<0.0035	<0.0049	<0.0084	<0.0037	<0.0044	<0.0046	<0.0045
Chloroethane	mg/kg	<0.0101	<0.0127	<0.0228	<0.0111	<0.0090	<0.0109	<0.0091	<0.0082	<0.0100	<0.0114	<0.0093	<0.0107	<0.0103	<0.0086	<0.0106	<0.0105	<0.0169	<0.0070	<0.0099	<0.0167	<0.0074	<0.0087	<0.0091	<0.0091
Chloroform	mg/kg	<0.0051	<0.0063	<0.0114	<0.0055	<0.0045	<0.0055	<0.0045	<0.0041	<0.0050	<0.0057	<0.0047	<0.0054	<0.0052	<0.0043	<0.0053	<0.0053	<0.0085	<0.0035	<0.0049	<0.0084	<0.0037	<0.0044	<0.0046	<0.0045
Chloromethane	mg/kg	<0.0101	<0.0127	<0.0228	<0.0111	<0.0090	<0.0109	<0.0091	<0.0082	<0.0100	<0.0114	<0.0093	<0.0107	<0.0103	<0.0086	<0.0106	<0.0105	<0.0169	<0.0070	<0.0099	<0.0167	<0.0074	<0.0087	<0.0091	<0.0091
cis-1,2-Dichloroethene	mg/kg	<0.0051	<0.0063	<0.0114	<0.0055	<0.0045	<0.0055	<0.0045	<0.0041	<0.0050	<0.0057	<0.0047	<0.0054	<0.0052	<0.0043	<0.0053	<0.0053	<0.0085	<0.0035	<0.0049	<0.0084	<0.0037	<0.0044	<0.0046	<0.0045
cis-1,3-Dichloropropene	mg/kg	<0.0051	<0.0063	<0.0114	<0.0055	<0.0045	<0.0055	<0.0045	<0.0041	<0.0050	<0.0057	<0.0047	<0.0054	<0.0052	<0.0043	<0.0053	<0.0053	<0.0085	<0.0035	<0.0049	<0.0084	<0.0037	<0.0044	<0.0046	<0.0045
Dibromochloromethane	mg/kg	<0.0020	<0.0025	<0.0046	<0.0022	<0.0018	<0.0022	<0.0018	<0.0016	<0.0020	<0.0023	<0.0019	<0.0021	<0.0021	<0.0017	<0.0021	<0.0021	<0.0034	<0.0014	<0.0020	<0.0033	<0.0015	<0.0017	<0.0018	<0.0018
Dibromomethane	mg/kg	<0.0051	<0.0063	<0.0114	<0.0055	<0.0045	<0.0055	<0.0045	<0.0041	<0.0050	<0.0057	<0.0047	<0.0054	<0.0052	<0.0043	<0.0053	<0.0053	<0.0085	<0.0035	<0.0049	<0.0084	<0.0037	<0.0044	<0.0046	<0.0045
Dichlorodifluoromethane	mg/kg	<0.0101	<0.0127	<0.0228	<0.0111	<0.0090	<0.0109	<0.0091	<0.0082	<0.0100	<0.0114	<0.0093	<0.0107	<0.0103	<0.0086	<0.0106	<0.0105	<0.0169	<0.0070	<0.0099	<0.0167	<0.0074	<0.0087	<0.0091	<0.0091
Diethyl Ether	mg/kg	<0.0051	<0.0063	<0.0114	<0.0055	<0.0045	<0.0055	<0.0045	<0.0041	<0.0050	<0.0057	<0.0047	<0.0054	<0.0052	<0.0043	<0.0053	<0.0053	<0.0085	<0.0035	<0.0049	<0.0084	<0.0037	<0.0044	<0.0046	<0.0045
Di-isopropyl ether	mg/kg	<0.0051	<0.0063	<0.0114	<0.0055	<0.0045	<0.0055	<0.0045	<0.0041	<0.0050	<0.0057	<0.0047	<0.0054	<0.0052	<0.0043	<0.0053	<0.0053	<0.0085	<0.0035	<0.0049	<0.0084	<0.0037	<0.0044	<0.0046	<0.0045
Ethyl tertiary-butyl ether	mg/kg	<0.0051	<0.0063	<0.0114	<0.0055	<0.0045	<0.0055	<0.0045	<0.0041	<0.0050	<0.0057	<0.0047	<0.0054	<0.0052	<0.0043	<0.0053	<0.0053	<0.0085	<0.0035	<0.0049	<0.0084	<0.0037	<0.0044	<0.0046	<0.0045
Ethylbenzene	mg/kg	<0.0051	<0.0063	<0.0114	<0.0055	<0.0045	<0.0055	<0.0045	<0.0041	<0.0050	<0.0057	<0.0047	<0.0054	<0.0052	<0.0043	<0.0053	<0.0053	<0.0085	<0.0035	<0.0049	<0.0084	<0.0037	<0.0044	<0.0046	<0.0045
Hexachlorobutadiene	mg/kg	<0.0051	<0.0063	<0.0114	<0.0055	<0.0045	<0.0055	<0.0045	<0.0041	<0.0050	<0.0057	<0.0047	<0.0054	<0.0052	<0.0043	<0.0053	<0.0053	<0.0085	<0.0035	<0.0049	<0.0084	<0.0037	<0.0044	<0.0046	<0.0045
Isopropylbenzene	mg/kg	<0.0051	<0.0063	<0.0114	<0.0055	<0.0045	<0.0055	<0.0045	<0.0041	<0.0050	<0.0057	<0.0047	<0.0054	<0.0052	<0.0043	<0.0053	<0.0053	<0.0085	<0.0035	<0.0049	<0.0084	<0.0037	<0.0044	<0.0046	<0.0045
Methyl tert-Butyl Ether	mg/kg	<0.0051	<0.0063	<0.0114	<0.0055	<0.0045	<0.0055	<0.0045	<0.0041	<0.0050	<0.0057	<0.0047	<0.0054	<0.0052	<0.0043	<0.0053	<0.0053	<0.0085	<0.0035	<0.0049	<0.0084	<0.0037	<0.0044	<0.0046	<0.0045
Methylene Chloride	mg/kg	<0.0101	<0.0127	<0.0228	<0.0111	<0.0090	<0.0109	<0.0091	<0.0082	<0.0100	<0.0114	<0.0093	<0.0107	<0.0103	<0.0086	<0.0106	<0.0105	<0.0169	<0.0070	<0.0099	<0.0167	<0.0074	<0.0087	<0.0091	<0.0091
Naphthalene	mg/kg	<0.0051	<0.0063	<0.0114	<0.0055	<0.0045	<0.0055	<0.0045	<0.0041	<0.0050	<0.0057	0.0078	<0.0054	<0.0052	<0.0043	<0.0053	<0.0053	<0.0085	<0.0035	<0.0049	0.404	<0.0037	<0.0044	<0.0046	<0.0045
n-Butylbenzene	mg/kg	<0.0051	<0.0063	<0.0114	<0.0055	<0.0045	<0.0055	<0.0045	<0.0041	<0.0050	<0.0057	<0.0047	<0.0054	<0.0052	<0.0043	<0.0053	<0.0053	<0.0085	<0.0035	<0.0049	<0.0084	<0.0037	<0.0044	<0.0046	<0.0045
n-Propylbenzene	mg/kg	<0.0051	<0.0063	<0.0114	<0.0055	<0.0045	<0.0055	<0.0045	<0.0041	<0.0050	<0.0057	<0.0047	<0.0054	<0.0052	<0.0043	<0.0053	<0.0053	<0.0085	<0.0035	<0.0049	<0.0084	<0.0037	<0.0044	<0.0046	<0.0045
sec-Butylbenzene	mg/kg	<0.0051	<0.0063	<0.0114	<0.0055	<0.0045	<0.0055	<0.0045	<0.0041	<0.0050	<0.0057	<0.0047	<0.0054	<0.0052	<0.0043	<0.0053	<0.0053	<0.0085	<0.0035	<0.0049	<0.0084	<0.0037	<0.0044	<0.0046	<0.0045

J:\170,000-179,999\171521\171521-02.DEL\Supplemental Phase II\Appendices\Appendix H\172521.12 Table 1 2015-12

Table 1
Soil Precharacterization Data

Wynn Resort Casino
Everett, Massachusetts

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	I08 I08S02BS04A 1502186 Fill 3.3 - 6.6 2/12/2015	I08 I08S04BS05A 1502186 Fill 6.6 - 9 2/12/2015	I08 I08S05B 1502186 Natural Organics 9 - 10 2/12/2015	I08 I08S06 1502186 Natural Clay 14 - 16 2/12/2015	I08 I08S07 1502186 Natural Clay 19 - 21 2/12/2015	I08 I08S08 1502186 Natural Clay 24 - 26 2/12/2015	I08 I08S09 1502186 Natural Sand/Gravel 29 - 31 2/12/2015	I08 I08S10S11 1502186 Natural Clay 34 - 38 2/12/2015	I09 I09S01S02A 1501231 Fill 0 - 3.3 1/13/2015	I09 I09S02BS04A 1501231 Fill 3.3 - 6.6 1/13/2015	I09 I09S04BS05 1501231 Fill 6.6 - 10 1/13/2015	I09 I09S06 1501231 Natural Clay 14 - 16 1/13/2015	I09 I09S07 1501231 Natural Clay 19 - 21 1/13/2015	I09 I09S08 1501231 Natural Clay 24 - 26 1/13/2015	I09 I09S09 1501231 Natural Clay 29 - 31 1/13/2015	I09 I09S10S11 1501231 Natural Clay 34 - 38 1/13/2015	I10 I10S01S02A 1502078 Fill 0 - 3.3 2/5/2015	I10 I10S02BS04A 1502078 Fill 3.3 - 6.6 2/5/2015	I10 I10S04BS05 1502078 Fill 6.6 - 10 2/5/2015	I10 I10S06 1502078 Fill 10 - 12 2/5/2015	I10 I10S07 1502078 Natural Clay 14 - 16 2/5/2015	I10 I10S08 1502078 Natural Clay 19 - 21 2/5/2015	I10 I10S09 1502078 Natural Clay 24 - 26 2/5/2015	I10 I10S10 1502078 Natural Clay 29 - 31 2/5/2015
Preliminary Disposal Facility Category		MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type B-1	Uncontaminated	MCP Restricted	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type B	Hazardous Material Type B	MCP Regulated Type A	MCP Restricted	MCP Regulated Type A	Uncontaminated
Styrene	mg/kg	<0.0051	<0.0063	<0.0114	<0.0055	<0.0045	<0.0055	<0.0045	<0.0041	<0.0050	<0.0057	<0.0047	<0.0054	<0.0052	<0.0043	<0.0053	<0.0053	<0.0085	<0.0035	<0.0049	<0.0084	<0.0037	<0.0044	<0.0046	<0.0045
tert-Butylbenzene	mg/kg	<0.0051	<0.0063	<0.0114	<0.0055	<0.0045	<0.0055	<0.0045	<0.0041	<0.0050	<0.0057	<0.0047	<0.0054	<0.0052	<0.0043	<0.0053	<0.0053	<0.0085	<0.0035	<0.0049	<0.0084	<0.0037	<0.0044	<0.0046	<0.0045
Tertiary-amyl methyl ether	mg/kg	<0.0051	<0.0063	<0.0114	<0.0055	<0.0045	<0.0055	<0.0045	<0.0041	<0.0050	<0.0057	<0.0047	<0.0054	<0.0052	<0.0043	<0.0053	<0.0053	<0.0085	<0.0035	<0.0049	<0.0084	<0.0037	<0.0044	<0.0046	<0.0045
Tetrachloroethene	mg/kg	<0.0051	<0.0063	<0.0114	<0.0055	<0.0045	<0.0055	<0.0045	<0.0041	<0.0050	<0.0057	<0.0047	<0.0054	<0.0052	<0.0043	<0.0053	<0.0053	<0.0085	<0.0035	<0.0049	<0.0084	<0.0037	<0.0044	<0.0046	<0.0045
Tetrahydrofuran	mg/kg	<0.0051	<0.0063	<0.0114	<0.0055	<0.0045	<0.0055	<0.0045	<0.0041	<0.0050	<0.0057	<0.0047	<0.0054	<0.0052	<0.0043	<0.0053	<0.0053	<0.0085	<0.0035	<0.0049	<0.0084	<0.0037	<0.0044	<0.0046	<0.0045
Toluene	mg/kg	<0.0051	<0.0063	<0.0114	<0.0055	<0.0045	<0.0055	<0.0045	<0.0041	<0.0050	<0.0057	<0.0047	<0.0054	<0.0052	<0.0043	<0.0053	<0.0053	<0.0085	<0.0035	<0.0049	<0.0084	<0.0037	<0.0044	<0.0046	<0.0045
trans-1,2-Dichloroethene	mg/kg	<0.0051	<0.0063	<0.0114	<0.0055	<0.0045	<0.0055	<0.0045	<0.0041	<0.0050	<0.0057	<0.0047	<0.0054	<0.0052	<0.0043	<0.0053	<0.0053	<0.0085	<0.0035	<0.0049	<0.0084	<0.0037	<0.0044	<0.0046	<0.0045
trans-1,3-Dichloropropene	mg/kg	<0.0051	<0.0063	<0.0114	<0.0055	<0.0045	<0.0055	<0.0045	<0.0041	<0.0050	<0.0057	<0.0047	<0.0054	<0.0052	<0.0043	<0.0053	<0.0053	<0.0085	<0.0035	<0.0049	<0.0084	<0.0037	<0.0044	<0.0046	<0.0045
Trichloroethene	mg/kg	<0.0051	0.0102	<0.0114	<0.0055	<0.0045	<0.0055	<0.0045	<0.0041	<0.0050	<0.0057	<0.0047	<0.0054	<0.0052	<0.0043	<0.0053	<0.0053	<0.0085	<0.0035	<0.0049	<0.0084	<0.0037	<0.0044	<0.0046	<0.0045
Trichlorofluoromethane	mg/kg	<0.0051	<0.0063	<0.0114	<0.0055	<0.0045	<0.0055	<0.0045	<0.0041	<0.0050	<0.0057	<0.0047	<0.0054	<0.0052	<0.0043	<0.0053	<0.0053	<0.0085	<0.0035	<0.0049	<0.0084	<0.0037	<0.0044	<0.0046	<0.0045
Vinyl Chloride	mg/kg	<0.0101	<0.0127	<0.0228	<0.0111	<0.0090	<0.0109	<0.0091	<0.0082	<0.0100	<0.0114	<0.0093	<0.0107	<0.0103	<0.0086	<0.0106	<0.0105	<0.0169	<0.0070	<0.0099	<0.0167	<0.0074	<0.0087	<0.0091	<0.0091
Xylene O	mg/kg	<0.0051	<0.0063	<0.0114	<0.0055	<0.0045	<0.0055	<0.0045	<0.0041	<0.0050	<0.0057	<0.0047	<0.0054	<0.0052	<0.0043	<0.0053	<0.0053	<0.0085	<0.0035	<0.0049	<0.0084	<0.0037	<0.0044	<0.0046	<0.0045
Xylene P,M	mg/kg	<0.0101	<0.0127	<0.0228	<0.0111	<0.0090	<0.0109	<0.0091	<0.0082	<0.0100	<0.0114	<0.0093	<0.0107	<0.0103	<0.0086	<0.0106	<0.0105	<0.0169	<0.0070	<0.0099	<0.0167	<0.0074	<0.0087	<0.0091	<0.0091
Xylenes (Total)	mg/kg	<0.0101	<0.0127	<0.0228	<0.0111	<0.0090	<0.0109	<0.0091	<0.0082	<0.0100	<0.0114	<0.0093	<0.0107	<0.0103	<0.0086	<0.0106	<0.0105	<0.0169	<0.0070	<0.0099	<0.0167	<0.0074	<0.0087	<0.0091	<0.0091
Total VOCs (Low Level)	mg/kg	ND	0.0223	0.0678	0.0303	ND	ND	ND	ND	ND	ND	0.057	0.0218	ND	ND	ND	ND	0.0285	0.0095	0.0228	0.7281	0.0205	ND	0.0208	ND
Semi-Volatile Organic Compounds																									
1,2,4-Trichlorobenzene	mg/kg	<0.995	<1.13	<1.78	<1.06	<1.03	<1.04	<0.997	<1.07	<0.786	<0.873	<0.925	<0.990	<1.03	<0.912	<0.997	<1.01	<0.852	<4.28	<0.998	<5.69	<0.876	<1.02	<1.07	<0.949
1,2-Dichlorobenzene	mg/kg	<0.995	<1.13	<1.78	<1.06	<1.03	<1.04	<0.997	<1.07	<0.786	<0.873	<0.925	<0.990	<1.03	<0.912	<0.997	<1.01	<0.852	<4.28	<0.998	<5.69	<0.876	<1.02	<1.07	<0.949
1,3-Dichlorobenzene	mg/kg	<0.995	<1.13	<1.78	<1.06	<1.03	<1.04	<0.997	<1.07	<0.786	<0.873	<0.925	<0.990	<1.03	<0.912	<0.997	<1.01	<0.852	<4.28	<0.998	<5.69	<0.876	<1.02	<1.07	<0.949
1,4-Dichlorobenzene	mg/kg	<0.499	<0.564	<0.891	<0.534	<0.518	<0.524	<0.500	<0.536	<0.394	<0.438	<0.464	<0.497	<0.516	<0.457	<0.500	<0.505	<0.427	<2.15	<0.501	<2.85	<0.439	<0.513	<0.538	<0.476
2,4,5-Trichlorophenol	mg/kg	<0.995	<1.13	<1.78	<1.06	<1.03	<1.04	<0.997	<1.07	<0.786	<0.873	<0.925	<0.990	<1.03	<0.912	<0.997	<1.01	<0.852	<4.28	<0.998	<5.69	<0.876	<1.02	<1.07	<0.949
2,4,6-Trichlorophenol	mg/kg	<0.995	<1.13	<1.78	<1.06	<1.03	<1.04	<0.997	<1.07	<0.786	<0.873	<0.925	<0.990	<1.03	<0.912	<0.997	<1.01	<0.852	<4.28	<0.998	<5.69	<0.876	<1.02	<1.07	<0.949
2,4-Dichlorophenol	mg/kg	<0.995	<1.13	<1.78	<1.06	<1.03	<1.04	<0.997	<1.07	<0.786	<0.873	<0.925	<0.990	<1.03	<0.912	<0.997	<1.01	<0.852	<4.28	<0.998	<5.69	<0.876	<1.02	<1.07	<0.949
2,4-Dimethylphenol	mg/kg	<0.995	<1.13	<1.78	<1.06	<1.03	<1.04	<0.997	<1.07	<0.786	<0.873	<0.925	<0.990	<1.03	<0.912	<0.997	<1.01	<0.852	<4.28	<0.998	<5.69	<0.876	<1.02	<1.07	<0.949
2,4-Dinitrophenol	mg/kg	<4.99	<5.64	<8.91	<5.34	<5.18	<5.24	<5.00	<5.36	<3.94	<4.38	<4.64	<4.97	<5.16	<4.57	<5.00	<5.05	<4.27	<21.5	<5.01	<28.5	<4.39	<5.13	<5.38	<4.76
2,4-Dinitrotoluene	mg/kg	<0.995	<1.13	<1.78	<1.06	<1.03	<1.04	<0.997	<1.07	<0.786	<0.873	<0.925	<0.990	<1.03	<0.912	<0.997	<1.01	<0.852	<2.15	<0.998	<1.43	<0.876	<1.02	<1.07	<0.949
2,6-Dinitrotoluene	mg/kg	<0.995	<1.13	<1.78	<1.06	<1.03	<1.04	<0.997	<1.07	<0.786	<0.873	<0.925	<0.990	<1.03	<0.912	<0.997	<1.01	<0.852	<4.28	<0.998	<5.69	<0.876	<1.02	<1.07	<0.949
2-Chloronaphthalene	mg/kg	<0.995	<1.13	<1.78	<1.06	<1.03	<1.04	<0.997	<1.07	<0.786	<0.873	<0.925	<0.990	<1.03	<0.912	<0.997	<1.01	<0.852	<4.28	<0.998	<5.69	<0.876	<1.02	<1.07	<0.949
2-Chlorophenol	mg/kg	<0.995	<1.13	<1.78	<1.06	<1.03	<1.04	<0.997	<1.07	<0.786	<0.873	<0.925	<0.990	<1.03	<0.912	<0.997	<1.01	<0.852	<4.28	<0.998	<5.69	<0.876	<1.02	<1.07	<0.949
2-Methylnaphthalene	mg/kg	<0.995	1.58	<1.78	<1.06	<1.03	<1.04	<0.997	<1.07	<0.786	<0.873	<0.925	<0.990	<1.03	<0.912	<0.997	<1.01	<0.852	<4.28	<0.998	5.98	<0.876	<1.02	<1.07	<0.949
2-Methylphenol	mg/kg	<0.995	<1.13	<1.78	<1.06	<1.03	<1.04	<0.997	<1.07	<0.786	<0.873	<0.925	<0.990	<1.03	<0.912	<0.997	<1.01	<0.852	<4.28	<0.998	<5.69	<0.876	<1.02	<1.07	<0.949
2-Nitrophenol	mg/kg	<0.995	<1.13	<1.78	<1.06	<1.03	<1.04	<0.997	<1.07	<0.786	<0.873	<0.925	<0.990	<1.03	<0.912	<0.997	<1.01	<0.852	<4.28	<0.998	<5.69	<0.876	<1.02	<1.07	<0.949
3,3'-Dichlorobenzidine	mg/kg	<1.99	<2.25	<3.56	<2.13	<2.07	<2.09	<2.00	<2.14	<1.57	<1.75	<1.85	<1.98	<2.06	<1.83	<2.00	<2.02	<1.71	<8.58	<2.00	<11.4	<1.75	<2.05	<2.15	<1.90
3+4-Methylphenol	mg/kg	<1.99	<2.25	<3.56	<2.13	<2.07	<2.09	<2.00	<2.14	<1.57	<1.75	<1.85	<1.98	<2.06	<1.83	<2.00	<2.02	<1.71	<8.58	<2.00	<11.4	<1.75	<2.05	<2.15	<1.90
4-Bromophenyl-phenylether	mg/kg	<0.995	<1.13	<1.78	<1.06	<1.03	<1.04	<0.997	<1.07	<0.786	<0.873	<0.925	<0.990	<1.03	<0.912	<0.997	<1.01	<0.852	<4.28	<0.998	<5.69	<0.876	<1.02	<1.07	<0.949
4-Chloroaniline	mg/kg	<1.99	<2.25	<3.56	<2.13	<2.07	<2.09	<2.00	<2.14	<1.57	<1.75	<1.85	<1.98	<2.06	<1.83	<2.00	<2.02	<1.71	<8.58	<2.00	<2.85	<1.75	<2.05	<2.15	<1.90
4-Nitrophenol	mg/kg	<4.99	<5.64	<8.91	<5.34	<5.18	<5.24	<5.00	<5.36	<3.94	<4.38	<4.64	<4.97	<5.16	<4.57	<5.00	<5.05	<4.27	<21.5	<5.01	<28.5	<4.39	<5.13	<5.38	<4.76
Acenaphthene	mg/kg	<0.995	8.13	<1.78	<1.06	<1.03	<1.04	<0.997	<1.07	<0.786	1.27	<0.925	<0.990	<1.03	<0.912	<0.997	<1.01	<0.852	<4.28	<0.998	14.8	<0.876	<1.02	<1.07	<0.949
Acenaphthylene	mg/kg	<0.995	<1.13	<1.78	<1.06	<1.03	<1.04	<0.997	<1.07	<0.786	<0.873	<0.925	<0.990	<1.03	<0.912	<0.997	<1.01	<0.852	<4.28	<0.998	<5.69	<0.876	<1.02	<1.07	<0.949
Acetophenone	mg/kg	<1.99	<2.25	<3.56	<2.13	<2.07	<2.09	<2.00	<2.14	<1.57	<1.75	<1.85	<1.98	<2.06	<1.83	<2.00	<2.02	<1.71	<8.58	<2.00	<11.4	<1.75	<2.05	<2.15	<1.90
Aniline	mg/kg	<4.99	<5.64	<8.91	<5.34	<5.18	<5.24	<5.00	<5.36	<3.94	<4.38	<4.64	<4.97	<5.16	<4.57	<5.00	<5.05	<4.27	<21.5	<5.01	<28.5	<4.39	<5.13	<5.38	<4.76
Anthracene	mg/kg	<0.995	38.2	<1.78	<1.06	<1.03	<1.04	<0.997	<1.07	<0.786	3.89	1.36	<0.990	<1.03	<0.912	<0.997	<1.01	<0.852	<4.28	<0.998	37.5	<0.876	<1.02	<1.07	<0.949
Azobenzene	mg/kg	<0.995	<1.13	<1.78	<1.06	<1.03	<1.04	<0.997	<1.07	<0.786	<0.873	<0.925	<0.990	<1.03	<0.912	<0.997	<1.01	<0.852	<4.28	<0.998	<5.69	<0.876	<1.02	<1.07	<0.949
Benzo(a)anthracene	mg/kg	2.93	45.8	<1.78	<1.06	<1.03	<1.04	<0.997	<1.07	<0.786	9.13	6.68	<0.990	<1.03	<0.912	<0.997	<1.01	<0.852	<4.28	1.34	44.8	<0.876	<1.02	<1.07	<0.949
Benzo(a)pyrene	mg/kg	2.86	35.6	<0.891	<0.534	<0.518	<0.524	<0.500	<0.536	<0.394	7.63	6.62	<0.497	<0.516	<0.457	<0.500	<0.505	<0.427	<2.15	1.23	35.6	<0.439	<0.513	<0.538	<0.476
Benzo(b)fluoranthene	mg/kg	4.39	22.3	<1.78	<1.06	<1.03	<1.04	<0.997	<1.07	<0.786	8.53	7.33	<0.990	<1.03	<0.912	<0.997	<1.01	<0.852	<4.28	1.5	42.3	<0.876	<1.02	<1.07	<0.949
Benzo(g,h,i)perylene	mg/kg	<0.995	4.59	<1.78	<1.06	<1.03	<1.04	<0.997	<1.07	<0.786	2.39	2.13	<0.990	<1.03	<0.912	<0.997	<1.01	<0.852	<4.28	<0.998	14.9	<0.876	<1.02	<1.07	<0.949
Benzo(k)fluoranthene	mg/kg	1.78	20	<1.78	<1.06	<1.03	<1.04	<0.997	<1.07	<0.786	3.07	1.2	<0.990	<1.03	<0.912	<0.997	<1.01	<0.852	<4.28	<0.998	13.8	<0.876	<1.02	<1.07	<0.949
bis(2-Chloroethoxy)methane	mg/kg	<0.995	<1.13	<1.78	<1.06	<1.03	<1.04	<0.997	<1.07	<0.786	<0.873	<0.925	<0.990	<1.03	<0.912	<0.997	<1.01	<0.852	<4.28	<0.998	<5.69	<0.876	<1.02	<1.07	<0.949
bis(2-Chloroethyl)ether	mg/kg	<0.499	<0.564	<0.891	<0.534	<0.518	<0.524	<0.500	<0.536	<0.394	<0.438	<0.464	<0.497	<0.516	<0.457	<0.500	<0.505	<0.427	<0.424	<0.501	<0.564	<0.439	<0.513	<0.538	<0.476
bis(2-chloroisopropyl)Ether	mg/kg	<0.499	<0.564	<0.891	<0.534	<0.518	<0.524	<0.500	<0.536	<0.394	<0.438	<0.464	<0.497	<0.516	<0.457	<0.500	<0.505	<0.427	<0.424	<0.501	<0.564	<0.439	<0.513	<0.538	<0.476
bis(2-Ethylhexyl)phthalate	mg/kg	<0.995	<1.13	<1.78	<1.06	<1.03	<1.04	<0.997	<1.07	<0.786	2.06	8.05	<0.990	<1.03	<0.912	<0.997	<1.01	<0.852	8.79	<0.998	<5.69	<0.876	<1.02	<1.07	<0.949
Butylbenzylphthalate	mg/kg	<0.995	<1.13	<1.78	<1.06	<1.03	<1.04	<0.997	<1.07	<0.786	<0.873	<0.925	<0.990	<1.03	<0.912	<0.997	<1.01	<0.852	<4.28	<0.998	<5.69	<0.876	<1.02	<1.07	<0.949
Chrysene	mg/kg	2.92	37.3	<0.891	<0.534	<0.518	<0.524	<0.500	<0.536	<0.394	8.59	6.77	<0.497	<0.516	<0.457	<0.500	<0.505	<0.427	<2.15	1.45	39.1	<0.439	<0.513	<0.538	<0.476
Dibenzo(a,h)Anthracene	mg/kg	<0.499	3.34	<0.891	<0.534	<0.518	<0.524	<0.500	<0.536	<0.394	1.34	0.901	<0.497	<0.516	<0.457	<0.500	<0.505	<0.427	<2.15	<0.501	<2.85	<0.439	<0.513	<0.538	<0.476
Dibenzofuran	mg/kg	<0.995	8.21	<1.78	<1.06	<1.03	<1.04	<0.997	<1.07	<0.786	<0.873	<0.925	<0.990	<1.03	<0.912	<0.997	<1.01	<0.852	<4.28	<0.998	14.9	<0.876	<1.02	<1.07	<0.949
Diethylphthalate	mg/kg	<0.995	<1.13	<1.78	<1.06	<1.03	<1.04	<0.997	<1.07	<0.786	<0.873	<0.925	<0.990	<1.03	<0.912	<0.997	<1.01	<0.852	<4.28	<0.998	<5.69	<0.876	<1.02	<1.07	<0.949
Dimethylphthalate	mg/kg	<0.995	<1.13	<1.78	<1.06	<1.03	<1.04	<0.997	<1.07	<0.786	<0.873	<0.925	<0.990	<1.03	<0.912	<0.997	<1.01	<0.852	<4.28	<0.998	<5.69	<0.876	<1.02	<1.07	<0.949
Di-n-butylphthalate	mg/kg	<0.995	<1.13	<1.78	<1.06	<1.03	<1.04	<0.997	<1.07	<0.786	<0.873	<0.925	<0.990	<1.03	<0.912	<0.997	<1.01	<0.852	<4.28	<0.998	<5.69	<0.876	<1.02	<1.07	<0.949
Di-n-octylphthalate	mg/kg	<0.995	<1.13	<1.78	<1.06	<1.03	<1.04	<0.997	<1.07	<0.786	<0.873	<0.925	<0.990	<1.03	<0.912	<0.997	<1.01	<0.852	<4.28	<0.998	<5.69	<0.876	<1.02	<1.07	<0.949
Fluoranthene	mg/kg	5.28	114	<1.78	<1.06	<1.03	<1.04	<0.997	<1.07	<0.786	19.4	12.7	<0.990	<1.03	<0.912	<0.997	<1.01	<0.852	<4.28	2.61	89.1	<0.876	<1.02	<1.07	<0.949
Fluorene	mg/kg	<0.995	12.8	<1.78	<1.06	<1.03	<1.04	<0.997	<1.07	<0.786	1.32	<0.925	<0.990	<1.03	<0.912	<0.997	<1.01	<0.852	<4.28	<0.998	20.1	<0.876	<1.02	<1.07	<0.949
Hexachlorobenzene	mg/kg	<0.499	<0.564	<0.891	<0.534	<0.518	<0.524	<0.500	<0.536	<0.394	<0.438	<0.464	<0.497	<0.516	<0.457	<0.500	<0.505	<0.427	<2.15	<0.501	<1.43	<0.439	<0.513	<0.538	<0.476
Hexachlorobutadiene	mg/kg	<0.995	<1.13	<1.78	<1.06	<1.03	<1.04	<0.997	<1.07	<0.786	<0.873	<0.925	<0.990	<1.03	<0.912	<0.997	<1.01	<0.852	<4.28	<0.998	<5.69	<0.876	<1.02	<1.07	<0.949
Hexachloroethane	mg/kg	<0.995	<1.13	<1.78	<1.06	<1.03	<1.04	<0.997	<1.07	<0.786	<0.873	<0.925	<0.990	<1.03	<0.912	<0.997	<1.01	<0.852	<4.28	<0.998	<2.85	<0.876	<1.02	<1.07	<0.949
Indeno(1,2,3-cd)Pyrene	mg/kg	<0.995	5.35	<1.78	<1.06	<1.03	<1.04	<0.997	<1.07	<0.786	2.53	1.79	<0.990	<1.03	<0.912	<0.997	<1.01	<0.852	<4.28	<0.998	14.4	<0.876	<1.02	<1.07	<0.949
Isophorone	mg/kg	<0.995	<1.13	<1.78	<1.06	<1.03	<1.04	<0.997	<1.07	<0.786	<0.873	<0.925	<0.990	<1.03	<0.912	<0.997	<1.01	<0.852	<4.28	<0.998	<5.69	<0.876	<1.02	<1.07	<0.949
Naphthalene	mg/kg	<0.995	1.92	<1.78	<1.06	<1.03	<1.04	<0.997	<1.07	<0.786	<0.873	<0.925	<0.990	<1.03	<0.912	<0.997	<1.01	<0.852	<4.28	<0.998	12	<0.876	<1.02	<1.07	<0.949
Nitrobenzene	mg/kg	<0.995	<1.13	<1.78	<1.06	<1.03	<1.04	<0.997	<1.07	<0.786	<0.873	<0.925	<0.990	<1.03	<0.912	<0.997	<1.01	<0.852	<4.28	<0.998	<5.69	<0.876	<1.02	<1.07	<0.949
N-Nitrosodimethylamine	mg/kg	<0.995	<1.13	<1.78	<1.06	<1.03	<1.04	<0.997	<1.07	<0.786	<0.873	<0.925	<0.990	<1.03	<0.912	<0.997	<1.01	<0.852	<4.28	<0.998	<5.69	<0.876	<1.02	<1.07	<0.949
Pentachlorophenol	mg/kg	<4.99	<5.64	<8.91	<5.34	<5.18	<5.24	<5.00	<5.36	<3.94	<4.38	<4.64	<4.97	<5.16	<4.57	<5.00	<5.05	<4.27	<21.5	<5.01	<5.69	<4.39	<5.13	<5.38	<4.76
Phenanthrene	mg/kg	3.43	96.2	<1.78	<1.06	<1.03	<1.04	<0.997	<1.07	<0.786	13.4	5.21	<0.990	<1.03	<0.912	<0.997	<1.01	<0.852	<4.28	1.83	102	<0.876	<1.02	<1.07	<0.949
Phenol	mg/kg	<0.995	<1.13	<1.78	<1.06	<1.03	<1.04	<0.997	<1.07	<0.786	<0.873	<0.925	<0.990	<1.03	<0.912	<0.997	<1.01	<0.852	<4.28	<0.998	<5.69	<0.876	<1.02	<1.07	<0.949
Pyrene	mg/kg	5.17	67.4	<1.78	<1.06	<1.03	<1.04	<0.997	<1.07	<0.786	13.9	12.3	<0.990	<1.03	<0.912	<0.997	<1.01	<0.852	<4.28	2.25	84.1	<0.876	<1.02	<1.07	<0.949
Total SVOCs	mg/kg	28.76	522.72	ND	ND	ND	ND	ND	ND	ND	98.45	73.041	ND	ND	ND	ND	ND	ND	8.79	12.21	585.38	ND	ND	ND	ND
Classic Chemistry																									
Corrosivity (pH)	S.U.	7.13	6.5	7.66	7.83	7.1	7.2	7.27	7.21	8.81	8.63	7.17	7.74	7.32	7.05	6.95	7.16	9.01	8.82	6.77	4.61	4.83	6.28	6.32	6.41
Conductivity	umhos/cm	529	184	920	3840	3230	4030	2750	1910	105	258	933	1760	4210	4060	5570	2510	166	171	441	1250	1700	1860	3280	3360
Flashpoint	°F	>200	>200	--	--	--	--	--	--	>200	>200	>200	--	--	--	--	--	>200	>200	>200	>200	--	--	--	--
Reactive Cyanide	mg/kg	<2.0	<2.0	--	--	--	--	--	--	<2.0	<2.0	<2.0	--	--	--	--	--	<2.0	<2.0	<2.0	<2.0	--	--	--	--
Reactive Sulfide	mg/kg	<2.0	<2.0	--	--	--	--	--	--	<2.0	<2.0	<2.0	--	--	--	--	--	<2.0	<2.0	<2.0	<2.0	--	--	--	--

Table 1
Soil Precharacterization Data

Wynn Resort Casino
Everett, Massachusetts

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	I10 I10S11S12 1502078 Natural Sand/Gravel 34 - 38 2/5/2015	I11 I11S01S02A 1501231 Fill 0 - 3.3 1/13/2015	I11 I11S02BS04A 1501231 Fill 3.3 - 6.6 1/13/2015	I11 I11S04BS05 1501231 Fill 6.6 - 10 1/13/2015	I11 I11S06S07 1501231 Natural Organics 10 - 14 1/13/2015	I11 I11S08 1501273 Natural Clay 19 - 21 1/14/2015	I11 I11S09 1501273 Natural Clay 24 - 26 1/14/2015	I11 I11S10 1501273 Natural Clay 29 - 31 1/14/2015	I11 I11S11S12 1501273 Natural Clay 34 - 38 1/14/2015	I12 I12S01S02 1502142 Fill 0 - 4 2/11/2015	I12 I12S03S04A 1502188 Fill 4 - 7 2/12/2015	I12 I12S04BS05 1502188 Fill 7 - 10 2/12/2015	I12 I12S06S07A 1502188 Fill 10 - 13 2/12/2015	I12 I12S07BS08 1502188 Fill 13 - 16 2/12/2015	I12 I12S09 1502188 Natural Clay 19 - 21 2/12/2015	I12 I12S10 1502188 Natural Clay 24 - 26 2/12/2015	I12 I12S11 1502188 Natural Clay 29 - 31 2/12/2015	I12 I12S12S13 1502188 Natural Clay 34 - 38 2/12/2015	I13 I13S01S02A 1501273 Fill 0 - 3.3 1/14/2015	I13 I13S02BS04A 1501273 Fill 3.3 - 6.6 1/14/2015	I13 I13S04BS05 1501273 Fill 6.6 - 10 1/14/2015	I13 I13S06 1501273 Natural Organics 10 - 12 1/14/2015	I13 I13S07 1501273 Natural Sand/Gravel 14 - 16 1/14/2015	I13 I13S08 1501273 Natural Clay 19 - 21 1/14/2015
Preliminary Disposal Facility Category		Uncontaminated	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type B	Hazardous Material Type A	MCP Regulated Type B-1	Hazardous Material Type A	MCP Regulated Type B-1	Uncontaminated	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type B	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A
RCRA 8 Metals	**Units**																								
Arsenic	mg/kg	<7.81	13	8.32	15.3	43.8	17.8	9.54	9.66	<8.27	7.41	<7.08	26.5	56.1	8.59	14.5	13.5	10.7	<8.19	8.21	11.1	<8.28	<7.36	<7.55	11.5
Barium	mg/kg	19.6	18.6	26.1	63.8	23.7	144	104	68.9	42	19.4	18.2	55.8	66.9	35.7	95.2	106	79.7	91.4	21.3	37.3	124	7.39	<7.55	101
Cadmium	mg/kg	<1.56	<1.27	<1.32	<1.41	8.85	<1.57	<1.68	<1.60	<1.65	<1.36	<1.42	<1.42	0.91	14.5	<1.72	<1.65	<1.82	<1.64	<1.27	<1.33	<1.66	<1.47	5.94	<1.68
Chromium	mg/kg	14.4	27.1	20.1	64.9	33.7	67.1	57.9	60.5	28.1	24.8	17	61.3	103	22	54.6	57.8	48.7	45.2	26.9	41.3	56	11.5	8.33	49.4
Lead	mg/kg	<15.6	14.2	22.8	1410	75.2	21.7	17.7	<16.0	<16.5	<13.6	41.3	2930	2630	224	<17.2	<16.5	<18.2	<16.4	<12.7	134	385	97.4	58.1	<16.8
Selenium	mg/kg	<7.81	<6.35	<6.60	<7.06	<9.45	<7.87	<8.39	<7.98	<8.27	<6.79	<7.08	<7.09	<8.52	<7.39	<8.58	<8.26	<9.09	<8.19	<6.33	<6.67	<16.6	<14.7	<15.1	<8.38
Silver	mg/kg	<1.56	<1.27	<1.32	<1.41	<1.89	<1.57	<1.68	<1.60	<1.65	<1.36	<1.42	2.01	1.83	<1.48	<1.72	<1.65	<1.82	<1.64	<1.27	<1.33	<1.66	<1.47	<1.51	<1.68
Mercury	mg/kg	<0.035	<0.030	<0.035	1.26	0.573	<0.038	<0.040	<0.038	<0.038	<0.034	0.046	0.94	1.38	0.089	<0.039	<0.039	<0.042	<0.038	<0.031	0.199	0.761	0.063	0.091	<0.040
Metals by Toxicity Characteristic Leaching Procedure (TCLP)																									
Arsenic	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	<0.020	--	--	--	--	--	--	--	--	--	--	--
Lead	mg/L	--	--	--	35.9	--	--	--	--	--	--	--	135	2.04	1.04	--	--	--	--	--	0.161	2.5	--	--	--
Selenium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Herbicides																									
2,4,5-T	mg/kg	--	<0.051	<0.055	<0.059	--	--	--	--	--	<0.056	<0.052	<0.059	<0.064	<0.061	--	--	--	--	<0.052	<0.051	<0.062	--	--	--
2,4-D	mg/kg	--	<0.051	<0.055	<0.059	--	--	--	--	--	<0.056	<0.052	<0.059	<0.064	<0.061	--	--	--	--	<0.052	<0.051	<0.062	--	--	--
2,4-DB	mg/kg	--	<0.051	<0.055	<0.059	--	--	--	--	--	<0.056	<0.052	<0.059	<0.064	<0.061	--	--	--	--	<0.052	<0.051	<0.062	--	--	--
Dalapon	mg/kg	--	<0.62	<0.66	<0.71	--	--	--	--	--	<0.68	<0.62	<0.71	<0.78	<0.74	--	--	--	--	<0.63	<0.62	<0.74	--	--	--
Dicamba	mg/kg	--	<0.051	<0.055	<0.059	--	--	--	--	--	<0.056	<0.052	<0.059	<0.064	<0.061	--	--	--	--	<0.052	<0.051	<0.062	--	--	--
Dichlorprop	mg/kg	--	<0.051	<0.055	<0.059	--	--	--	--	--	<0.056	<0.052	<0.059	<0.064	<0.061	--	--	--	--	<0.052	<0.051	<0.062	--	--	--
Dinoseb	mg/kg	--	<0.31	<0.33	<0.35	--	--	--	--	--	<0.34	<0.31	<0.35	<0.39	<0.37	--	--	--	--	<0.32	<0.31	<0.37	--	--	--
MCPA	mg/kg	--	<12	<13	<14	--	--	--	--	--	<14	<12	<14	<16	<15	--	--	--	--	<13	<12	<15	--	--	--
MCPP	mg/kg	--	<12	<13	<14	--	--	--	--	--	<14	<12	<14	<16	<15	--	--	--	--	<13	<12	<15	--	--	--
Silvex (2,4,5-TP)	mg/kg	--	<0.051	<0.055	<0.059	--	--	--	--	--	<0.056	<0.052	<0.059	<0.064	<0.061	--	--	--	--	<0.052	<0.051	<0.062	--	--	--
Pesticides																									
4,4'-DDD	mg/kg	--	<0.0036	<0.0037	<0.021	--	--	--	--	--	<0.0020	<0.0018	<0.010	<0.0023	<0.0041	--	--	--	--	<0.0017	<0.0036	<0.0044	--	--	--
4,4'-DDE	mg/kg	--	<0.0036	<0.0037	<0.021	--	--	--	--	--	<0.0020	<0.0018	<0.010	<0.0023	<0.0041	--	--	--	--	<0.0017	<0.0036	<0.0044	--	--	--
4,4'-DDT	mg/kg	--	<0.0036	<0.0037	<0.021	--	--	--	--	--	<0.0020	<0.0018	<0.010	<0.0023	<0.0041	--	--	--	--	<0.0017	<0.0036	<0.0044	--	--	--
Aldrin	mg/kg	--	<0.0036	<0.0037	<0.021	--	--	--	--	--	<0.0020	<0.0018	<0.010	<0.0023	<0.0041	--	--	--	--	<0.0017	<0.0036	<0.0044	--	--	--
alpha-BHC	mg/kg	--	<0.0036	<0.0037	<0.021	--	--	--	--	--	<0.0020	<0.0018	<0.010	<0.0023	<0.0041	--	--	--	--	<0.0017	<0.0036	<0.0044	--	--	--
beta-BHC	mg/kg	--	<0.0036	<0.0037	<0.021	--	--	--	--	--	<0.0020	<0.0018	<0.010	<0.0023	<0.0041	--	--	--	--	<0.0017	<0.0036	<0.0044	--	--	--
Chlordane (technical)	mg/kg	--	<0.036	<0.037	<0.21	--	--	--	--	--	<0.020	<0.018	<0.10	<0.023	<0.041	--	--	--	--	<0.017	<0.036	<0.044	--	--	--
delta-BHC	mg/kg	--	<0.0036	<0.0037	<0.021	--	--	--	--	--	<0.0020	<0.0018	<0.010	<0.0023	<0.0041	--	--	--	--	<0.0017	<0.0036	<0.0044	--	--	--
Dieldrin	mg/kg	--	<0.0036	<0.0037	<0.021	--	--	--	--	--	<0.0020	<0.0018	<0.010	<0.0023	<0.0041	--	--	--	--	<0.0017	<0.0036	<0.0044	--	--	--
Endosulfan I	mg/kg	--	<0.0036	<0.0037	<0.021	--	--	--	--	--	<0.0020	<0.0018	<0.010	<0.0023	<0.0041	--	--	--	--	<0.0017	<0.0036	<0.0044	--	--	--
Endosulfan II	mg/kg	--	<0.0036	<0.0037	<0.021	--	--	--	--	--	<0.0020	<0.0018	<0.010	<0.0023	<0.0041	--	--	--	--	<0.0017	<0.0036	<0.0044	--	--	--
Endosulfan sulfate	mg/kg	--	<0.0036	<0.0037	<0.021	--	--	--	--	--	<0.0020	<0.0018	<0.010	<0.0023	<0.0041	--	--	--	--	<0.0017	<0.0036	<0.0044	--	--	--
Endrin	mg/kg	--	<0.0036	<0.0037	<0.021	--	--	--	--	--	<0.0020	<0.0018	<0.010	<0.0023	<0.0041	--	--	--	--	<0.0017	<0.0036	<0.0044	--	--	--
Endrin ketone	mg/kg	--	<0.0036	<0.0037	<0.021	--	--	--	--	--	<0.0020	<0.0018	<0.010	<0.0023	<0.0041	--	--	--	--	<0.0017	<0.0036	<0.0044	--	--	--
gamma-BHC (Lindane)	mg/kg	--	<0.0036	<0.0037	<0.021	--	--	--	--	--	<0.0020	<0.0018	<0.010	<0.0023	<0.0041	--	--	--	--	<0.0017	<0.0036	<0.0044	--	--	--
Heptachlor	mg/kg	--	<0.0036	<0.0037	<0.021	--	--	--	--	--	<0.0020	<0.0018	<0.010	<0.0023	<0.0041	--	--	--	--	<0.0017	<0.0036	<0.0044	--	--	--
Heptachlor epoxide	mg/kg	--	<0.0036	<0.0037	<0.021	--	--	--	--	--	<0.0020	<0.0018	<0.010	<0.0023	<0.0041	--	--	--	--	<0.0017	<0.0036	<0.0044	--	--	--
Hexachlorobenzene	mg/kg	--	<0.0036	<0.0037	<0.021	--	--	--	--	--	<0.0020	<0.0018	<0.010	<0.0023	<0.0041	--	--	--	--	<0.0017	<0.0036	<0.0044	--	--	--
Methoxychlor	mg/kg	--	<0.0036	<0.0037	<0.021	--	--	--	--	--	<0.0020	<0.0018	<0.010	<0.0023	<0.0041	--	--	--	--	<0.0017	<0.0036	<0.0044	--	--	--
Polychlorinated Biphenyls																									
Aroclor 1016	mg/kg	<0.149	<0.126	<0.123	<0.135	<0.174	<0.157	<0.163	<0.157	<0.154	<0.130	<0.128	<0.144	<0.163	<0.141	<0.160	<0.160	<0.168	<0.161	<0.129	<0.128	<0.153	<0.144	<0.134	<0.159
Aroclor 1221	mg/kg	<0.149	<0.126	<0.123	<0.135	<0.174	<0.157	<0.163	<0.157	<0.154	<0.130	<0.128	<0.144	<0.163	<0.141	<0.160	<0.160	<0.168	<0.161	<0.129	<0.128	<0.153	<0.144	<0.134	<0.159
Aroclor 1232	mg/kg	<0.149	<0.126	<0.123	<0.135	<0.174	<0.157	<0.163	<0.157	<0.154	<0.130	<0.128	<0.144	<0.163	<0.141	<0.160	<0.160	<0.168	<0.161	<0.129	<0.128	<0.153	<0.144	<0.134	<0.159
Aroclor 1242	mg/kg	<0.149	<0.126	<0.123	<0.135	<0.174	<0.157	<0.163	<0.157	<0.154	<0.130	<0.128	<0.144	<0.163	<0.141	<0.160	<0.160	<0.168	<0.161	<0.129	<0.128	<0.153	<0.144	<0.134	<0.159
Aroclor 1248	mg/kg	<0.149	<0.126	<0.123	<0.135	<0.174	<0.157	<0.163	<0.157	<0.154	<0.130	<0.128	<0.144	<0.163	<0.141	<0.160	<0.160	<0.168	<0.161	<0.129	<0.128	<0.153	<0.144	<0.134	<0.159
Aroclor 1254	mg/kg	<0.149	<0.126	0.205	<0.135	<0.174	<0.157	<0.163	<0.157	<0.154	<0.130	0.13	<0.144	<0.163	<0.141	<0.160	<0.160	<0.168	<0.161	<0.129	<0.128	<0.153	<0.144	<0.134	<0.159
Aroclor 1260	mg/kg	<0.149	<0.126	<0.123	<0.135	<0.174	<0.157	<0.163	<0.157	<0.154	<0.130	<0.128	<0.144	<0.163	<0.141	<0.160	<0.160	<0.168	<0.161	<0.129	<0.128	<0.153	<0.144	<0.134	<0.159
Aroclor 1262	mg/kg	<0.149	<0.126	<0.123	<0.135	<0.174	<0.157	<0.163	<0.157	<0.154	<0.130	<0.128	<0.144	<0.163	<0.141	<0.160	<0.160	<0.168	<0.161	<0.129	<0.128	<0.153	<0.144	<0.134	<0.159
Aroclor 1268	mg/kg	<0.149	<0.126	<0.123	<0.135	<0.174	<0.157	<0.163	<0.157	<0.154	<0.130	<0.128	0.285	<0.163	<0.141	<0.160	<0.160	<0.168	<0.161	<0.129	<0.128	0.529	<0.144	<0.134	<0.159
Total PCBs	mg/kg	ND	ND	0.205	ND	ND	ND	ND	ND	ND	ND	0.13	0.285	ND	ND	ND	ND	ND	ND	ND	ND	0.529	ND	ND	ND
Total Petroleum Hydrocarbons	mg/kg	<43.2	<42.2	86.9	448	154	<51.1	<50.8	<49.9	<48.8	<39.9	73.3	511	1250	52.1	<49.3	<51.2	<53.5	<47.2	<39.8	177	263	69.9	<44.6	<50.9
Volatile Organic Compounds (VOCs)																									
1,1,1,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-Chloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane - Screen	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Butanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Isopropyltoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-Pentanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Disulfide	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Analyte	Precharacterization Cell	I10	I11	I11	I11	I11	I11	I11	I11	I11	I12	I12	I12	I12	I12	I12	I12	I12	I13	I13	I13	I13	I13	I13
	Sample ID	I10S11S12	I11S01S02A	I11S02BS04A	I11S04BS05	I11S06S07	I11S08	I11S09	I11S10	I11S11S12	I12S01S02	I12S03S04A	I12S04BS05	I12S06S07A	I12S07BS08	I12S09	I12S10	I12S11	I12S12S13	I13S01S02A	I13S02BS04A	I13S04BS05	I13S06	I13S07	I13S08
	Laboratory Work Order	1502078	1501231	1501231	1501231	1501231	1501273	1501273	1501273	1501273	1502142	1502188	1502188	1502188	1502188	1502188	1502188	1502188	1502188	1501273	1501273	1501273	1501273	1501273	1501273
	Soil Distinction	Natural	Fill	Fill	Fill	Natural	Natural	Natural	Natural	Natural	Fill	Fill	Fill	Fill	Fill	Natural	Natural	Natural	Natural	Fill	Fill	Fill	Organics	Natural	Natural
	Soil Type	Sand/Gravel				Clay	Clay	Clay	Clay	Clay						Clay	Clay	Clay	Clay					Sand/Gravel	Clay
	Depth Interval (ft.)	34 - 38	0 - 3.3	3.3 - 6.6	6.6 - 10	10 - 14	19 - 21	24 - 26	29 - 31	34 - 38	0 - 4	4 - 7	7 - 10	10 - 13	13 - 16	19 - 21	24 - 26	29 - 31	34 - 38	0 - 3.3	3.3 - 6.6	6.6 - 10	10 - 12	14 - 16	19 - 21
	Sampling Date	2/5/2015	1/13/2015	1/13/2015	1/13/2015	1/13/2015	1/14/2015	1/14/2015	1/14/2015	1/14/2015	2/11/2015	2/12/2015	2/12/2015	2/12/2015	2/12/2015	2/12/2015	2/12/2015	2/12/2015	2/12/2015	2/12/2015	1/14/2015	1/14/2015	1/14/2015	1/14/2015	1/14/2015	1/14/2015
Preliminary Disposal Facility Category		Uncontaminated	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type B	Hazardous Material Type A	MCP Regulated Type B-1	Hazardous Material Type A	MCP Regulated Type B-1	Uncontaminated	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type B	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A
Chlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Diethyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Di-isopropyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethyl tertiary-butyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
tert-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tertiary-amyl methyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene O	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene P,M	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylenes (Total)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total VOCs	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds - Low Level Analysis																									
1,1,1,2-Tetrachloroethane	mg/kg	<0.0039	<0.0035	<0.0039	<0.0049	<0.0082	<0.0044	<0.0039	<0.0046	<0.0040	<0.0042	<0.0050	<0.0057	<0.0051	<0.0046	<0.0059	<0.0038	<0.0046	<0.0030	<0.0056	<0.0043	<0.0058	<0.0049	<0.0041	<0.0042
1,1,1-Trichloroethane	mg/kg	<0.0039	<0.0035	<0.0039	<0.0049	<0.0082	<0.0044	<0.0039	<0.0046	<0.0040	<0.0042	<0.0050	<0.0057	<0.0051	<0.0046	<0.0059	<0.0038	<0.0046	<0.0030	<0.0056	<0.0043	<0.0058	<0.0049	<0.0041	<0.0042
1,1,2,2-Tetrachloroethane	mg/kg	<0.0016	<0.0014	<0.0016	<0.0020	<0.0033	<0.0018	<0.0016	<0.0018	<0.0016	<0.0017	<0.0020	<0.0023	<0.0021	<0.0018	<0.0024	<0.0015	<0.0018	<0.0012	<0.0022	<0.0017	<0.0023	<0.0020	<0.0016	<0.0017
1,1,2-Trichloroethane	mg/kg	<0.0039	<0.0035	<0.0039	<0.0049	<0.0082	<0.0044	<0.0039	<0.0046	<0.0040	<0.0042	<0.0050	<0.0057	<0.0051	<0.0046	<0.0059	<0.0038	<0.0046	<0.0030	<0.0056	<0.0043	<0.0058	<0.0049	<0.0041	<0.0042
1,1-Dichloroethane	mg/kg	<0.0039	<0.0035	<0.0039	<0.0049	<0.0082	<0.0044	<0.0039	<0.0046	<0.0040	<0.0042	<0.0050	<0.0057	<0.0051	<0.0046	<0.0059	<0.0038	<0.0046	<0.0030	<0.0056	<0.0043	<0.0058	<0.0049	<0.0041	<0.0042
1,1-Dichloroethene	mg/kg	<0.0039	<0.0035	<0.0039	<0.0049	<0.0082	<0.0044	<0.0039	<0.0046	<0.0040	<0.0042	<0.0050	<0.0057	<0.0051	<0.0046	<0.0059	<0.0038	<0.0046	<0.0030	<0.0056	<0.0043	<0.0058	<0.0049	<0.0041	<0.0042
1,1-Dichloropropene	mg/kg	<0.0039	<0.0035	<0.0039	<0.0049	<0.0082	<0.0044	<0.0039	<0.0046	<0.0040	<0.0042	<0.0050	<0.0057	<0.0051	<0.0046	<0.0059	<0.0038	<0.0046	<0.0030	<0.0056	<0.0043	<0.0058	<0.0049	<0.0041	<0.0042
1,2,3-Trichlorobenzene	mg/kg	<0.0039	<0.0035	<0.0039	<0.0049	<0.0082	<0.0044	<0.0039	<0.0046	<0.0040	<0.0042	<0.0050	<0.0057	<0.0051	<0.0046	<0.0059	<0.0038	<0.0046	<0.0030	<0.0056	<0.0043	<0.0058	<0.0049	<0.0041	<0.0042
1,2,3-Trichloropropane	mg/kg	<0.0039	<0.0035	<0.0039	<0.0049	<0.0082	<0.0044	<0.0039	<0.0046	<0.0040	<0.0042	<0.0050	<0.0057	<0.0051	<0.0046	<0.0059	<0.0038	<0.0046	<0.0030	<0.0056	<0.0043	<0.0058	<0.0049	<0.0041	<0.0042
1,2,4-Trichlorobenzene	mg/kg	<0.0039	<0.0035	<0.0039	<0.0049	<0.0082	<0.0044	<0.0039	<0.0046	<0.0040	<0.0042	<0.0050	<0.0057	<0.0051	<0.0046	<0.0059	<0.0038	<0.0046	<0.0030	<0.0056	<0.0043	<0.0058	<0.0049	<0.0041	<0.0042
1,2,4-Trimethylbenzene	mg/kg	<0.0039	<0.0035	<0.0039	<0.0049	<0.0082	<0.0044	<0.0039	<0.0046	<0.0040	<0.0042	<0.0050	<0.0057	<0.0051	<0.0046	<0.0059	<0.0038	<0.0046	<0.0030	<0.0056	<0.0043	<0.0058	<0.0049	<0.0041	<0.0042
1,2-Dibromo-3-Chloropropane	mg/kg	<0.0039	<0.0035	<0.0039	<0.0049	<0.0082	<0.0044	<0.0039	<0.0046	<0.0040	<0.0042	<0.0050	<0.0057	<0.0051	<0.0046	<0.0059	<0.0038	<0.0046	<0.0030	<0.0056	<0.0043	<0.0058	<0.0049	<0.0041	<0.0042
1,2-Dibromoethane	mg/kg	<0.0039	<0.0035	<0.0039	<0.0049	<0.0082	<0.0044	<0.0039	<0.0046	<0.0040	<0.0042	<0.0050	<0.0057	<0.0051	<0.0046	<0.0059	<0.0038	<0.0046	<0.0030	<0.0056	<0.0043	<0.0058	<0.0049	<0.0041	<0.0042
1,2-Dichlorobenzene	mg/kg	<0.0039	<0.0035	<0.0039	<0.0049	<0.0082	<0.0044	<0.0039	<0.0046	<0.0040	<0.0042	<0.0050	<0.0057	<0.0051	<0.0046	<0.0059	<0.0038	<0.0046	<0.0030	<0.0056	<0.0043	<0.0058	<0.0049	<0.0041	<0.0042
1,2-Dichloroethane	mg/kg	<0.0039	<0.0035	<0.0039	<0.0049	<0.0082	<0.0044	<0.0039	<0.0046	<0.0040	<0.0042	<0.0050	<0.0057	<0.0051	<0.0046	<0.0059	<0.0038	<0.0046	<0.0030	<0.0056	<0.0043	<0.0058	<0.0049	<0.0041	<0.0042
1,2-Dichloropropane	mg/kg	<0.0039	<0.0035	<0.0039	<0.0049	<0.0082	<0.0044	<0.0039	<0.0046	<0.0040	<0.0042	<0.0050	<0.0057	<0.0051	<0.0046	<0.0059	<0.0038	<0.0046	<0.0030	<0.0056	<0.0043	<0.0058	<0.0049	<0.0041	<0.0042
1,3,5-Trimethylbenzene	mg/kg	<0.0039	<0.0035	<0.0039	<0.0049	<0.0082	<0.0044	<0.0039	<0.0046	<0.0040	<0.0042	<0.0050	<0.0057	<0.0051	<0.0046	<0.0059	<0.0038	<0.0046	<0.0030	<0.0056	<0.0043	<0.0058	<0.0049	<0.0041	<0.0042
1,3-Dichlorobenzene	mg/kg	<0.0039	<0.0035	<0.0039	<0.0049	<0.0082	<0.0044	<0.0039	<0.0046	<0.0040	<0.0042	<0.0050	<0.0057	<0.0051	<0.0046	<0.0059	<0.0038	<0.0046	<0.0030	<0.0056	<0.0043	<0.0058	<0.0049	<0.0041	<0.0042
1,3-Dichloropropane	mg/kg	<0.0039	<0.0035	<0.0039	<0.0049	<0.0082	<0.0044	<0.0039	<0.0046	<0.0040	<0.0042	<0.0050	<0.0057	<0.0051	<0.0046	<0.0059	<0.0038	<0.0046	<0.0030	<0.0056	<0.0043	<0.0058	<0.0049	<0.0041	<0.0042
1,4-Dichlorobenzene	mg/kg	<0.0039	<0.0035	<0.0039	<0.0049	<0.0082	<0.0044	<0.0039	<0.0046	<0.0040	<0.0042	<0.0050	<0.0057	<0.0051	<0.0046	<0.0059	<0.0038	<0.0046	<0.0030	<0.0056	<0.0043	<0.0058	<0.0049	<0.0041	<0.0042
1,4-Dioxane	mg/kg	<0.0776	<0.0700	<0.0784	<0.0986	<0.164	<0.0887	<0.0779	<0.0914	<0.0796	<0.0841	<0.0996	<0.114	<0.103	<0.0920	<0.119	<0.0764	<0.0919	<0.0592	<0.111	<0.0861	<0.115	<0.0981	<0.0812	<0.0830
2,2-Dichloropropane	mg/kg	<0.0039	<0.0035	<0.0039	<0.0049	<0.0082	<0.0044	<0.0039	<0.0046	<0.0040	<0.0042	<0.0050	<0.0057	<0.0051	<0.0046	<0.0059	<0.0038	<0.0046	<0.0030	<0.0056	<0.0043	<0.0058	<0.0049	<0.0041	<0.0042
2-Butanone	mg/kg	<0.0078	<0.0070	<0.0078	<0.0099	0.0419	<0.0089	<0.0078	<0.0091	<0.0080	<0.0084	<0.0100	<0.0114	<0.0103	<0.0092	<0.0119	<0.0076	<0.0092	<0.0059	<0.0111	<0.0086	<0.0115	<0.0098	<0.0081	<0.0083
2-Chlorotoluene	mg/kg	<0.0039	<0.0035	<0.0039	<0.0049	<0.0082	<0.0044	<0.0039	<0.0046	<0.0040	<0.0042	<0.0050	<0.0057	<0.0051	<0.0046	<0.0059	<0.0038	<0.0046	<0.0030	<0.0056	<0.0043	<0.0058	<0.0049	<0.0041	<0.0042
2-Hexanone	mg/kg	<0.0078	<0.0070	<0.0078	<0.0099	<0.0164	<0.0089	<0.0078	<0.0091	<0.0080	<0.0084	<0.0100	<0.0114	<0.0103	<0.0092	<0.0119	<0.0076	<0.0092	<0.0059	<0.0111	<0.0086	<0.0115	<0.0098	<0.0081	<0.0083
4-Chlorotoluene	mg/kg	<0.0039	<0.0035	<0.0039	<0.0049	<0.0082	<0.0044	<0.0039	<0.0046	<0.0040	<0.0042	<0.0050	<0.0057	<0.0051	<0.0046	<0.0059	<0.0038	<0.0046	<0.0030	<0.0056	<0.0043	<0.0058	<0.0049	<0.0041	<0.0042
4-Isopropyltoluene	mg/kg	<0.0039	<0.0035	<0.0039	<0.0049	<0.0082	<0.0044	<0.0039	<0.0046	<0.0040	<0.0042	<0.0050	<0.0057	<0.0051	<0.0046	<0.0059	<0.0038	<0.0046	<0.0030	<0.0056	<0.0043	<0.0058	<0.0049	<0.0041	<0.0042
4-Methyl-2-Pentanone	mg/kg	<0.0078	<0.0070	<0.0078	<0.0099	<0.0164	<0.0089	<0.0078	<0.0091	<0.0080	<0.0084	<0.0100	<0.0114	<0.0103	<0.0092	<0.0119	<0.0076	<0.0092	<0.0059	<0.0111	<0.0086	<0.0115	<0.0098	<0.0081	<0.0083
Acetone	mg/kg	<0.0078	<0.0070	<0.0078	0.0669	0.329	<0.0089	<0.0078	<0.0091	<0.0080	0.0183	<0.0100	0.0234	0.06	0.0266	0.0259	<0.0076	<0.0092	<0.0059	<0.0111	<0.0086	0.0955	0.138	0.0837	0.0295
Benzene	mg/kg	<0.0039	<0.0035	<0.0039	<0.0049	<0.0082	<0.0044	<0.0039	<0.0046	<0.0040	<0.0042	<0.0050	<0.0057	<0.0051	<0.0046	<0.0059	<0.0038	<0.0046	<0.0030	<0.0056	<0.0043	<0.0058	<0.0049	<0.0041	<0.0042
Bromobenzene	mg/kg	<0.0039	<0.0035	<0.0039	<0.0049	<0.0082	<0.0044	<0.0039	<0.0046	<0.0040	<0.0042	<0.0050	<0.0057	<0.0051	<0.0046	<0.0059	<0.0038	<0.0046	<0.0030	<0.0056	<0.0043	<0.0058	<0.0049	<0.0041	<0.0042
Bromochloromethane	mg/kg	<0.0039	<0.0035	<0.0039	<0.0049	<0.0082	<0.0044	<0.0039	<0.0046	<0.0040	<0.0042	<0.0050	<0.0057	<0.0051	<0.0046	<0.0059	<0.0038	<0.0046	<0.0030	<0.0056	<0.0043	<0.0058	<0.0049	<0.0041	<0.0042
Bromodichloromethane	mg/kg	<0.0039	<0.0035	<0.0039	<0.0049	<0.0082	<0.0044	<0.0039	<0.0046	<0.0040	<0.0042	<0.0050	<0.0057	<0.0051	<0.0046	<0.0059	<0.0038	<0.0046	<0.0030	<0.0056	<0.0043	<0.0058	<0.0049	<0.0041	<0.0042
Bromoform	mg/kg	<0.0039	<0.0035	<0.0039	<0.0049	<0.0082	<0.0044	<0.0039	<0.0046	<0.0040	<0.0042	<0.0050	<0.0057	<0.0051	<0.0046	<0.0059	<0.0038	<0.0046	<0.0030	<0.0056	<0.0043	<0.0058	<0.0049	<0.0041	<0.0042
Bromomethane	mg/kg	<0.0078	<0.0070	<0.0078	<0.0099	<0.0164	<0.0089	<0.0078	<0.0091	<0.0080	<0.0084	<0.0100	<0.0114	<0.0103	<0.0092	<0.0119	<0.0076	<0.0092	<0.0059	<0.0111	<0.0086	<0.0115	<0.0098	<0.0081	<0.0083
Carbon Disulfide	mg/kg	<0.0039	<0.0035	<0.0039	<0.0049	<0.0082	<0.0044	<0.0039	<0.0046	<0.0040	<0.0042	<0.0050	<0.0057	<0.0051	<0.0046	<0.0059	<0.0038	<0.0046	<0.0030	<0.0056	<0.0043	<0.0058	0.0079	0.0072	<0.0042
Carbon Tetrachloride	mg/kg	<0.0039	<0.0035	<0.0039	<0.0049	<0.0082	<0.0044	<0.0039	<0.0046	<0.0040	<0.0042	<0.0050	<0.0057	<0.0051	<0.0046	<0.0059	<0.0038	<0.0046	<0.0030	<0.0056	<0.0043	<0.0058	<0.0049	<0.0041	<0.0042
Chlorobenzene	mg/kg	<0.0039	<0.0035	<0.0039	<0.0049	<0.0082	<0.0044	<0.0039	<0.0046	<0.0040	<0.0042	<0.0050	<0.0057	<0.0051	<0.0046	<0.0059	<0.0038	<0.0046	<0.0030	<0.0056	<0.0043	<0.0058	<0.0049	<0.0041	<0.0042
Chloroethane	mg/kg	<0.0078	<0.0070	<0.0078	<0.0099	<0.0164	<0.0089	<0.0078	<0.0091	<0.0080	<0.0084	<0.0100	<0.0114	<0.0103	<0.0092	<0.0119	<0.0076	<0.0092	<0.0059	<0.0111	<0.0086	<0.0115	<0.0098	<0.0081	<0.0083
Chloroform	mg/kg	<0.0039	<0.0035	<0.0039	<0.0049	<0.0082	<0.0044	<0.0039	<0.0046	<0.0040	<0.0042	<0.0050	<0.0057	<0.0051	<0.0046	<0.0059	<0.0038	<0.0046	<0.0030	<0.0056	<0.0043	<0.0058	<0.0049	<0.0041	<0.0042
Chloromethane	mg/kg	<0.0078	<0.0070	<0.0078	<0.0099	<0.0164	<0.0089	<0.0078	<0.0091	<0.0080	<0.0084	<0.0100	<0.0114	<0.0103	<0.0092	<0.0119	<0.0076	<0.0092	<0.0059	<0.0111	<0.0086	<0.0115	<0.0098	<0.0081	<0.0083
cis-1,2-Dichloroethene	mg/kg	<0.0039	<0.0035	<0.0039	<0.0049	<0.0082	<0.0044	<0.0039	<0.0046	<0.0040	<0.0042	<0.0050	<0.0057	<0.0051	<0.0046	<0.0059	<0.0038	<0.0046	<0.0030	<0.0056	<0.0043	<0.0058	<0.0049	<0.0041	<0.0042
cis-1,3-Dichloropropene	mg/kg	<0.0039	<0.0035	<0.0039	<0.0049	<0.0082	<0.0044	<0.0039	<0.0046	<0.0040	<0.0042	<0.0050	<0.0057	<0.0051	<0.0046	<0.0059	<0.0038	<0.0046	<0.0030	<0.0056	<0.0043	<0.0058	<0.0049	<0.0041	<0.0042
Dibromochloromethane	mg/kg	<0.0016	<0.0014	<0.0016	<0.0020	<0.0033	<0.0018	<0.0016	<0.0018	<0.0016	<0.0017	<0.0020	<0.0023	<0.0021	<0.0018	<0.0024	<0.0015	<0.0018	<0.0012	<0.0022	<0.0017	<0.0023	<0.0020	<0.0016	<0.0017
Dibromomethane	mg/kg	<0.0039	<0.0035	<0.0039	<0.0049	<0.0082	<0.0044	<0.0039	<0.0046	<0.0040	<0.0042	<0.0050	<0.0057	<0.0051	<0.0046	<0.0059	<0.0038	<0.0046	<0.0030	<0.0056	<0.0043	<0.0058	<0.0049	<0.0041	<0.0042
Dichlorodifluoromethane	mg/kg	<0.0078	<0.0070	<0.0078	<0.0099	<0.0164	<0.0089	<0.0078	<0.0091	<0.0080	<0.0084	<0.0100	<0.0114	<0.0103	<0.0092	<0.0119	<0.0076	<0.0092	<0.0059	<0.0111	<0.0086	<0.0115	<0.0098	<0.0081	<0.0083
Diethyl Ether	mg/kg	<0.0039	<0.0035	<0.0039	<0.0049	<0.0082	<0.0044	<0.0039	<0.0046	<0.0040	<0.0042	<0.0050	<0.0057	<0.0051	<0.0046	<0.0059	<0.0038	<0.0046	<0.0030	<0.0056	<0.0043	<0.0058	<0.0049	<0.0041	<0.0042
Di-isopropyl ether	mg/kg	<0.0039	<0.0035	<0.0039	<0.0049	<0.0082	<0.0044	<0.0039	<0.0046	<0.0040	<0.0042	<0.0050	<0.0057	<0.0051	<0.0046	<0.0059	<0.0038	<0.0046	<0.0030	<0.0056	<0.0043	<0.0058	<0.0049	<0.0041	<0.0042
Ethyl tertiary-butyl ether	mg/kg	<0.0039	<0.0035	<0.0039	<0.0049	<0.0082	<0.0044	<0.0039	<0.0046	<0.0040	<0.0042	<0.0050	<0.0057	<0.0051	<0.0046	<0.0059	<0.0038	<0.0046	<0.0030	<0.0056	<0.0043	<0.0058	<0.0049	<0.0041	<0.0042
Ethylbenzene	mg/kg	<0.0039	<0.0035	<0.0039	<0.0049	<0.0082	<0.0044	<0.0039	<0.0046	<0.0040	<0.0042	<0.0050	<0.0057	<0.0051	<0.0046	<0.0059	<0.0038	<0.0046	<0.0030	<0.0056	<0.0043	<0.0058	<0.0049	<0.0041	<0.0042
Hexachlorobutadiene	mg/kg	<0.0039	<0.0035	<0.0039	<0.0049	<0.0082	<0.0044	<0.0039	<0.0046	<0.0040	<0.0042	<0.0050	<0.0057	<0.0051	<0.0046	<0.0059	<0.0038	<0.0046	<0.0030	<0.0056	<0.0043	<0.0058	<0.0049	<0.0041	<0.0042
Isopropylbenzene	mg/kg	<0.0039	<0.0035	<0.0039	<0.0049	<0.0082	<0.0044	<0.0039	<0.0046	<0.0040	<0.0042	<0.0050	<0.0057	<0.0051	<0.0046	<0.0059	<0.0038	<0.0046	<0.0030	<0.0056	<0.0043	<0.0058	<0.0049	<0.0041	<0.0042
Methyl tert-Butyl Ether	mg/kg	<0.0039	<0.0035	<0.0039	<0.0049	<0.0082	<0.0044	<0.0039	<0.0046	<0.0040	<0.0042	<0.0050	<0.0057	<0.0051	<0.0046	<0.0059	<0.0038	<0.0046	<0.0030	<0.0056	<0.0043	<0.0058	<0.0049	<0.0041	<0.0042
Methylene Chloride	mg/kg	<0.0078	<0.0070	<0.0078	<0.0099	<0.0164	<0.0089	<0.0078	<0.0091	<0.0080	<0.0084	<0.0100	<0.0114	<0.0103	<0.0092	<0.0119	<0.0076	<0.0092	<0.0059	<0.0111	<0.0086	<0.0115	<0.0098	<0.0081	<0.0083
Naphthalene	mg/kg	<0.0039	<0.0035	<0.0039	<0.0049	<0.0082	<0.0044	<0.0039	<0.0046	<0.0040	<0.0042	<0.0050	<0.0057	<0.0051	<0.0046	<0.0059	<0.0038	<0.0046	<0.0030	<0.0056	<0.0043	<0.0058	<0.0049	<0.0041	<0.0042
n-Butylbenzene	mg/kg	<0.0039	<0.0035	<0.0039	<0.0049	<0.0082	<0.0044	<0.0039	<0.0046	<0.0040	<0.0042	<0.0050	<0.0057	<0.0051	<0.0046	<0.0059	<0.0038	<0.0046	<0.0030	<0.0056	<0.0043	<0.0058	<0.0049	<0.0041	<0.0042
n-Propylbenzene	mg/kg	<0.0039	<0.0035	<0.0039	<0.0049	<0.0082	<0.0044	<0.0039	<0.0046	<0.0040	<0.0042	<0.0050	<0.0057	<0.0051	<0.0046	<0.0059	<0.0038	<0.0046	<0.0030	<0.0056	<0.0043	<0.0058	<0.0049	<0.0041	<0.0042
sec-Butylbenzene	mg/kg	<0.0039	<0.0035	<0.0039	<0.0049	<0.0082	<0.0044	<0.0039	<0.0046	<0.0040	<0.0042	<0.0050	<0.0057	<0.0051	<0.0046	<0.0059	<0.0038	<0.0046	<0.0030	<0.0056	<0.0043	<0.0058	<0.0049	<0.0041	<0.0042

Table 1
Soil Precharacterization Data

Wynn Resort Casino
Everett, Massachusetts

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	I10 I10S11S12 1502078 Natural Sand/Gravel 34 - 38 2/5/2015	I11 I11S01S02A 1501231 Fill 0 - 3.3 1/13/2015	I11 I11S02BS04A 1501231 Fill 3.3 - 6.6 1/13/2015	I11 I11S04BS05 1501231 Fill 6.6 - 10 1/13/2015	I11 I11S06S07 1501231 Natural Organics 10 - 14 1/13/2015	I11 I11S08 1501273 Natural Clay 19 - 21 1/14/2015	I11 I11S09 1501273 Natural Clay 24 - 26 1/14/2015	I11 I11S10 1501273 Natural Clay 29 - 31 1/14/2015	I11 I11S11S12 1501273 Natural Clay 34 - 38 1/14/2015	I12 I12S01S02 1502142 Fill 0 - 4 2/11/2015	I12 I12S03S04A 1502188 Fill 4 - 7 2/12/2015	I12 I12S04BS05 1502188 Fill 7 - 10 2/12/2015	I12 I12S06S07A 1502188 Fill 10 - 13 2/12/2015	I12 I12S07BS08 1502188 Fill 13 - 16 2/12/2015	I12 I12S09 1502188 Natural Clay 19 - 21 2/12/2015	I12 I12S10 1502188 Natural Clay 24 – 26 2/12/2015	I12 I12S11 1502188 Natural Clay 29 - 31 2/12/2015	I12 I12S12S13 1502188 Natural Clay 34 - 38 2/12/2015	I13 I13S01S02A 1501273 Fill 0 - 3.3 1/14/2015	I13 I13S02BS04A 1501273 Fill 3.3 - 6.6 1/14/2015	I13 I13S04BS05 1501273 Fill 6.6 - 10 1/14/2015	I13 I13S06 1501273 Natural Organics 10 - 12 1/14/2015	I13 I13S07 1501273 Natural Sand/Gravel 14 - 16 1/14/2015	I13 I13S08 1501273 Natural Clay 19 - 21 1/14/2015
Preliminary Disposal Facility Category		Uncontaminated	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type B	Hazardous Material Type A	MCP Regulated Type B-1	Hazardous Material Type A	MCP Regulated Type B-1	Uncontaminated	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type B	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A
Styrene	mg/kg	<0.0039	<0.0035	<0.0039	<0.0049	<0.0082	<0.0044	<0.0039	<0.0046	<0.0040	<0.0042	<0.0050	<0.0057	<0.0051	<0.0046	<0.0059	<0.0038	<0.0046	<0.0030	<0.0056	<0.0043	<0.0058	<0.0049	<0.0041	<0.0042
tert-Butylbenzene	mg/kg	<0.0039	<0.0035	<0.0039	<0.0049	<0.0082	<0.0044	<0.0039	<0.0046	<0.0040	<0.0042	<0.0050	<0.0057	<0.0051	<0.0046	<0.0059	<0.0038	<0.0046	<0.0030	<0.0056	<0.0043	<0.0058	<0.0049	<0.0041	<0.0042
Tertiary-amyl methyl ether	mg/kg	<0.0039	<0.0035	<0.0039	<0.0049	<0.0082	<0.0044	<0.0039	<0.0046	<0.0040	<0.0042	<0.0050	<0.0057	<0.0051	<0.0046	<0.0059	<0.0038	<0.0046	<0.0030	<0.0056	<0.0043	<0.0058	<0.0049	<0.0041	<0.0042
Tetrachloroethene	mg/kg	<0.0039	<0.0035	<0.0039	<0.0049	<0.0082	<0.0044	<0.0039	<0.0046	<0.0040	<0.0042	<0.0050	<0.0057	<0.0051	<0.0046	<0.0059	<0.0038	<0.0046	<0.0030	<0.0056	<0.0043	<0.0058	<0.0049	<0.0041	<0.0042
Tetrahydrofuran	mg/kg	<0.0039	<0.0035	<0.0039	<0.0049	<0.0082	<0.0044	<0.0039	<0.0046	<0.0040	<0.0042	<0.0050	<0.0057	<0.0051	<0.0046	<0.0059	<0.0038	<0.0046	<0.0030	<0.0056	<0.0043	<0.0058	<0.0049	<0.0041	<0.0042
Toluene	mg/kg	<0.0039	<0.0035	<0.0039	<0.0049	<0.0082	<0.0044	<0.0039	<0.0046	<0.0040	<0.0042	<0.0050	<0.0057	<0.0051	<0.0046	<0.0059	<0.0038	<0.0046	<0.0030	<0.0056	<0.0043	<0.0058	<0.0049	<0.0041	<0.0042
trans-1,2-Dichloroethene	mg/kg	<0.0039	<0.0035	<0.0039	<0.0049	<0.0082	<0.0044	<0.0039	<0.0046	<0.0040	<0.0042	<0.0050	<0.0057	<0.0051	<0.0046	<0.0059	<0.0038	<0.0046	<0.0030	<0.0056	<0.0043	<0.0058	<0.0049	<0.0041	<0.0042
trans-1,3-Dichloropropene	mg/kg	<0.0039	<0.0035	<0.0039	<0.0049	<0.0082	<0.0044	<0.0039	<0.0046	<0.0040	<0.0042	<0.0050	<0.0057	<0.0051	<0.0046	<0.0059	<0.0038	<0.0046	<0.0030	<0.0056	<0.0043	<0.0058	<0.0049	<0.0041	<0.0042
Trichloroethene	mg/kg	<0.0039	<0.0035	<0.0039	<0.0049	<0.0082	<0.0044	<0.0039	<0.0046	<0.0040	<0.0042	<0.0050	<0.0057	<0.0051	<0.0046	<0.0059	<0.0038	<0.0046	<0.0030	<0.0056	<0.0043	<0.0058	<0.0049	<0.0041	<0.0042
Trichlorofluoromethane	mg/kg	<0.0039	<0.0035	<0.0039	<0.0049	<0.0082	<0.0044	<0.0039	<0.0046	<0.0040	<0.0042	<0.0050	<0.0057	<0.0051	<0.0046	<0.0059	<0.0038	<0.0046	<0.0030	<0.0056	<0.0043	<0.0058	<0.0049	<0.0041	<0.0042
Vinyl Chloride	mg/kg	<0.0078	<0.0070	<0.0078	<0.0099	<0.0164	<0.0089	<0.0078	<0.0091	<0.0080	<0.0084	<0.0100	<0.0114	<0.0103	<0.0092	<0.0119	<0.0076	<0.0092	<0.0059	<0.0111	<0.0086	<0.0115	<0.0098	<0.0081	<0.0083
Xylene O	mg/kg	<0.0039	<0.0035	<0.0039	<0.0049	<0.0082	<0.0044	<0.0039	<0.0046	<0.0040	<0.0042	<0.0050	<0.0057	<0.0051	<0.0046	<0.0059	<0.0038	<0.0046	<0.0030	<0.0056	<0.0043	<0.0058	<0.0049	<0.0041	<0.0042
Xylene P,M	mg/kg	<0.0078	<0.0070	<0.0078	<0.0099	<0.0164	<0.0089	<0.0078	<0.0091	<0.0080	<0.0084	<0.0100	<0.0114	<0.0103	<0.0092	<0.0119	<0.0076	<0.0092	<0.0059	<0.0111	<0.0086	<0.0115	<0.0098	<0.0081	<0.0083
Xylenes (Total)	mg/kg	<0.0078	<0.0070	<0.0078	<0.0099	<0.0164	<0.0089	<0.0078	<0.0091	<0.0080	<0.0084	<0.0100	<0.0114	<0.0103	<0.0092	<0.0119	<0.0076	<0.0092	<0.0059	<0.0111	<0.0086	<0.0115	<0.0098	<0.0081	<0.0083
Total VOCs (Low Level)	mg/kg	ND	ND	ND	0.0669	0.3709	ND	ND	ND	ND	0.0183	ND	0.0234	0.06	0.0266	0.0259	ND	ND	ND	ND	ND	0.0955	0.1459	0.0909	0.0295
Semi-Volatile Organic Compounds																									
1,2,4-Trichlorobenzene	mg/kg	<0.982	<0.869	<0.892	<0.965	<1.14	<1.07	<1.06	<1.04	<0.985	<0.868	<0.879	<0.943	<4.26	<0.940	<1.08	<1.02	<1.08	<1.07	<0.865	<0.868	<1.04	<1.02	<0.960	<1.06
1,2-Dichlorobenzene	mg/kg	<0.982	<0.869	<0.892	<0.965	<1.14	<1.07	<1.06	<1.04	<0.985	<0.868	<0.879	<0.943	<4.26	<0.940	<1.08	<1.02	<1.08	<1.07	<0.865	<0.868	<1.04	<1.02	<0.960	<1.06
1,3-Dichlorobenzene	mg/kg	<0.982	<0.869	<0.892	<0.965	<1.14	<1.07	<1.06	<1.04	<0.985	<0.868	<0.879	<0.943	<4.26	<0.940	<1.08	<1.02	<1.08	<1.07	<0.865	<0.868	<1.04	<1.02	<0.960	<1.06
1,4-Dichlorobenzene	mg/kg	<0.492	<0.436	<0.447	<0.484	<0.574	<0.534	<0.531	<0.521	<0.494	<0.435	<0.441	<0.473	<2.14	<0.472	<0.539	<0.511	<0.541	<0.538	<0.434	<0.435	<0.523	<0.514	<0.481	<0.534
2,4,5-Trichlorophenol	mg/kg	<0.982	<0.869	<0.892	<0.965	<1.14	<1.07	<1.06	<1.04	<0.985	<0.868	<0.879	<0.943	<4.26	<0.940	<1.08	<1.02	<1.08	<1.07	<0.865	<0.868	<1.04	<1.02	<0.960	<1.06
2,4,6-Trichlorophenol	mg/kg	<0.982	<0.869	<0.892	<0.965	<1.14	<1.07	<1.06	<1.04	<0.985	<0.868	<0.879	<0.943	<4.26	<0.940	<1.08	<1.02	<1.08	<1.07	<0.865	<0.868	<1.04	<1.02	<0.960	<1.06
2,4-Dichlorophenol	mg/kg	<0.982	<0.869	<0.892	<0.965	<1.14	<1.07	<1.06	<1.04	<0.985	<0.868	<0.879	<0.943	<4.26	<0.940	<1.08	<1.02	<1.08	<1.07	<0.865	<0.868	<1.04	<1.02	<0.960	<1.06
2,4-Dimethylphenol	mg/kg	<0.982	<0.869	<0.892	<0.965	<1.14	<1.07	<1.06	<1.04	<0.985	<0.868	<0.879	<0.943	<4.26	<0.940	<1.08	<1.02	<1.08	<1.07	<0.865	<0.868	<1.04	<1.02	<0.960	<1.06
2,4-Dinitrophenol	mg/kg	<4.92	<4.36	<4.47	<4.84	<5.74	<5.34	<5.31	<5.21	<4.94	<4.35	<4.41	<4.73	<21.4	<4.72	<5.39	<5.11	<5.41	<5.38	<4.34	<4.35	<5.23	<5.14	<4.81	<5.34
2,4-Dinitrotoluene	mg/kg	<0.982	<0.869	<0.892	<0.965	<1.14	<1.07	<1.06	<1.04	<0.985	<0.868	<0.879	<0.943	<4.26	<0.940	<1.08	<1.02	<1.08	<1.07	<0.865	<0.868	<1.04	<1.02	<0.960	<1.06
2,6-Dinitrotoluene	mg/kg	<0.982	<0.869	<0.892	<0.965	<1.14	<1.07	<1.06	<1.04	<0.985	<0.868	<0.879	<0.943	<4.26	<0.940	<1.08	<1.02	<1.08	<1.07	<0.865	<0.868	<1.04	<1.02	<0.960	<1.06
2-Chloronaphthalene	mg/kg	<0.982	<0.869	<0.892	<0.965	<1.14	<1.07	<1.06	<1.04	<0.985	<0.868	<0.879	<0.943	<4.26	<0.940	<1.08	<1.02	<1.08	<1.07	<0.865	<0.868	<1.04	<1.02	<0.960	<1.06
2-Chlorophenol	mg/kg	<0.982	<0.869	<0.892	<0.965	<1.14	<1.07	<1.06	<1.04	<0.985	<0.868	<0.879	<0.943	<4.26	<0.940	<1.08	<1.02	<1.08	<1.07	<0.865	<0.868	<1.04	<1.02	<0.960	<1.06
2-Methylnaphthalene	mg/kg	<0.982	<0.869	<0.892	<0.965	<1.14	<1.07	<1.06	<1.04	<0.985	<0.868	<0.879	<0.943	<4.26	<0.940	<1.08	<1.02	<1.08	<1.07	<0.865	<0.868	<1.04	<1.02	<0.960	<1.06
2-Methylphenol	mg/kg	<0.982	<0.869	<0.892	<0.965	<1.14	<1.07	<1.06	<1.04	<0.985	<0.868	<0.879	<0.943	<4.26	<0.940	<1.08	<1.02	<1.08	<1.07	<0.865	<0.868	<1.04	<1.02	<0.960	<1.06
2-Nitrophenol	mg/kg	<0.982	<0.869	<0.892	<0.965	<1.14	<1.07	<1.06	<1.04	<0.985	<0.868	<0.879	<0.943	<4.26	<0.940	<1.08	<1.02	<1.08	<1.07	<0.865	<0.868	<1.04	<1.02	<0.960	<1.06
3,3´-Dichlorobenzidine	mg/kg	<1.97	<1.74	<1.79	<1.93	<2.29	<2.13	<2.12	<2.08	<1.97	<1.74	<1.76	<1.89	<8.53	<1.88	<2.15	<2.04	<2.16	<2.15	<1.73	<1.74	<2.09	<2.05	<1.92	<2.13
3+4-Methylphenol	mg/kg	<1.97	<1.74	<1.79	<1.93	<2.29	<2.13	<2.12	<2.08	<1.97	<1.74	<1.76	<1.89	<8.53	<1.88	<2.15	<2.04	<2.16	<2.15	<1.73	<1.74	<2.09	<2.05	<1.92	<2.13
4-Bromophenyl-phenylether	mg/kg	<0.982	<0.869	<0.892	<0.965	<1.14	<1.07	<1.06	<1.04	<0.985	<0.868	<0.879	<0.943	<4.26	<0.940	<1.08	<1.02	<1.08	<1.07	<0.865	<0.868	<1.04	<1.02	<0.960	<1.06
4-Chloroaniline	mg/kg	<1.97	<1.74	<1.79	<1.93	<2.29	<2.13	<2.12	<2.08	<1.97	<1.74	<1.76	<1.89	<8.53	<1.88	<2.15	<2.04	<2.16	<2.15	<1.73	<1.74	<2.09	<2.05	<1.92	<2.13
4-Nitrophenol	mg/kg	<4.92	<4.36	<4.47	<4.84	<5.74	<5.34	<5.31	<5.21	<4.94	<4.35	<4.41	<4.73	<21.4	<4.72	<5.39	<5.11	<5.41	<5.38	<4.34	<4.35	<5.23	<5.14	<4.81	<5.34
Acenaphthene	mg/kg	<0.982	<0.869	<0.892	<0.965	<1.14	<1.07	<1.06	<1.04	<0.985	<0.868	<0.879	<0.943	<4.26	<0.940	<1.08	<1.02	<1.08	<1.07	<0.865	<0.868	<1.04	<1.02	<0.960	<1.06
Acenaphthylene	mg/kg	<0.982	<0.869	<0.892	<0.965	<1.14	<1.07	<1.06	<1.04	<0.985	<0.868	<0.879	<0.943	<4.26	<0.940	<1.08	<1.02	<1.08	<1.07	<0.865	<0.868	<1.04	<1.02	<0.960	<1.06
Acetophenone	mg/kg	<1.97	<1.74	<1.79	<1.93	<2.29	<2.13	<2.12	<2.08	<1.97	<1.74	<1.76	<1.89	<8.53	<1.88	<2.15	<2.04	<2.16	<2.15	<1.73	<1.74	<2.09	<2.05	<1.92	<2.13
Aniline	mg/kg	<4.92	<4.36	<4.47	<4.84	<5.74	<5.34	<5.31	<5.21	<4.94	<4.35	<4.41	<4.73	<21.4	<4.72	<5.39	<5.11	<5.41	<5.38	<4.34	<4.35	<5.23	<5.14	<4.81	<5.34
Anthracene	mg/kg	<0.982	<0.869	<0.892	<0.965	<1.14	<1.07	<1.06	<1.04	<0.985	<0.868	<0.879	<0.943	<4.26	<0.940	<1.08	<1.02	<1.08	<1.07	<0.865	<0.868	<1.04	<1.02	<0.960	<1.06
Azobenzene	mg/kg	<0.982	<0.869	<0.892	<0.965	<1.14	<1.07	<1.06	<1.04	<0.985	<0.868	<0.879	<0.943	<4.26	<0.940	<1.08	<1.02	<1.08	<1.07	<0.865	<0.868	<1.04	<1.02	<0.960	<1.06
Benzo(a)anthracene	mg/kg	<0.982	<0.869	<0.892	1.01	<1.14	<1.07	<1.06	<1.04	<0.985	<0.868	<0.879	<0.943	<4.26	<0.940	<1.08	<1.02	<1.08	<1.07	<0.865	<0.868	<1.04	<1.02	<0.960	<1.06
Benzo(a)pyrene	mg/kg	<0.492	<0.436	<0.447	0.935	<0.574	<0.534	<0.531	<0.521	<0.494	<0.435	<0.441	0.5	<2.14	<0.472	<0.539	<0.511	<0.541	<0.538	<0.434	<0.435	0.628	<0.514	<0.481	<0.534
Benzo(b)fluoranthene	mg/kg	<0.982	<0.869	<0.892	1.33	<1.14	<1.07	<1.06	<1.04	<0.985	<0.868	<0.879	<0.943	<4.26	<0.940	<1.08	<1.02	<1.08	<1.07	<0.865	<0.868	1.07	<1.02	<0.960	<1.06
Benzo(g,h,i)perylene	mg/kg	<0.982	<0.869	<0.892	<0.965	<1.14	<1.07	<1.06	<1.04	<0.985	<0.868	<0.879	<0.943	<4.26	<0.940	<1.08	<1.02	<1.08	<1.07	<0.865	<0.868	<1.04	<1.02	<0.960	<1.06
Benzo(k)fluoranthene	mg/kg	<0.982	<0.869	<0.892	<0.965	<1.14	<1.07	<1.06	<1.04	<0.985	<0.868	<0.879	<0.943	<4.26	<0.940	<1.08	<1.02	<1.08	<1.07	<0.865	<0.868	<1.04	<1.02	<0.960	<1.06
bis(2-Chloroethoxy)methane	mg/kg	<0.982	<0.869	<0.892	<0.965	<1.14	<1.07	<1.06	<1.04	<0.985	<0.868	<0.879	<0.943	<4.26	<0.940	<1.08	<1.02	<1.08	<1.07	<0.865	<0.868	<1.04	<1.02	<0.960	<1.06
bis(2-Chloroethyl)ether	mg/kg	<0.492	<0.436	<0.447	<0.484	<0.574	<0.534	<0.531	<0.521	<0.494	<0.435	<0.441	<0.473	<2.14	<0.472	<0.539	<0.511	<0.541	<0.538	<0.434	<0.435	<0.523	<0.514	<0.481	<0.534
bis(2-chloroisopropyl)Ether	mg/kg	<0.492	<0.436	<0.447	<0.484	<0.574	<0.534	<0.531	<0.521	<0.494	<0.435	<0.441	<0.473	<2.14	<0.472	<0.539	<0.511	<0.541	<0.538	<0.434	<0.435	<0.523	<0.514	<0.481	<0.534
bis(2-Ethylhexyl)phthalate	mg/kg	<0.982	<0.869	3.52	92.7	<1.14	<1.07	<1.06	<1.04	<0.985	<0.868	<0.879	<0.943	<4.26	<0.940	<1.08	<1.02	<1.08	<1.07	<0.865	0.924	<1.04	<1.02	<0.960	<1.06
Butylbenzylphthalate	mg/kg	<0.982	<0.869	<0.892	<0.965	<1.14	<1.07	<1.06	<1.04	<0.985	<0.868	<0.879	<0.943	<4.26	<0.940	<1.08	<1.02	<1.08	<1.07	<0.865	<0.868	<1.04	<1.02	<0.960	<1.06
Chrysene	mg/kg	<0.492	<0.436	<0.447	1.06	<0.574	<0.534	<0.531	<0.521	<0.494	<0.435	<0.441	<0.473	<2.14	<0.472	<0.539	<0.511	<0.541	<0.538	<0.434	<0.435	1.02	<0.514	<0.481	<0.534
Dibenzo(a,h)Anthracene	mg/kg	<0.492	<0.436	<0.447	<0.484	<0.574	<0.534	<0.531	<0.521	<0.494	<0.435	<0.441	<0.473	<2.14	<0.472	<0.539	<0.511	<0.541	<0.538	<0.434	<0.435	<0.523	<0.514	<0.481	<0.534
Dibenzofuran	mg/kg	<0.982	<0.869	<0.892	<0.965	<1.14	<1.07	<1.06	<1.04	<0.985	<0.868	<0.879	<0.943	<4.26	<0.940	<1.08	<1.02	<1.08	<1.07	<0.865	<0.868	<1.04	<1.02	<0.960	<1.06
Diethylphthalate	mg/kg	<0.982	<0.869	<0.892	<0.965	<1.14	<1.07	<1.06	<1.04	<0.985	<0.868	<0.879	<0.943	<4.26	<0.940	<1.08	<1.02	<1.08	<1.07	<0.865	<0.868	<1.04	<1.02	<0.960	<1.06
Dimethylphthalate	mg/kg	<0.982	<0.869	<0.892	<0.965	<1.14	<1.07	<1.06	<1.04	<0.985	<0.868	<0.879	<0.943	<4.26	<0.940	<1.08	<1.02	<1.08	<1.07	<0.865	<0.868	<1.04	<1.02	<0.960	<1.06
Di-n-butylphthalate	mg/kg	<0.982	<0.869	<0.892	<0.965	<1.14	<1.07	<1.06	<1.04	<0.985	<0.868	<0.879	<0.943	<4.26	<0.940	<1.08	<1.02	<1.08	<1.07	<0.865	<0.868	<1.04	<1.02	<0.960	<1.06
Di-n-octylphthalate	mg/kg	<0.982	<0.869	<0.892	<0.965	<1.14	<1.07	<1.06	<1.04	<0.985	<0.868	<0.879	<0.943	<4.26	<0.940	<1.08	<1.02	<1.08	<1.07	<0.865	<0.868	<1.04	<1.02	<0.960	<1.06
Fluoranthene	mg/kg	<0.982	<0.869	<0.892	2.22	<1.14	<1.07	<1.06	<1.04	<0.985	<0.868	<0.879	<0.943	<4.26	<0.940	<1.08	<1.02	<1.08	<1.07	<0.865	<0.868	1.86	<1.02	<0.960	<1.06
Fluorene	mg/kg	<0.982	<0.869	<0.892	<0.965	<1.14	<1.07	<1.06	<1.04	<0.985	<0.868	<0.879	<0.943	<4.26	<0.940	<1.08	<1.02	<1.08	<1.07	<0.865	<0.868	<1.04	<1.02	<0.960	<1.06
Hexachlorobenzene	mg/kg	<0.492	<0.436	<0.447	<0.484	<0.574	<0.534	<0.531	<0.521	<0.494	<0.435	<0.441	<0.473	<2.14	<0.472	<0.539	<0.511	<0.541	<0.538	<0.434	<0.435	<0.523	<0.514	<0.481	<0.534
Hexachlorobutadiene	mg/kg	<0.982	<0.869	<0.892	<0.965	<1.14	<1.07	<1.06	<1.04	<0.985	<0.868	<0.879	<0.943	<4.26	<0.940	<1.08	<1.02	<1.08	<1.07	<0.865	<0.868	<1.04	<1.02	<0.960	<1.06
Hexachloroethane	mg/kg	<0.982	<0.869	<0.892	<0.965	<1.14	<1.07	<1.06	<1.04	<0.985	<0.868	<0.879	<0.943	<4.26	<0.940	<1.08	<1.02	<1.08	<1.07	<0.865	<0.868	<1.04	<1.02	<0.960	<1.06
Indeno(1,2,3-cd)Pyrene	mg/kg	<0.982	<0.869	<0.892	<0.965	<1.14	<1.07	<1.06	<1.04	<0.985	<0.868	<0.879	<0.943	<4.26	<0.940	<1.08	<1.02	<1.08	<1.07	<0.865	<0.868	<1.04	<1.02	<0.960	<1.06
Isophorone	mg/kg	<0.982	<0.869	<0.892	<0.965	<1.14	<1.07	<1.06	<1.04	<0.985	<0.868	<0.879	<0.943	<4.26	<0.940	<1.08	<1.02	<1.08	<1.07	<0.865	<0.868	<1.04	<1.02	<0.960	<1.06
Naphthalene	mg/kg	<0.982	<0.869	<0.892	<0.965	<1.14	<1.07	<1.06	<1.04	<0.985	<0.868	<0.879	<0.943	<4.26	<0.940	<1.08	<1.02	<1.08	<1.07	<0.865	<0.868	<1.04	<1.02	<0.960	<1.06
Nitrobenzene	mg/kg	<0.982	<0.869	<0.892	<0.965	<1.14	<1.07	<1.06	<1.04	<0.985	<0.868	<0.879	<0.943	<4.26	<0.940	<1.08	<1.02	<1.08	<1.07	<0.865	<0.868	<1.04	<1.02	<0.960	<1.06
N-Nitrosodimethylamine	mg/kg	<0.982	<0.869	<0.892	<0.965	<1.14	<1.07	<1.06	<1.04	<0.985	<0.868	<0.879	<0.943	<4.26	<0.940	<1.08	<1.02	<1.08	<1.07	<0.865	<0.868	<1.04	<1.02	<0.960	<1.06
Pentachlorophenol	mg/kg	<4.92	<4.36	<4.47	<4.84	<5.74	<5.34	<5.31	<5.21	<4.94	<4.35	<4.41	<4.73	<21.4	<4.72	<5.39	<5.11	<5.41	<5.38	<4.34	<4.35	<5.23	<5.14	<4.81	<5.34
Phenanthrene	mg/kg	<0.982	<0.869	<0.892	1.36	<1.14	<1.07	<1.06	<1.04	<0.985	<0.868	<0.879	<0.943	<4.26	<0.940	<1.08	<1.02	<1.08	<1.07	<0.865	<0.868	1.4	<1.02	<0.960	<1.06
Phenol	mg/kg	<0.982	<0.869	<0.892	<0.965	<1.14	<1.07	<1.06	<1.04	<0.985	<0.868	<0.879	<0.943	<4.26	<0.940	<1.08	<1.02	<1.08	<1.07	<0.865	<0.868	<1.04	<1.02	<0.960	<1.06
Pyrene	mg/kg	<0.982	<0.869	<0.892	1.26	<1.14	<1.07	<1.06	<1.04	<0.985	<0.868	<0.879	<0.943	<4.26	<0.940	<1.08	<1.02	<1.08	<1.07	<0.865	<0.868	1.13	<1.02	<0.960	<1.06
Total SVOCs	mg/kg	ND	ND	3.52	101.875	ND	ND	ND	ND	ND	ND	ND	0.5	ND	ND	ND	ND	ND	ND	ND	0.924	7.108	ND	ND	ND
Classic Chemistry																									
Corrosivity (pH)	S.U.	6.43	8.96	8.69	6.24	6.38	6.95	6.97	7	7.02	9.03	8.42	7.12	6.3	5.81	5.51	6.32	6.54	6.77	9.44	8.4	6.63	7.79	5.6	4.85
Conductivity	umhos/cm	860	86	162	462	1380	6220	9140	6780	7780	189	192	593	578	544	1620	3390	2880	2110	252	756	840	741	620	3610
Flashpoint	°F	--	>200	>200	>200	--	--	--	--	--	>200	>200	>200	>200	>200	--	--	--	--	>200	>200	>200	--	--	--
Reactive Cyanide	mg/kg	--	<2.0	<2.0	<2.0	--	--	--	--	--	<2.0	<2.0	<2.0	<2.0	<2.0	--	--	--	--	<2.0	<2.0	<2.0	--	--	--
Reactive Sulfide	mg/kg	--	<2.0	<2.0	<2.0	--	--	--	--	--	<2.0	<2.0	<2.0	<2.0	<2.0	--	--	--	--	<2.0	<2.0	<2.0	--	--	--

Table 1
Soil Precharacterization Data

Wynn Resort Casino
Everett, Massachusetts

Analyte	Precharacterization Cell	I13	I13	I13	I14	I14	I14	I14	I14	I14	I14	I14	I14	I14	I14	I15	I15	I15	I15	I15	I15	I15	I15	I16	I16	I16
	Sample ID	I13S09	I13S10	I13S511S12	I14S01S02A	I14S02BS04A	I14S04BS05	I14S06S07A	I14S07BS08	I14S09	I14S10	I14S11	I14S12	I14S13S14	I15S01S02A	I15S02BS04A	I15S04BS05	I15S06S07	I15S08	I15S09	I15S10	I15S11S12	I16S01S02A	I16S02BS09A	I16S04BS05
	Laboratory Work Order	1501273	1501273	1501273	1502050	1502050	1502050	1502079	1502079	1502079	1502079	1502079	1502079	1502079	1501303	1501303	1501303	1501303	1501303	1501303	1501303	1501303	1502288	1502288	1502288
	Soil Distinction	Natural	Natural	Natural	Fill	Fill	Fill	Natural	Fill	Natural	Natural	Natural	Natural	Natural	Fill	Fill	Fill	Natural	Natural	Natural	Natural	Natural	Fill	Fill	Fill
	Soil Type	Clay	Clay	Clay				Clay		Sand/Gravel	Sand/Gravel	Clay	Clay	Clay				Organics	Clay	Clay	Clay	Clay			
	Depth Interval (ft.)	24 - 26	29 - 31	34 - 38	0 - 3.3	3.3 - 6.6	6.6 - 10	10 - 13.3	13.3 - 16	16 - 18	19 - 21	24 - 26	29 - 31	34 - 38	0 - 3.3	3.3 - 6.6	6.6 - 12	12 - 16	19 - 21	24 - 26	29 - 31	34 - 36	0 - 3.3	3.3 - 6.6	6.6 - 10
	Sampling Date	1/14/2015	1/14/2015	1/14/2015	2/4/2015	2/4/2015	2/4/2015	2/5/2015	2/5/2015	2/5/2015	2/5/2015	2/5/2015	2/5/2015	2/5/2015	1/15/2015	1/15/2015	1/15/2015	1/15/2015	1/15/2015	1/15/2015	1/15/2015	1/15/2015	2/19/2015	2/19/2015	2/19/2015
Preliminary Disposal Facility Category		MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type B	Hazardous Material Type B	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Restricted	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Restricted	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A
RCRA 8 Metals	**Units**																								
Arsenic	mg/kg	8.37	16.7	8.91	6.87	<6.84	49.9	68.9	24.3	<7.85	<7.66	14.7	<8.46	<8.56	<6.78	100	360	<8.25	17	10.3	9.74	13.3	7.38	<6.99	105
Barium	mg/kg	110	126	95.1	19.5	16.4	135	154	44.5	9.2	<7.66	90.1	110	116	20.3	151	245	24.5	101	86.8	128	75.2	34.3	19.5	328
Cadmium	mg/kg	<1.62	<1.63	<1.52	<1.31	<1.37	<1.56	8.57	<1.65	<1.57	<1.53	<1.45	<1.69	<1.71	<1.36	2.53	8.38	<1.65	<1.69	<1.73	<1.61	<1.66	<1.23	<1.40	3.82
Chromium	mg/kg	55.9	58.4	51	17.9	14	22	19.4	9.63	8.19	7.45	44.5	50.4	52.6	21.1	19.9	9.28	10.7	61.1	42.1	54.1	31.9	21.2	9.14	<3.18
Lead	mg/kg	17.4	17.6	16.1	<13.1	<13.7	879	4000	244	33.4	20.5	<14.5	<16.9	<17.1	<13.6	273	973	<16.5	17.2	<17.3	<16.1	<16.6	17.5	68.6	578
Selenium	mg/kg	<8.11	<8.17	<7.58	<6.54	<6.84	<7.79	<9.30	<8.26	<15.7	<15.3	<7.27	<8.46	<8.56	<6.78	<7.34	<8.61	<16.5	<8.47	<8.66	<8.04	<8.30	<6.15	<6.99	<7.94
Silver	mg/kg	2.55	<1.63	<1.52	<1.31	<1.37	2.06	3.61	<1.65	<1.57	<1.53	<1.45	<1.69	<1.71	<1.36	3.13	9.46	<1.65	<1.69	<1.73	<1.61	<1.66	<1.23	<1.40	15.4
Mercury	mg/kg	<0.041	<0.038	<0.037	<0.036	<0.030	1	2.11	0.261	<0.041	0.182	<0.037	<0.041	<0.040	<0.033	0.571	2.06	0.202	<0.040	<0.039	<0.038	<0.041	<0.030	0.213	0.754
Metals by Toxicity Characteristic Leaching Procedure (TCLP)																									
Arsenic	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.095	0.088	--	--	--	--	--	--	--	<0.050
Cadmium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead	mg/L	--	--	--	--	--	5.8	25.8	3.06	--	--	--	--	--	--	0.305	0.481	--	--	--	--	--	--	--	2.4
Selenium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Herbicides																									
2,4,5-T	mg/kg	--	--	--	<0.085	<0.088	<0.048	<0.073	<0.050	<0.049	--	--	--	--	<0.050	<0.29	<0.081	<0.43	--	--	--	--	<0.056	<0.052	<0.065
2,4-D	mg/kg	--	--	--	<0.42	<0.44	<0.24	<0.36	<0.25	<0.25	--	--	--	--	<0.050	<0.29	<0.081	<0.43	--	--	--	--	<0.056	<0.052	<0.065
2,4-DB	mg/kg	--	--	--	<0.032	<0.033	<0.018	<0.027	<0.019	<0.018	--	--	--	--	<0.050	<0.29	<0.081	<0.43	--	--	--	--	<0.056	<0.052	<0.065
Dalapon	mg/kg	--	--	--	<2.5	<2.6	<1.4	<2.2	<1.5	<1.5	--	--	--	--	<0.60	<3.5	<0.98	<5.2	--	--	--	--	<0.67	<0.62	<0.78
Dicamba	mg/kg	--	--	--	<0.13	<0.13	<0.071	<0.11	<0.075	<0.074	--	--	--	--	<0.050	<0.29	<0.081	<0.43	--	--	--	--	<0.056	<0.052	<0.065
Dichlorprop	mg/kg	--	--	--	<0.27	<0.28	<0.15	<0.24	<0.16	<0.16	--	--	--	--	<0.050	<0.29	<0.081	<0.43	--	--	--	--	<0.056	<0.052	<0.065
Dinoseb	mg/kg	--	--	--	<0.42	<0.44	<0.24	<0.36	<0.25	<0.25	--	--	--	--	<0.30	<1.8	<0.49	<2.6	--	--	--	--	<0.33	<0.31	<0.39
MCPA	mg/kg	--	--	--	<110	<110	<59	<91	<62	<61	--	--	--	--	<12	<70	<20	<100	--	--	--	--	<13	<12	<16
MCPP	mg/kg	--	--	--	<110	<110	<59	<91	<62	<61	--	--	--	--	<12	<70	<20	<100	--	--	--	--	<13	<12	<16
Silvex (2,4,5-TP)	mg/kg	--	--	--	<0.085	<0.088	<0.048	<0.073	<0.050	<0.049	--	--	--	--	<0.050	<0.29	<0.081	<0.43	--	--	--	--	<0.056	<0.052	<0.065
Pesticides																									
4,4'-DDD	mg/kg	--	--	--	<0.0018	<0.018	<0.020	<0.0062	<0.021	<0.0020	--	--	--	--	<0.0018	<0.010	<0.0028	<0.0030	--	--	--	--	<0.0019	<0.0019	<0.0023
4,4'-DDE	mg/kg	--	--	--	<0.0018	<0.018	<0.020	<0.0062	<0.021	<0.0020	--	--	--	--	<0.0018	<0.010	<0.0028	<0.0030	--	--	--	--	<0.0019	<0.0019	<0.0023
4,4'-DDT	mg/kg	--	--	--	<0.0018	<0.018	<0.020	<0.0062	<0.021	<0.0020	--	--	--	--	<0.0018	<0.010	<0.0028	<0.0030	--	--	--	--	<0.0019	<0.0019	<0.0023
Aldrin	mg/kg	--	--	--	<0.0018	<0.018	<0.020	<0.0062	<0.021	<0.0020	--	--	--	--	<0.0018	<0.010	<0.0028	<0.0030	--	--	--	--	<0.0019	<0.0019	<0.0023
alpha-BHC	mg/kg	--	--	--	<0.0018	<0.018	<0.020	<0.0062	<0.021	<0.0020	--	--	--	--	<0.0018	<0.010	<0.0028	<0.0030	--	--	--	--	<0.0019	<0.0019	<0.0023
beta-BHC	mg/kg	--	--	--	<0.0018	<0.018	<0.020	<0.0062	<0.021	<0.0020	--	--	--	--	<0.0018	<0.010	<0.0028	0.0044	--	--	--	--	<0.0019	<0.0019	<0.0023
Chlordane (technical)	mg/kg	--	--	--	<0.018	<0.18	<0.20	<0.062	<0.21	<0.020	--	--	--	--	<0.018	<0.10	<0.028	<0.030	--	--	--	--	<0.019	<0.019	<0.023
delta-BHC	mg/kg	--	--	--	<0.0018	<0.018	<0.020	<0.0062	<0.021	<0.0020	--	--	--	--	<0.0018	<0.010	<0.0028	<0.0030	--	--	--	--	<0.0019	<0.0019	<0.0023
Dieldrin	mg/kg	--	--	--	<0.0018	<0.018	<0.020	<0.0062	<0.021	<0.0020	--	--	--	--	<0.0018	<0.010	<0.0028	<0.0030	--	--	--	--	<0.0019	<0.0019	<0.0023
Endosulfan I	mg/kg	--	--	--	<0.0018	<0.018	<0.020	<0.0062	<0.021	<0.0020	--	--	--	--	<0.0018	<0.010	<0.0028	<0.0030	--	--	--	--	<0.0019	<0.0019	<0.0023
Endosulfan II	mg/kg	--	--	--	<0.0018	<0.018	<0.020	<0.0062	<0.021	<0.0020	--	--	--	--	<0.0018	<0.010	<0.0028	<0.0030	--	--	--	--	<0.0019	<0.0019	<0.0023
Endosulfan sulfate	mg/kg	--	--	--	<0.0018	<0.018	<0.020	<0.0062	<0.021	<0.0020	--	--	--	--	<0.0018	<0.010	<0.0028	<0.0030	--	--	--	--	<0.0019	<0.0019	<0.0023
Endrin	mg/kg	--	--	--	<0.0018	<0.018	<0.020	<0.0062	<0.021	<0.0020	--	--	--	--	<0.0018	<0.010	<0.0028	<0.0030	--	--	--	--	<0.0019	<0.0019	<0.0023
Endrin ketone	mg/kg	--	--	--	<0.0018	<0.018	<0.020	<0.0062	<0.021	<0.0020	--	--	--	--	<0.0018	<0.010	<0.0028	<0.0030	--	--	--	--	<0.0019	<0.0019	<0.0023
gamma-BHC (Lindane)	mg/kg	--	--	--	<0.0018	<0.018	<0.020	<0.0062	<0.021	<0.0020	--	--	--	--	<0.0018	<0.010	<0.0028	<0.0030	--	--	--	--	<0.0019	<0.0019	<0.0023
Heptachlor	mg/kg	--	--	--	<0.0018	<0.018	<0.020	<0.0062	<0.021	<0.0020	--	--	--	--	<0.0018	<0.010	<0.0028	<0.0030	--	--	--	--	<0.0019	<0.0019	<0.0023
Heptachlor epoxide	mg/kg	--	--	--	<0.0018	<0.018	<0.020	<0.0062	<0.021	<0.0020	--	--	--	--	<0.0018	<0.010	0.013	<0.0030	--	--	--	--	<0.0019	<0.0019	<0.0023
Hexachlorobenzene	mg/kg	--	--	--	<0.0018	<0.018	<0.020	<0.0062	<0.021	<0.0020	--	--	--	--	<0.0018	<0.010	<0.0028	<0.0030	--	--	--	--	<0.0019	<0.0019	<0.0023
Methoxychlor	mg/kg	--	--	--	<0.0018	<0.018	<0.020	<0.0062	<0.021	<0.0020	--	--	--	--	<0.0018	<0.010	<0.0028	<0.0030	--	--	--	--	<0.0019	<0.0019	<0.0023
Polychlorinated Biphenyls																									
Aroclor 1016	mg/kg	<0.162	<0.161	<0.157	<0.135	<0.134	<0.156	<0.181	<0.166	<0.153	<0.144	<0.154	<0.169	<0.166	<0.127	<0.138	<0.156	<0.162	<0.160	<0.155	<0.164	<0.158	<0.136	<0.140	<0.162
Aroclor 1221	mg/kg	<0.162	<0.161	<0.157	<0.135	<0.134	<0.156	<0.181	<0.166	<0.153	<0.144	<0.154	<0.169	<0.166	<0.127	<0.138	<0.156	<0.162	<0.160	<0.155	<0.164	<0.158	<0.136	<0.140	<0.162
Aroclor 1232	mg/kg	<0.162	<0.161	<0.157	<0.135	<0.134	<0.156	<0.181	<0.166	<0.153	<0.144	<0.154	<0.169	<0.166	<0.127	<0.138	<0.156	<0.162	<0.160	<0.155	<0.164	<0.158	<0.136	<0.140	<0.162
Aroclor 1242	mg/kg	<0.162	<0.161	<0.157	<0.135	<0.134	<0.156	<0.181	<0.166	<0.153	<0.144	<0.154	<0.169	<0.166	<0.127	<0.138	<0.156	<0.162	<0.160	<0.155	<0.164	<0.158	<0.136	<0.140	<0.162
Aroclor 1248	mg/kg	<0.162	<0.161	<0.157	<0.135	<0.134	<0.156	<0.181	<0.166	<0.153	<0.144	<0.154	<0.169	<0.166	<0.127	<0.138	<0.156	<0.162	<0.160	<0.155	<0.164	<0.158	<0.136	<0.140	<0.162
Aroclor 1254	mg/kg	<0.162	<0.161	<0.157	<0.135	<0.134	<0.156	<0.181	<0.166	<0.153	<0.144	<0.154	<0.169	<0.166	<0.127	<0.138	<0.156	<0.162	<0.160	<0.155	<0.164	<0.158	<0.136	<0.140	<0.162
Aroclor 1260	mg/kg	<0.162	<0.161	<0.157	<0.135	<0.134	<0.156	<0.181	<0.166	<0.153	<0.144	<0.154	<0.169	<0.166	<0.127	0.246	<0.156	<0.162	<0.160	<0.155	<0.164	<0.158	<0.136	<0.140	<0.162
Aroclor 1262	mg/kg	<0.162	<0.161	<0.157	<0.135	<0.134	<0.156	<0.181	<0.166	<0.153	<0.144	<0.154	<0.169	<0.166	<0.127	<0.138	<0.156	<0.162	<0.160	<0.155	<0.164	<0.158	<0.136	<0.140	<0.162
Aroclor 1268	mg/kg	<0.162	<0.161	<0.157	<0.135	<0.134	<0.156	<0.181	<0.166	<0.153	<0.144	<0.154	<0.169	<0.166	<0.127	<0.138	<0.156	<0.162	<0.160	<0.155	<0.164	<0.158	<0.136	<0.140	<0.162
Total PCBs	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.246	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Petroleum Hydrocarbons	mg/kg	<51.9	<52.4	<47.1	79.3	51.3	673	398	273	<47.9	<46.9	<49.1	<54.0	<52.5	53.8	245	161	71.9	<49.0	<48.7	<50.1	<44.8	<44.1	60.5	<51.3
Volatile Organic Compounds (VOCs)																									
1,1,1,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-Chloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane - Screen	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Butanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Isopropyltoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-Pentanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Disulfide	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	I13 I13S09 1501273 Natural Clay 24 - 26 1/14/2015	I13 I13S10 1501273 Natural Clay 29 - 31 1/14/2015	I13 I13S11S12 1501273 Natural Clay 34 - 38 1/14/2015	I14 I14S01S02A 1502050 Fill 0 - 3.3 2/4/2015	I14 I14S02BS04A 1502050 Fill 3.3 - 6.6 2/4/2015	I14 I14S04BS05 1502050 Fill 6.6 - 10 2/4/2015	I14 I14S06S07A 1502079 Fill 10 - 13.3 2/5/2015	I14 I14S07BS08 1502079 Fill 13.3 - 16 2/5/2015	I14 I14S09 1502079 Natural Sand/Gravel 16 - 18 2/5/2015	I14 I14S10 1502079 Natural Sand/Gravel 19 - 21 2/5/2015	I14 I14S11 1502079 Natural Clay 24 - 26 2/5/2015	I14 I14S12 1502079 Natural Clay 29 - 31 2/5/2015	I14 I14S13S14 1502079 Natural Clay 34 - 38 2/5/2015	I15 I15S01S02A 1501303 Fill 0 - 3.3 1/15/2015	I15 I15S02BS04A 1501303 Fill 3.3 - 6.6 1/15/2015	I15 I15S04BS05 1501303 Fill 6.6 - 12 1/15/2015	I15 I15S06S07 1501303 Natural Organics 12 - 16 1/15/2015	I15 I15S08 1501303 Natural Clay 19 - 21 1/15/2015	I15 I15S09 1501303 Natural Clay 24 - 26 1/15/2015	I15 I15S10 1501303 Natural Clay 29 - 31 1/15/2015	I15 I15S11S12 1501303 Natural Clay 34 - 36 1/15/2015	I16 I16S01S02A 1502288 Fill 0 - 3.3 2/19/2015	I16 I16S02BS09A 1502288 Fill 3.3 - 6.6 2/19/2015	I16 I16S04BS05 1502288 Fill 6.6 - 10 2/19/2015
Preliminary Disposal Facility Category		MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type B	Hazardous Material Type B	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Restricted	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Restricted	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A
Chlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Diethyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Di-isopropyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethyl tertiary-butyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
tert-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tertiary-amyl methyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene O	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene P,M	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylenes (Total)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total VOCs	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds - Low Level Analysis																									
1,1,1,2-Tetrachloroethane	mg/kg	<0.0042	<0.0044	<0.0037	<0.0050	<0.0033	<0.0038	<0.0072	<0.0032	<0.0034	<0.0017	<0.0029	<0.0036	<0.0034	<0.0053	<0.0042	<0.0057	<0.0062	<0.0054	<0.0039	<0.0043	<0.0045	<0.0050	<0.0061	<0.0037
1,1,1-Trichloroethane	mg/kg	<0.0042	<0.0044	<0.0037	<0.0050	<0.0033	<0.0038	<0.0072	<0.0032	<0.0034	<0.0017	<0.0029	<0.0036	<0.0034	<0.0053	<0.0042	<0.0057	<0.0062	<0.0054	<0.0039	<0.0043	<0.0045	<0.0050	<0.0061	<0.0037
1,1,2,2-Tetrachloroethane	mg/kg	<0.0017	<0.0018	<0.0015	<0.0020	<0.0013	<0.0015	<0.0029	<0.0013	<0.0013	<0.0007	<0.0012	<0.0014	<0.0014	<0.0021	<0.0017	<0.0023	<0.0025	<0.0022	<0.0016	<0.0017	<0.0018	<0.0020	<0.0025	<0.0015
1,1,2-Trichloroethane	mg/kg	<0.0042	<0.0044	<0.0037	<0.0050	<0.0033	<0.0038	<0.0072	<0.0032	<0.0034	<0.0017	<0.0029	<0.0036	<0.0034	<0.0053	<0.0042	<0.0057	<0.0062	<0.0054	<0.0039	<0.0043	<0.0045	<0.0050	<0.0061	<0.0037
1,1-Dichloroethane	mg/kg	<0.0042	<0.0044	<0.0037	<0.0050	<0.0033	<0.0038	<0.0072	<0.0032	<0.0034	<0.0017	<0.0029	<0.0036	<0.0034	<0.0053	<0.0042	<0.0057	<0.0062	<0.0054	<0.0039	<0.0043	<0.0045	<0.0050	<0.0061	<0.0037
1,1-Dichloroethene	mg/kg	<0.0042	<0.0044	<0.0037	<0.0050	<0.0033	<0.0038	<0.0072	<0.0032	<0.0034	<0.0017	<0.0029	<0.0036	<0.0034	<0.0053	<0.0042	<0.0057	<0.0062	<0.0054	<0.0039	<0.0043	<0.0045	<0.0050	<0.0061	<0.0037
1,1-Dichloropropene	mg/kg	<0.0042	<0.0044	<0.0037	<0.0050	<0.0033	<0.0038	<0.0072	<0.0032	<0.0034	<0.0017	<0.0029	<0.0036	<0.0034	<0.0053	<0.0042	<0.0057	<0.0062	<0.0054	<0.0039	<0.0043	<0.0045	<0.0050	<0.0061	<0.0037
1,2,3-Trichlorobenzene	mg/kg	<0.0042	<0.0044	<0.0037	<0.0050	<0.0033	<0.0038	<0.0072	<0.0032	<0.0034	<0.0017	<0.0029	<0.0036	<0.0034	<0.0053	<0.0042	<0.0057	<0.0062	<0.0054	<0.0039	<0.0043	<0.0045	<0.0050	<0.0061	<0.0037
1,2,3-Trichloropropane	mg/kg	<0.0042	0.0339	<0.0037	<0.0050	<0.0033	<0.0038	<0.0072	<0.0032	<0.0034	<0.0017	<0.0029	<0.0036	<0.0034	<0.0053	<0.0042	<0.0057	<0.0062	<0.0054	<0.0039	<0.0043	<0.0045	<0.0050	<0.0061	<0.0037
1,2,4-Trichlorobenzene	mg/kg	<0.0042	<0.0044	<0.0037	<0.0050	<0.0033	<0.0038	<0.0072	<0.0032	<0.0034	<0.0017	<0.0029	<0.0036	<0.0034	<0.0053	<0.0042	<0.0057	<0.0062	<0.0054	<0.0039	<0.0043	<0.0045	<0.0050	<0.0061	<0.0037
1,2,4-Trimethylbenzene	mg/kg	<0.0042	<0.0044	<0.0037	<0.0050	<0.0033	<0.0038	<0.0072	<0.0032	<0.0034	<0.0017	<0.0029	<0.0036	<0.0034	<0.0053	<0.0042	<0.0057	<0.0062	<0.0054	<0.0039	<0.0043	<0.0045	<0.0050	<0.0061	<0.0037
1,2-Dibromo-3-Chloropropane	mg/kg	<0.0042	<0.0044	<0.0037	<0.0050	<0.0033	<0.0038	<0.0072	<0.0032	<0.0034	<0.0017	<0.0029	<0.0036	<0.0034	<0.0053	<0.0042	<0.0057	<0.0062	<0.0054	<0.0039	<0.0043	<0.0045	<0.0050	<0.0061	<0.0037
1,2-Dibromoethane	mg/kg	<0.0042	<0.0044	<0.0037	<0.0050	<0.0033	<0.0038	<0.0072	<0.0032	<0.0034	<0.0017	<0.0029	<0.0036	<0.0034	<0.0053	<0.0042	<0.0057	<0.0062	<0.0054	<0.0039	<0.0043	<0.0045	<0.0050	<0.0061	<0.0037
1,2-Dichlorobenzene	mg/kg	<0.0042	<0.0044	<0.0037	<0.0050	<0.0033	<0.0038	<0.0072	<0.0032	<0.0034	<0.0017	<0.0029	<0.0036	<0.0034	<0.0053	<0.0042	<0.0057	<0.0062	<0.0054	<0.0039	<0.0043	<0.0045	<0.0050	<0.0061	<0.0037
1,2-Dichloroethane	mg/kg	<0.0042	<0.0044	<0.0037	<0.0050	<0.0033	<0.0038	<0.0072	<0.0032	<0.0034	<0.0017	<0.0029	<0.0036	<0.0034	<0.0053	<0.0042	<0.0057	<0.0062	<0.0054	<0.0039	<0.0043	<0.0045	<0.0050	<0.0061	<0.0037
1,2-Dichloropropane	mg/kg	<0.0042	<0.0044	<0.0037	<0.0050	<0.0033	<0.0038	<0.0072	<0.0032	<0.0034	<0.0017	<0.0029	<0.0036	<0.0034	<0.0053	<0.0042	<0.0057	<0.0062	<0.0054	<0.0039	<0.0043	<0.0045	<0.0050	<0.0061	<0.0037
1,3,5-Trimethylbenzene	mg/kg	<0.0042	<0.0044	<0.0037	<0.0050	<0.0033	<0.0038	<0.0072	<0.0032	<0.0034	<0.0017	<0.0029	<0.0036	<0.0034	<0.0053	<0.0042	<0.0057	<0.0062	<0.0054	<0.0039	<0.0043	<0.0045	<0.0050	<0.0061	<0.0037
1,3-Dichlorobenzene	mg/kg	<0.0042	<0.0044	<0.0037	<0.0050	<0.0033	<0.0038	<0.0072	<0.0032	<0.0034	<0.0017	<0.0029	<0.0036	<0.0034	<0.0053	<0.0042	<0.0057	<0.0062	<0.0054	<0.0039	<0.0043	<0.0045	<0.0050	<0.0061	<0.0037
1,3-Dichloropropane	mg/kg	<0.0042	<0.0044	<0.0037	<0.0050	<0.0033	<0.0038	<0.0072	<0.0032	<0.0034	<0.0017	<0.0029	<0.0036	<0.0034	<0.0053	<0.0042	<0.0057	<0.0062	<0.0054	<0.0039	<0.0043	<0.0045	<0.0050	<0.0061	<0.0037
1,4-Dichlorobenzene	mg/kg	<0.0042	<0.0044	<0.0037	<0.0050	<0.0033	<0.0038	<0.0072	<0.0032	<0.0034	<0.0017	<0.0029	<0.0036	<0.0034	<0.0053	<0.0042	<0.0057	<0.0062	<0.0054	<0.0039	<0.0043	<0.0045	<0.0050	<0.0061	<0.0037
1,4-Dioxane	mg/kg	<0.0842	<0.0888	<0.0734	<0.0999	<0.0656	<0.0761	<0.144	<0.0645	<0.0670	<0.0339	<0.0589	<0.0713	<0.0687	<0.107	<0.0845	<0.114	<0.124	<0.108	<0.0788	<0.0869	<0.0897	<0.100	<0.123	<0.0746
2,2-Dichloropropane	mg/kg	<0.0042	<0.0044	<0.0037	<0.0050	<0.0033	<0.0038	<0.0072	<0.0032	<0.0034	<0.0017	<0.0029	<0.0036	<0.0034	<0.0053	<0.0042	<0.0057	<0.0062	<0.0054	<0.0039	<0.0043	<0.0045	<0.0050	<0.0061	<0.0037
2-Butanone	mg/kg	<0.0084	<0.0089	<0.0073	<0.0100	<0.0066	<0.0076	<0.0144	<0.0064	<0.0067	<0.0034	<0.0059	<0.0071	<0.0069	<0.0107	<0.0085	0.0292	<0.0124	<0.0108	<0.0079	<0.0087	<0.0090	<0.0100	<0.0123	<0.0075
2-Chlorotoluene	mg/kg	<0.0042	<0.0044	<0.0037	<0.0050	<0.0033	<0.0038	<0.0072	<0.0032	<0.0034	<0.0017	<0.0029	<0.0036	<0.0034	<0.0053	<0.0042	<0.0057	<0.0062	<0.0054	<0.0039	<0.0043	<0.0045	<0.0050	<0.0061	<0.0037
2-Hexanone	mg/kg	<0.0084	<0.0089	<0.0073	<0.0100	<0.0066	<0.0076	<0.0144	<0.0064	<0.0067	<0.0034	<0.0059	<0.0071	<0.0069	<0.0107	<0.0085	<0.0114	<0.0124	<0.0108	<0.0079	<0.0087	<0.0090	<0.0100	<0.0123	<0.0075
4-Chlorotoluene	mg/kg	<0.0042	<0.0044	<0.0037	<0.0050	<0.0033	<0.0038	<0.0072	<0.0032	<0.0034	<0.0017	<0.0029	<0.0036	<0.0034	<0.0053	<0.0042	<0.0057	<0.0062	<0.0054	<0.0039	<0.0043	<0.0045	<0.0050	<0.0061	<0.0037
4-Isopropyltoluene	mg/kg	<0.0042	<0.0044	<0.0037	<0.0050	<0.0033	<0.0038	<0.0072	<0.0032	<0.0034	<0.0017	<0.0029	<0.0036	<0.0034	<0.0053	<0.0042	<0.0057	<0.0062	<0.0054	<0.0039	<0.0043	<0.0045	<0.0050	<0.0061	<0.0037
4-Methyl-2-Pentanone	mg/kg	<0.0084	<0.0089	<0.0073	<0.0100	<0.0066	<0.0076	<0.0144	<0.0064	<0.0067	<0.0034	<0.0059	<0.0071	<0.0069	<0.0107	<0.0085	<0.0114	<0.0124	<0.0108	<0.0079	<0.0087	<0.0090	<0.0100	<0.0123	<0.0075
Acetone	mg/kg	<0.0084	<0.0089	0.0093	<0.0100	<0.0066	0.0314	0.0198	0.0244	0.0115	0.0093	<0.0059	<0.0071	<0.0069	0.0366	0.0127	0.25	0.097	<0.0108	<0.0079	<0.0087	<0.0090	<0.0100	<0.0123	0.0338
Benzene	mg/kg	<0.0042	<0.0044	<0.0037	<0.0050	<0.0033	<0.0038	<0.0072	<0.0032	<0.0034	<0.0017	<0.0029	<0.0036	<0.0034	<0.0053	<0.0042	<0.0057	<0.0062	<0.0054	<0.0039	<0.0043	<0.0045	<0.0050	<0.0061	<0.0037
Bromobenzene	mg/kg	<0.0042	<0.0044	<0.0037	<0.0050	<0.0033	<0.0038	<0.0072	<0.0032	<0.0034	<0.0017	<0.0029	<0.0036	<0.0034	<0.0053	<0.0042	<0.0057	<0.0062	<0.0054	<0.0039	<0.0043	<0.0045	<0.0050	<0.0061	<0.0037
Bromochloromethane	mg/kg	<0.0042	<0.0044	<0.0037	<0.0050	<0.0033	<0.0038	<0.0072	<0.0032	<0.0034	<0.0017	<0.0029	<0.0036	<0.0034	<0.0053	<0.0042	<0.0057	<0.0062	<0.0054	<0.0039	<0.0043	<0.0045	<0.0050	<0.0061	<0.0037
Bromodichloromethane	mg/kg	<0.0042	<0.0044	<0.0037	<0.0050	<0.0033	<0.0038	<0.0072	<0.0032	<0.0034	<0.0017	<0.0029	<0.0036	<0.0034	<0.0053	<0.0042	<0.0057	<0.0062	<0.0054	<0.0039	<0.0043	<0.0045	<0.0050	<0.0061	<0.0037
Bromoform	mg/kg	<0.0042	<0.0044	<0.0037	<0.0050	<0.0033	<0.0038	<0.0072	<0.0032	<0.0034	<0.0017	<0.0029	<0.0036	<0.0034	<0.0053	<0.0042	<0.0057	<0.0062	<0.0054	<0.0039	<0.0043	<0.0045	<0.0050	<0.0061	<0.0037
Bromomethane	mg/kg	<0.0084	<0.0089	<0.0073	<0.0100	<0.0066	<0.0076	<0.0144	<0.0064	<0.0067	<0.0034	<0.0059	<0.0071	<0.0069	<0.0107	<0.0085	<0.0114	<0.0124	<0.0108	<0.0079	<0.0087	<0.0090	<0.0100	<0.0123	<0.0075
Carbon Disulfide	mg/kg	<0.0042	<0.0044	<0.0037	<0.0050	<0.0033	<0.0038	<0.0072	<0.0032	<0.0034	<0.0017	<0.0029	<0.0036	<0.0034	<0.0053	<0.0042	<0.0057	0.0089	<0.0054	<0.0039	<0.0043	<0.0045	<0.0050	<0.0061	<0.0037
Carbon Tetrachloride	mg/kg	<0.0042	<0.0044	<0.0037	<0.0050	<0.0033	<0.0038	<0.0072	<0.0032	<0.0034	<0.0017	<0.0029	<0.0036	<0.0034	<0.0053	<0.0042	<0.0057	<0.0062	<0.0054	<0.0039	<0.0043	<0.0045	<0.0050	<0.0061	<0.0037
Chlorobenzene	mg/kg	<0.0042	<0.0044	<0.0037	<0.0050	<0.0033	<0.0038	<0.0072	<0.0032	<0.0034	<0.0017	<0.0029	<0.0036	<0.0034	<0.0053	<0.0042	<0.0057	<0.0062	<0.0054	<0.0039	<0.0043	<0.0045	<0.0050	<0.0061	<0.0037
Chloroethane	mg/kg	<0.0084	<0.0089	<0.0073	<0.0100	<0.0066	<0.0076	<0.0144	<0.0064	<0.0067	<0.0034	<0.0059	<0.0071	<0.0069	<0.0107	<0.0085	<0.0114	<0.0124	<0.0108	<0.0079	<0.0087	<0.0090	<0.0100	<0.0123	<0.0075
Chloroform	mg/kg	<0.0042	<0.0044	<0.0037	<0.0050	<0.0033	<0.0038	<0.0072	<0.0032	<0.0034	<0.0017	<0.0029	<0.0036	<0.0034	<0.0053	<0.0042	<0.0057	<0.0062	<0.0054	<0.0039	<0.0043	<0.0045	<0.0050	<0.0061	<0.0037
Chloromethane	mg/kg	<0.0084	<0.0089	<0.0073	<0.0100	<0.0066	<0.0076	<0.0144	<0.0064	<0.0067	<0.0034	<0.0059	<0.0071	<0.0069	<0.0107	<0.0085	<0.0114	<0.0124	<0.0108	<0.0079	<0.0087	<0.0090	<0.0100	<0.0123	<0.0075
cis-1,2-Dichloroethene	mg/kg	<0.0042	<0.0044	<0.0037	<0.0050	<0.0033	<0.0038	<0.0072	<0.0032	<0.0034	<0.0017	<0.0029	<0.0036	<0.0034	<0.0053	<0.0042	<0.0057	<0.0062	<0.0054	<0.0039	<0.0043	<0.0045	<0.0050	<0.0061	<0.0037
cis-1,3-Dichloropropene	mg/kg	<0.0042	<0.0044	<0.0037	<0.0050	<0.0033	<0.0038	<0.0072	<0.0032	<0.0034	<0.0017	<0.0029	<0.0036	<0.0034	<0.0053	<0.0042	<0.0057	<0.0062	<0.0054	<0.0039	<0.0043	<0.0045	<0.0050	<0.0061	<0.0037
Dibromochloromethane	mg/kg	<0.0017	<0.0018	<0.0015	<0.0020	<0.0013	<0.0015	<0.0029	<0.0013	<0.0013	<0.0007	<0.0012	<0.0014	<0.0014	<0.0021	<0.0017	<0.0023	<0.0025	<0.0022	<0.0016	<0.0017	<0.0018	<0.0020	<0.0025	<0.0015
Dibromomethane	mg/kg	<0.0042	<0.0044	<0.0037	<0.0050	<0.0033	<0.0038	<0.0072	<0.0032	<0.0034	<0.0017	<0.0029	<0.0036	<0.0034	<0.0053	<0.0042	<0.0057	<0.0062	<0.0054	<0.0039	<0.0043	<0.0045	<0.0050	<0.0061	<0.0037
Dichlorodifluoromethane	mg/kg	<0.0084	<0.0089	<0.0073	<0.0100	<0.0066	<0.0076	<0.0144	<0.0064	<0.0067	<0.0034	<0.0059	<0.0071	<0.0069	<0.0107	<0.0085	<0.0114	<0.0124	<0.0108	<0.0079	<0.0087	<0.0090	<0.0100	<0.0123	<0.0075
Diethyl Ether	mg/kg	<0.0042	<0.0044	<0.0037	<0.0050	<0.0033	<0.0038	<0.0072	<0.0032	<0.0034	<0.0017	<0.0029	<0.0036	<0.0034	<0.0053	<0.0042	<0.0057	<0.0062	<0.0054	<0.0039	<0.0043	<0.0045	<0.0050	<0.0061	<0.0037
Di-isopropyl ether	mg/kg	<0.0042	<0.0044	<0.0037	<0.0050	<0.0033	<0.0038	<0.0072	<0.0032	<0.0034	<0.0017	<0.0029	<0.0036	<0.0034	<0.0053	<0.0042	<0.0057	<0.0062	<0.0054	<0.0039	<0.0043	<0.0045	<0.0050	<0.0061	<0.0037
Ethyl tertiary-butyl ether	mg/kg	<0.0042	<0.0044	<0.0037	<0.0050	<0.0033	<0.0038	<0.0072	<0.0032	<0.0034	<0.0017	<0.0029	<0.0036	<0.0034	<0.0053	<0.0042	<0.0057	<0.0062	<0.0054	<0.0039	<0.0043	<0.0045	<0.0050	<0.0061	<0.0037
Ethylbenzene	mg/kg	<0.0042	<0.0044	<0.0037	<0.0050	<0.0033	<0.0038	<0.0072	<0.0032	<0.0034	<0.0017	<0.0029	<0.0036	<0.0034	<0.0053	<0.0042	<0.0057	<0.0062	<0.0054	<0.0039	<0.0043	<0.0045	<0.0050	<0.0061	<0.0037
Hexachlorobutadiene	mg/kg	<0.0042	<0.0044	<0.0037	<0.0050	<0.0033	<0.0038	<0.0072	<0.0032	<0.0034	<0.0017	<0.0029	<0.0036	<0.0034	<0.0053	<0.0042	<0.0057	<0.0062	<0.0054	<0.0039	<0.0043	<0.0045	<0.0050	<0.0061	<0.0037
Isopropylbenzene	mg/kg	<0.0042	<0.0044	<0.0037	<0.0050	<0.0033	<0.0038	<0.0072	<0.0032	<0.0034	<0.0017	<0.0029	<0.0036	<0.0034	<0.0053	<0.0042	<0.0057	<0.0062	<0.0054	<0.0039	<0.0043	<0.0045	<0.0050	<0.0061	<0.0037
Methyl tert-Butyl Ether	mg/kg	<0.0042	<0.0044	<0.0037	<0.0050	<0.0033	<0.0038	<0.0072	<0.0032	<0.0034	<0.0017	<0.0029	<0.0036	<0.0034	<0.0053	<0.0042	<0.0057	<0.0062	<0.0054	<0.0039	<0.0043	<0.0045	<0.0050	<0.0061	<0.0037
Methylene Chloride	mg/kg	<0.0084	<0.0089	<0.0073	<0.0100	<0.0066	<0.0076	<0.0144	<0.0064	<0.0067	<0.0034	<0.0059	<0.0071	<0.0069	<0.0107	<0.0085	<0.0114	<0.0124	<0.0108	<0.0079	<0.0087	<0.0090	<0.0100	<0.0123	<0.0075
Naphthalene	mg/kg	<0.0042	<0.0044	<0.0037	<0.0050	<0.0033	<0.0038	<0.0072	<0.0032	<0.0034	<0.0017	<0.0029	<0.0036	<0.0034	<0.0053	<0.0042	<0.0057	<0.0062	<0.0054	<0.0039	<0.0043	<0.0045	<0.0050	<0.0061	<0.0037
n-Butylbenzene	mg/kg	<0.0042	<0.0044	<0.0037	<0.0050	<0.0033	<0.0038	<0.0072	<0.0032	<0.0034	<0.0017	<0.0029	<0.0036	<0.0034	<0.0053	<0.0042	<0.0057	<0.0062	<0.0054	<0.0039	<0.0043	<0.0045	<0.0050	<0.0061	<0.0037
n-Propylbenzene	mg/kg	<0.0042	<0.0044	<0.0037	<0.0050	<0.0033	<0.0038	<0.0072	<0.0032	<0.0034	<0.0017	<0.0029	<0.0036	<0.0034	<0.0053	<0.0042	<0.0057	<0.0062	<0.0054	<0.0039	<0.0043	<0.0045	<0.0050	<0.0061	<0.0037
sec-Butylbenzene	mg/kg	<0.0042	<0.0044	<0.0037	<0.0050	<0.0033	<0.0038	<0.0072	<0.0032	<0.0034	<0.0017	<0.0029	<0.0036	<0.0034	<0.0053	<0.0042	<0.0057	<0.0062	<0.0054	<0.0039	<0.0043	<0.0045	<0.0050	<0.0061	<0.0037

Table 1
Soil Precharacterization Data

Wynn Resort Casino
Everett, Massachusetts

Analyte	Precharacterization Cell	I13	I13	I13	I14	I14	I14	I14	I14	I14	I14	I14	I14	I14	I15	I15	I15	I15	I15	I15	I15	I16	I16	I16
	Sample ID	I13S09	I13S10	I13S11S12	I14S01S02A	I14S02B504A	I14S04B505	I14S06S07A	I14S07B508	I14S09	I14S10	I14S11	I14S12	I14S13S14	I15S01S02A	I15S02B504A	I15S04B505	I15S06S07	I15S08	I15S09	I15S10	I15S11S12	I16S01S02A	I16S02B509A	I16S04B505
	Laboratory Work Order	1501273	1501273	1501273	1502050	1502050	1502050	1502079	1502079	1502079	1502079	1502079	1502079	1502079	1501303	1501303	1501303	1501303	1501303	1501303	1501303	1501303	1502288	1502288	1502288
	Soil Distinction	Natural	Natural	Natural	Fill	Fill	Fill	Fill	Fill	Natural	Natural	Natural	Natural	Natural	Fill	Fill	Fill	Natural	Natural	Natural	Natural	Natural	Fill	Fill	Fill
	Soil Type	Clay	Clay	Clay						Sand/Gravel	Sand/Gravel	Clay	Clay	Clay				Organics	Clay	Clay	Clay	Clay			
	Depth Interval (ft.)	24 - 26	29 - 31	34 - 38	0 - 3.3	3.3 - 6.6	6.6 - 10	10 - 13.3	13.3 - 16	16 - 18	19 - 21	24 - 26	29 - 31	34 - 38	0 - 3.3	3.3 - 6.6	6.6 - 12	12 - 16	19 - 21	24 - 26	29 - 31	34 - 36	0 - 3.3	3.3 - 6.6	6.6 - 10
	Sampling Date	1/14/2015	1/14/2015	1/14/2015	2/4/2015	2/4/2015	2/4/2015	2/5/2015	2/5/2015	2/5/2015	2/5/2015	2/5/2015	2/5/2015	2/5/2015	1/15/2015	1/15/2015	1/15/2015	1/15/2015	1/15/2015	1/15/2015	1/15/2015	1/15/2015	2/19/2015	2/19/2015	2/19/2015
Preliminary Disposal Facility Category		MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type B	Hazardous Material Type B	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Restricted	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Restricted	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A
Styrene	mg/kg	<0.0042	<0.0044	<0.0037	<0.0050	<0.0033	<0.0038	<0.0072	<0.0032	<0.0034	<0.0017	<0.0029	<0.0036	<0.0034	<0.0053	<0.0042	<0.0057	<0.0062	<0.0054	<0.0039	<0.0043	<0.0045	<0.0050	<0.0061	<0.0037
tert-Butylbenzene	mg/kg	<0.0042	<0.0044	<0.0037	<0.0050	<0.0033	<0.0038	<0.0072	<0.0032	<0.0034	<0.0017	<0.0029	<0.0036	<0.0034	<0.0053	<0.0042	<0.0057	<0.0062	<0.0054	<0.0039	<0.0043	<0.0045	<0.0050	<0.0061	<0.0037
Tertiary-amyl methyl ether	mg/kg	<0.0042	<0.0044	<0.0037	<0.0050	<0.0033	<0.0038	<0.0072	<0.0032	<0.0034	<0.0017	<0.0029	<0.0036	<0.0034	<0.0053	<0.0042	<0.0057	<0.0062	<0.0054	<0.0039	<0.0043	<0.0045	<0.0050	<0.0061	<0.0037
Tetrachloroethene	mg/kg	<0.0042	<0.0044	<0.0037	<0.0050	<0.0033	<0.0038	<0.0072	<0.0032	<0.0034	<0.0017	<0.0029	<0.0036	<0.0034	<0.0053	<0.0042	<0.0057	<0.0062	<0.0054	<0.0039	<0.0043	<0.0045	<0.0050	<0.0061	<0.0037
Tetrahydrofuran	mg/kg	<0.0042	<0.0044	<0.0037	<0.0050	<0.0033	<0.0038	<0.0072	<0.0032	<0.0034	<0.0017	<0.0029	<0.0036	<0.0034	<0.0053	<0.0042	<0.0057	<0.0062	<0.0054	<0.0039	<0.0043	<0.0045	<0.0050	<0.0061	<0.0037
Toluene	mg/kg	<0.0042	<0.0044	<0.0037	<0.0050	<0.0033	<0.0038	<0.0072	<0.0032	<0.0034	<0.0017	<0.0029	<0.0036	<0.0034	<0.0053	<0.0042	<0.0057	<0.0062	<0.0054	<0.0039	<0.0043	<0.0045	<0.0050	<0.0061	<0.0037
trans-1,2-Dichloroethene	mg/kg	<0.0042	<0.0044	<0.0037	<0.0050	<0.0033	<0.0038	<0.0072	<0.0032	<0.0034	<0.0017	<0.0029	<0.0036	<0.0034	<0.0053	<0.0042	<0.0057	<0.0062	<0.0054	<0.0039	<0.0043	<0.0045	<0.0050	<0.0061	<0.0037
trans-1,3-Dichloropropene	mg/kg	<0.0042	<0.0044	<0.0037	<0.0050	<0.0033	<0.0038	<0.0072	<0.0032	<0.0034	<0.0017	<0.0029	<0.0036	<0.0034	<0.0053	<0.0042	<0.0057	<0.0062	<0.0054	<0.0039	<0.0043	<0.0045	<0.0050	<0.0061	<0.0037
Trichloroethene	mg/kg	<0.0042	<0.0044	<0.0037	<0.0050	<0.0033	<0.0038	<0.0072	<0.0032	<0.0034	<0.0017	<0.0029	<0.0036	<0.0034	<0.0053	<0.0042	<0.0057	<0.0062	<0.0054	<0.0039	<0.0043	<0.0045	<0.0050	<0.0061	<0.0037
Trichlorofluoromethane	mg/kg	<0.0042	<0.0044	<0.0037	<0.0050	<0.0033	<0.0038	<0.0072	<0.0032	<0.0034	<0.0017	<0.0029	<0.0036	<0.0034	<0.0053	<0.0042	<0.0057	<0.0062	<0.0054	<0.0039	<0.0043	<0.0045	<0.0050	<0.0061	<0.0037
Vinyl Chloride	mg/kg	<0.0084	<0.0089	<0.0073	<0.0100	<0.0066	<0.0076	<0.0144	<0.0064	<0.0067	<0.0034	<0.0059	<0.0071	<0.0069	<0.0107	<0.0085	<0.0114	<0.0124	<0.0108	<0.0079	<0.0087	<0.0090	<0.0100	<0.0123	<0.0075
Xylene O	mg/kg	<0.0042	<0.0044	<0.0037	<0.0050	<0.0033	<0.0038	<0.0072	<0.0032	<0.0034	<0.0017	<0.0029	<0.0036	<0.0034	<0.0053	<0.0042	<0.0057	<0.0062	<0.0054	<0.0039	<0.0043	<0.0045	<0.0050	<0.0061	<0.0037
Xylene P,M	mg/kg	<0.0084	<0.0089	<0.0073	<0.0100	<0.0066	<0.0076	<0.0144	<0.0064	<0.0067	<0.0034	<0.0059	<0.0071	<0.0069	<0.0107	<0.0085	<0.0114	<0.0124	<0.0108	<0.0079	<0.0087	<0.0090	<0.0100	<0.0123	<0.0075
Xylenes (Total)	mg/kg	<0.0084	<0.0089	<0.0073	<0.0100	<0.0066	<0.0076	<0.0144	<0.0064	<0.0067	<0.0034	<0.0059	<0.0071	<0.0069	<0.0107	<0.0085	<0.0114	<0.0124	<0.0108	<0.0079	<0.0087	<0.0090	<0.0100	<0.0123	<0.0075
Total VOCs (Low Level)	mg/kg	ND	0.0339	0.0093	ND	ND	0.0314	0.0198	0.0244	0.0115	0.0093	ND	ND	ND	0.0366	0.0127	0.2792	0.1059	ND	ND	ND	ND	ND	ND	0.0338
Semi-Volatile Organic Compounds																									
1,2,4-Trichlorobenzene	mg/kg	<1.05	<1.06	<0.929	<0.880	<0.901	<1.07	<1.22	<1.09	<1.03	<0.998	<0.994	<1.05	<1.13	<0.793	<0.855	<1.05	<1.08	<1.01	<1.02	<1.11	<1.03	<0.921	<0.926	<1.10
1,2-Dichlorobenzene	mg/kg	<1.05	<1.06	<0.929	<0.880	<0.901	<1.07	<1.22	<1.09	<1.03	<0.998	<0.994	<1.05	<1.13	<0.793	<0.855	<1.05	<1.08	<1.01	<1.02	<1.11	<1.03	<0.921	<0.926	<1.10
1,3-Dichlorobenzene	mg/kg	<1.05	<1.06	<0.929	<0.880	<0.901	<1.07	<1.22	<1.09	<1.03	<0.998	<0.994	<1.05	<1.13	<0.793	<0.855	<1.05	<1.08	<1.01	<1.02	<1.11	<1.03	<0.921	<0.926	<1.10
1,4-Dichlorobenzene	mg/kg	<0.525	<0.532	<0.466	<0.441	<0.452	<0.535	<0.611	<0.544	<0.514	<0.501	<0.499	<0.524	<0.565	<0.398	<0.429	<0.526	<0.542	<0.506	<0.509	<0.557	<0.518	<0.462	<0.465	<0.554
2,4,5-Trichlorophenol	mg/kg	<1.05	<1.06	<0.929	<0.880	<0.901	<1.07	<1.22	<1.09	<1.03	<0.998	<0.994	<1.05	<1.13	<0.793	<0.855	<1.05	<1.08	<1.01	<1.02	<1.11	<1.03	<0.921	<0.926	<1.10
2,4,6-Trichlorophenol	mg/kg	<1.05	<1.06	<0.929	<0.880	<0.901	<1.07	<1.22	<1.09	<1.03	<0.998	<0.994	<1.05	<1.13	<0.793	<0.855	<1.05	<1.08	<1.01	<1.02	<1.11	<1.03	<0.921	<0.926	<1.10
2,4-Dichlorophenol	mg/kg	<1.05	<1.06	<0.929	<0.880	<0.901	<1.07	<1.22	<1.09	<1.03	<0.998	<0.994	<1.05	<1.13	<0.793	<0.855	<1.05	<1.08	<1.01	<1.02	<1.11	<1.03	<0.921	<0.926	<1.10
2,4-Dimethylphenol	mg/kg	<1.05	<1.06	<0.929	<0.880	<0.901	<1.07	<1.22	<1.09	<1.03	<0.998	<0.994	<1.05	<1.13	<0.793	<0.855	<1.05	<1.08	<1.01	<1.02	<1.11	<1.03	<0.921	<0.926	<1.10
2,4-Dinitrophenol	mg/kg	<5.25	<5.32	<4.66	<4.41	<4.52	<5.35	<6.11	<5.44	<5.14	<5.01	<4.99	<5.24	<5.65	<3.98	<4.29	<5.26	<5.42	<5.06	<5.09	<5.57	<5.18	<4.62	<4.65	<5.54
2,4-Dinitrotoluene	mg/kg	<1.05	<1.06	<0.929	<0.880	<0.901	<1.07	<1.22	<1.09	<1.03	<0.998	<0.994	<1.05	<1.13	<0.793	<0.855	<1.05	<1.08	<1.01	<1.02	<1.11	<1.03	<0.921	<0.232	<0.277
2,6-Dinitrotoluene	mg/kg	<1.05	<1.06	<0.929	<0.880	<0.901	<1.07	<1.22	<1.09	<1.03	<0.998	<0.994	<1.05	<1.13	<0.793	<0.855	<1.05	<1.08	<1.01	<1.02	<1.11	<1.03	<0.921	<0.926	<1.10
2-Chloronaphthalene	mg/kg	<1.05	<1.06	<0.929	<0.880	<0.901	<1.07	<1.22	<1.09	<1.03	<0.998	<0.994	<1.05	<1.13	<0.793	<0.855	<1.05	<1.08	<1.01	<1.02	<1.11	<1.03	<0.921	<0.926	<1.10
2-Chlorophenol	mg/kg	<1.05	<1.06	<0.929	<0.880	<0.901	<1.07	<1.22	<1.09	<1.03	<0.998	<0.994	<1.05	<1.13	<0.793	<0.855	<1.05	<1.08	<1.01	<1.02	<1.11	<1.03	<0.921	<0.926	<1.10
2-Methylnaphthalene	mg/kg	<1.05	<1.06	<0.929	<0.880	<0.901	<1.07	<1.22	<1.09	<1.03	<0.998	<0.994	<1.05	<1.13	<0.793	<0.855	<1.05	<1.08	<1.01	<1.02	<1.11	<1.03	<0.921	<0.926	<1.10
2-Methylphenol	mg/kg	<1.05	<1.06	<0.929	<0.880	<0.901	<1.07	<1.22	<1.09	<1.03	<0.998	<0.994	<1.05	<1.13	<0.793	<0.855	<1.05	<1.08	<1.01	<1.02	<1.11	<1.03	<0.921	<0.926	<1.10
2-Nitrophenol	mg/kg	<1.05	<1.06	<0.929	<0.880	<0.901	<1.07	<1.22	<1.09	<1.03	<0.998	<0.994	<1.05	<1.13	<0.793	<0.855	<1.05	<1.08	<1.01	<1.02	<1.11	<1.03	<0.921	<0.926	<1.10
3,3´-Dichlorobenzidine	mg/kg	<2.10	<2.13	<1.86	<1.76	<1.81	<2.14	<2.44	<2.17	<2.05	<2.00	<1.99	<2.09	<2.25	<1.59	<1.71	<2.10	<2.17	<2.02	<2.03	<2.23	<2.07	<1.85	<1.86	<2.21
3+4-Methylphenol	mg/kg	<2.10	<2.13	<1.86	<1.76	<1.81	<2.14	<2.44	<2.17	<2.05	<2.00	<1.99	<2.09	<2.25	<1.59	<1.71	<2.10	<2.17	<2.02	<2.03	<2.23	<2.07	<1.85	<1.86	<2.21
4-Bromophenyl-phenylether	mg/kg	<1.05	<1.06	<0.929	<0.880	<0.901	<1.07	<1.22	<1.09	<1.03	<0.998	<0.994	<1.05	<1.13	<0.793	<0.855	<1.05	<1.08	<1.01	<1.02	<1.11	<1.03	<0.921	<0.926	<1.10
4-Chloroaniline	mg/kg	<2.10	<2.13	<1.86	<1.76	<1.81	<2.14	<2.44	<2.17	<2.05	<2.00	<1.99	<2.09	<2.25	<1.59	<1.71	<2.10	<2.17	<2.02	<2.03	<2.23	<2.07	<1.85	<1.86	<2.21
4-Nitrophenol	mg/kg	<5.25	<5.32	<4.66	<4.41	<4.52	<5.35	<6.11	<5.44	<5.14	<5.01	<4.99	<5.24	<5.65	<3.98	<4.29	<5.26	<5.42	<5.06	<5.09	<5.57	<5.18	<4.62	<4.65	<5.54
Acenaphthene	mg/kg	<1.05	<1.06	<0.929	<0.880	<0.901	1.69	<1.22	<1.09	<1.03	<0.998	<0.994	<1.05	<1.13	<0.793	<0.855	<1.05	<1.08	<1.01	<1.02	<1.11	<1.03	<0.921	<0.926	<1.10
Acenaphthylene	mg/kg	<1.05	<1.06	<0.929	<0.880	<0.901	<1.07	<1.22	<1.09	<1.03	<0.998	<0.994	<1.05	<1.13	<0.793	<0.855	<1.05	<1.08	<1.01	<1.02	<1.11	<1.03	<0.921	<0.926	<1.10
Acetophenone	mg/kg	<2.10	<2.13	<1.86	<1.76	<1.81	<2.14	<2.44	<2.17	<2.05	<2.00	<1.99	<2.09	<2.25	<1.59	<1.71	<2.10	<2.17	<2.02	<2.03	<2.23	<2.07	<1.85	<1.86	<2.21
Aniline	mg/kg	<5.25	<5.32	<4.66	<4.41	<4.52	<5.35	<6.11	<5.44	<5.14	<5.01	<4.99	<5.24	<5.65	<3.98	<4.29	<5.26	<5.42	<5.06	<5.09	<5.57	<5.18	<4.62	<4.65	<5.54
Anthracene	mg/kg	<1.05	<1.06	<0.929	<0.880	<0.901	3.09	<1.22	<1.09	<1.03	<0.998	<0.994	<1.05	<1.13	<0.793	<0.855	<1.05	<1.08	<1.01	<1.02	<1.11	<1.03	<0.921	<0.926	<1.10
Azobenzene	mg/kg	<1.05	<1.06	<0.929	<0.880	<0.901	<1.07	<1.22	<1.09	<1.03	<0.998	<0.994	<1.05	<1.13	<0.793	<0.855	<1.05	<1.08	<1.01	<1.02	<1.11	<1.03	<0.921	<0.926	<1.10
Benzo(a)anthracene	mg/kg	<1.05	<1.06	<0.929	<0.880	<0.901	6.67	1.5	1.41	<1.03	<0.998	<0.994	<1.05	<1.13	<0.793	<0.855	<1.05	<1.08	<1.01	<1.02	<1.11	<1.03	<0.921	<0.926	<1.10
Benzo(a)pyrene	mg/kg	<0.525	<0.532	<0.466	<0.441	<0.452	6.28	1.37	1.18	<0.514	<0.501	<0.499	<0.524	<0.565	<0.398	0.448	<0.526	<0.542	<0.506	<0.509	<0.557	<0.518	<0.462	<0.465	<0.554
Benzo(b)fluoranthene	mg/kg	<1.05	<1.06	<0.929	<0.880	<0.901	8.6	1.43	1.25	<1.03	<0.998	<0.994	<1.05	<1.13	<0.793	<0.855	<1.05	<1.08	<1.01	<1.02	<1.11	<1.03	<0.921	<0.926	<1.10
Benzo(g,h,i)perylene	mg/kg	<1.05	<1.06	<0.929	<0.880	<0.901	1.94	<1.22	<1.09	<1.03	<0.998	<0.994	<1.05	<1.13	<0.793	<0.855	<1.05	<1.08	<1.01	<1.02	<1.11	<1.03	<0.921	<0.926	<1.10
Benzo(k)fluoranthene	mg/kg	<1.05	<1.06	<0.929	<0.880	<0.901	2.96	<1.22	<1.09	<1.03	<0.998	<0.994	<1.05	<1.13	<0.793	<0.855	<1.05	<1.08	<1.01	<1.02	<1.11	<1.03	<0.921	<0.926	<1.10
bis(2-Chloroethoxy)methane	mg/kg	<1.05	<1.06	<0.929	<0.880	<0.901	<1.07	<1.22	<1.09	<1.03	<0.998	<0.994	<1.05	<1.13	<0.793	<0.855	<1.05	<1.08	<1.01	<1.02	<1.11	<1.03	<0.921	<0.926	<1.10
bis(2-Chloroethyl)ether	mg/kg	<0.525	<0.532	<0.466	<0.441	<0.452	<0.535	<0.611	<0.544	<0.514	<0.501	<0.499	<0.524	<0.565	<0.398	<0.429	<0.526	<0.542	<0.506	<0.509	<0.557	<0.518	<0.462	<0.465	<0.554
bis(2-chloroisopropyl)Ether	mg/kg	<0.525	<0.532	<0.466	<0.441	<0.452	<0.535	<0.611	<0.544	<0.514	<0.501	<0.499	<0.524	<0.565	<0.398	<0.429	<0.526	<0.542	<0.506	<0.509	<0.557	<0.518	<0.462	<0.465	<0.554
bis(2-Ethylhexyl)phthalate	mg/kg	<1.05	<1.06	<0.929	<0.880	<0.901	<1.07	<1.22	<1.09	<1.03	<0.998	<0.994	<1.05	<1.13	<0.793	<0.855	<1.05	<1.08	<1.01	<1.02	<1.11	<1.03	<0.921	<0.926	<1.10
Butylbenzylphthalate	mg/kg	<1.05	<1.06	<0.929	<0.880	<0.901	<1.07	<1.22	<1.09	<1.03	<0.998	<0.994	<1.05	<1.13	<0.793	<0.855	<1.05	<1.08	<1.01	<1.02	<1.11	<1.03	<0.921	<0.926	<1.10
Chrysene	mg/kg	<0.525	<0.532	<0.466	<0.441	<0.452	6.68	1.68	1.45	<0.514	<0.501	<0.499	<0.524	<0.565	<0.398	0.484	<0.526	<0.542	<0.506	<0.509	<0.557	<0.518	<0.462	<0.465	<0.554
Dibenzo(a,h)Anthracene	mg/kg	<0.525	<0.532	<0.466	<0.441	<0.452	1.04	<0.611	<0.544	<0.514	<0.501	<0.499	<0.524	<0.565	<0.398	<0.429	<0.526	<0.542	<0.506	<0.509	<0.557	<0.518	<0.462	<0.465	<0.554
Dibenzofuran	mg/kg	<1.05	<1.06	<0.929	<0.880	<0.901	1.5	<1.22	<1.09	<1.03	<0.998	<0.994	<1.05	<1.13	<0.793	<0.855	<1.05	<1.08	<1.01	<1.02	<1.11	<1.03	<0.921	<0.926	<1.10
Diethylphthalate	mg/kg	<1.05	<1.06	<0.929	<0.880	<0.901	<1.07	<1.22	<1.09	<1.03	<0.998	<0.994	<1.05	<1.13	<0.793	<0.855	<1.05	<1.08	<1.01	<1.02	<1.11	<1.03	<0.921	<0.926	<1.10
Dimethylphthalate	mg/kg	<1.05	<1.06	<0.929	<0.880	<0.901	<1.07	<1.22	<1.09	<1.03	<0.998	<0.994	<1.05	<1.13	<0.793	<0.855	<1.05	<1.08	<1.01	<1.02	<1.11	<1.03	<0.921	<0.926	<1.10
Di-n-butylphthalate	mg/kg	<1.05	<1.06	<0.929	<0.880	<0.901	<1.07	<1.22	<1.09	<1.03	<0.998	<0.994	<1.05	<1.13	<0.793	<0.855	<1.05	<1.08	<1.01	<1.02	<1.11	<1.03	<0.921	<0.926	<1.10
Di-n-octylphthalate	mg/kg	<1.05	<1.06	<0.929	<0.880	<0.901	<1.07	<1.22	<1.09	<1.03	<0.998	<0.994	<1.05	<1.13	<0.793	<0.855	<1.05	<1.08	<1.01	<1.02	<1.11	<1.03	<0.921	<0.926	<1.10
Fluoranthene	mg/kg	<1.05	<1.06	<0.929	<0.880	<0.901	16.2	3.01	3.01	<1.03	<0.998	<0.994	<1.05	<1.13	<0.793	0.961	<1.05	<1.08	<1.01	<1.02	<1.11	<1.03	<0.921	<0.926	<1.10
Fluorene	mg/kg	<1.05	<1.06	<0.929	<0.880	<0.901	1.96	<1.22	<1.09	<1.03	<0.998	<0.994	<1.05	<1.13	<0.793	<0.855	<1.05	<1.08	<1.01	<1.02	<1.11	<1.03	<0.921	<0.926	<1.10
Hexachlorobenzene	mg/kg	<0.525	<0.532	<0.466	<0.441	<0.452	<0.535	<0.611	<0.544	<0.514	<0.501	<0.499	<0.524	<0.565	<0.398	<0.429	<0.526	<0.542	<0.506	<0.509	<0.557	<0.518	<0.462	<0.465	<0.554
Hexachlorobutadiene	mg/kg	<1.05	<1.06	<0.929	<0.880	<0.901	<1.07	<1.22	<1.09	<1.03	<0.998	<0.994	<1.05	<1.13	<0.793	<0.855	<1.05	<1.08	<1.01	<1.02	<1.11	<1.03	<0.921	<0.926	<1.10
Hexachloroethane	mg/kg	<1.05	<1.06	<0.929	<0.880	<0.901	<1.07	<1.22	<1.09	<1.03	<0.998	<0.994	<1.05	<1.13	<0.793	<0.855	<1.05	<1.08	<1.01	<1.02	<1.11	<1.03	<0.921	<0.926	<1.10
Indeno(1,2,3-cd)Pyrene	mg/kg	<1.05	<1.06	<0.929	<0.880	<0.901	1.96	<1.22	<1.09	<1.03	<0.998	<0.994	<1.05	<1.13	<0.793	<0.855	<1.05	<1.08	<1.01	<1.02	<1.11	<1.03	<0.921	<0.926	<1.10
Isophorone	mg/kg	<1.05	<1.06	<0.929	<0.880	<0.901	<1.07	<1.22	<1.09	<1.03	<0.998	<0.994	<1.05	<1.13	<0.793	<0.855	<1.05	<1.08	<1.01	<1.02	<1.11	<1.03	<0.921	<0.926	<1.10
Naphthalene	mg/kg	<1.05	<1.06	<0.929	<0.880	<0.901	1.24	<1.22	<1.09	<1.03	<0.998	<0.994	<1.05	<1.13	<0.793	<0.855	<1.05	<1.08	<1.01	<1.02	<1.11	<1.03	<0.921	<0.926	<1.10
Nitrobenzene	mg/kg	<1.05	<1.06	<0.929	<0.880	<0.901	<1.07	<1.22	<1.09	<1.03	<0.998	<0.994	<1.05	<1.13	<0.793	<0.855	<1.05	<1.08	<1.01	<1.02	<1.11	<1.03	<0.921	<0.926	<1.10
N-Nitrosodimethylamine	mg/kg	<1.05	<1.06	<0.929	<0.880	<0.901	<1.07	<1.22	<1.09	<1.03	<0.998	<0.994	<1.05	<1.13	<0.793	<0.855	<1.05	<1.08	<1.01	<1.02	<1.11	<1.03	<0.921	<0.926	<1.10
Pentachlorophenol	mg/kg	<5.25	<5.32	<4.66	<4.41	<4.52	<5.35	<6.11	<5.44	<5.14	<5.01	<4.99	<5.24	<5.65	<3.98	<4.29	<5.26	<5.42	<5.06	<5.09	<5.57	<5.18	<4.62	<4.65	<5.54
Phenanthrene	mg/kg	<1.05	<1.06	<0.929	<0.880	<0.901	14.6	2.56	2.88	<1.03	<0.998	<0.994	<1.05	<1.13	<0.793	<0.855	<1.05	<1.08	<1.01	<1.02	<1.11	<1.03	<0.921	<0.926	<1.10
Phenol	mg/kg	<1.05	<1.06	<0.929	<0.880	<0.901	<1.07	<1.22	<1.09	<1.03	<0.998	<0.994	<1.05	<1.13	<0.793	<0.855	<1.05	<1.08	<1.01	<1.02	<1.11	<1.03	<0.921	<0.926	<1.10
Pyrene	mg/kg	<1.05	<1.06	<0.929	<0.880	<0.901	11.3	2.69	2.59	<1.03	<0.998	<0.994	<1.05	<1.13	<0.793	<0.855	<1.05	<1.08	<1.01	<1.02	<1.11	<1.03	<0.921	<0.926	<1.10
Total SVOCs	mg/kg	ND	ND	ND	ND	ND	87.71	14.24	13.77	ND	ND	ND	ND	ND	ND	1.893	ND	ND	ND	ND	ND	ND	ND	ND	ND
Classic Chemistry																									
Corrosivity (pH)	S.U.	6.34	7.03	7	8.87	8.59	7.01	6.86	7.08	6.31	4.91	4.36	6.36	6.66	8.91	7.95	7.47	7.86	7.28	6.88	6.92	6.89	8.5	8.45	8.03
Conductivity	umhos/cm	2610	9650	4970	448	1080	1070	385	265	526	982	1540	3580	2660	218	1890	1230	538	1190	3980	4550	3020	512	1880	1440
Flashpoint	°F	--	--	--	>200	>200	>200	>200	>200	--	--	--	--	--	>200	>200	>200	--	--	--	--	--	>200	>200	>200
Reactive Cyanide	mg/kg	--	--	--	<2.0	<2.0	<2.0	<2.0	<2.0	--	--	--	--	--	<2.0	<2.0	<2.0	--	--	--	--	--	<2.0	<2.0	<2.0
Reactive Sulfide	mg/kg	--	--	--	<2.0	<2.0	<2.0	<2.0	<2.0	--	--	--	--	--	<2.0	<2.0	<2.0	--	--	--	--	--	<2.0	<2.0	<2.0

Table 1
Soil Precharacterization Data

Wynn Resort Casino
Everett, Massachusetts

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	I16 I16S06 1502288 Natural Organics 10 - 12 2/19/2015	I16 I16S07 1502288 Natural Clay 14 - 16 2/19/2015	I16 I16S08 1502288 Natural Clay 19 - 21 2/19/2015	I16 I16S09 1502307 Natural Clay 24 - 26 2/20/2015	I16 I16S10 1502307 Natural Clay 29 - 31 2/20/2015	I16 I16S11S12 1502307 Natural Sand/Gravel 34 - 38 2/20/2015	I17 I17S01S02A 1502379 Fill 0 - 3.3 2/25/2015	I17 I17S02BS04A 1502379 Fill 3.3 - 6.6 2/25/2015	I17 I17S04BS05 1502379 Fill 6.6 - 10 2/25/2015	I17 I17S06S07A 1502379 Fill 10 - 13 2/25/2015	I17 I17S07BS08 1502379 Natural Clay 13 - 16 2/25/2015	I17 I17S09 1502379 Natural Clay 19 - 21 2/25/2015	I17 I17S10 1502379 Natural Clay 24 - 26 2/25/2015	I17 I17S11 1502379 Natural Sand/Gravel 29 - 31 2/25/2015	I17 I17S12S13 1502379 Natural Sand/Gravel 34 - 38 2/25/2015	J08 J08S01S02A 1501471 Fill 0 - 3.3 1/22/2015	J08 J08S02AS04A 1501471 Fill 3.3 - 6.6 1/22/2015	J08 J08S04BS05A 1501471 Fill 6.6 - 9 1/22/2015	J08 J08S05BS06 1501471 Natural Organics 9 - 12 1/22/2015	J08 J08S07 1501471 Natural Clay 14 - 16 1/22/2015	J08 J08S08 1501471 Natural Clay 19 - 21 1/22/2015	J08 J08S09 1501471 Natural Clay 24 - 26 1/22/2015	J08 J08S10 1501471 Natural Clay 29 - 31 1/22/2015	J08 J08S11S12 1501471 Natural Clay 34 - 38 1/22/2015
Preliminary Disposal Facility Category		Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type B-1	Uncontaminated	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Restricted	MCP Restricted	Uncontaminated	Uncontaminated	Hazardous Material Type B	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	Uncontaminated
RCRA 8 Metals	**Units**																								
Arsenic	mg/kg	46.6	10.6	11.7	15.7	<8.19	<8.40	7.29	<7.01	9.61	65.6	63.9	13.8	10.6	7.18	<6.94	13	16.3	32.6	<30.9	<8.36	16.5	<7.75	9.33	<7.28
Barium	mg/kg	67.4	84.1	123	108	77.9	39.8	18.6	51.6	70.9	235	66	128	49.5	28.3	25.6	66.6	30.7	477	51.3	92.2	81.2	38.9	84.9	30.7
Cadmium	mg/kg	7.19	<1.57	<1.41	<1.68	<1.64	<1.68	<1.37	<1.40	<1.29	10.5	10.3	<1.56	<1.61	<1.30	<1.39	<1.44	<1.66	<1.69	<6.18	<1.67	<1.49	<1.55	<1.73	<1.46
Chromium	mg/kg	25.1	54.9	50.9	49.8	38.5	15.2	23.7	59.5	42.5	5.56	37.9	60.5	36.2	20.8	15.8	15.5	10.2	10.2	12.5	50.1	54.3	27.9	44.6	14.7
Lead	mg/kg	126	17.6	15.6	<16.8	<16.4	<16.8	<13.7	46.4	57.4	498	749	20.4	<16.1	<13.0	<13.9	718	179	180	<61.8	<16.7	<14.9	<15.5	<17.3	<14.6
Selenium	mg/kg	<11.2	<7.83	<7.04	<8.41	<8.19	<8.40	<6.85	<7.01	<6.44	56.2	<7.45	<7.79	<8.07	<6.52	<6.94	<7.21	<16.6	<8.46	<15.5	<8.36	<7.46	<7.75	<8.65	<7.28
Silver	mg/kg	2.83	<3.91	<1.76	<1.68	<1.64	<1.68	<1.37	<1.40	<1.29	16.5	3.68	<1.56	<1.61	<1.30	<1.39	<1.44	<1.66	2.93	<6.18	<1.67	<1.49	<1.55	<1.73	<1.46
Mercury	mg/kg	0.441	<0.036	<0.042	<0.034	<0.039	<0.037	<0.033	0.134	0.258	3.55	1.26	<0.029	<0.037	<0.034	<0.038	0.203	0.224	0.225	<0.139	<0.041	<0.036	<0.035	<0.039	<0.036
Metals by Toxicity Characteristic Leaching Procedure (TCLP)																									
Arsenic	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead	mg/L	<0.050	--	--	--	--	--	--	--	--	0.083	0.998	--	--	--	--	25	0.338	2.12	--	--	--	--	--	--
Selenium	mg/L	--	--	--	--	--	--	--	--	--	<0.050	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Herbicides																									
2,4,5-T	mg/kg	--	--	--	--	--	<0.066	<0.051	<0.053	<0.052	<0.72	--	--	--	--	--	<0.26	<0.058	<0.060	--	--	--	--	--	--
2,4-D	mg/kg	--	--	--	--	--	<0.066	<0.051	<0.053	<0.052	<0.72	--	--	--	--	--	<0.26	<0.058	<0.060	--	--	--	--	--	--
2,4-DB	mg/kg	--	--	--	--	--	<0.066	<0.051	<0.053	<0.052	<0.72	--	--	--	--	--	<0.26	<0.058	<0.060	--	--	--	--	--	--
Dalapon	mg/kg	--	--	--	--	--	<0.79	<0.62	<0.64	<0.62	<8.7	--	--	--	--	--	<3.1	<0.70	<0.72	--	--	--	--	--	--
Dicamba	mg/kg	--	--	--	--	--	<0.066	<0.051	<0.053	<0.052	<0.72	--	--	--	--	--	<0.26	<0.058	<0.060	--	--	--	--	--	--
Dichlorprop	mg/kg	--	--	--	--	--	<0.066	<0.051	<0.053	<0.052	<0.72	--	--	--	--	--	<0.26	<0.058	<0.060	--	--	--	--	--	--
Dinoseb	mg/kg	--	--	--	--	--	<0.40	<0.31	<0.32	<0.31	<4.4	--	--	--	--	--	<1.6	<0.35	<0.36	--	--	--	--	--	--
MCPA	mg/kg	--	--	--	--	--	<16	<12	<13	<12	<170	--	--	--	--	--	<63	<14	<14	--	--	--	--	--	--
MCPP	mg/kg	--	--	--	--	--	<16	<12	<13	<12	<170	--	--	--	--	--	<63	<14	<14	--	--	--	--	--	--
Silvex (2,4,5-TP)	mg/kg	--	--	--	--	--	<0.066	<0.051	<0.053	<0.052	<0.72	--	--	--	--	--	<0.26	<0.058	<0.060	--	--	--	--	--	--
Pesticides																									
4,4'-DDD	mg/kg	--	--	--	--	--	<0.0022	<0.0019	<0.0039	<0.0037	<0.0051	--	--	--	--	--	<0.034	<0.017	<0.017	--	--	--	--	--	--
4,4'-DDE	mg/kg	--	--	--	--	--	<0.0022	<0.0019	<0.0039	<0.0037	<0.0051	--	--	--	--	--	<0.034	<0.017	<0.017	--	--	--	--	--	--
4,4'-DDT	mg/kg	--	--	--	--	--	<0.0022	<0.0019	<0.0039	<0.0037	<0.0051	--	--	--	--	--	<0.034	<0.017	<0.017	--	--	--	--	--	--
Aldrin	mg/kg	--	--	--	--	--	<0.0022	<0.0019	<0.0039	<0.0037	<0.0051	--	--	--	--	--	<0.034	<0.017	<0.017	--	--	--	--	--	--
alpha-BHC	mg/kg	--	--	--	--	--	<0.0022	<0.0019	<0.0039	<0.0037	<0.0051	--	--	--	--	--	<0.034	<0.017	<0.017	--	--	--	--	--	--
beta-BHC	mg/kg	--	--	--	--	--	<0.0022	<0.0019	<0.0039	<0.0037	<0.0051	--	--	--	--	--	<0.034	<0.017	<0.017	--	--	--	--	--	--
Chlordane (technical)	mg/kg	--	--	--	--	--	<0.022	<0.019	<0.039	<0.037	<0.051	--	--	--	--	--	<1.0	<0.50	<0.50	--	--	--	--	--	--
delta-BHC	mg/kg	--	--	--	--	--	<0.0022	<0.0019	<0.0039	<0.0037	<0.0051	--	--	--	--	--	<0.034	<0.017	<0.017	--	--	--	--	--	--
Dieldrin	mg/kg	--	--	--	--	--	<0.0022	<0.0019	<0.0039	<0.0037	<0.0051	--	--	--	--	--	<0.034	<0.017	<0.017	--	--	--	--	--	--
Endosulfan I	mg/kg	--	--	--	--	--	<0.0022	<0.0019	<0.0039	<0.0037	<0.0051	--	--	--	--	--	<0.034	<0.017	<0.017	--	--	--	--	--	--
Endosulfan II	mg/kg	--	--	--	--	--	<0.0022	<0.0019	<0.0039	<0.0037	<0.0051	--	--	--	--	--	<0.034	<0.017	<0.017	--	--	--	--	--	--
Endosulfan sulfate	mg/kg	--	--	--	--	--	<0.0022	<0.0019	<0.0039	<0.0037	<0.0051	--	--	--	--	--	<0.034	<0.017	<0.017	--	--	--	--	--	--
Endrin	mg/kg	--	--	--	--	--	<0.0022	<0.0019	<0.0039	<0.0037	<0.0051	--	--	--	--	--	<0.034	<0.017	<0.017	--	--	--	--	--	--
Endrin ketone	mg/kg	--	--	--	--	--	<0.0022	<0.0019	<0.0039	<0.0037	<0.0051	--	--	--	--	--	<0.034	<0.017	<0.017	--	--	--	--	--	--
gamma-BHC (Lindane)	mg/kg	--	--	--	--	--	<0.0022	<0.0019	<0.0039	<0.0037	<0.0051	--	--	--	--	--	<0.034	<0.017	<0.017	--	--	--	--	--	--
Heptachlor	mg/kg	--	--	--	--	--	<0.0022	<0.0019	<0.0039	<0.0037	<0.0051	--	--	--	--	--	<0.034	<0.017	<0.017	--	--	--	--	--	--
Heptachlor epoxide	mg/kg	--	--	--	--	--	<0.0022	<0.0019	<0.0039	<0.0037	<0.0051	--	--	--	--	--	<0.034	<0.017	<0.017	--	--	--	--	--	--
Hexachlorobenzene	mg/kg	--	--	--	--	--	<0.0022	<0.0019	<0.0039	<0.0037	<0.0051	--	--	--	--	--	<0.034	<0.017	<0.017	--	--	--	--	--	--
Methoxychlor	mg/kg	--	--	--	--	--	<0.0022	<0.0019	<0.0039	<0.0037	<0.0051	--	--	--	--	--	<0.066	<0.033	<0.033	--	--	--	--	--	--
Polychlorinated Biphenyls																									
Aroclor 1016	mg/kg	<0.253	<0.161	<0.160	<0.154	<0.157	<0.145	<0.133	<0.139	<0.136	<0.179	<0.172	<0.159	<0.158	<0.156	<0.151	<0.130	<0.147	<0.164	<0.596	<0.153	<0.151	<0.150	<0.158	<0.130
Aroclor 1221	mg/kg	<0.253	<0.161	<0.160	<0.154	<0.157	<0.145	<0.133	<0.139	<0.136	<0.179	<0.172	<0.159	<0.158	<0.156	<0.151	<0.130	<0.147	<0.164	<0.596	<0.153	<0.151	<0.150	<0.158	<0.130
Aroclor 1232	mg/kg	<0.253	<0.161	<0.160	<0.154	<0.157	<0.145	<0.133	<0.139	<0.136	<0.179	<0.172	<0.159	<0.158	<0.156	<0.151	<0.130	<0.147	<0.164	<0.596	<0.153	<0.151	<0.150	<0.158	<0.130
Aroclor 1242	mg/kg	<0.253	<0.161	<0.160	<0.154	<0.157	<0.145	<0.133	<0.139	<0.136	<0.179	<0.172	<0.159	<0.158	<0.156	<0.151	<0.130	<0.147	<0.164	<0.596	<0.153	<0.151	<0.150	<0.158	<0.130
Aroclor 1248	mg/kg	<0.253	<0.161	<0.160	<0.154	<0.157	<0.145	<0.133	<0.139	<0.136	<0.179	<0.172	<0.159	<0.158	<0.156	<0.151	<0.130	<0.147	<0.164	<0.596	<0.153	<0.151	<0.150	<0.158	<0.130
Aroclor 1254	mg/kg	<0.253	<0.161	<0.160	<0.154	<0.157	<0.145	<0.133	<0.139	<0.136	<0.179	<0.172	<0.159	<0.158	<0.156	<0.151	<0.130	<0.147	<0.164	<0.596	<0.153	<0.151	<0.150	<0.158	<0.130
Aroclor 1260	mg/kg	<0.253	<0.161	<0.160	<0.154	<0.157	<0.145	<0.133	<0.139	<0.136	<0.179	<0.172	<0.159	<0.158	<0.156	<0.151	<0.130	<0.147	<0.164	<0.596	<0.153	<0.151	<0.150	<0.158	<0.130
Aroclor 1262	mg/kg	<0.253	<0.161	<0.160	<0.154	<0.157	<0.145	<0.133	<0.139	<0.136	<0.179	<0.172	<0.159	<0.158	<0.156	<0.151	<0.130	<0.147	<0.164	<0.596	<0.153	<0.151	<0.150	<0.158	<0.130
Aroclor 1268	mg/kg	<0.253	<0.161	<0.160	<0.154	<0.157	<0.145	<0.133	<0.139	<0.136	<0.179	<0.172	<0.159	<0.158	<0.156	<0.151	<0.130	<0.147	<0.164	<0.596	<0.153	<0.151	<0.150	<0.158	<0.130
Total PCBs	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Petroleum Hydrocarbons	mg/kg	456	<49.5	<52.0	<45.4	<50.7	<50.3	<41.0	73.2	88.3	97.1	83.1	<50.6	<48.5	<45.2	<48.0	2120	155	244	2380	<46.2	<49.3	<48.6	<48.5	<44.2
Volatile Organic Compounds (VOCs)																									
1,1,1,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<1.25	--	--	--	--	--
1,1,1-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.626	--	--	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.626	--	--	--	--	--
1,1,2-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.626	--	--	--	--	--
1,1-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.626	--	--	--	--	--
1,1-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.626	--	--	--	--	--
1,1-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.626	--	--	--	--	--
1,2,3-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.626	--	--	--	--	--
1,2,3-Trichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.626	--	--	--	--	--
1,2,4-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.626	--	--	--	--	--
1,2,4-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.626	--	--	--	--	--
1,2-Dibromo-3-Chloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<2.50	--	--	--	--	--
1,2-Dibromoethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.626	--	--	--	--	--
1,2-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.626	--	--	--	--	--
1,2-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.626	--	--	--	--	--
1,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.626	--	--	--	--	--
1,3,5-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.626	--	--	--	--	--
1,3-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.626	--	--	--	--	--
1,3-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.626	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.626	--	--	--	--	--
1,4-Dioxane - Screen	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<62.6	--	--	--	--	--
2,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<1.25	--	--	--	--	--
2-Butanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<2.50	--	--	--	--	--
2-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.626	--	--	--	--	--
2-Hexanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<2.50	--	--	--	--	--
4-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.626	--	--	--	--	--
4-Isopropyltoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.626	--	--	--	--	--
4-Methyl-2-Pentanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<2.50	--	--	--	--	--
Acetone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<2.50	--	--	--	--	--
Benzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.626	--	--	--	--	--
Bromobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.626	--	--	--	--	--
Bromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.626	--	--	--	--	--
Bromodichloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.626	--	--	--	--	--
Bromoform	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.626	--	--	--	--	--
Bromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<1.25	--	--	--	--	--
Carbon Disulfide	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.626	--	--	--	--	--
Carbon Tetrachloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.626	--	--	--	--	--

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	I16 I16S06 1502288 Natural Organics 10 - 12 2/19/2015	I16 I16S07 1502288 Natural Clay 14 - 16 2/19/2015	I16 I16S08 1502288 Natural Clay 19 - 21 2/19/2015	I16 I16S09 1502307 Natural Clay 24 - 26 2/20/2015	I16 I16S10 1502307 Natural Clay 29 - 31 2/20/2015	I16 I16S11S12 1502307 Natural Sand/Gravel 34 - 38 2/20/2015	I17 I17S01S02A 1502379 Fill 0 - 3.3 2/25/2015	I17 I17S02BS04A 1502379 Fill 3.3 - 6.6 2/25/2015	I17 I17S04BS05 1502379 Fill 6.6 - 10 2/25/2015	I17 I17S06S07A 1502379 Fill 10 - 13 2/25/2015	I17 I17S07BS08 1502379 Natural Clay 13 - 16 2/25/2015	I17 I17S09 1502379 Natural Clay 19 - 21 2/25/2015	I17 I17S10 1502379 Natural Clay 24 - 26 2/25/2015	I17 I17S11 1502379 Natural Sand/Gravel 29 - 31 2/25/2015	I17 I17S12S13 1502379 Natural Sand/Gravel 34 - 38 2/25/2015	J08 J08S01S02A 1501471 Fill 0 - 3.3 1/22/2015	J08 J08S02AS04A 1501471 Fill 3.3 - 6.6 1/22/2015	J08 J08S04BS05A 1501471 Fill 6.6 - 9 1/22/2015	J08 J08S05BS06 1501471 Natural Organics 9 - 12 1/22/2015	J08 J08S07 1501471 Natural Clay 14 - 16 1/22/2015	J08 J08S08 1501471 Natural Clay 19 - 21 1/22/2015	J08 J08S09 1501471 Natural Clay 24 - 26 1/22/2015	J08 J08S10 1501471 Natural Clay 29 - 31 1/22/2015	J08 J08S11S12 1501471 Natural Clay 34 - 38 1/22/2015
Preliminary Disposal Facility Category		Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type B-1	Uncontaminated	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Restricted	MCP Restricted	Uncontaminated	Uncontaminated	Hazardous Material Type B	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type A	Uncontaminated
Chlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.626	--	--	--	--	--
Chloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<1.25	--	--	--	--	--
Chloroform	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.626	--	--	--	--	--
Chloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<1.25	--	--	--	--	--
cis-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.626	--	--	--	--	--
cis-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.626	--	--	--	--	--
Dibromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.626	--	--	--	--	--
Dibromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.626	--	--	--	--	--
Dichlorodifluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.626	--	--	--	--	--
Diethyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.626	--	--	--	--	--
Di-isopropyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.626	--	--	--	--	--
Ethyl tertiary-butyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.626	--	--	--	--	--
Ethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.626	--	--	--	--	--
Hexachlorobutadiene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.626	--	--	--	--	--
Isopropylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.626	--	--	--	--	--
Methyl tert-Butyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.626	--	--	--	--	--
Methylene Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<2.50	--	--	--	--	--
Naphthalene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.626	--	--	--	--	--
n-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.626	--	--	--	--	--
n-Propylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.626	--	--	--	--	--
sec-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.626	--	--	--	--	--
Styrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.626	--	--	--	--	--
tert-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.626	--	--	--	--	--
Tertiary-amyl methyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.626	--	--	--	--	--
Tetrachloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.626	--	--	--	--	--
Tetrahydrofuran	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<2.50	--	--	--	--	--
Toluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.626	--	--	--	--	--
trans-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.626	--	--	--	--	--
trans-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.626	--	--	--	--	--
Trichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.626	--	--	--	--	--
Trichlorofluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.626	--	--	--	--	--
Vinyl Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.626	--	--	--	--	--
Xylene O	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.626	--	--	--	--	--
Xylene P,M	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<1.25	--	--	--	--	--
Xylenes (Total)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<1.25	--	--	--	--	--
Total VOCs	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	ND	--	--	--	--	--
Volatile Organic Compounds - Low Level Analysis																									
1,1,1,2-Tetrachloroethane	mg/kg	<0.0086	<0.0033	<0.0042	<0.0038	<0.0033	<0.0039	<0.0049	<0.0064	<0.0043	<0.0050	<0.0043	<0.0042	<0.0031	<0.0033	<0.0041	<0.0052	<0.0055	<0.0046	<0.0270	<0.0045	<0.0038	<0.0044	<0.0042	<0.0036
1,1,1-Trichloroethane	mg/kg	<0.0086	<0.0033	<0.0042	<0.0038	<0.0033	<0.0039	<0.0049	<0.0064	<0.0043	<0.0050	<0.0043	<0.0042	<0.0031	<0.0033	<0.0041	<0.0052	<0.0055	<0.0046	<0.0270	<0.0045	<0.0038	<0.0044	<0.0042	<0.0036
1,1,2,2-Tetrachloroethane	mg/kg	<0.0034	<0.0013	<0.0017	<0.0015	<0.0013	<0.0016	<0.0020	<0.0026	<0.0017	<0.0020	<0.0017	<0.0017	<0.0012	<0.0013	<0.0016	<0.0021	<0.0022	<0.0018	<0.0108	<0.0018	<0.0015	<0.0018	<0.0017	<0.0015
1,1,2-Trichloroethane	mg/kg	<0.0086	<0.0033	<0.0042	<0.0038	<0.0033	<0.0039	<0.0049	<0.0064	<0.0043	<0.0050	<0.0043	<0.0042	<0.0031	<0.0033	<0.0041	<0.0052	<0.0055	<0.0046	<0.0270	<0.0045	<0.0038	<0.0044	<0.0042	<0.0036
1,1-Dichloroethane	mg/kg	<0.0086	<0.0033	<0.0042	<0.0038	<0.0033	<0.0039	<0.0049	<0.0064	<0.0043	<0.0050	<0.0043	<0.0042	<0.0031	<0.0033	<0.0041	<0.0052	<0.0055	<0.0046	<0.0270	<0.0045	<0.0038	<0.0044	<0.0042	<0.0036
1,1-Dichloroethene	mg/kg	<0.0086	<0.0033	<0.0042	<0.0038	<0.0033	<0.0039	<0.0049	<0.0064	<0.0043	<0.0050	<0.0043	<0.0042	<0.0031	<0.0033	<0.0041	<0.0052	<0.0055	<0.0046	<0.0270	<0.0045	<0.0038	<0.0044	<0.0042	<0.0036
1,1-Dichloropropene	mg/kg	<0.0086	<0.0033	<0.0042	<0.0038	<0.0033	<0.0039	<0.0049	<0.0064	<0.0043	<0.0050	<0.0043	<0.0042	<0.0031	<0.0033	<0.0041	<0.0052	<0.0055	<0.0046	<0.0270	<0.0045	<0.0038	<0.0044	<0.0042	<0.0036
1,2,3-Trichlorobenzene	mg/kg	<0.0086	<0.0033	<0.0042	<0.0038	<0.0033	<0.0039	<0.0049	<0.0064	<0.0043	<0.0050	<0.0043	<0.0042	<0.0031	<0.0033	<0.0041	<0.0052	<0.0055	<0.0046	<0.0270	<0.0045	<0.0038	<0.0044	<0.0042	<0.0036
1,2,3-Trichloropropane	mg/kg	<0.0086	<0.0033	<0.0042	<0.0038	<0.0033	<0.0039	<0.0049	<0.0064	<0.0043	<0.0050	<0.0043	<0.0042	<0.0031	<0.0033	<0.0041	<0.0052	<0.0055	<0.0046	<0.0270	<0.0045	<0.0038	<0.0044	<0.0042	<0.0036
1,2,4-Trichlorobenzene	mg/kg	<0.0086	<0.0033	<0.0042	<0.0038	<0.0033	<0.0039	<0.0049	<0.0064	<0.0043	<0.0050	<0.0043	<0.0042	<0.0031	<0.0033	<0.0041	<0.0052	<0.0055	<0.0046	<0.0270	<0.0045	<0.0038	<0.0044	<0.0042	<0.0036
1,2,4-Trimethylbenzene	mg/kg	<0.0086	<0.0033	<0.0042	<0.0038	<0.0033	<0.0039	<0.0049	<0.0064	<0.0043	<0.0050	<0.0043	<0.0042	<0.0031	<0.0033	<0.0041	<0.0052	<0.0055	<0.0046	<0.0270	<0.0045	<0.0038	<0.0044	<0.0042	<0.0036
1,2-Dibromo-3-Chloropropane	mg/kg	<0.0086	<0.0033	<0.0042	<0.0038	<0.0033	<0.0039	<0.0049	<0.0064	<0.0043	<0.0050	<0.0043	<0.0042	<0.0031	<0.0033	<0.0041	<0.0052	<0.0055	<0.0046	<0.0270	<0.0045	<0.0038	<0.0044	<0.0042	<0.0036
1,2-Dibromoethane	mg/kg	<0.0086	<0.0033	<0.0042	<0.0038	<0.0033	<0.0039	<0.0049	<0.0064	<0.0043	<0.0050	<0.0043	<0.0042	<0.0031	<0.0033	<0.0041	<0.0052	<0.0055	<0.0046	<0.0270	<0.0045	<0.0038	<0.0044	<0.0042	<0.0036
1,2-Dichlorobenzene	mg/kg	<0.0086	<0.0033	<0.0042	<0.0038	<0.0033	<0.0039	<0.0049	<0.0064	<0.0043	<0.0050	<0.0043	<0.0042	<0.0031	<0.0033	<0.0041	<0.0052	<0.0055	<0.0046	<0.0270	<0.0045	<0.0038	<0.0044	<0.0042	<0.0036
1,2-Dichloroethane	mg/kg	<0.0086	<0.0033	<0.0042	<0.0038	<0.0033	<0.0039	<0.0049	<0.0064	<0.0043	<0.0050	<0.0043	<0.0042	<0.0031	<0.0033	<0.0041	<0.0052	<0.0055	<0.0046	<0.0270	<0.0045	<0.0038	<0.0044	<0.0042	<0.0036
1,2-Dichloropropane	mg/kg	<0.0086	<0.0033	<0.0042	<0.0038	<0.0033	<0.0039	<0.0049	<0.0064	<0.0043	<0.0050	<0.0043	<0.0042	<0.0031	<0.0033	<0.0041	<0.0052	<0.0055	<0.0046	<0.0270	<0.0045	<0.0038	<0.0044	<0.0042	<0.0036
1,3,5-Trimethylbenzene	mg/kg	<0.0086	<0.0033	<0.0042	<0.0038	<0.0033	<0.0039	<0.0049	<0.0064	<0.0043	<0.0050	<0.0043	<0.0042	<0.0031	<0.0033	<0.0041	<0.0052	<0.0055	<0.0046	<0.0270	<0.0045	<0.0038	<0.0044	<0.0042	<0.0036
1,3-Dichlorobenzene	mg/kg	<0.0086	<0.0033	<0.0042	<0.0038	<0.0033	<0.0039	<0.0049	<0.0064	<0.0043	<0.0050	<0.0043	<0.0042	<0.0031	<0.0033	<0.0041	<0.0052	<0.0055	<0.0046	<0.0270	<0.0045	<0.0038	<0.0044	<0.0042	<0.0036
1,3-Dichloropropane	mg/kg	<0.0086	<0.0033	<0.0042	<0.0038	<0.0033	<0.0039	<0.0049	<0.0064	<0.0043	<0.0050	<0.0043	<0.0042	<0.0031	<0.0033	<0.0041	<0.0052	<0.0055	<0.0046	<0.0270	<0.0045	<0.0038	<0.0044	<0.0042	<0.0036
1,4-Dichlorobenzene	mg/kg	<0.0086	<0.0033	<0.0042	<0.0038	<0.0033	<0.0039	<0.0049	<0.0064	<0.0043	<0.0050	<0.0043	<0.0042	<0.0031	<0.0033	<0.0041	<0.0052	<0.0055	<0.0046	<0.0270	<0.0045	<0.0038	<0.0044	<0.0042	<0.0036
1,4-Dioxane	mg/kg	<0.172	<0.0658	<0.0833	<0.0764	<0.0652	<0.0788	<0.0984	<0.128	<0.0856	<0.0997	<0.0853	<0.0832	<0.0621	<0.0667	<0.0813	<0.103	<0.110	<0.0914	<0.539	<0.0898	<0.0753	<0.0889	<0.0848	<0.0725
2,2-Dichloropropane	mg/kg	<0.0086	<0.0033	<0.0042	<0.0038	<0.0033	<0.0039	<0.0049	<0.0064	<0.0043	<0.0050	<0.0043	<0.0042	<0.0031	<0.0033	<0.0041	<0.0052	<0.0055	<0.0046	<0.0270	<0.0045	<0.0038	<0.0044	<0.0042	<0.0036
2-Butanone	mg/kg	<0.0172	<0.0066	<0.0083	<0.0076	<0.0065	<0.0079	<0.0098	<0.0128	<0.0086	<0.0100	<0.0085	<0.0083	<0.0062	<0.0067	<0.0081	<0.0103	<0.0110	<0.0091	<0.0539	<0.0090	<0.0075	<0.0089	<0.0085	<0.0073
2-Chlorotoluene	mg/kg	<0.0086	<0.0033	<0.0042	<0.0038	<0.0033	<0.0039	<0.0049	<0.0064	<0.0043	<0.0050	<0.0043	<0.0042	<0.0031	<0.0033	<0.0041	<0.0052	<0.0055	<0.0046	<0.0270	<0.0045	<0.0038	<0.0044	<0.0042	<0.0036
2-Hexanone	mg/kg	<0.0172	<0.0066	<0.0083	<0.0076	<0.0065	<0.0079	<0.0098	<0.0128	<0.0086	<0.0100	<0.0085	<0.0083	<0.0062	<0.0067	<0.0081	<0.0103	<0.0110	<0.0091	<0.0539	<0.0090	<0.0075	<0.0089	<0.0085	<0.0073
4-Chlorotoluene	mg/kg	<0.0086	<0.0033	<0.0042	<0.0038	<0.0033	<0.0039	<0.0049	<0.0064	<0.0043	<0.0050	<0.0043	<0.0042	<0.0031	<0.0033	<0.0041	<0.0052	<0.0055	<0.0046	<0.0270	<0.0045	<0.0038	<0.0044	<0.0042	<0.0036
4-Isopropyltoluene	mg/kg	<0.0086	<0.0033	<0.0042	<0.0038	<0.0033	<0.0039	<0.0049	<0.0064	<0.0043	<0.0050	<0.0043	<0.0042	<0.0031	<0.0033	<0.0041	<0.0052	<0.0055	<0.0046	<0.0270	<0.0045	<0.0038	<0.0044	<0.0042	<0.0036
4-Methyl-2-Pentanone	mg/kg	<0.0172	<0.0066	<0.0083	<0.0076	<0.0065	<0.0079	<0.0098	<0.0128	<0.0086	<0.0100	<0.0085	<0.0083	<0.0062	<0.0067	<0.0081	<0.0103	<0.0110	<0.0091	<0.0539	<0.0090	<0.0075	<0.0089	<0.0085	<0.0073
Acetone	mg/kg	0.0532	0.0181	0.0084	<0.0076	<0.0065	<0.0079	<0.0098	<0.0128	<0.0086	<0.0100	<0.0085	<0.0083	<0.0062	<0.0067	<0.0081	<0.0103	<0.0110	0.0166	0.289	0.024	0.0085	0.0125	0.0205	<0.0073
Benzene	mg/kg	<0.0086	<0.0033	<0.0042	<0.0038	<0.0033	<0.0039	<0.0049	<0.0064	<0.0043	<0.0050	<0.0043	<0.0042	<0.0031	<0.0033	<0.0041	<0.0052	<0.0055	<0.0046	<0.0270	<0.0045	<0.0038	<0.0044	<0.0042	<0.0036
Bromobenzene	mg/kg	<0.0086	<0.0033	<0.0042	<0.0038	<0.0033	<0.0039	<0.0049	<0.0064	<0.0043	<0.0050	<0.0043	<0.0042	<0.0031	<0.0033	<0.0041	<0.0052	<0.0055	<0.0046	<0.0270	<0.0045	<0.0038	<0.0044	<0.0042	<0.0036
Bromochloromethane	mg/kg	<0.0086	<0.0033	<0.0042	<0.0038	<0.0033	<0.0039	<0.0049	<0.0064	<0.0043	<0.0050	<0.0043	<0.0042	<0.0031	<0.0033	<0.0041	<0.0052	<0.0055	<0.0046	<0.0270	<0.0045	<0.0038	<0.0044	<0.0042	<0.0036
Bromodichloromethane	mg/kg	<0.0086	<0.0033	<0.0042	<0.0038	<0.0033	<0.0039	<0.0049	<0.0064	<0.0043	<0.0050	<0.0043	<0.0042	<0.0031	<0.0033	<0.0041	<0.0052	<0.0055	<0.0046	<0.0270	<0.0045	<0.0038	<0.0044	<0.0042	<0.0036
Bromoform	mg/kg	<0.0086	<0.0033	<0.0042	<0.0038	<0.0033	<0.0039	<0.0049	<0.0064	<0.0043	<0.0050	<0.0043	<0.0042	<0.0031	<0.0033	<0.0041	<0.0052	<0.0055	<0.0046	<0.0270	<0.0045	<0.0038	<0.0044	<0.0042	<0.0036
Bromomethane	mg/kg	<0.0172	<0.0066	<0.0083	<0.0076	<0.0065	<0.0079	<0.0098	<0.0128	<0.0086	<0.0100	<0.0085	<0.0083	<0.0062	<0.0067	<0.0081	<0.0103	<0.0110	<0.0091	<0.0539	<0.0090	<0.0075	<0.0089	<0.0085	<0.0073
Carbon Disulfide	mg/kg	<0.0086	<0.0033	<0.0042	<0.0038	<0.0033	<0.0039	<0.0049	<0.0064	<0.0043	<0.0050	<0.0043	<0.0042	<0.0031	<0.0033	<0.0041	<0.0052	<0.0055	<0.0046	<0.0270	<0.0045	<0.0038	<0.0044	<0.0042	<0.0036
Carbon Tetrachloride	mg/kg	<0.0086	<0.0033	<0.0042	<0.0038	<0.0033	<0.0039	<0.0049	<0.0064	<0.0043	<0.0050	<0.0043	<0.0042	<0.0031	<0.0033	<0.0041	<0.0052	<0.0055	<0.0046	<0.0270	<0.0045	<0.0038	<0.0044	<0.0042	<0.0036
Chlorobenzene	mg/kg	<0.0086	<0.0033	<0.0042	<0.0038	<0.0033	<0.0039	<0.0049	<0.0064	<0.0043	<0.0050	<0.0043	<0.0042	<0.0031	<0.0033	<0.0041	<0.0052	<0.0055	<0.0046	<0.0270	<0.0045	<0.0038	<0.0044	<0.0042	<0.0036
Chloroethane	mg/kg	<0.0172	<0.0066	<0.0083	<0.0076	<0.0065	<0.0079	<0.0098	<0.0128	<0.0086	<0.0100	<0.0085	<0.0083	<0.0062	<0.0067	<0.0081	<0.0103	<0.0110	<0.0091	<0.0539	<0.0090	<0.0075	<0.0089	<0.0085	<0.0073
Chloroform	mg/kg	<0.0086	<0.0033	<0.0042	<0.0038	<0.0033	<0.0039	<0.0049	<0.0064	<0.0043	<0.0050	<0.0043	<0.0042	<0.0031	<0.0033	<0.0041	<0.0052	<0.0055	<0.0046	<0.0270	<0.0045	<0.0038	<0.0044	<0.0042	<0.0036
Chloromethane	mg/kg	<0.0172	<0.0066	<0.0083	<0.0076	<0.0065	<0.0079	<0.0098	<0.0128	<0.0086	<0.0100	<0.0085	<0.0083	<0.0062	<0.0067	<0.0081	<0.0103	<0.0110	<0.0091	<0.0539	<0.0090	<0.0075	<0.0089	<0.0085	<0.0073
cis-1,2-Dichloroethene	mg/kg	<0.0086	<0.0033	<0.0042	<0.0038	<0.0033	<0.0039	<0.0049	<0.0064	<0.0043	<0.0050	<0.0043	<0.0042	<0.0031	<0.0033	<0.0041	<0.0052	<0.0055	<0.0046	<0.0270	<0.0045	<0.0038	<0.0044	<0.0042	<0.0036
cis-1,3-Dichloropropene	mg/kg	<0.0086	<0.0033	<0.0042	<0.0038	<0.0033	<0.0039	<0.0049	<0.0064	<0.0043	<0.0050	<0.0043	<0.0042	<0.0031	<0.0033	<0.0041	<0.0052	<0.0055	<0.0046	<0.0270	<0.0045	<0.0038	<0.0044	<0.0042	<0.0036
Dibromochloromethane	mg/kg	<0.0034	<0.0013	<0.0017	<0.0015	<0.0013	<0.0016	<0.0020	<0.0026	<0.0017	<0.0020	<0.0017	<0.0017	<0.0012	<0.0013	<0.0016	<0.0021	<0.0022	<0.0018	<0.0108	<0.0018	<0.0015	<0.0018	<0.0017	<0.0015
Dibromomethane	mg/kg	<0.0086	<0.0033	<0.0042	<0.0038	<0.0033	<0.0039	<0.0049	<0.0064	<0.0043	<0.0050	<0.0043	<0.0042	<0.0031	<0.0033	<0.0041	<0.0052	<0.0055	<0.0046	<0.0270	<0.0045	<0.0038	<0.0044	<0.0042	<0.0036
Dichlorodifluoromethane	mg/kg	<0.0172	<0.0066	<0.0083	<0.0076	<0.0065	<0.0079	<0.0098	<0.0128	<0.0086	<0.0100	<0.0085	<0.0083	<0.0062	<0.0067	<0.0081	<0.0103	<0.0110	<0.0091	<0.0539	<0.0090	<0.0075	<0.0089	<0.0085	<0.0073
Diethyl Ether	mg/kg	<0.0086	<0.0033	<0.0042	<0.0038	<0.0033	<0.0039	<0.0049	<0.0064	<0.0043	<0.0050	<0.0043	<0.0042	<0.0031	<0.0033	<0.0041	<0.0052	<0.0055	<0.0046	<0.0270	<0.0045	<0.0038	<0.0044	<0.0042	<0.0036
Di-isopropyl ether	mg/kg	<0.0086	<0.0033	<0.0042	<0.0038	<0.0033	<0.0039	<0.0049	<0.0064	<0.0043	<0.0050	<0.0043	<0.0042	<0.0031	<0.0033	<0.0041	<0.0052	<0.0055	<0.0046	<0.0270	<0.0045	<0.0038	<0.0044	<0.0042	<0.0036
Ethyl tertiary-butyl ether	mg/kg	<0.0086	<0.0033	<0.0042	<0.0038	<0.0033	<0.0039	<0.0049	<0.0064	<0.0043	<0.0050	<0.0043	<0.0042	<0.0031	<0.0033	<0.0041	<0.0052	<0.0055	<0.0046	<0.0270	<0.0045	<0.0038	<0.0044	<0.0042	<0.0036
Ethylbenzene	mg/kg	<0.0086	<0.0033	<0.0042	<0.0038	<0.0033	<0.0039	<0.0049	<0.0064	<0.0043	<0.0050	<0.0043	<0.0042	<0.0031	<0.0033	<0.0041	<0.0052	<0.0055	<0.0046	<0.0270	<0.0045	<0.0038	<0.0044	<0.0042	<0.0036
Hexachlorobutadiene	mg/kg	<0.0086	<0.0033	<0.0042	<0.0038	<0.0033	<0.0039	<0.0049	<0.0064	<0.0043	<0.0050	<0.0043	<0.0042	<0.0031	<0.0033	<0.0041	<0.0052	<0.0055	<0.0046	<0.0270	<0.0045	<0.0038	<0.0044	<0.0042	<0.0036
Isopropylbenzene	mg/kg	<0.0086	<0.0033	<0.0042	<0.0038	<0.0033	<0.0039	<0.0049	<0.0064	<0.0043	<0.0050	<0.0043	<0.0042	<0.0031	<0.0033	<0.0041	<0.0052	<0.0055	<0.0046	<0.0270	<0.0045	<0.0038	<0.0044	<0.0042	<0.0036
Methyl tert-Butyl Ether	mg/kg	<0.0086	<0.0033	<0.0042	<0.0038	<0.0033	<0.0039	<0.0049	<0.0064	<0.0043	<0.0050	<0.0043	<0.0042	<0.0031	<0.0033	<0.0041	<0.0052	<0.0055	<0.0046	<0.0270	<0.0045	<0.0038	<0.0044	<0.0042	<0.0036
Methylene Chloride	mg/kg	<0.0172	<0.0066	<0.0083	<0.0076	<0.0065	<0.0079	<0.0098	<0.0128	<0.0086	<0.0100	<0.0085	<0.0083	<0.0062	<0.0067	<0.0081	<0.0103	<0.0110	<0.0091	<0.0539	<0.0090	<0.0075	<0.0089	<0.0085	<0.0073
Naphthalene	mg/kg	<0.0086	<0.0033	<0.0042	<0.0038	<0.0033	<0.0039	<0.0049	<0.0064	<0.0043	<0.0050	<0.0043	<0.0042	<0.0031	<0.0033	<0.0041	<0.0052	<0.0055	<0.0046	<0.0270	<0.0045	<0.0038	<0.0044	<0.0042	<0.0036
n-Butylbenzene	mg/kg	<0.0086	<0.0033	<0.0042	<0.0038	<0.0033	<0.0039	<0.0049	<0.0064	<0.0043	<0.0050	<0.0043	<0.0042	<0.0031	<0.0033	<0.0041	<0.0052	<0.0055	<0.0046	<0.0270	<0.0045	<0.0038	<0.0044	<0.0042	<0.0036
n-Propylbenzene	mg/kg	<0.0086	<0.0033	<0.0042	<0.0038	<0.0033	<0.0039	<0.0049	<0.0064	<0.0043	<0.0050	<0.0043	<0.0042	<0.0031	<0.0033	<0.0041	<0.0052	<0.0055	<0.0046	<0.0270	<0.0045	<0.0038	<0.0044	<0.0042	<0.0036
sec-Butylbenzene	mg/kg	<0.0086	<0.0033	<0.0042	<0.0038	<0.0033	<0.0039	<0.0049	<0.0064	<0.0043	<0.0050	<0.0043	<0.0042	<0.0031	<0.0033	<0.0041	<0.0052	<0.0055	<0.0046	<0.0270	<0.0045	<0.0038	<0.0044	<0.0042	<0.0036

J:\170,000-179,999\171521\171521-02.DEL\Supplemental Phase II\Appendices\Appendix H\172521.12 Table 1 2015-12-01.

Table 1
Soil Precharacterization Data

Wynn Resort Casino
Everett, Massachusetts

Analyte	Precharacterization Cell	I16	I16	I16	I16	I16	I16	I17	I17	I17	I17	I17	I17	I17	I17	I17	J08	J08	J08	J08	J08	J08	J08	J08	J08
	Sample ID	I16S06	I16S07	I16S08	I16S09	I16S10	I16S11S12	I17S01S02A	I17S02BS04A	I17S04BS05	I17S06S07A	I17S07BS08	I17S09	I17S10	I17S11	I17S12S13	J08S01S02A	J08S02AS04A	J08S04BS05A	J08S05BS06	J08S07	J08S08	J08S09	J08S10	J08S11S12
	Laboratory Work Order	1502288	1502288	1502288	1502307	1502307	1502307	1502379	1502379	1502379	1502379	1502379	1502379	1502379	1502379	1502379	1501471	1501471	1501471	1501471	1501471	1501471	1501471	1501471	1501471
	Soil Distinction	Natural Organics	Natural Clay	Natural Clay	Natural Clay	Natural Clay	Natural Sand/Gravel	Fill	Fill	Fill	Fill	Natural Clay	Natural Clay	Natural Clay	Natural Sand/Gravel	Natural Sand/Gravel	Fill	Fill	Fill	Natural Organics	Natural Clay	Natural Clay	Natural Clay	Natural Clay	Natural Clay
	Depth Interval (ft.)	10 - 12	14 - 16	19 - 21	24 - 26	29 - 31	34 - 38	0 - 3.3	3.3 - 6.6	6.6 - 10	10 - 13	13 - 16	19 - 21	24 - 26	29 - 31	34 - 38	0 - 3.3	3.3 - 6.6	6.6 - 9	9 - 12	14 - 16	19 - 21	24 - 26	29 - 31	34 - 38
	Sampling Date	2/19/2015	2/19/2015	2/19/2015	2/20/2015	2/20/2015	2/20/2015	2/25/2015	2/25/2015	2/25/2015	2/25/2015	2/25/2015	2/25/2015	2/25/2015	2/25/2015	2/25/2015	1/22/2015	1/22/2015	1/22/2015	1/22/2015	1/22/2015	1/22/2015	1/22/2015	1/22/2015	1/22/2015	1/22/2015
Preliminary Disposal Facility Category		Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type B-1	Uncontaminated	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Restricted	MCP Restricted	Uncontaminated	Uncontaminated	Hazardous Material Type B	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	Uncontaminated
Styrene	mg/kg	<0.0086	<0.0033	<0.0042	<0.0038	<0.0033	<0.0039	<0.0049	<0.0064	<0.0043	<0.0050	<0.0043	<0.0042	<0.0031	<0.0033	<0.0041	<0.0052	<0.0055	<0.0046	<0.0270	<0.0045	<0.0038	<0.0044	<0.0042	<0.0036
tert-Butylbenzene	mg/kg	<0.0086	<0.0033	<0.0042	<0.0038	<0.0033	<0.0039	<0.0049	<0.0064	<0.0043	<0.0050	<0.0043	<0.0042	<0.0031	<0.0033	<0.0041	<0.0052	<0.0055	<0.0046	<0.0270	<0.0045	<0.0038	<0.0044	<0.0042	<0.0036
Tertiary-amyl methyl ether	mg/kg	<0.0086	<0.0033	<0.0042	<0.0038	<0.0033	<0.0039	<0.0049	<0.0064	<0.0043	<0.0050	<0.0043	<0.0042	<0.0031	<0.0033	<0.0041	<0.0052	<0.0055	<0.0046	<0.0270	<0.0045	<0.0038	<0.0044	<0.0042	<0.0036
Tetrachloroethene	mg/kg	<0.0086	<0.0033	<0.0042	<0.0038	<0.0033	<0.0039	<0.0049	<0.0064	<0.0043	<0.0050	<0.0043	<0.0042	<0.0031	<0.0033	<0.0041	<0.0052	<0.0055	<0.0046	<0.0270	<0.0045	<0.0038	<0.0044	<0.0042	<0.0036
Tetrahydrofuran	mg/kg	<0.0086	<0.0033	<0.0042	<0.0038	<0.0033	<0.0039	<0.0049	<0.0064	<0.0043	<0.0050	<0.0043	<0.0042	<0.0031	<0.0033	<0.0041	<0.0052	<0.0055	<0.0046	<0.0270	<0.0045	<0.0038	<0.0044	<0.0042	<0.0036
Toluene	mg/kg	0.0293	<0.0033	<0.0042	<0.0038	<0.0033	<0.0039	<0.0049	<0.0064	<0.0043	<0.0050	<0.0043	<0.0042	<0.0031	<0.0033	<0.0041	<0.0052	<0.0055	<0.0046	<0.0270	<0.0045	<0.0038	<0.0044	<0.0042	<0.0036
trans-1,2-Dichloroethene	mg/kg	<0.0086	<0.0033	<0.0042	<0.0038	<0.0033	<0.0039	<0.0049	<0.0064	<0.0043	<0.0050	<0.0043	<0.0042	<0.0031	<0.0033	<0.0041	<0.0052	<0.0055	<0.0046	<0.0270	<0.0045	<0.0038	<0.0044	<0.0042	<0.0036
trans-1,3-Dichloropropene	mg/kg	<0.0086	<0.0033	<0.0042	<0.0038	<0.0033	<0.0039	<0.0049	<0.0064	<0.0043	<0.0050	<0.0043	<0.0042	<0.0031	<0.0033	<0.0041	<0.0052	<0.0055	<0.0046	<0.0270	<0.0045	<0.0038	<0.0044	<0.0042	<0.0036
Trichloroethene	mg/kg	<0.0086	<0.0033	<0.0042	<0.0038	<0.0033	<0.0039	<0.0049	<0.0064	<0.0043	<0.0050	<0.0043	<0.0042	<0.0031	<0.0033	<0.0041	<0.0052	<0.0055	<0.0046	<0.0270	<0.0045	<0.0038	<0.0044	<0.0042	<0.0036
Trichlorofluoromethane	mg/kg	<0.0086	<0.0033	<0.0042	<0.0038	<0.0033	<0.0039	<0.0049	<0.0064	<0.0043	<0.0050	<0.0043	<0.0042	<0.0031	<0.0033	<0.0041	<0.0052	<0.0055	<0.0046	<0.0270	<0.0045	<0.0038	<0.0044	<0.0042	<0.0036
Vinyl Chloride	mg/kg	<0.0172	<0.0066	<0.0083	<0.0076	<0.0065	<0.0079	<0.0098	<0.0128	<0.0086	<0.0100	<0.0085	<0.0083	<0.0062	<0.0067	<0.0081	<0.0103	<0.0110	<0.0091	<0.0539	<0.0090	<0.0075	<0.0089	<0.0085	<0.0073
Xylene O	mg/kg	<0.0086	<0.0033	<0.0042	<0.0038	<0.0033	<0.0039	<0.0049	<0.0064	<0.0043	<0.0050	<0.0043	<0.0042	<0.0031	<0.0033	<0.0041	<0.0052	<0.0055	<0.0046	<0.0270	<0.0045	<0.0038	<0.0044	<0.0042	<0.0036
Xylene P,M	mg/kg	<0.0172	<0.0066	<0.0083	<0.0076	<0.0065	<0.0079	<0.0098	<0.0128	<0.0086	<0.0100	<0.0085	<0.0083	<0.0062	<0.0067	<0.0081	<0.0103	<0.0110	<0.0091	<0.0539	<0.0090	<0.0075	<0.0089	<0.0085	<0.0073
Xylenes (Total)	mg/kg	<0.0172	<0.0066	<0.0083	<0.0076	<0.0065	<0.0079	<0.0098	<0.0128	<0.0086	<0.0100	<0.0085	<0.0083	<0.0062	<0.0067	<0.0081	<0.0103	<0.0110	<0.0091	<0.0539	<0.0090	<0.0075	<0.0089	<0.0085	<0.0073
Total VOCs (Low Level)	mg/kg	0.0825	0.0181	0.0084	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0166	0.289	0.024	0.0085	0.0125	0.0205	ND
Semi-Volatile Organic Compounds																									
1,2,4-Trichlorobenzene	mg/kg	<1.67	<1.08	<1.07	<1.05	<1.06	<1.03	<0.885	<0.935	<0.928	<1.08	<1.15	<1.06	<1.01	<1.05	<1.03	<4.03	<0.987	<1.05	<3.93	<0.968	<0.989	<0.906	<1.04	<0.913
1,2-Dichlorobenzene	mg/kg	<1.67	<1.08	<1.07	<1.05	<1.06	<1.03	<0.885	<0.935	<0.928	<1.08	<1.15	<1.06	<1.01	<1.05	<1.03	<4.03	<0.987	<1.05	<3.93	<0.968	<0.989	<0.906	<1.04	<0.913
1,3-Dichlorobenzene	mg/kg	<1.67	<1.08	<1.07	<1.05	<1.06	<1.03	<0.885	<0.935	<0.928	<1.08	<1.15	<1.06	<1.01	<1.05	<1.03	<4.03	<0.987	<1.05	<3.93	<0.968	<0.989	<0.906	<1.04	<0.913
1,4-Dichlorobenzene	mg/kg	<0.839	<0.541	<0.535	<0.529	<0.533	<0.515	<0.444	<0.469	<0.465	<0.543	<0.578	<0.530	<0.509	<0.526	<0.515	<2.02	<0.495	<0.525	<1.97	<0.485	<0.496	<0.454	<0.520	<0.458
2,4,5-Trichlorophenol	mg/kg	<1.67	<1.08	<1.07	<1.05	<1.06	<1.03	<0.885	<0.935	<0.928	<1.08	<1.15	<1.06	<1.01	<1.05	<1.03	<4.03	<0.987	<1.05	<3.93	<0.968	<0.989	<0.906	<1.04	<0.913
2,4,6-Trichlorophenol	mg/kg	<1.67	<1.08	<1.07	<1.05	<1.06	<1.03	<0.885	<0.935	<0.928	<1.08	<1.15	<1.06	<1.01	<1.05	<1.03	<4.03	<0.987	<1.05	<3.93	<0.968	<0.989	<0.906	<1.04	<0.913
2,4-Dichlorophenol	mg/kg	<1.67	<1.08	<1.07	<1.05	<1.06	<1.03	<0.885	<0.935	<0.928	<1.08	<1.15	<1.06	<1.01	<1.05	<1.03	<4.03	<0.987	<1.05	<3.93	<0.968	<0.989	<0.906	<1.04	<0.913
2,4-Dimethylphenol	mg/kg	<1.67	<1.08	<1.07	<1.05	<1.06	<1.03	<0.885	<0.935	<0.928	<1.08	<1.15	<1.06	<1.01	<1.05	<1.03	<4.03	<0.987	<1.05	<3.93	<0.968	<0.989	<0.906	<1.04	<0.913
2,4-Dinitrophenol	mg/kg	<8.39	<5.41	<5.35	<5.29	<5.33	<5.15	<4.44	<4.69	<4.65	<5.43	<5.78	<5.30	<5.09	<5.26	<5.15	<20.2	<4.95	<5.25	<19.7	<4.85	<4.96	<4.54	<5.20	<4.58
2,4-Dinitrotoluene	mg/kg	<0.419	<0.271	<0.268	<1.05	<1.06	<1.03	<0.885	<0.935	<0.928	<1.08	<1.15	<1.06	<1.01	<1.05	<1.03	<4.03	<0.987	<1.05	<1.97	<0.968	<0.989	<0.906	<1.04	<0.913
2,6-Dinitrotoluene	mg/kg	<1.67	<1.08	<1.07	<1.05	<1.06	<1.03	<0.885	<0.935	<0.928	<1.08	<1.15	<1.06	<1.01	<1.05	<1.03	<4.03	<0.987	<1.05	<3.93	<0.968	<0.989	<0.906	<1.04	<0.913
2-Chloronaphthalene	mg/kg	<1.67	<1.08	<1.07	<1.05	<1.06	<1.03	<0.885	<0.935	<0.928	<1.08	<1.15	<1.06	<1.01	<1.05	<1.03	<4.03	<0.987	<1.05	<3.93	<0.968	<0.989	<0.906	<1.04	<0.913
2-Chlorophenol	mg/kg	<1.67	<1.08	<1.07	<1.05	<1.06	<1.03	<0.885	<0.935	<0.928	<1.08	<1.15	<1.06	<1.01	<1.05	<1.03	<4.03	<0.987	<1.05	<3.93	<0.968	<0.989	<0.906	<1.04	<0.913
2-Methylnaphthalene	mg/kg	<1.67	<1.08	<1.07	<1.05	<1.06	<1.03	<0.885	<0.935	<0.928	<1.08	<1.15	<1.06	<1.01	<1.05	<1.03	6.87	<0.987	<1.05	<3.93	<0.968	<0.989	<0.906	<1.04	<0.913
2-Methylphenol	mg/kg	<1.67	<1.08	<1.07	<1.05	<1.06	<1.03	<0.885	<0.935	<0.928	<1.08	<1.15	<1.06	<1.01	<1.05	<1.03	<4.03	<0.987	<1.05	<3.93	<0.968	<0.989	<0.906	<1.04	<0.913
2-Nitrophenol	mg/kg	<1.67	<1.08	<1.07	<1.05	<1.06	<1.03	<0.885	<0.935	<0.928	<1.08	<1.15	<1.06	<1.01	<1.05	<1.03	<4.03	<0.987	<1.05	<3.93	<0.968	<0.989	<0.906	<1.04	<0.913
3,3´-Dichlorobenzidine	mg/kg	<3.35	<2.16	<2.14	<2.11	<2.13	<2.06	<1.77	<1.87	<1.86	<2.17	<2.31	<2.12	<2.03	<2.10	<2.06	<8.08	<1.98	<2.10	<7.87	<1.94	<1.98	<1.81	<2.08	<1.83
3+4-Methylphenol	mg/kg	<3.35	<2.16	<2.14	<2.11	<2.13	<2.06	<1.77	<1.87	<1.86	<2.17	<2.31	<2.12	<2.03	<2.10	<2.06	<8.08	<1.98	<2.10	<7.87	<1.94	<1.98	<1.81	<2.08	<1.83
4-Bromophenyl-phenylether	mg/kg	<1.67	<1.08	<1.07	<1.05	<1.06	<1.03	<0.885	<0.935	<0.928	<1.08	<1.15	<1.06	<1.01	<1.05	<1.03	<4.03	<0.987	<1.05	<3.93	<0.968	<0.989	<0.906	<1.04	<0.913
4-Chloroaniline	mg/kg	<3.35	<2.16	<2.14	<2.11	<2.13	<2.06	<1.77	<1.87	<1.86	<2.17	<2.31	<2.12	<2.03	<2.10	<2.06	<2.02	<1.98	<2.10	<7.87	<1.94	<1.98	<1.81	<2.08	<1.83
4-Nitrophenol	mg/kg	<8.39	<5.41	<5.35	<5.29	<5.33	<5.15	<4.44	<4.69	<4.65	<5.43	<5.78	<5.30	<5.09	<5.26	<5.15	<20.2	<4.95	<5.25	<19.7	<4.85	<4.96	<4.54	<5.20	<4.58
Acenaphthene	mg/kg	<1.67	<1.08	<1.07	<1.05	<1.06	<1.03	<0.885	<0.935	<0.928	3.63	<1.15	<1.06	<1.01	<1.05	<1.03	<4.03	<0.987	<1.05	<3.93	<0.968	<0.989	<0.906	<1.04	<0.913
Acenaphthylene	mg/kg	<1.67	<1.08	<1.07	<1.05	<1.06	<1.03	<0.885	<0.935	<0.928	<1.08	<1.15	<1.06	<1.01	<1.05	<1.03	<4.03	<0.987	<1.05	<3.93	<0.968	<0.989	<0.906	<1.04	<0.913
Acetophenone	mg/kg	<3.35	<2.16	<2.14	<2.11	<2.13	<2.06	<1.77	<1.87	<1.86	<2.17	<2.31	<2.12	<2.03	<2.10	<2.06	<8.08	<1.98	<2.10	<7.87	<1.94	<1.98	<1.81	<2.08	<1.83
Aniline	mg/kg	<8.39	<5.41	<5.35	<5.29	<5.33	<5.15	<4.44	<4.69	<4.65	<5.43	<5.78	<5.30	<5.09	<5.26	<5.15	<20.2	<4.95	<5.25	<19.7	<4.85	<4.96	<4.54	<5.20	<4.58
Anthracene	mg/kg	<1.67	<1.08	<1.07	<1.05	<1.06	<1.03	<0.885	<0.935	<0.928	7.31	<1.15	<1.06	<1.01	<1.05	<1.03	4.27	<0.987	<1.05	<3.93	<0.968	<0.989	<0.906	<1.04	<0.913
Azobenzene	mg/kg	<1.67	<1.08	<1.07	<1.05	<1.06	<1.03	<0.885	<0.935	<0.928	<1.08	<1.15	<1.06	<1.01	<1.05	<1.03	<4.03	<0.987	<1.05	<3.93	<0.968	<0.989	<0.906	<1.04	<0.913
Benzo(a)anthracene	mg/kg	<1.67	<1.08	<1.07	<1.05	<1.06	<1.03	<0.885	<0.935	<0.928	11.8	<1.15	<1.06	<1.01	<1.05	<1.03	8.72	<0.987	2.3	<3.93	<0.968	<0.989	<0.906	<1.04	<0.913
Benzo(a)pyrene	mg/kg	<0.839	<0.541	<0.535	<0.529	<0.533	<0.515	<0.444	<0.469	<0.465	8.27	0.774	<0.530	<0.509	<0.526	<0.515	7.47	<0.495	2.2	<1.97	<0.485	<0.496	<0.454	<0.520	<0.458
Benzo(b)fluoranthene	mg/kg	<1.67	<1.08	<1.07	<1.05	<1.06	<1.03	<0.885	<0.935	<0.928	8.6	<1.15	<1.06	<1.01	<1.05	<1.03	8.92	<0.987	2.46	<3.93	<0.968	<0.989	<0.906	<1.04	<0.913
Benzo(g,h,i)perylene	mg/kg	<1.67	<1.08	<1.07	<1.05	<1.06	<1.03	<0.885	<0.935	<0.928	4.85	<1.15	<1.06	<1.01	<1.05	<1.03	<4.03	<0.987	1.24	<3.93	<0.968	<0.989	<0.906	<1.04	<0.913
Benzo(k)fluoranthene	mg/kg	<1.67	<1.08	<1.07	<1.05	<1.06	<1.03	<0.885	<0.935	<0.928	4.26	<1.15	<1.06	<1.01	<1.05	<1.03	<4.03	<0.987	<1.05	<3.93	<0.968	<0.989	<0.906	<1.04	<0.913
bis(2-Chloroethoxy)methane	mg/kg	<1.67	<1.08	<1.07	<1.05	<1.06	<1.03	<0.885	<0.935	<0.928	<1.08	<1.15	<1.06	<1.01	<1.05	<1.03	<4.03	<0.987	<1.05	<3.93	<0.968	<0.989	<0.906	<1.04	<0.913
bis(2-Chloroethyl)ether	mg/kg	<0.166	<0.541	<0.535	<0.529	<0.533	<0.515	<0.444	<0.469	<0.465	<0.543	<0.578	<0.530	<0.509	<0.526	<0.515	<0.400	<0.495	<0.525	<0.389	<0.485	<0.496	<0.454	<0.520	<0.458
bis(2-chloroisopropyl)Ether	mg/kg	<0.166	<0.541	<0.535	<0.529	<0.533	<0.515	<0.444	<0.469	<0.465	<0.543	<0.578	<0.530	<0.509	<0.526	<0.515	<0.400	<0.495	<0.525	<0.389	<0.485	<0.496	<0.454	<0.520	<0.458
bis(2-Ethylhexyl)phthalate	mg/kg	<1.67	<1.08	<1.07	<1.05	<1.06	<1.03	<0.885	<0.935	<0.928	<1.08	<1.15	<1.06	<1.01	<1.05	<1.03	<4.03	<0.987	<1.05	<3.93	<0.968	<0.989	<0.906	<1.04	<0.913
Butylbenzylphthalate	mg/kg	<1.67	<1.08	<1.07	<1.05	<1.06	<1.03	<0.885	<0.935	<0.928	<1.08	<1.15	<1.06	<1.01	<1.05	<1.03	<4.03	<0.987	<1.05	<3.93	<0.968	<0.989	<0.906	<1.04	<0.913
Chrysene	mg/kg	<0.839	<0.541	<0.535	<0.529	<0.533	<0.515	<0.444	<0.469	0.504	9.83	0.814	<0.530	<0.509	<0.526	<0.515	9.1	0.562	2.26	<1.97	<0.485	<0.496	<0.454	<0.520	<0.458
Dibenzo(a,h)Anthracene	mg/kg	<0.839	<0.541	<0.535	<0.529	<0.533	<0.515	<0.444	<0.469	<0.465	<0.543	<0.578	<0.530	<0.509	<0.526	<0.515	<2.02	<0.495	0.625	<1.97	<0.485	<0.496	<0.454	<0.520	<0.458
Dibenzofuran	mg/kg	<1.67	<1.08	<1.07	<1.05	<1.06	<1.03	<0.885	<0.935	<0.928	1.97	<1.15	<1.06	<1.01	<1.05	<1.03	<4.03	<0.987	<1.05	<3.93	<0.968	<0.989	<0.906	<1.04	<0.913
Diethylphthalate	mg/kg	<1.67	<1.08	<1.07	<1.05	<1.06	<1.03	<0.885	<0.935	<0.928	<1.08	<1.15	<1.06	<1.01	<1.05	<1.03	<4.03	<0.987	<1.05	<3.93	<0.968	<0.989	<0.906	<1.04	<0.913
Dimethylphthalate	mg/kg	<1.67	<1.08	<1.07	<1.05	<1.06	<1.03	<0.885	<0.935	<0.928	<1.08	<1.15	<1.06	<1.01	<1.05	<1.03	<4.03	<0.987	<1.05	<3.93	<0.968	<0.989	<0.906	<1.04	<0.913
Di-n-butylphthalate	mg/kg	<1.67	<1.08	<1.07	<1.05	<1.06	<1.03	<0.885	<0.935	<0.928	<1.08	<1.15	<1.06	<1.01	<1.05	<1.03	<4.03	<0.987	<1.05	<3.93	<0.968	<0.989	<0.906	<1.04	<0.913
Di-n-octylphthalate	mg/kg	<1.67	<1.08	<1.07	<1.05	<1.06	<1.03	<0.885	<0.935	<0.928	<1.08	<1.15	<1.06	<1.01	<1.05	<1.03	<4.03	<0.987	<1.05	<3.93	<0.968	<0.989	<0.906	<1.04	<0.913
Fluoranthene	mg/kg	<1.67	<1.08	<1.07	<1.05	<1.06	<1.03	<0.885	<0.935	1.07	22.6	2.1	<1.06	<1.01	<1.05	<1.03	16.6	<0.987	3.88	<3.93	<0.968	<0.989	<0.906	<1.04	<0.913
Fluorene	mg/kg	<1.67	<1.08	<1.07	<1.05	<1.06	<1.03	<0.885	<0.935	<0.928	3.32	<1.15	<1.06	<1.01	<1.05	<1.03	4.78	<0.987	<1.05	<3.93	<0.968	<0.989	<0.906	<1.04	<0.913
Hexachlorobenzene	mg/kg	<0.839	<0.541	<0.535	<0.529	<0.533	<0.515	<0.444	<0.469	<0.465	<0.543	<0.578	<0.530	<0.509	<0.526	<0.515	<2.02	<0.495	<0.525	<1.97	<0.485	<0.496	<0.454	<0.520	<0.458
Hexachlorobutadiene	mg/kg	<1.67	<1.08	<1.07	<1.05	<1.06	<1.03	<0.885	<0.935	<0.928	<1.08	<1.15	<1.06	<1.01	<1.05	<1.03	<4.03	<0.987	<1.05	<3.93	<0.968	<0.989	<0.906	<1.04	<0.913
Hexachloroethane	mg/kg	<1.67	<1.08	<1.07	<1.05	<1.06	<1.03	<0.885	<0.935	<0.928	<1.08	<1.15	<1.06	<1.01	<1.05	<1.03	<2.02	<0.987	<1.05	<1.97	<0.968	<0.989	<0.906	<1.04	<0.913
Indeno(1,2,3-cd)Pyrene	mg/kg	<1.67	<1.08	<1.07	<1.05	<1.06	<1.03	<0.885	<0.935	<0.928	4.42	<1.15	<1.06	<1.01	<1.05	<1.03	<4.03	<0.987	1.15	<3.93	<0.968	<0.989	<0.906	<1.04	<0.913
Isophorone	mg/kg	<1.67	<1.08	<1.07	<1.05	<1.06	<1.03	<0.885	<0.935	<0.928	<1.08	<1.15	<1.06	<1.01	<1.05	<1.03	<4.03	<0.987	<1.05	<3.93	<0.968	<0.989	<0.906	<1.04	<0.913
Naphthalene	mg/kg	<1.67	<1.08	<1.07	<1.05	<1.06	<1.03	<0.885	<0.935	<0.928	<1.08	<1.15	<1.06	<1.01	<1.05	<1.03	4.44	<0.987	<1.05	<3.93	<0.968	<0.989	<0.906	<1.04	<0.913
Nitrobenzene	mg/kg	<1.67	<1.08	<1.07	<1.05	<1.06	<1.03	<0.885	<0.935	<0.928	<1.08	<1.15	<1.06	<1.01	<1.05	<1.03	<4.03	<0.987	<1.05	<3.93	<0.968	<0.989	<0.906	<1.04	<0.913
N-Nitrosodimethylamine	mg/kg	<1.67	<1.08	<1.07	<1.05	<1.06	<1.03	<0.885	<0.935	<0.928	<1.08	<1.15	<1.06	<1.01	<1.05	<1.03	<4.03	<0.987	<1.05	<3.93	<0.968	<0.989	<0.906	<1.04	<0.913
Pentachlorophenol	mg/kg	<8.39	<5.41	<5.35	<5.29	<5.33	<5.15	<4.44	<4.69	<4.65	<5.43	<5.78	<5.30	<5.09	<5.26	<5.15	<4.03	<4.95	<5.25	<3.93	<4.85	<4.96	<4.54	<5.20	<4.58
Phenanthrene	mg/kg	<1.67	<1.08	<1.07	<1.05	<1.06	<1.03	<0.885	<0.935	1.28	25.8	2.08	<1.06	<1.01	<1.05	<1.03	20.8	<0.987	1.34	<3.93	<0.968	<0.989	<0.906	<1.04	<0.913
Phenol	mg/kg	<1.67	<1.08	<1.07	<1.05	<1.06	<1.03	<0.885	<0.935	<0.928	<1.08	<1.15	<1.06	<1.01	<1.05	<1.03	<4.03	<0.987	<1.05	<3.93	<0.968	<0.989	<0.906	<1.04	<0.913
Pyrene	mg/kg	<1.67	<1.08	<1.07	<1.05	<1.06	<1.03	<0.885	<0.935	0.934	19.6	1.32	<1.06	<1.01	<1.05	<1.03	18.3	<0.987	3.68	<3.93	<0.968	<0.989	<0.906	<1.04	<0.913
Total SVOCs	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	3.788	136.26	7.088	ND	ND	ND	ND	110.27	0.562	21.135	ND	ND	ND	ND	ND	ND
Classic Chemistry																									
Corrosivity (pH)	S.U.	7.58	7.07	6.95	7.35	7.4	7.06	8.44	7.91	7.71	6.49	6.31	7.36	7.31	6.54	5.34	7.79	7.74	7.05	8.16	8.19	7.38	7.19	7.17	7.52
Conductivity	umhos/cm	366	656	2370	3490	4460	1400	380	1050	1840	343	776	1870	1010	749	754	354	220	1220	5410	2630	4240	2050	1990	1390
Flashpoint	°F	--	--	--	--	--	--	>200	>200	>200	>200	--	--	--	--	--	>200	>200	>200	--	--	--	--	--	--
Reactive Cyanide	mg/kg	--	--	--	--	--	--	<2.0	<2.0	<2.0	<2.0	--	--	--	--	--	<2.0	<2.0	<2.0	--	--	--	--	--	--
Reactive Sulfide	mg/kg	--	--	--	--	--	--	<2.0	<2.0	<2.0	<2.0	--	--	--	--	--	<2.0	<2.0	<2.0	--	--	--	--	--	--

Table 1
Soil Precharacterization Data

Wynn Resort Casino
Everett, Massachusetts

Analyte	Precharacterization Cell	J09	J09	J09	J09	J09	J09	J09	J09	J09	J10	J10	J10	J10	J10	J10	J10	J10	J11	J11	J11	J11	J11	J11
	Sample ID	J09S01S02A	J09S02BS04A	J09S04BS05	J09S06	J09S07	J09S08	J09S09	J09S10	J09S11S12	J10S01S02A	J10S02BS03	J10S04S05	J10S07	J10S09	J10S10	J10S11	J10S12	J10S13S14	J11S01S02A	J11S02BS04A	J11S04BS05	J11S06	J11S07
	Laboratory Work Order	1501491	1501491	1501491	1501491	1501491	1501491	1501491	1501491	1501491	1502078	1502078	1502078	1503241	1503241	1503241	1503241	1503241	1503241	1501390	1501390	1501390	1501390	1501390
	Soil Distinction	Fill	Fill	Fill	Natural Organics	Natural Clay	Natural Clay	Natural Clay	Natural Clay	Natural Clay	Fill	Fill	Fill	Natural Clay	Natural Clay	Natural Clay	Natural Clay	Natural Clay	Natural Clay	Fill	Fill	Fill	Fill	Natural Sand/Gravel
	Soil Type																							
	Depth Interval (ft.)	0 - 3.33	3.33 - 6.66	6.66 - 10	10 - 12	14 - 16	19 - 21	24 - 26	29 - 31	34 - 38	0 - 3.3	3.3 - 6	6 - 10	12 - 14	16 - 18	19 - 21	24 - 26	29 - 31	34 - 38	0 - 3.3	3.3 - 6.6	6.6 - 10	10 - 12	12 - 14
	Sampling Date	1/23/2015	1/23/2015	1/23/2015	1/23/2015	1/23/2015	1/23/2015	1/23/2015	1/23/2015	1/23/2015	2/5/2015	2/5/2015	2/5/2015	3/12/2015	3/12/2015	3/12/2015	3/12/2015	3/12/2015	3/12/2015	1/20/2015	1/20/2015	1/20/2015	1/20/2015	1/20/2015
Preliminary Disposal Facility Category		MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Material Type B-2	MCP Regulated Type A	MCP Regulated Type A
RCRA 8 Metals	**Units**																							
Arsenic	mg/kg	22.3	33	10.3	<25.1	8.74	<6.90	11.2	<6.49	<6.79	19.6	6.35	39.9	<11.5	12.3	10.4	<7.54	12.2	8.89	13.6	12.2	20.2	16.3	<29.3
Barium	mg/kg	71.3	71.8	24.3	<25.1	57	43.2	26.2	57.4	<6.79	37.7	52.9	77.9	16.8	117	84.3	104	110	65.5	27	34.3	39.6	44.8	44.9
Cadmium	mg/kg	<1.56	<1.67	<1.61	<5.02	<1.67	<1.38	<1.53	<1.30	<1.36	<1.41	<1.15	<1.62	<2.29	<1.66	<1.56	<1.51	<1.70	<1.60	<1.36	<1.32	2.16	5.84	<5.87
Chromium	mg/kg	29.8	35.3	13.8	19.1	38.5	34.6	21.8	29.4	4.9	25.4	35.1	94.6	17.2	48.5	161	47.9	35.7	35.4	20.9	40	28.6	13	48.3
Lead	mg/kg	354	150	53.9	<50.2	<16.7	<13.8	<15.3	<13.0	<13.6	178	300	457	<22.9	<16.6	37.8	15.2	<17.0	<16.0	48.6	175	548	292	<58.7
Selenium	mg/kg	<15.6	<8.37	<16.1	<12.6	<8.34	<6.90	<7.65	<6.49	<13.6	<7.05	<5.74	<8.10	<11.5	<8.29	<7.81	<7.54	<8.49	<7.99	<6.79	<6.62	<7.02	<8.35	<14.7
Silver	mg/kg	<1.56	<1.67	<1.61	<5.02	<1.67	<1.38	<1.53	<1.30	<1.36	<1.41	<1.15	<1.62	<2.29	<1.66	<1.56	<1.51	<1.70	<1.60	<1.36	<1.32	<1.40	<1.67	<5.87
Mercury	mg/kg	0.523	0.216	0.051	<0.154	<0.042	<0.040	<0.039	<0.031	<0.034	0.08	0.387	1.05	<0.052	<0.039	<0.037	<0.035	<0.035	<0.034	0.045	0.132	0.152	0.204	<0.111
Metals by Toxicity Characteristic Leaching Procedure (TCLP)																								
Arsenic	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.200	--	--	--	--	--	--	--	--
Lead	mg/L	<0.050	<0.050	--	--	--	--	--	--	--	0.24	0.443	0.65	--	--	--	--	--	--	--	2.3	10.3	2.19	--
Selenium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Herbicides																								
2,4,5-T	mg/kg	<0.29	<0.064	<0.061	--	--	--	--	--	<0.054	<0.045	<0.089	<0.11	--	--	--	--	--	--	<0.042	<0.21	<0.24	<0.26	--
2,4-D	mg/kg	<0.29	<0.064	<0.061	--	--	--	--	--	<0.054	<0.22	<0.44	<0.53	--	--	--	--	--	--	<0.21	<1.1	<1.2	<1.3	--
2,4-DB	mg/kg	<0.29	<0.064	<0.061	--	--	--	--	--	<0.054	<0.017	<0.033	<0.040	--	--	--	--	--	--	<0.016	<0.079	<0.090	<0.097	--
Dalapon	mg/kg	<3.5	<0.77	<0.73	--	--	--	--	--	<0.65	<1.3	<2.7	<3.2	--	--	--	--	--	--	<1.2	<6.4	<7.2	<7.8	--
Dicamba	mg/kg	<0.29	<0.064	<0.061	--	--	--	--	--	<0.054	<0.067	<0.13	<0.16	--	--	--	--	--	--	<0.062	<0.32	<0.36	<0.39	--
Dichlorprop	mg/kg	<0.29	<0.064	<0.061	--	--	--	--	--	<0.054	<0.15	<0.29	<0.35	--	--	--	--	--	--	<0.14	<0.69	<0.78	<0.84	--
Dinoseb	mg/kg	<1.7	<0.39	<0.37	--	--	--	--	--	<0.32	<0.22	<0.44	<0.53	--	--	--	--	--	--	<0.21	<1.1	<1.2	<1.3	--
MCPA	mg/kg	<69	<15	<15	--	--	--	--	--	<13	<56	<110	<130	--	--	--	--	--	--	<52	<260	<300	<320	--
MCPP	mg/kg	<69	<15	<15	--	--	--	--	--	<13	<56	<110	<130	--	--	--	--	--	--	<52	<260	<300	<320	--
Silvex (2,4,5-TP)	mg/kg	<0.29	<0.064	<0.061	--	--	--	--	--	<0.054	<0.045	<0.089	<0.11	--	--	--	--	--	--	<0.042	<0.21	<0.24	<0.26	--
Pesticides																								
4,4'-DDD	mg/kg	<0.0043	<0.0046	<0.0042	--	--	--	--	--	<0.0018	<0.0037	<0.0037	<0.0045	--	--	--	--	--	--	<0.017	<0.018	<0.020	<0.011	--
4,4'-DDE	mg/kg	<0.0043	<0.0046	<0.0042	--	--	--	--	--	<0.0018	<0.0037	<0.0037	<0.0045	--	--	--	--	--	--	<0.017	<0.018	<0.020	<0.011	--
4,4'-DDT	mg/kg	<0.0043	<0.0046	<0.0042	--	--	--	--	--	<0.0018	<0.0037	<0.0037	<0.0045	--	--	--	--	--	--	<0.017	<0.018	<0.020	<0.011	--
Aldrin	mg/kg	<0.0043	<0.0046	<0.0042	--	--	--	--	--	<0.0018	<0.0037	<0.0037	<0.0045	--	--	--	--	--	--	<0.017	<0.018	<0.020	<0.011	--
alpha-BHC	mg/kg	<0.0043	<0.0046	<0.0042	--	--	--	--	--	<0.0018	<0.0037	<0.0037	<0.0045	--	--	--	--	--	--	<0.017	<0.018	<0.020	<0.011	--
beta-BHC	mg/kg	<0.0043	<0.0046	<0.0042	--	--	--	--	--	<0.0018	<0.0037	<0.0037	<0.0045	--	--	--	--	--	--	<0.017	<0.018	<0.020	<0.011	--
Chlordane (technical)	mg/kg	<0.043	<0.046	<0.042	--	--	--	--	--	<0.018	<0.037	<0.037	<0.045	--	--	--	--	--	--	<0.51	<0.52	<0.59	<0.32	--
delta-BHC	mg/kg	<0.0043	<0.0046	<0.0042	--	--	--	--	--	<0.0018	<0.0037	<0.0037	<0.0045	--	--	--	--	--	--	<0.017	<0.018	<0.020	<0.011	--
Dieldrin	mg/kg	<0.0043	<0.0046	<0.0042	--	--	--	--	--	<0.0018	<0.0037	<0.0037	<0.0045	--	--	--	--	--	--	<0.017	<0.018	<0.020	<0.011	--
Endosulfan I	mg/kg	<0.0043	<0.0046	<0.0042	--	--	--	--	--	<0.0018	<0.0037	<0.0037	<0.0045	--	--	--	--	--	--	<0.017	<0.018	<0.020	<0.011	--
Endosulfan II	mg/kg	<0.0043	<0.0046	<0.0042	--	--	--	--	--	<0.0018	<0.0037	<0.0037	<0.0045	--	--	--	--	--	--	<0.017	<0.018	<0.020	<0.011	--
Endosulfan sulfate	mg/kg	<0.0043	<0.0046	<0.0042	--	--	--	--	--	<0.0018	<0.0037	<0.0037	<0.0045	--	--	--	--	--	--	<0.017	<0.018	<0.020	<0.011	--
Endrin	mg/kg	<0.0043	<0.0046	<0.0042	--	--	--	--	--	<0.0018	<0.0037	<0.0037	<0.0045	--	--	--	--	--	--	<0.017	<0.018	<0.020	<0.011	--
Endrin ketone	mg/kg	<0.0043	<0.0046	<0.0042	--	--	--	--	--	<0.0018	<0.0037	<0.0037	<0.0045	--	--	--	--	--	--	<0.017	0.1	<0.020	<0.011	--
gamma-BHC (Lindane)	mg/kg	<0.0043	<0.0046	<0.0042	--	--	--	--	--	<0.0018	<0.0037	<0.0037	<0.0045	--	--	--	--	--	--	<0.017	<0.018	<0.020	<0.011	--
Heptachlor	mg/kg	<0.0043	<0.0046	<0.0042	--	--	--	--	--	<0.0018	<0.0037	<0.0037	<0.0045	--	--	--	--	--	--	<0.017	<0.018	<0.020	<0.011	--
Heptachlor epoxide	mg/kg	<0.0043	<0.0046	<0.0042	--	--	--	--	--	<0.0018	<0.0037	<0.0037	<0.0045	--	--	--	--	--	--	<0.017	<0.018	<0.020	<0.011	--
Hexachlorobenzene	mg/kg	<0.0043	<0.0046	<0.0042	--	--	--	--	--	<0.0018	<0.0037	<0.0037	<0.0045	--	--	--	--	--	--	<0.017	<0.018	<0.020	<0.011	--
Methoxychlor	mg/kg	<0.0043	<0.0046	<0.0042	--	--	--	--	--	<0.0018	<0.0037	<0.0037	<0.0045	--	--	--	--	--	--	<0.034	<0.034	<0.039	<0.021	--
Polychlorinated Biphenyls																								
Aroclor 1016	mg/kg	<0.146	<0.147	<0.147	<0.611	<0.147	<0.145	<0.152	<0.150	<0.129	<0.134	<0.136	<0.161	<0.222	<0.157	<0.161	<0.156	<0.159	<0.158	<0.135	<0.141	<0.146	<0.154	<0.543
Aroclor 1221	mg/kg	<0.146	<0.147	<0.147	<0.611	<0.147	<0.145	<0.152	<0.150	<0.129	<0.134	<0.136	<0.161	<0.222	<0.157	<0.161	<0.156	<0.159	<0.158	<0.135	<0.141	<0.146	<0.154	<0.543
Aroclor 1232	mg/kg	<0.146	<0.147	<0.147	<0.611	<0.147	<0.145	<0.152	<0.150	<0.129	<0.134	<0.136	<0.161	<0.222	<0.157	<0.161	<0.156	<0.159	<0.158	<0.135	<0.141	<0.146	<0.154	<0.543
Aroclor 1242	mg/kg	<0.146	<0.147	<0.147	<0.611	<0.147	<0.145	<0.152	<0.150	<0.129	<0.134	<0.136	<0.161	<0.222	<0.157	<0.161	<0.156	<0.159	<0.158	<0.135	<0.141	<0.146	<0.154	<0.543
Aroclor 1248	mg/kg	<0.146	<0.147	<0.147	<0.611	<0.147	<0.145	<0.152	<0.150	<0.129	<0.134	<0.136	<0.161	<0.222	<0.157	<0.161	<0.156	<0.159	<0.158	<0.135	<0.141	<0.146	<0.154	<0.543
Aroclor 1254	mg/kg	<0.146	<0.147	<0.147	<0.611	<0.147	<0.145	<0.152	<0.150	<0.129	<0.134	2.39	<0.161	<0.222	<0.157	<0.161	<0.156	<0.159	<0.158	<0.135	0.756	0.465	<0.154	<0.543
Aroclor 1260	mg/kg	<0.146	<0.147	<0.147	<0.611	<0.147	<0.145	<0.152	<0.150	<0.129	<0.134	0.417	<0.161	<0.222	<0.157	<0.161	<0.156	<0.159	<0.158	<0.135	0.227	<0.146	<0.154	<0.543
Aroclor 1262	mg/kg	<0.146	<0.147	<0.147	<0.611	<0.147	<0.145	<0.152	<0.150	<0.129	<0.134	<0.136	<0.161	<0.222	<0.157	<0.161	<0.156	<0.159	<0.158	<0.135	<0.141	0.189	<0.154	<0.543
Aroclor 1268	mg/kg	<0.146	<0.147	<0.147	<0.611	<0.147	<0.145	<0.152	<0.150	<0.129	<0.134	<0.136	<0.161	<0.222	<0.157	<0.161	<0.156	<0.159	<0.158	<0.135	<0.141	<0.146	<0.154	<0.543
Total PCBs	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.807	ND	ND	ND	ND	ND	ND	ND	ND	0.983	0.654	ND	ND
Total Petroleum Hydrocarbons	mg/kg	386	482	273	2120	<47.9	<46.9	<45.7	<41.2	<42.8	239	310	876	<67.9	<49.2	<46.6	<49.0	<49.4	<50.3	98.7	198	826	346	571
Volatile Organic Compounds (VOCs)																								
1,1,1,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.101	--	--
1,1,1-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0505	--	--
1,1,2,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0505	--	--
1,1,2-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0505	--	--
1,1-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0505	--	--
1,1-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0505	--	--
1,1-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0505	--	--
1,2,3-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0505	--	--
1,2,3-Trichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0505	--	--
1,2,4-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0505	--	--
1,2,4-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0505	--	--
1,2-Dibromo-3-Chloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.202	--	--
1,2-Dibromoethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0505	--	--
1,2-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0505	--	--
1,2-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0505	--	--
1,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0505	--	--
1,3,5-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0505	--	--
1,3-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0505	--	--
1,3-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0505	--	--
1,4-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0505	--	--
1,4-Dioxane - Screen	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<5.05	--	--
2,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.101	--	--
2-Butanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.202	--	--
2-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0505	--	--
2-Hexanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.202	--	--
4-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0505	--	--
4-Isopropyltoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0505	--	--
4-Methyl-2-Pentanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.202	--	--
Acetone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.276	--	--
Benzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0505	--	--
Bromobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0505	--	--
Bromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0505	--	--
Bromodichloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0505	--	--
Bromoform	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0505	--	--
Bromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.101	--	--
Carbon Disulfide	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0505	--	--
Carbon Tetrachloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0505	--	--

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	J09 J09S01S02A 1501491 Fill 0 - 3.33 1/23/2015	J09 J09S02BS04A 1501491 Fill 3.33 - 6.66 1/23/2015	J09 J09S04BS05 1501491 Fill 6.66 - 10 1/23/2015	J09 J09S06 1501491 Natural Organics 10 - 12 1/23/2015	J09 J09S07 1501491 Natural Clay 14 - 16 1/23/2015	J09 J09S08 1501491 Natural Clay 19 - 21 1/23/2015	J09 J09S09 1501491 Natural Clay 24 - 26 1/23/2015	J09 J09S10 1501491 Natural Clay 29 - 31 1/23/2015	J09 J09S11S12 1501491 Natural Clay 34 - 38 1/23/2015	J10 J10S01S02A 1502078 Fill 0 - 3.3 2/5/2015	J10 J10S02BS03 1502078 Fill 3.3 - 6 2/5/2015	J10 J10S04S05 1502078 Fill 6 - 10 2/5/2015	J10 J10S07 1503241 Natural Clay 12 - 14 3/12/2015	J10 J10S09 1503241 Natural Clay 16 - 18 3/12/2015	J10 J10S10 1503241 Natural Clay 19 - 21 3/12/2015	J10 J10S11 1503241 Natural Clay 24 - 26 3/12/2015	J10 J10S12 1503241 Natural Clay 29 - 31 3/12/2015	J10 J10S13S14 1503241 Natural Clay 34 - 38 3/12/2015	J11 J11S01S02A 1501390 Fill 0 - 3.3 1/20/2015	J11 J11S02BS04A 1501390 Fill 3.3 - 6.6 1/20/2015	J11 J11S04BS05 1501390 Fill 6.6 - 10 1/20/2015	J11 J11S06 1501390 Fill 10 - 12 1/20/2015	J11 J11S07 1501390 Natural Sand/Gravel 12 - 14 1/20/2015	J11 J11S08 1501390 Natural Clay 14 - 16 1/20/2015
Preliminary Disposal Facility Category		MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Material Type B-2	MCP Regulated Type A	MCP Regulated Type A	MCP Restricted
Chlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0505	--	--	<0.0544
Chloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.101	--	--	<0.109
Chloroform	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0505	--	--	<0.0544
Chloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.101	--	--	<0.109
cis-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0505	--	--	<0.0544
cis-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0505	--	--	<0.0544
Dibromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0505	--	--	<0.0544
Dibromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0505	--	--	<0.0544
Dichlorodifluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0505	--	--	<0.0544
Diethyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0505	--	--	<0.0544
Di-isopropyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0505	--	--	<0.0544
Ethyl tertiary-butyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0505	--	--	<0.0544
Ethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0505	--	--	<0.0544
Hexachlorobutadiene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0505	--	--	<0.0544
Isopropylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0505	--	--	<0.0544
Methyl tert-Butyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0505	--	--	<0.0544
Methylene Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.202	--	--	<0.218
Naphthalene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0505	--	--	<0.0544
n-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0505	--	--	<0.0544
n-Propylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0505	--	--	<0.0544
sec-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0505	--	--	<0.0544
Styrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0505	--	--	<0.0544
tert-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0505	--	--	<0.0544
Tertiary-amyl methyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0505	--	--	<0.0544
Tetrachloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0505	--	--	<0.0544
Tetrahydrofuran	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.202	--	--	<0.218
Toluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0505	--	--	<0.0544
trans-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0505	--	--	<0.0544
trans-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0505	--	--	<0.0544
Trichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0505	--	--	<0.0544
Trichlorofluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0505	--	--	<0.0544
Vinyl Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0505	--	--	<0.0544
Xylene O	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0505	--	--	<0.0544
Xylene P,M	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.101	--	--	<0.109
Xylenes (Total)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.101	--	--	<0.109
Total VOCs	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.276	--	--	ND
Volatile Organic Compounds - Low Level Analysis																									
1,1,1,2-Tetrachloroethane	mg/kg	<0.0042	<0.0052	<0.0033	<0.0422	<0.0049	<0.0054	<0.0029	<0.0056	<0.0033	<0.0046	<0.0045	<0.0061	<0.0115	<0.0047	<0.0045	<0.0077	<0.0070	<0.0048	<0.0062	<0.0065	<0.0029	<0.0050	<0.0219	--
1,1,1-Trichloroethane	mg/kg	<0.0042	<0.0052	<0.0033	<0.0422	<0.0049	<0.0054	<0.0029	<0.0056	<0.0033	<0.0046	<0.0045	<0.0061	<0.0115	<0.0047	<0.0045	<0.0077	<0.0070	<0.0048	<0.0062	<0.0065	<0.0029	<0.0050	<0.0219	--
1,1,2,2-Tetrachloroethane	mg/kg	<0.0017	<0.0021	<0.0013	<0.0169	<0.0020	<0.0022	<0.0012	<0.0022	<0.0013	<0.0018	<0.0018	<0.0024	<0.0046	<0.0019	<0.0018	<0.0031	<0.0028	<0.0019	<0.0025	<0.0026	<0.0012	<0.0020	<0.0087	--
1,1,2-Trichloroethane	mg/kg	<0.0042	<0.0052	<0.0033	<0.0422	<0.0049	<0.0054	<0.0029	<0.0056	<0.0033	<0.0046	<0.0045	<0.0061	<0.0115	<0.0047	<0.0045	<0.0077	<0.0070	<0.0048	<0.0062	<0.0065	<0.0029	<0.0050	<0.0219	--
1,1-Dichloroethane	mg/kg	<0.0042	<0.0052	<0.0033	<0.0422	<0.0049	<0.0054	<0.0029	<0.0056	<0.0033	<0.0046	<0.0045	<0.0061	<0.0115	<0.0047	<0.0045	<0.0077	<0.0070	<0.0048	<0.0062	<0.0065	<0.0029	<0.0050	<0.0219	--
1,1-Dichloroethene	mg/kg	<0.0042	<0.0052	<0.0033	<0.0422	<0.0049	<0.0054	<0.0029	<0.0056	<0.0033	<0.0046	<0.0045	<0.0061	<0.0115	<0.0047	<0.0045	<0.0077	<0.0070	<0.0048	<0.0062	<0.0065	<0.0029	<0.0050	<0.0219	--
1,1-Dichloropropene	mg/kg	<0.0042	<0.0052	<0.0033	<0.0422	<0.0049	<0.0054	<0.0029	<0.0056	<0.0033	<0.0046	<0.0045	<0.0061	<0.0115	<0.0047	<0.0045	<0.0077	<0.0070	<0.0048	<0.0062	<0.0065	<0.0029	<0.0050	<0.0219	--
1,2,3-Trichlorobenzene	mg/kg	<0.0042	<0.0052	<0.0033	<0.0422	<0.0049	<0.0054	<0.0029	<0.0056	<0.0033	<0.0046	<0.0045	<0.0061	<0.0115	<0.0047	<0.0045	<0.0077	<0.0070	<0.0048	<0.0062	<0.0065	<0.0029	<0.0050	<0.0219	--
1,2,3-Trichloropropane	mg/kg	<0.0042	<0.0052	<0.0033	<0.0422	<0.0049	<0.0054	<0.0029	<0.0056	<0.0033	<0.0046	<0.0045	<0.0061	<0.0115	<0.0047	<0.0045	<0.0077	<0.0070	<0.0048	<0.0062	<0.0065	<0.0029	<0.0050	<0.0219	--
1,2,4-Trichlorobenzene	mg/kg	<0.0042	<0.0052	<0.0033	<0.0422	<0.0049	<0.0054	<0.0029	<0.0056	<0.0033	<0.0046	<0.0045	<0.0061	<0.0115	<0.0047	<0.0045	<0.0077	<0.0070	<0.0048	<0.0062	<0.0065	<0.0029	<0.0050	<0.0219	--
1,2,4-Trimethylbenzene	mg/kg	<0.0042	<0.0052	<0.0033	<0.0422	<0.0049	<0.0054	<0.0029	<0.0056	<0.0033	<0.0046	<0.0045	<0.0061	<0.0115	<0.0047	<0.0045	<0.0077	<0.0070	<0.0048	<0.0062	<0.0065	<0.0029	<0.0050	<0.0219	--
1,2-Dibromo-3-Chloropropane	mg/kg	<0.0042	<0.0052	<0.0033	<0.0422	<0.0049	<0.0054	<0.0029	<0.0056	<0.0033	<0.0046	<0.0045	<0.0061	<0.0115	<0.0047	<0.0045	<0.0077	<0.0070	<0.0048	<0.0062	<0.0065	<0.0029	<0.0050	<0.0219	--
1,2-Dibromoethane	mg/kg	<0.0042	<0.0052	<0.0033	<0.0422	<0.0049	<0.0054	<0.0029	<0.0056	<0.0033	<0.0046	<0.0045	<0.0061	<0.0115	<0.0047	<0.0045	<0.0077	<0.0070	<0.0048	<0.0062	<0.0065	<0.0029	<0.0050	<0.0219	--
1,2-Dichlorobenzene	mg/kg	<0.0042	<0.0052	<0.0033	<0.0422	<0.0049	<0.0054	<0.0029	<0.0056	<0.0033	<0.0046	<0.0045	<0.0061	<0.0115	<0.0047	<0.0045	<0.0077	<0.0070	<0.0048	<0.0062	<0.0065	<0.0029	<0.0050	<0.0219	--
1,2-Dichloroethane	mg/kg	<0.0042	<0.0052	<0.0033	<0.0422	<0.0049	<0.0054	<0.0029	<0.0056	<0.0033	<0.0046	<0.0045	<0.0061	<0.0115	<0.0047	<0.0045	<0.0077	<0.0070	<0.0048	<0.0062	<0.0065	<0.0029	<0.0050	<0.0219	--
1,2-Dichloropropane	mg/kg	<0.0042	<0.0052	<0.0033	<0.0422	<0.0049	<0.0054	<0.0029	<0.0056	<0.0033	<0.0046	<0.0045	<0.0061	<0.0115	<0.0047	<0.0045	<0.0077	<0.0070	<0.0048	<0.0062	<0.0065	<0.0029	<0.0050	<0.0219	--
1,3,5-Trimethylbenzene	mg/kg	<0.0042	<0.0052	<0.0033	<0.0422	<0.0049	<0.0054	<0.0029	<0.0056	<0.0033	<0.0046	<0.0045	<0.0061	<0.0115	<0.0047	<0.0045	<0.0077	<0.0070	<0.0048	<0.0062	<0.0065	<0.0029	<0.0050	<0.0219	--
1,3-Dichlorobenzene	mg/kg	<0.0042	<0.0052	<0.0033	<0.0422	<0.0049	<0.0054	<0.0029	<0.0056	<0.0033	<0.0046	<0.0045	<0.0061	<0.0115	<0.0047	<0.0045	<0.0077	<0.0070	<0.0048	<0.0062	<0.0065	<0.0029	<0.0050	<0.0219	--
1,3-Dichloropropane	mg/kg	<0.0042	<0.0052	<0.0033	<0.0422	<0.0049	<0.0054	<0.0029	<0.0056	<0.0033	<0.0046	<0.0045	<0.0061	<0.0115	<0.0047	<0.0045	<0.0077	<0.0070	<0.0048	<0.0062	<0.0065	<0.0029	<0.0050	<0.0219	--
1,4-Dichlorobenzene	mg/kg	<0.0042	<0.0052	<0.0033	<0.0422	<0.0049	<0.0054	<0.0029	<0.0056	<0.0033	<0.0046	<0.0045	<0.0061	<0.0115	<0.0047	<0.0045	<0.0077	<0.0070	<0.0048	<0.0062	<0.0065	<0.0029	<0.0050	<0.0219	--
1,4-Dioxane	mg/kg	<0.0837	<0.104	<0.0662	<0.845	<0.0988	<0.108	<0.0583	<0.112	<0.0665	<0.0919	<0.0906	<0.121	<0.230	<0.0933	<0.0900	<0.153	<0.140	<0.0958	<0.125	<0.131	<0.0577	<0.0998	<0.437	--
2,2-Dichloropropane	mg/kg	<0.0042	<0.0052	<0.0033	<0.0422	<0.0049	<0.0054	<0.0029	<0.0056	<0.0033	<0.0046	<0.0045	<0.0061	<0.0115	<0.0047	<0.0045	<0.0077	<0.0070	<0.0048	<0.0062	<0.0065	<0.0029	<0.0050	<0.0219	--
2-Butanone	mg/kg	<0.0084	<0.0104	<0.0066	<0.0845	<0.0099	<0.0108	<0.0058	<0.0112	<0.0066	<0.0092	<0.0091	<0.0121	0.0384	<0.0093	<0.0090	<0.0153	<0.0140	<0.0096	<0.0125	<0.0131	<0.0058	<0.0100	<0.0437	--
2-Chlorotoluene	mg/kg	<0.0042	<0.0052	<0.0033	<0.0422	<0.0049	<0.0054	<0.0029	<0.0056	<0.0033	<0.0046	<0.0045	<0.0061	<0.0115	<0.0047	<0.0045	<0.0077	<0.0070	<0.0048	<0.0062	<0.0065	<0.0029	<0.0050	<0.0219	--
2-Hexanone	mg/kg	<0.0084	<0.0104	<0.0066	<0.0845	<0.0099	<0.0108	<0.0058	<0.0112	<0.0066	<0.0092	<0.0091	<0.0121	<0.0230	<0.0093	<0.0090	<0.0153	<0.0140	<0.0096	<0.0125	<0.0131	<0.0058	<0.0100	<0.0437	--
4-Chlorotoluene	mg/kg	<0.0042	<0.0052	<0.0033	<0.0422	<0.0049	<0.0054	<0.0029	<0.0056	<0.0033	<0.0046	<0.0045	<0.0061	<0.0115	<0.0047	<0.0045	<0.0077	<0.0070	<0.0048	<0.0062	<0.0065	<0.0029	<0.0050	<0.0219	--
4-Isopropyltoluene	mg/kg	<0.0042	<0.0052	<0.0033	<0.0422	<0.0049	<0.0054	<0.0029	<0.0056	<0.0033	<0.0046	<0.0045	<0.0061	<0.0115	<0.0047	<0.0045	0.0505	<0.0070	<0.0048	<0.0062	<0.0065	<0.0029	<0.0050	<0.0219	--
4-Methyl-2-Pentanone	mg/kg	<0.0084	<0.0104	<0.0066	<0.0845	<0.0099	<0.0108	<0.0058	<0.0112	<0.0066	<0.0092	<0.0091	<0.0121	<0.0230	<0.0093	<0.0090	<0.0153	<0.0140	<0.0096	<0.0125	<0.0131	<0.0058	<0.0100	<0.0437	--
Acetone	mg/kg	<0.0084	<0.0104	<0.0066	0.549	0.0148	0.0161	0.0143	0.0285	0.008	<0.0092	0.0401	0.0477	0.293	0.0299	0.014	0.0156	<0.0140	<0.0096	<0.0125	<0.0131	0.0307	0.029	0.285	--
Benzene	mg/kg	<0.0042	<0.0052	<0.0033	<0.0422	<0.0049	<0.0054	<0.0029	<0.0056	<0.0033	<0.0046	<0.0045	<0.0061	<0.0115	<0.0047	<0.0045	<0.0077	<0.0070	<0.0048	<0.0062	<0.0065	<0.0029	<0.0050	<0.0219	--
Bromobenzene	mg/kg	<0.0042	<0.0052	<0.0033	<0.0422	<0.0049	<0.0054	<0.0029	<0.0056	<0.0033	<0.0046	<0.0045	<0.0061	<0.0115	<0.0047	<0.0045	<0.0077	<0.0070	<0.0048	<0.0062	<0.0065	<0.0029	<0.0050	<0.0219	--
Bromochloromethane	mg/kg	<0.0042	<0.0052	<0.0033	<0.0422	<0.0049	<0.0054	<0.0029	<0.0056	<0.0033	<0.0046	<0.0045	<0.0061	<0.0115	<0.0047	<0.0045	<0.0077	<0.0070	<0.0048	<0.0062	<0.0065	<0.0029	<0.0050	<0.0219	--
Bromodichloromethane	mg/kg	<0.0042	<0.0052	<0.0033	<0.0422	<0.0049	<0.0054	<0.0029	<0.0056	<0.0033	<0.0046	<0.0045	<0.0061	<0.0115	<0.0047	<0.0045	<0.0077	<0.0070	<0.0048	<0.0062	<0.0065	<0.0029	<0.0050	<0.0219	--
Bromoform	mg/kg	<0.0042	<0.0052	<0.0033	<0.0422	<0.0049	<0.0054	<0.0029	<0.0056	<0.0033	<0.0046	<0.0045	<0.0061	<0.0115	<0.0047	<0.0045	<0.0077	<0.0070	<0.0048	<0.0062	<0.0065	<0.0029	<0.0050	<0.0219	--
Bromomethane	mg/kg	<0.0084	<0.0104	<0.0066	<0.0845	<0.0099	<0.0108	<0.0058	<0.0112	<0.0066	<0.0092	<0.0091	<0.0121	<0.0230	<0.0093	<0.0090	<0.0153	<0.0140	<0.0096	<0.0125	<0.0131	<0.0058	<0.0100	<0.0437	--
Carbon Disulfide	mg/kg	<0.0042	<0.0052	<0.0033	0.0902	<0.0049	<0.0054	<0.0029	<0.0056	<0.0033	<0.0046	<0.0045	<0.0061	0.0146	<0.0047	<0.0045	<0.0077	<0.0070	<0.0048	<0.0062	<0.0065	<0.0029	<0.0050	0.0379	--
Carbon Tetrachloride	mg/kg	<0.0042	<0.0052	<0.0033	<0.0422	<0.0049	<0.0054	<0.0029	<0.0056	<0.0033	<0.0046	<0.0045	<0.0061	<0.0115	<0.0047	<0.0045	<0.0077	<0.0070	<0.0048	<0.0062	<0.0065	<0.0029	<0.0050	<0.0219	--
Chlorobenzene	mg/kg	<0.0042	<0.0052	<0.0033	<0.0422	<0.0049	<0.0054	<0.0029	<0.0056	<0.0033	<0.0046	<0.0045	<0.0061	<0.0115	<0.0047	<0.0045	<0.0077	<0.0070	<0.0048	<0.0062	<0.0065	<0.0029	<0.0050	<0.0219	--
Chloroethane	mg/kg	<0.0084	<0.0104	<0.0066	<0.0845	<0.0099	<0.0108	<0.0058	<0.0112	<0.0066	<0.0092	<0.0091	<0.0121	<0.0230	<0.0093	<0.0090	<0.0153	<0.0140	<0.0096	<0.0125	<0.0131	<0.0058	<0.0100	<0.0437	--
Chloroform	mg/kg	<0.0042	<0.0052	<0.0033	<0.0422	<0.0049	<0.0054	<0.0029	<0.0056	<0.0033	<0.0046	<0.0045	<0.0061	<0.0115	<0.0047	<0.0045	<0.0077	<0.0070	<0.0048	<0.0062	<0.0065	<0.0029	<0.0050	<0.0219	--
Chloromethane	mg/kg	<0.0084	<0.0104	<0.0066	<0.0845	<0.0099	<0.0108	<0.0058	<0.0112	<0.0066	<0.0092	<0.0091	<0.0121	<0.0230	<0.0093	<0.0090	<0.0153	<0.0140	<0.0096	<0.0125	<0.0131	<0.0058	<0.0100	<0.0437	--
cis-1,2-Dichloroethene	mg/kg	<0.0042	<0.0052	<0.0033	<0.0422	<0.0049	<0.0054	<0.0029	<0.0056	<0.0033	<0.0046	<0.0045	<0.0061	<0.0115	<0.0047	<0.0045	<0.0077	<0.0070	<0.0048	<0.0062	<0.0065	<0.0029	<0.0050	<0.0219	--
cis-1,3-Dichloropropene	mg/kg	<0.0042	<0.0052	<0.0033	<0.0422	<0.0049	<0.0054	<0.0029	<0.0056	<0.0033	<0.0046	<0.0045	<0.0061	<0.0115	<0.0047	<0.0045	<0.0077	<0.0070	<0.0048	<0.0062	<0.0065	<0.0029	<0.0050	<0.0219	--
Dibromochloromethane	mg/kg	<0.0017	<0.0021	<0.0013	<0.0169	<0.0020	<0.0022	<0.0012	<0.0022	<0.0013	<0.0018	<0.0018	<0.0024	<0.0046	<0.0019	<0.0018	<0.0031	<0.0028	<0.0019	<0.0025	<0.0026	<0.0012	<0.0020	<0.0087	--
Dibromomethane	mg/kg	<0.0042	<0.0052	<0.0033	<0.0422	<0.0049	<0.0054	<0.0029	<0.0056	<0.0033	<0.0046	<0.0045	<0.0061	<0.0115	<0.0047	<0.0045	<0.0077	<0.0070	<0.0048	<0.0062	<0.0065	<0.0029	<0.0050	<0.0219	--
Dichlorodifluoromethane	mg/kg	<0.0084	<0.0104	<0.0066	<0.0845	<0.0099	<0.0108	<0.0058	<0.0112	<0.0066	<0.0092	<0.0091	<0.0121	<0.0230	<0.0093	<0.0090	<0.0153	<0.0140	<0.0096	<0.0125	<0.0131	<0.0058	<0.0100	<0.0437	--
Diethyl Ether	mg/kg	<0.0042	<0.0052	<0.0033	<0.0422	<0.0049	<0.0054	<0.0029	<0.0056	<0.0033	<0.0046	<0.0045	<0.0061	<0.0115	<0.0047	<0.0045	<0.0077	<0.0070	<0.0048	<0.0062	<0.0065	<0.0029	<0.0050	<0.0219	--
Di-isopropyl ether	mg/kg	<0.0042	<0.0052	<0.0033	<0.0422	<0.0049	<0.0054	<0.0029	<0.0056	<0.0033	<0.0046	<0.0045	<0.0061	<0.0115	<0.0047	<0.0045	<0.0077	<0.0070	<0.0048	<0.0062	<0.0065	<0.0029	<0.0050	<0.0219	--
Ethyl tertiary-butyl ether	mg/kg	<0.0042	<0.0052	<0.0033	<0.0422	<0.0049	<0.0054	<0.0029	<0.0056	<0.0033	<0.0046	<0.0045	<0.0061	<0.0115	<0.0047	<0.0045	<0.0077	<0.0070	<0.0048	<0.0062	<0.0065	<0.0029	<0.0050	<0.0219	--
Ethylbenzene	mg/kg	<0.0042	<0.0052	<0.0033	<0.0422	<0.0049	<0.0054	<0.0029	<0.0056	<0.0033	<0.0046	<0.0045	<0.0061	<0.0115	<0.0047	<0.0045	<0.0077	<0.0070	<0.0048	<0.0062	<0.0065	<0.0029	<0.0050	<0.0219	--
Hexachlorobutadiene	mg/kg	<0.0042	<0.0052	<0.0033	<0.0422	<0.0049	<0.0054	<0.0029	<0.0056	<0.0033	<0.0046	<0.0045	<0.0061	<0.0115	<0.0047	<0.0045	<0.0077	<0.0070	<0.0048	<0.0062	<0.0065	<0.0029	<0.0050	<0.0219	--
Isopropylbenzene	mg/kg	<0.0042	<0.0052	<0.0033	<0.0422	<0.0049	<0.0054	<0.0029	<0.0056	<0.0033	<0.0046	<0.0045	<0.0061	<0.0115	<0.0047	<0.0045	<0.0077	<0.0070	<0.0048	<0.0062	<0.0065	<0.0029	<0.0050	<0.0219	--
Methyl tert-Butyl Ether	mg/kg	<0.0042	<0.0052	<0.0033	<0.0422	<0.0049	<0.0054	<0.0029	<0.0056	<0.0033	<0.0046	<0.0045	<0.0061	<0.0115	<0.0047	<0.0045	<0.0077	<0.0070	<0.0048	<0.0062	<0.0065	<0.0029	<0.0050	<0.0219	--
Methylene Chloride	mg/kg	<0.0084	<0.0104	<0.0066	<0.0845	<0.0099	<0.0108	<0.0058	<0.0112	<0.0066	<0.0092	<0.0091	<0.0121	<0.0230	<0.0093	<0.0090	<0.0153	<0.0140	<0.0096	<0.0125	<0.0131	<0.0058	<0.0100	<0.0437	--
Naphthalene	mg/kg	<0.0042	<0.0052	<0.0033	<0.0422	<0.0049	<0.0054	<0.0029	<0.0056	<0.0033	<0.0046	<0.0045	<0.0061	<0.0115	<0.0047	<0.0045	<0.0077	<0.0070	<0.0048	<0.0062	<0.0065	<0.0029	<0.0050	<0.0219	--
n-Butylbenzene	mg/kg	<0.0042	<0.0052	<0.0033	<0.0422	<0.0049	<0.0054	<0.0029	<0.0056	<0.0033	<0.0046	<0.0045	<0.0061	<0.0115	<0.0047	<0.0045	<0.0077	<0.0070	<0.0048	<0.0062	<0.0065	<0.0029	<0.0050	<0.0219	--
n-Propylbenzene	mg/kg	<0.0042	<0.0052	<0.0033	<0.0422	<0.0049	<0.0054	<0.0029	<0.0056	<0.0033	<0.0046	<0.0045	<0.0061	<0.0115	<0.0047	<0.0045	<0.0077	<0.0070	<0.0048	<0.0062	<0.0065	<0.0029	<0.0050	<0.0219	--
sec-Butylbenzene	mg/kg	<0.0042	<0.0052	<0.0033	<0.0422	<0.0049	<0.0054	<0.0029	<0.0056	<0.0033	<0.0046	<0.0045	<0.0061	<0.0115	<0.0047	<0.0045	<0.0077	<0.0070	<0.0048	<0.0062	<0.0065	<0.0029	<0.0050	<0.0219	--

Table 1
Soil Precharacterization Data

Wynn Resort Casino
Everett, Massachusetts

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	J09 J09S01S02A 1501491 Fill 0 - 3.33 1/23/2015	J09 J09S02BS04A 1501491 Fill 3.33 - 6.66 1/23/2015	J09 J09S04BS05 1501491 Fill 6.66 - 10 1/23/2015	J09 J09S06 1501491 Natural Organics 10 - 12 1/23/2015	J09 J09S07 1501491 Natural Clay 14 - 16 1/23/2015	J09 J09S08 1501491 Natural Clay 19 - 21 1/23/2015	J09 J09S09 1501491 Natural Clay 24 - 26 1/23/2015	J09 J09S10 1501491 Natural Clay 29 - 31 1/23/2015	J09 J09S11S12 1501491 Natural Clay 34 - 38 1/23/2015	J10 J10S01S02A 1502078 Fill 0 - 3.3 2/5/2015	J10 J10S02BS03 1502078 Fill 3.3 - 6 2/5/2015	J10 J10S04S05 1502078 Fill 6 - 10 2/5/2015	J10 J10S07 1503241 Natural Clay 12 - 14 3/12/2015	J10 J10S09 1503241 Natural Clay 16 - 18 3/12/2015	J10 J10S10 1503241 Natural Clay 19 - 21 3/12/2015	J10 J10S11 1503241 Natural Clay 24 -26 3/12/2015	J10 J10S12 1503241 Natural Clay 29 - 31 3/12/2015	J10 J10S13S14 1503241 Natural Clay 34 - 38 3/12/2015	J11 J11S01S02A 1501390 Fill 0 - 3.3 1/20/2015	J11 J11S02BS04A 1501390 Fill 3.3 - 6.6 1/20/2015	J11 J11S04BS05 1501390 Fill 6.6 - 10 1/20/2015	J11 J11S06 1501390 Fill 10 - 12 1/20/2015	J11 J11S07 1501390 Natural Sand/Gravel 12 - 14 1/20/2015	J11 J11S08 1501390 Natural Clay 14 - 16 1/20/2015
Preliminary Disposal Facility Category		MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Material Type B-2	MCP Regulated Type A	MCP Regulated Type A	MCP Restricted
Styrene	mg/kg	<0.0042	<0.0052	<0.0033	<0.0422	<0.0049	<0.0054	<0.0029	<0.0056	<0.0033	<0.0046	<0.0045	<0.0061	<0.0115	<0.0047	<0.0045	<0.0077	<0.0070	<0.0048	<0.0062	<0.0065	<0.0029	<0.0050	<0.0219	--
tert-Butylbenzene	mg/kg	<0.0042	<0.0052	<0.0033	<0.0422	<0.0049	<0.0054	<0.0029	<0.0056	<0.0033	<0.0046	<0.0045	<0.0061	<0.0115	<0.0047	<0.0045	<0.0077	<0.0070	<0.0048	<0.0062	<0.0065	<0.0029	<0.0050	<0.0219	--
Tertiary-amyl methyl ether	mg/kg	<0.0042	<0.0052	<0.0033	<0.0422	<0.0049	<0.0054	<0.0029	<0.0056	<0.0033	<0.0046	<0.0045	<0.0061	<0.0115	<0.0047	<0.0045	<0.0077	<0.0070	<0.0048	<0.0062	<0.0065	<0.0029	<0.0050	<0.0219	--
Tetrachloroethene	mg/kg	<0.0042	<0.0052	<0.0033	<0.0422	<0.0049	<0.0054	<0.0029	<0.0056	<0.0033	<0.0046	<0.0045	<0.0061	<0.0115	<0.0047	<0.0045	<0.0077	<0.0070	<0.0048	<0.0062	<0.0065	<0.0029	<0.0050	<0.0219	--
Tetrahydrofuran	mg/kg	<0.0042	<0.0052	<0.0033	<0.0422	<0.0049	<0.0054	<0.0029	<0.0056	<0.0033	<0.0046	<0.0045	<0.0061	<0.0115	<0.0047	<0.0045	<0.0077	<0.0070	<0.0048	<0.0062	<0.0065	<0.0029	<0.0050	<0.0219	--
Toluene	mg/kg	<0.0042	<0.0052	<0.0033	<0.0422	<0.0049	<0.0054	<0.0029	<0.0056	<0.0033	<0.0046	<0.0045	<0.0061	<0.0115	<0.0047	<0.0045	<0.0077	<0.0070	<0.0048	<0.0062	<0.0065	<0.0029	<0.0050	<0.0219	--
trans-1,2-Dichloroethene	mg/kg	<0.0042	<0.0052	<0.0033	<0.0422	<0.0049	<0.0054	<0.0029	<0.0056	<0.0033	<0.0046	<0.0045	<0.0061	<0.0115	<0.0047	<0.0045	<0.0077	<0.0070	<0.0048	<0.0062	<0.0065	<0.0029	<0.0050	<0.0219	--
trans-1,3-Dichloropropene	mg/kg	<0.0042	<0.0052	<0.0033	<0.0422	<0.0049	<0.0054	<0.0029	<0.0056	<0.0033	<0.0046	<0.0045	<0.0061	<0.0115	<0.0047	<0.0045	<0.0077	<0.0070	<0.0048	<0.0062	<0.0065	<0.0029	<0.0050	<0.0219	--
Trichloroethene	mg/kg	<0.0042	<0.0052	<0.0033	<0.0422	<0.0049	<0.0054	<0.0029	<0.0056	<0.0033	<0.0046	<0.0045	<0.0061	<0.0115	<0.0047	<0.0045	<0.0077	<0.0070	<0.0048	<0.0062	<0.0065	<0.0029	<0.0050	<0.0219	--
Trichlorofluoromethane	mg/kg	<0.0042	<0.0052	<0.0033	<0.0422	<0.0049	<0.0054	<0.0029	<0.0056	<0.0033	<0.0046	<0.0045	<0.0061	<0.0115	<0.0047	<0.0045	<0.0077	<0.0070	<0.0048	<0.0062	<0.0065	<0.0029	<0.0050	<0.0219	--
Vinyl Chloride	mg/kg	<0.0084	<0.0104	<0.0066	<0.0845	<0.0099	<0.0108	<0.0058	<0.0112	<0.0066	<0.0092	<0.0091	<0.0121	<0.0230	<0.0093	<0.0090	<0.0153	<0.0140	<0.0096	<0.0125	<0.0131	<0.0058	<0.0100	<0.0437	--
Xylene O	mg/kg	<0.0042	<0.0052	<0.0033	<0.0422	<0.0049	<0.0054	<0.0029	<0.0056	<0.0033	<0.0046	<0.0045	<0.0061	<0.0115	<0.0047	<0.0045	<0.0077	<0.0070	<0.0048	<0.0062	<0.0065	<0.0029	<0.0050	<0.0219	--
Xylene P,M	mg/kg	<0.0084	<0.0104	<0.0066	<0.0845	<0.0099	<0.0108	<0.0058	<0.0112	<0.0066	<0.0092	<0.0091	<0.0121	<0.0230	<0.0093	<0.0090	<0.0153	<0.0140	<0.0096	<0.0125	<0.0131	<0.0058	<0.0100	<0.0437	--
Xylenes (Total)	mg/kg	<0.0084	<0.0104	<0.0066	<0.0845	<0.0099	<0.0108	<0.0058	<0.0112	<0.0066	<0.0092	<0.0091	<0.0121	<0.0230	<0.0093	<0.0090	<0.0153	<0.0140	<0.0096	<0.0125	<0.0131	<0.0058	<0.0100	<0.0437	--
Total VOCs (Low Level)	mg/kg	ND	ND	ND	0.6392	0.0148	0.0161	0.0143	0.0285	0.008	ND	0.0401	0.0477	0.346	0.0299	0.014	0.0661	ND	ND	ND	ND	0.0307	0.029	0.3229	--
Semi-Volatile Organic Compounds																									
1,2,4-Trichlorobenzene	mg/kg	<4.43	<5.09	<4.92	<5.08	<0.932	<0.958	<0.909	<0.878	<0.893	<0.802	<0.893	<1.07	<1.44	<1.04	<1.01	<1.04	<0.966	<1.07	<0.873	<0.895	<0.928	<1.02	<3.71	<1.00
1,2-Dichlorobenzene	mg/kg	<4.43	<5.09	<4.92	<5.08	<0.932	<0.958	<0.909	<0.878	<0.893	<0.802	<0.893	<1.07	<1.44	<1.04	<1.01	<1.04	<0.966	<1.07	<0.873	<0.895	<0.928	<1.02	<3.71	<1.00
1,3-Dichlorobenzene	mg/kg	<4.43	<5.09	<4.92	<5.08	<0.932	<0.958	<0.909	<0.878	<0.893	<0.802	<0.893	<1.07	<1.44	<1.04	<1.01	<1.04	<0.966	<1.07	<0.873	<0.895	<0.928	<1.02	<3.71	<1.00
1,4-Dichlorobenzene	mg/kg	<2.22	<2.55	<2.47	<2.55	<0.468	<0.480	<0.456	<0.441	<0.448	<0.402	<0.448	<0.536	<0.724	<0.520	<0.508	<0.520	<0.484	<0.536	<0.438	<0.449	<0.465	<0.512	<1.86	<0.503
2,4,5-Trichlorophenol	mg/kg	<4.43	<5.09	<4.92	<5.08	<0.932	<0.958	<0.909	<0.878	<0.893	<0.802	<0.893	<1.07	<1.44	<1.04	<1.01	<1.04	<0.966	<1.07	<0.873	<0.895	<0.928	<1.02	<3.71	<1.00
2,4,6-Trichlorophenol	mg/kg	<4.43	<5.09	<4.92	<5.08	<0.932	<0.958	<0.909	<0.878	<0.893	<0.802	<0.893	<1.07	<1.44	<1.04	<1.01	<1.04	<0.966	<1.07	<0.873	<0.895	<0.928	<1.02	<3.71	<1.00
2,4-Dichlorophenol	mg/kg	<4.43	<5.09	<4.92	<5.08	<0.932	<0.958	<0.909	<0.878	<0.893	<0.802	<0.893	<1.07	<1.44	<1.04	<1.01	<1.04	<0.966	<1.07	<0.873	<0.895	<0.928	<1.02	<3.71	<1.00
2,4-Dimethylphenol	mg/kg	<4.43	<5.09	<4.92	<5.08	<0.932	<0.958	<0.909	<0.878	<0.893	<0.802	<0.893	<1.07	<1.44	<1.04	<1.01	<1.04	<0.966	<1.07	<0.873	<0.895	<0.928	<1.02	<3.71	<1.00
2,4-Dinitrophenol	mg/kg	<22.2	<25.5	<24.7	<25.5	<4.68	<4.80	<4.56	<4.41	<4.48	<4.02	<4.48	<5.36	<7.24	<5.20	<5.08	<5.20	<4.84	<5.36	<4.38	<4.49	<4.65	<5.12	<18.6	<5.03
2,4-Dinitrotoluene	mg/kg	<1.11	<1.28	<1.23	<1.27	<0.932	<0.958	<0.909	<0.878	<0.893	<0.802	<0.893	<1.07	<1.44	<1.04	<1.01	<1.04	<0.966	<1.07	<0.873	<0.895	<0.928	<1.02	<3.71	<1.00
2,6-Dinitrotoluene	mg/kg	<4.43	<5.09	<4.92	<5.08	<0.932	<0.958	<0.909	<0.878	<0.893	<0.802	<0.893	<1.07	<1.44	<1.04	<1.01	<1.04	<0.966	<1.07	<0.873	<0.895	<0.928	<1.02	<3.71	<1.00
2-Chloronaphthalene	mg/kg	<4.43	<5.09	<4.92	<5.08	<0.932	<0.958	<0.909	<0.878	<0.893	<0.802	<0.893	<1.07	<1.44	<1.04	<1.01	<1.04	<0.966	<1.07	<0.873	<0.895	<0.928	<1.02	<3.71	<1.00
2-Chlorophenol	mg/kg	<4.43	<5.09	<4.92	<5.08	<0.932	<0.958	<0.909	<0.878	<0.893	<0.802	<0.893	<1.07	<1.44	<1.04	<1.01	<1.04	<0.966	<1.07	<0.873	<0.895	<0.928	<1.02	<3.71	<1.00
2-Methylnaphthalene	mg/kg	<4.43	<5.09	<4.92	<5.08	<0.932	<0.958	<0.909	<0.878	<0.893	<0.802	<0.893	<1.07	<1.44	<1.04	<1.01	<1.04	<0.966	<1.07	<0.873	<0.895	<0.928	<1.02	<3.71	<1.00
2-Methylphenol	mg/kg	<4.43	<5.09	<4.92	<5.08	<0.932	<0.958	<0.909	<0.878	<0.893	<0.802	<0.893	<1.07	<1.44	<1.04	<1.01	<1.04	<0.966	<1.07	<0.873	<0.895	<0.928	<1.02	<3.71	<1.00
2-Nitrophenol	mg/kg	<4.43	<5.09	<4.92	<5.08	<0.932	<0.958	<0.909	<0.878	<0.893	<0.802	<0.893	<1.07	<1.44	<1.04	<1.01	<1.04	<0.966	<1.07	<0.873	<0.895	<0.928	<1.02	<3.71	<1.00
3,3´-Dichlorobenzidine	mg/kg	<8.88	<10.2	<9.85	<5.08	<1.87	<1.92	<1.82	<1.76	<1.79	<1.61	<1.79	<2.14	<2.89	<2.08	<2.03	<2.08	<1.93	<2.14	<1.75	<1.79	<1.86	<2.05	<7.43	<2.01
3+4-Methylphenol	mg/kg	<8.88	<10.2	<9.85	<10.2	<1.87	<1.92	<1.82	<1.76	<1.79	<1.61	<1.79	<2.14	<2.89	<2.08	<2.03	<2.08	<1.93	<2.14	<1.75	<1.79	<1.86	<2.05	<7.43	<2.01
4-Bromophenyl-phenylether	mg/kg	<4.43	<5.09	<4.92	<5.08	<0.932	<0.958	<0.909	<0.878	<0.893	<0.802	<0.893	<1.07	<1.44	<1.04	<1.01	<1.04	<0.966	<1.07	<0.873	<0.895	<0.928	<1.02	<3.71	<1.00
4-Chloroaniline	mg/kg	<2.22	<2.55	<2.47	<1.27	<1.87	<1.92	<1.82	<1.76	<1.79	<1.61	<1.79	<2.14	<2.89	<2.08	<2.03	<2.08	<1.93	<2.14	<1.75	<1.79	<1.86	<2.05	<7.43	<2.01
4-Nitrophenol	mg/kg	<22.2	<25.5	<24.7	<25.5	<4.68	<4.80	<4.56	<4.41	<4.48	<4.02	<4.48	<5.36	<7.24	<5.20	<5.08	<5.20	<4.84	<5.36	<4.38	<4.49	<4.65	<5.12	<18.6	<5.03
Acenaphthene	mg/kg	<4.43	<5.09	<4.92	<5.08	<0.932	<0.958	<0.909	<0.878	<0.893	<0.802	<0.893	<1.07	<1.44	<1.04	<1.01	<1.04	<0.966	<1.07	<0.873	<0.895	<0.928	<1.02	<3.71	<1.00
Acenaphthylene	mg/kg	<4.43	<5.09	<4.92	<5.08	<0.932	<0.958	<0.909	<0.878	<0.893	<0.802	<0.893	<1.07	<1.44	<1.04	<1.01	<1.04	<0.966	<1.07	<0.873	<0.895	<0.928	<1.02	<3.71	<1.00
Acetophenone	mg/kg	<8.88	<10.2	<9.85	<10.2	<1.87	<1.92	<1.82	<1.76	<1.79	<1.61	<1.79	<2.14	<2.89	<2.08	<2.03	<2.08	<1.93	<2.14	<1.75	<1.79	<1.86	<2.05	<7.43	<2.01
Aniline	mg/kg	<22.2	<25.5	<24.7	<25.5	<4.68	<4.80	<4.56	<4.41	<4.48	<4.02	<4.48	<5.36	<7.24	<5.20	<5.08	<5.20	<4.84	<5.36	<4.38	<4.49	<4.65	<5.12	<18.6	<5.03
Anthracene	mg/kg	<4.43	<5.09	<4.92	<5.08	<0.932	<0.958	<0.909	<0.878	<0.893	<0.802	<0.893	2.77	<1.44	<1.04	<1.01	<1.04	<0.966	<1.07	<0.873	<0.895	<0.928	<1.02	<3.71	<1.00
Azobenzene	mg/kg	<4.43	<5.09	<4.92	<5.08	<0.932	<0.958	<0.909	<0.878	<0.893	<0.802	<0.893	<1.07	<1.44	<1.04	<1.01	<1.04	<0.966	<1.07	<0.873	<0.895	<0.928	<1.02	<3.71	<1.00
Benzo(a)anthracene	mg/kg	<4.43	<5.09	<4.92	<5.08	<0.932	<0.958	<0.909	<0.878	<0.893	1.06	<0.893	5.32	<1.44	<1.04	<1.01	<1.04	<0.966	<1.07	<0.873	<0.895	<0.928	<1.02	<3.71	<1.00
Benzo(a)pyrene	mg/kg	3.12	<2.55	<2.47	<2.55	<0.468	<0.480	<0.456	<0.441	<0.448	0.849	<0.448	4.71	<0.724	<0.520	<0.508	<0.520	<0.484	<0.536	<0.438	0.714	0.779	0.575	<1.86	<0.503
Benzo(b)fluoranthene	mg/kg	<4.43	<5.09	<4.92	<5.08	<0.932	<0.958	<0.909	<0.878	<0.893	0.936	<0.893	5.54	<1.44	<1.04	<1.01	<1.04	<0.966	<1.07	<0.873	<0.895	1.18	<1.02	<3.71	<1.00
Benzo(g,h,i)perylene	mg/kg	<4.43	<5.09	<4.92	<5.08	<0.932	<0.958	<0.909	<0.878	<0.893	<0.802	<0.893	<1.07	<1.44	<1.04	<1.01	<1.04	<0.966	<1.07	<0.873	<0.895	<0.928	<1.02	<3.71	<1.00
Benzo(k)fluoranthene	mg/kg	<4.43	<5.09	<4.92	<5.08	<0.932	<0.958	<0.909	<0.878	<0.893	<0.802	<0.893	3.97	<1.44	<1.04	<1.01	<1.04	<0.966	<1.07	<0.873	<0.895	<0.928	<1.02	<3.71	<1.00
bis(2-Chloroethoxy)methane	mg/kg	<4.43	<5.09	<4.92	<5.08	<0.932	<0.958	<0.909	<0.878	<0.893	<0.802	<0.893	<1.07	<1.44	<1.04	<1.01	<1.04	<0.966	<1.07	<0.873	<0.895	<0.928	<1.02	<3.71	<1.00
bis(2-Chloroethyl)ether	mg/kg	<0.439	<0.504	<0.487	<0.503	<0.468	<0.480	<0.456	<0.441	<0.448	<0.402	<0.448	<0.536	<0.724	<0.520	<0.508	<0.520	<0.484	<0.536	<0.438	<0.449	<0.465	<0.512	<1.86	<0.503
bis(2-chloroisopropyl)Ether	mg/kg	<0.439	<0.504	<0.487	<0.503	<0.468	<0.480	<0.456	<0.441	<0.448	<0.402	<0.448	<0.536	<0.143	<0.520	<0.508	<0.520	<0.484	<0.536	<0.438	<0.449	<0.465	<0.512	<1.86	<0.503
bis(2-Ethylhexyl)phthalate	mg/kg	<4.43	<5.09	<4.92	<5.08	<0.932	<0.958	<0.909	<0.878	<0.893	<0.802	<0.893	<1.07	<1.44	<1.04	<1.01	<1.04	<0.966	<1.07	<0.873	77.7	<0.928	<1.02	<3.71	<1.00
Butylbenzylphthalate	mg/kg	<4.43	<5.09	<4.92	<5.08	<0.932	<0.958	<0.909	<0.878	<0.893	<0.802	<0.893	<1.07	<1.44	<1.04	<1.01	<1.04	<0.966	<1.07	<0.873	<0.895	<0.928	<1.02	<3.71	<1.00
Chrysene	mg/kg	3.66	2.7	<2.47	<2.55	<0.468	<0.480	<0.456	<0.441	<0.448	1.17	<0.448	5.34	<0.724	<0.520	<0.508	<0.520	<0.484	<0.536	<0.438	0.669	0.928	0.65	<1.86	<0.503
Dibenzo(a,h)Anthracene	mg/kg	<2.22	<2.55	<2.47	<2.55	<0.468	<0.480	<0.456	<0.441	<0.448	<0.402	<0.448	<0.536	<0.724	<0.520	<0.508	<0.520	<0.484	<0.536	<0.438	<0.449	<0.465	<0.512	<1.86	<0.503
Dibenzofuran	mg/kg	<4.43	<5.09	<4.92	<5.08	<0.932	<0.958	<0.909	<0.878	<0.893	<0.802	<0.893	<1.07	<1.44	<1.04	<1.01	<1.04	<0.966	<1.07	<0.873	<0.895	<0.928	<1.02	<3.71	<1.00
Diethylphthalate	mg/kg	<4.43	<5.09	<4.92	<5.08	<0.932	<0.958	<0.909	<0.878	<0.893	<0.802	<0.893	<1.07	<1.44	<1.04	<1.01	<1.04	<0.966	<1.07	<0.873	<0.895	<0.928	<1.02	<3.71	<1.00
Dimethylphthalate	mg/kg	<4.43	<5.09	<4.92	<5.08	<0.932	<0.958	<0.909	<0.878	<0.893	<0.802	<0.893	<1.07	<1.44	<1.04	<1.01	<1.04	<0.966	<1.07	<0.873	<0.895	<0.928	<1.02	<3.71	<1.00
Di-n-butylphthalate	mg/kg	<4.43	<5.09	<4.92	<5.08	<0.932	<0.958	<0.909	<0.878	<0.893	<0.802	<0.893	<1.07	<1.44	<1.04	<1.01	<1.04	<0.966	<1.07	<0.873	<0.895	<0.928	<1.02	<3.71	<1.00
Di-n-octylphthalate	mg/kg	<4.43	<5.09	<4.92	<5.08	<0.932	<0.958	<0.909	<0.878	<0.893	<0.802	<0.893	<1.07	<1.44	<1.04	<1.01	<1.04	<0.966	<1.07	<0.873	<0.895	<0.928	<1.02	<3.71	<1.00
Fluoranthene	mg/kg	8.59	5.63	5.16	<5.08	<0.932	<0.958	<0.909	<0.878	<0.893	2.22	<0.893	12	<1.44	<1.04	<1.01	<1.04	<0.966	<1.07	<0.873	1.08	1.66	1.5	<3.71	<1.00
Fluorene	mg/kg	<4.43	<5.09	<4.92	<5.08	<0.932	<0.958	<0.909	<0.878	<0.893	<0.802	<0.893	1.08	<1.44	<1.04	<1.01	<1.04	<0.966	<1.07	<0.873	<0.895	<0.928	<1.02	<3.71	<1.00
Hexachlorobenzene	mg/kg	<1.11	<1.28	<1.23	<2.55	<0.468	<0.480	<0.456	<0.441	<0.448	<0.402	<0.448	<0.536	<0.724	<0.520	<0.508	<0.520	<0.484	<0.536	<0.438	<0.449	<0.465	<0.512	<1.86	<0.503
Hexachlorobutadiene	mg/kg	<4.43	<5.09	<4.92	<5.08	<0.932	<0.958	<0.909	<0.878	<0.893	<0.802	<0.893	<1.07	<1.44	<1.04	<1.01	<1.04	<0.966	<1.07	<0.873	<0.895	<0.928	<1.02	<3.71	<1.00
Hexachloroethane	mg/kg	<2.22	<2.55	<2.47	<2.55	<0.932	<0.958	<0.909	<0.878	<0.893	<0.802	<0.893	<1.07	<1.44	<1.04	<1.01	<1.04	<0.966	<1.07	<0.873	<0.895	<0.928	<1.02	<3.71	<1.00
Indeno(1,2,3-cd)Pyrene	mg/kg	<4.43	<5.09	<4.92	<5.08	<0.932	<0.958	<0.909	<0.878	<0.893	<0.802	<0.893	<1.07	<1.44	<1.04	<1.01	<1.04	<0.966	<1.07	<0.873	<0.895	<0.928	<1.02	<3.71	<1.00
Isophorone	mg/kg	<4.43	<5.09	<4.92	<5.08	<0.932	<0.958	<0.909	<0.878	<0.893	<0.802	<0.893	<1.07	<1.44	<1.04	<1.01	<1.04	<0.966	<1.07	<0.873	<0.895	<0.928	<1.02	<3.71	<1.00
Naphthalene	mg/kg	<4.43	<5.09	<4.92	<5.08	<0.932	<0.958	<0.909	<0.878	<0.893	<0.802	<0.893	<1.07	<1.44	<1.04	<1.01	<1.04	<0.966	<1.07	<0.873	<0.895	<0.928	<1.02	<3.71	<1.00
Nitrobenzene	mg/kg	<4.43	<5.09	<4.92	<5.08	<0.932	<0.958	<0.909	<0.878	<0.893	<0.802	<0.893	<1.07	<1.44	<1.04	<1.01	<1.04	<0.966	<1.07	<0.873	<0.895	<0.928	<1.02	<3.71	<1.00
N-Nitrosodimethylamine	mg/kg	<4.43	<5.09	<4.92	<5.08	<0.932	<0.958	<0.909	<0.878	<0.893	<0.802	<0.893	<1.07	<1.44	<1.04	<1.01	<1.04	<0.966	<1.07	<0.873	<0.895	<0.928	<1.02	<3.71	<1.00
Pentachlorophenol	mg/kg	<4.43	<5.09	<4.92	<5.08	<4.68	<4.80	<4.56	<4.41	<4.48	<4.02	<4.48	<5.36	<7.24	<5.20	<5.08	<5.20	<4.84	<5.36	<4.38	<4.49	<4.65	<5.12	<18.6	<5.03
Phenanthrene	mg/kg	6.92	<5.09	<4.92	<5.08	<0.932	<0.958	<0.909	<0.878	<0.893	2.62	<0.893	10.4	<1.44	<1.04	<1.01	<1.04	<0.966	<1.07	<0.873	<0.895	1.46	1.41	<3.71	<1.00
Phenol	mg/kg	<4.43	<5.09	<4.92	<5.08	<0.932	<0.958	<0.909	<0.878	<0.893	<0.802	<0.893	<1.07	<1.44	<1.04	<1.01	<1.04	<0.966	<1.07	<0.873	<0.895	<0.928	<1.02	<3.71	<1.00
Pyrene	mg/kg	7.54	5.27	<4.92	<5.08	<0.932	<0.958	<0.909	<0.878	<0.893	2.16	<0.893	8.94	<1.44	<1.04	<1.01	<1.04	<0.966	<1.07	<0.873	0.938	1.47	1.12	<3.71	<1.00
Total SVOCs	mg/kg	29.83	13.6	5.16	ND	ND	ND	ND	ND	ND	11.015	ND	60.07	ND	ND	ND	ND	ND	ND	ND	81.101	7.477	5.255	ND	ND
Classic Chemistry																									
Corrosivity (pH)	S.U.	7.73	6.8	8.28	4.23	7.05	7.24	7.15	7.21	7.16	9.13	8.52	6.08	6.2	5.51	6.26	7.1	6.77	5.61	8.52	8.05	6.32	5.12	4.55	4.81
Conductivity	umhos/cm	1610	50	3350	6560	5140	6260	6060	2120	1510	407	216	833	1210	3250	3180	4200	6680	4520	295	531	1450	1390	1510	1520
Flashpoint	°F	>200	>200	>200	--	--	--	--	--	>200	>200	>200	>200	--	--	--	--	--	--	>200	>200	>200	>200	--	--
Reactive Cyanide	mg/kg	<2.0	<2.0	<2.0	--	--	--	--	--	<2.0	<2.0	<2.0	<2.0	--	--	--	--	--	--	<2.0	<2.0	<2.0	<2.0	--	--
Reactive Sulfide	mg/kg	<2.0	<2.0	<2.0	--	--	--	--	--	<2.0	<2.0	<2.0	<2.0	--	--	--	--	--	--	<2.0	<2.0	<2.0	<2.0	--	--

Table 1
Soil Precharacterization Data

Wynn Resort Casino
Everett, Massachusetts

Analyte	Precharacterization Cell	J11	J11	J11	J11	J12	J12	J12	J12	J12	J12	J12	J12	J13	J13	J13	J13	J13	J13	J13	J13	J14	J14	J14
	Sample ID	J11S09	J11S10	J11S11	J11S12S13	J12S01S02A	J12S02BS03A	J12S06	J12S07	J12S08	J12S09	J12S10	J12S11S12	J13S01S02	J13S03S04	J13S05	J13S06	J13S07	J13S08	J13S09	J13S10	J13S11S12	J14S01S02A	J14S02BS04A	J14S04BS05
	Laboratory Work Order	1501390	1501390	1501390	1501390	1502125	1502125	1502142	1502142	1502142	1502142	1502142	1502142	1501390	1501390	1501430	1501430	1501430	1501430	1501430	1501430	1501430	1501567	1501567	1501567
	Soil Distinction	Natural	Natural	Natural	Natural	Fill	Fill	Fill	Natural	Natural	Natural	Natural	Natural	Fill	Fill	Fill	Fill	Natural	Natural	Natural	Natural	Natural	Fill	Fill	Fill
	Soil Type	Clay	Clay	Clay	Clay				Sand/Gravel	Clay	Clay	Clay	Clay					Sand/Gravel	Sand/Gravel	Clay	Clay	Clay			
	Depth Interval (ft.)	19 - 21	24 - 26	29 - 31	34 - 38	0 - 3.3	3.3 - 4.5	10 - 12	14 - 16	19 - 21	24 - 26	29 - 31	34 - 38	0 - 2.3	4 - 6.4	8 - 10	10 - 12	12 - 14	19 - 21	24 - 26	29 - 31	4 - 38	0 - 3.3	3.3 - 6.6	6.6 - 10
	Sampling Date	1/20/2015	1/20/2015	1/20/2015	1/20/2015	2/10/2015	2/10/2015	2/11/2015	2/11/2015	2/11/2015	2/11/2015	2/11/2015	2/11/2015	1/20/2015	1/20/2015	1/21/2015	1/21/2015	1/21/2015	1/21/2015	1/21/2015	1/21/2015	1/21/2015	1/30/2015	1/30/2015	1/30/2015
Preliminary Disposal Facility Category		MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type B	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Restricted	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A
RCRA 8 Metals	**Units**																								
Arsenic	mg/kg	15.3	16.1	10.9	9.54	8.28	7.84	26	<8.05	<7.71	18.9	14.3	13.9	<6.22	<7.46	19.3	18.7	10.5	<7.81	17	15.4	23.2	7.41	7.24	7.02
Barium	mg/kg	148	138	93.5	109	19.7	24.1	127	<8.05	18.3	94.7	110	109	22.2	29	138	58.5	8.84	15.7	103	104	125	18.6	20.1	24.3
Cadmium	mg/kg	<1.60	<1.54	<1.60	<1.59	<1.18	<1.42	2.32	2.62	<1.54	<1.49	<1.72	<1.70	<1.24	<1.49	<1.70	<1.71	<1.63	1.99	<1.61	<1.52	<1.82	<1.37	<1.23	<1.24
Chromium	mg/kg	62.7	70.1	64	52.1	20.3	17.5	36.6	12.9	<3.09	47.5	50.9	60.5	24.7	17.7	78.5	31.5	15.3	8.94	58.7	53.4	71.6	18.8	23.1	11.9
Lead	mg/kg	18.8	21	17.8	<15.9	28.7	<14.2	15100	48.7	18.7	<14.9	<17.2	<17.0	<12.4	33.5	151	72.5	<16.3	21.6	16.8	16.8	19.8	<13.7	14.2	52.2
Selenium	mg/kg	<7.99	<7.70	<7.99	<7.96	<5.91	<7.12	<9.16	<8.05	<7.71	<7.45	<8.62	<8.50	<6.22	<7.46	<8.49	<17.1	<16.3	<15.6	<8.03	<7.59	<9.11	<6.85	<6.16	<6.18
Silver	mg/kg	<1.60	<1.54	<1.60	<1.59	<1.18	<1.42	3.21	<1.61	<1.54	<1.49	<1.72	<1.70	<1.24	<1.49	<1.70	<1.71	<1.63	<1.56	<1.61	<1.52	<1.82	<1.37	<1.23	<1.24
Mercury	mg/kg	<0.040	<0.032	<0.040	<0.031	<0.029	<0.024	0.758	<0.040	<0.038	<0.041	<0.041	<0.042	<0.035	<0.037	0.056	0.078	<0.039	<0.039	<0.037	<0.034	<0.041	<0.024	<0.034	0.109
Metals by Toxicity Characteristic Leaching Procedure (TCLP)																									
Arsenic	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead	mg/L	--	--	--	--	--	--	5.46	--	--	--	--	--	--	--	<0.050	--	--	--	--	--	--	--	--	--
Selenium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Herbicides																									
2,4,5-T	mg/kg	<0.052	--	--	--	<0.054	<0.051	<0.075	--	--	--	--	--	<0.043	<0.043	<0.044	<0.056	<0.052	--	--	--	--	<0.053	<0.055	<1.4
2,4-D	mg/kg	<0.26	--	--	--	<0.054	<0.051	<0.075	--	--	--	--	--	<0.21	<0.21	<0.22	<0.28	<0.26	--	--	--	--	<0.053	<0.055	<1.4
2,4-DB	mg/kg	<0.020	--	--	--	<0.054	<0.051	<0.075	--	--	--	--	--	<0.016	<0.016	<0.017	<0.021	<0.019	--	--	--	--	<0.053	<0.055	<1.4
Dalapon	mg/kg	<1.6	--	--	--	<0.65	<0.61	<0.90	--	--	--	--	--	<1.3	<1.3	<1.3	<1.7	<1.5	--	--	--	--	<0.64	<0.67	<17
Dicamba	mg/kg	<0.078	--	--	--	<0.054	<0.051	<0.075	--	--	--	--	--	<0.064	<0.064	<0.066	<0.084	<0.077	--	--	--	--	<0.053	<0.055	<1.4
Dichlorprop	mg/kg	<0.17	--	--	--	<0.054	<0.051	<0.075	--	--	--	--	--	<0.14	<0.14	<0.14	<0.18	<0.17	--	--	--	--	<0.053	<0.055	<1.4
Dinoseb	mg/kg	<0.26	--	--	--	<0.32	<0.31	<0.45	--	--	--	--	--	<0.21	<0.21	<0.22	<0.28	<0.26	--	--	--	--	<0.32	<0.33	<8.6
MCPA	mg/kg	<65	--	--	--	<13	<12	<18	--	--	--	--	--	<53	<53	<55	<70	<65	--	--	--	--	<13	<13	<350
MCPP	mg/kg	<65	--	--	--	<13	<12	<18	--	--	--	--	--	<53	<53	<55	<70	<65	--	--	--	--	<13	<13	<350
Silvex (2,4,5-TP)	mg/kg	<0.052	--	--	--	<0.054	<0.051	<0.075	--	--	--	--	--	<0.043	<0.043	<0.044	<0.056	<0.052	--	--	--	--	<0.053	<0.055	<1.4
Pesticides																									
4,4'-DDD	mg/kg	<0.0022	--	--	--	<0.0090	<0.0017	<0.0052	--	--	--	--	--	<0.0089	<0.0018	<0.0019	<0.0024	<0.0022	--	--	--	--	<0.0018	<0.0019	<0.0020
4,4'-DDE	mg/kg	<0.0022	--	--	--	<0.0090	<0.0017	<0.0052	--	--	--	--	--	<0.0089	<0.0018	<0.0019	<0.0024	<0.0022	--	--	--	--	<0.0018	<0.0019	<0.0020
4,4'-DDT	mg/kg	<0.0022	--	--	--	<0.0090	<0.0017	<0.0052	--	--	--	--	--	<0.0089	<0.0018	<0.0019	<0.0024	<0.0022	--	--	--	--	<0.0018	<0.0019	<0.0020
Aldrin	mg/kg	<0.0022	--	--	--	<0.0091	<0.0017	<0.0052	--	--	--	--	--	<0.0089	<0.0018	<0.0019	<0.0024	<0.0022	--	--	--	--	<0.0018	<0.0019	<0.0020
alpha-BHC	mg/kg	<0.0022	--	--	--	<0.0091	<0.0017	<0.0052	--	--	--	--	--	<0.0089	<0.0018	<0.0019	<0.0024	<0.0022	--	--	--	--	<0.0018	<0.0019	<0.0020
beta-BHC	mg/kg	<0.0022	--	--	--	<0.0091	<0.0017	<0.0052	--	--	--	--	--	<0.0089	<0.0018	<0.0019	<0.0024	<0.0022	--	--	--	--	<0.0018	<0.0019	<0.0020
Chlordane (technical)	mg/kg	<0.065	--	--	--	<0.091	<0.017	<0.052	--	--	--	--	--	<0.26	<0.052	<0.019	<0.024	<0.022	--	--	--	--	<0.018	<0.019	<0.020
delta-BHC	mg/kg	<0.0022	--	--	--	<0.0091	<0.0017	<0.0052	--	--	--	--	--	<0.0089	<0.0018	<0.0019	<0.0024	<0.0022	--	--	--	--	<0.0018	<0.0019	<0.0020
Dieldrin	mg/kg	<0.0022	--	--	--	<0.0091	<0.0017	<0.0052	--	--	--	--	--	<0.0089	<0.0018	<0.0019	<0.0024	<0.0022	--	--	--	--	<0.0018	<0.0019	<0.0020
Endosulfan I	mg/kg	<0.0022	--	--	--	<0.0091	<0.0017	<0.0052	--	--	--	--	--	<0.0089	<0.0018	<0.0019	<0.0024	<0.0022	--	--	--	--	<0.0018	<0.0019	<0.0020
Endosulfan II	mg/kg	<0.0022	--	--	--	<0.0091	<0.0017	<0.0052	--	--	--	--	--	<0.0089	<0.0018	<0.0019	<0.0024	<0.0022	--	--	--	--	<0.0018	<0.0019	<0.0020
Endosulfan sulfate	mg/kg	<0.0022	--	--	--	<0.0091	<0.0017	<0.0052	--	--	--	--	--	<0.0089	<0.0018	<0.0019	<0.0024	<0.0022	--	--	--	--	<0.0018	<0.0019	<0.0020
Endrin	mg/kg	<0.0022	--	--	--	<0.0091	<0.0017	<0.0052	--	--	--	--	--	<0.0089	<0.0018	<0.0019	<0.0024	<0.0022	--	--	--	--	<0.0018	<0.0019	<0.0020
Endrin ketone	mg/kg	<0.0022	--	--	--	<0.0091	<0.0017	<0.0052	--	--	--	--	--	<0.0089	<0.0018	<0.0019	<0.0024	<0.0022	--	--	--	--	<0.0018	<0.0019	<0.0020
gamma-BHC (Lindane)	mg/kg	<0.0022	--	--	--	<0.0091	<0.0017	<0.0052	--	--	--	--	--	<0.0089	<0.0018	<0.0019	<0.0024	<0.0022	--	--	--	--	<0.0018	<0.0019	<0.0020
Heptachlor	mg/kg	<0.0022	--	--	--	<0.0091	<0.0017	<0.0052	--	--	--	--	--	<0.0089	<0.0018	<0.0019	<0.0024	<0.0022	--	--	--	--	<0.0018	<0.0019	<0.0020
Heptachlor epoxide	mg/kg	<0.0022	--	--	--	<0.0091	<0.0017	<0.0052	--	--	--	--	--	<0.0089	<0.0018	<0.0019	<0.0024	<0.0022	--	--	--	--	<0.0018	<0.0019	<0.0020
Hexachlorobenzene	mg/kg	<0.0022	--	--	--	<0.0091	<0.0017	<0.0052	--	--	--	--	--	<0.0089	<0.0018	<0.0019	<0.0024	<0.0022	--	--	--	--	<0.0018	<0.0019	<0.0020
Methoxychlor	mg/kg	<0.0043	--	--	--	<0.0091	<0.0017	<0.0052	--	--	--	--	--	<0.017	<0.0034	<0.0019	<0.0024	<0.0022	--	--	--	--	<0.0018	<0.0019	<0.0020
Polychlorinated Biphenyls																									
Aroclor 1016	mg/kg	<0.159	<0.157	<0.160	<0.166	<0.136	<0.134	<0.173	<0.149	<0.157	<0.153	<0.162	<0.169	<0.127	<0.142	<0.161	<0.160	<0.154	<0.154	<0.151	<0.138	<0.169	<0.124	<0.132	<0.141
Aroclor 1221	mg/kg	<0.159	<0.157	<0.160	<0.166	<0.136	<0.134	<0.173	<0.149	<0.157	<0.153	<0.162	<0.169	<0.127	<0.142	<0.161	<0.160	<0.154	<0.154	<0.151	<0.138	<0.169	<0.124	<0.132	<0.141
Aroclor 1232	mg/kg	<0.159	<0.157	<0.160	<0.166	<0.136	<0.134	<0.173	<0.149	<0.157	<0.153	<0.162	<0.169	<0.127	<0.142	<0.161	<0.160	<0.154	<0.154	<0.151	<0.138	<0.169	<0.124	<0.132	<0.141
Aroclor 1242	mg/kg	<0.159	<0.157	<0.160	<0.166	<0.136	<0.134	<0.173	<0.149	<0.157	<0.153	<0.162	<0.169	<0.127	<0.142	<0.161	<0.160	<0.154	<0.154	<0.151	<0.138	<0.169	<0.124	<0.132	<0.141
Aroclor 1248	mg/kg	<0.159	<0.157	<0.160	<0.166	<0.136	<0.134	<0.173	<0.149	<0.157	<0.153	<0.162	<0.169	<0.127	<0.142	<0.161	<0.160	<0.154	<0.154	<0.151	<0.138	<0.169	<0.124	<0.132	<0.141
Aroclor 1254	mg/kg	<0.159	<0.157	<0.160	<0.166	<0.136	<0.134	<0.173	<0.149	<0.157	<0.153	<0.162	<0.169	<0.127	1.31	<0.161	<0.160	<0.154	<0.154	<0.151	<0.138	<0.169	<0.124	<0.132	1.46
Aroclor 1260	mg/kg	<0.159	<0.157	<0.160	<0.166	<0.136	<0.134	<0.173	<0.149	<0.157	<0.153	<0.162	<0.169	<0.127	0.379	<0.161	<0.160	<0.154	<0.154	<0.151	<0.138	<0.169	<0.124	<0.132	0.261
Aroclor 1262	mg/kg	<0.159	<0.157	<0.160	<0.166	<0.136	<0.134	0.43	<0.149	<0.157	<0.153	<0.162	<0.169	<0.127	<0.142	<0.161	<0.160	<0.154	<0.154	<0.151	<0.138	<0.169	<0.124	<0.132	<0.141
Aroclor 1268	mg/kg	<0.159	<0.157	<0.160	<0.166	<0.136	<0.134	<0.173	<0.149	<0.157	<0.153	<0.162	<0.169	<0.127	<0.142	<0.161	<0.160	<0.154	<0.154	<0.151	<0.138	<0.169	<0.124	<0.132	<0.141
Total PCBs	mg/kg	ND	ND	ND	ND	ND	ND	0.43	ND	ND	ND	ND	ND	ND	1.689	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.721
Total Petroleum Hydrocarbons	mg/kg	<48.2	<50.2	<50.5	<51.5	551	42.6	611	<48.0	<46.4	<47.5	<51.0	<54.5	<40.6	209	<45.7	<47.7	57.2	<45.7	<47.1	<41.5	<50.2	58.4	131	880
Volatile Organic Compounds (VOCs)																									
1,1,1,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-Chloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane - Screen	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Butanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Isopropyltoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-Pentanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Disulfide	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	J11 J11S09 1501390 Natural Clay 19 - 21 1/20/2015	J11 J11S10 1501390 Natural Clay 24 - 26 1/20/2015	J11 J11S11 1501390 Natural Clay 29 - 31 1/20/2015	J11 J11S12S13 1501390 Natural Clay 34 - 38 1/20/2015	J12 J12S01S02A 1502125 Fill 0 - 3.3 2/10/2015	J12 J12S02BS03A 1502125 Fill 3.3 - 4.5 2/10/2015	J12 J12S06 1502142 Fill 10 - 12 2/11/2015	J12 J12S07 1502142 Natural Sand/Gravel 14 - 16 2/11/2015	J12 J12S08 1502142 Natural Clay 19 - 21 2/11/2015	J12 J12S09 1502142 Natural Clay 24 - 26 2/11/2015	J12 J12S10 1502142 Natural Clay 29 - 31 2/11/2015	J12 J12S11S12 1502142 Natural Clay 34 - 38 2/11/2015	J13 J13S01S02 1501390 Fill 0 - 2.3 1/20/2015	J13 J13S03S04 1501390 Fill 4 - 6.4 1/20/2015	J13 J13S05 1501430 Fill 8 - 10 1/21/2015	J13 J13S06 1501430 Fill 10 - 12 1/21/2015	J13 J13S07 1501430 Natural Sand/Gravel 12 - 14 1/21/2015	J13 J13S08 1501430 Natural Sand/Gravel 19 - 21 1/21/2015	J13 J13S09 1501430 Natural Clay 24 - 26 1/21/2015	J13 J13S10 1501430 Natural Clay 29 - 31 1/21/2015	J13 J13S11S12 1501430 Natural Clay 4 - 38 1/21/2015	J14 J14S01S02A 1501567 Fill 0 - 3.3 1/30/2015	J14 J14S02BS04A 1501567 Fill 3.3 - 6.6 1/30/2015	J14 J14S04BS05 1501567 Fill 6.6 - 10 1/30/2015
Preliminary Disposal Facility Category		MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type B	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Restricted	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A
Chlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Diethyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Di-isopropyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethyl tertiary-butyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
tert-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tertiary-amyl methyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene O	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene P,M	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylenes (Total)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total VOCs	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds - Low Level Analysis																									
1,1,1,2-Tetrachloroethane	mg/kg	<0.0038	<0.0042	<0.0044	<0.0057	<0.0046	<0.0053	<0.0055	<0.0038	<0.0042	<0.0039	<0.0038	<0.0044	<0.0046	<0.0034	<0.0069	<0.0062	<0.0069	<0.0043	<0.0033	<0.0045	<0.0036	<0.0047	<0.0051	<0.0053
1,1,1-Trichloroethane	mg/kg	<0.0038	<0.0042	<0.0044	<0.0057	<0.0046	<0.0053	<0.0055	<0.0038	<0.0042	<0.0039	<0.0038	<0.0044	<0.0046	<0.0034	<0.0069	<0.0062	<0.0069	<0.0043	<0.0033	<0.0045	<0.0036	<0.0047	<0.0051	<0.0053
1,1,2,2-Tetrachloroethane	mg/kg	<0.0015	<0.0017	<0.0017	<0.0023	<0.0018	<0.0021	<0.0022	<0.0015	<0.0017	<0.0016	<0.0015	<0.0018	<0.0018	<0.0013	<0.0028	<0.0025	<0.0027	<0.0017	<0.0013	<0.0018	<0.0014	<0.0019	<0.0021	<0.0021
1,1,2-Trichloroethane	mg/kg	<0.0038	<0.0042	<0.0044	<0.0057	<0.0046	<0.0053	<0.0055	<0.0038	<0.0042	<0.0039	<0.0038	<0.0044	<0.0046	<0.0034	<0.0069	<0.0062	<0.0069	<0.0043	<0.0033	<0.0045	<0.0036	<0.0047	<0.0051	<0.0053
1,1-Dichloroethane	mg/kg	<0.0038	<0.0042	<0.0044	<0.0057	<0.0046	<0.0053	<0.0055	<0.0038	<0.0042	<0.0039	<0.0038	<0.0044	<0.0046	<0.0034	<0.0069	<0.0062	<0.0069	<0.0043	<0.0033	<0.0045	<0.0036	<0.0047	<0.0051	<0.0053
1,1-Dichloroethene	mg/kg	<0.0038	<0.0042	<0.0044	<0.0057	<0.0046	<0.0053	<0.0055	<0.0038	<0.0042	<0.0039	<0.0038	<0.0044	<0.0046	<0.0034	<0.0069	<0.0062	<0.0069	<0.0043	<0.0033	<0.0045	<0.0036	<0.0047	<0.0051	<0.0053
1,1-Dichloropropene	mg/kg	<0.0038	<0.0042	<0.0044	<0.0057	<0.0046	<0.0053	<0.0055	<0.0038	<0.0042	<0.0039	<0.0038	<0.0044	<0.0046	<0.0034	<0.0069	<0.0062	<0.0069	<0.0043	<0.0033	<0.0045	<0.0036	<0.0047	<0.0051	<0.0053
1,2,3-Trichlorobenzene	mg/kg	<0.0038	<0.0042	<0.0044	<0.0057	<0.0046	<0.0053	<0.0055	<0.0038	<0.0042	<0.0039	<0.0038	<0.0044	<0.0046	<0.0034	<0.0069	<0.0062	<0.0069	<0.0043	<0.0033	<0.0045	<0.0036	<0.0047	<0.0051	<0.0053
1,2,3-Trichloropropane	mg/kg	<0.0038	<0.0042	<0.0044	<0.0057	<0.0046	<0.0053	<0.0055	<0.0038	<0.0042	<0.0039	<0.0038	<0.0044	<0.0046	<0.0034	<0.0069	<0.0062	<0.0069	<0.0043	<0.0033	<0.0045	<0.0036	<0.0047	<0.0051	<0.0053
1,2,4-Trichlorobenzene	mg/kg	<0.0038	<0.0042	<0.0044	<0.0057	<0.0046	<0.0053	<0.0055	<0.0038	<0.0042	<0.0039	<0.0038	<0.0044	<0.0046	<0.0034	<0.0069	<0.0062	<0.0069	<0.0043	<0.0033	<0.0045	<0.0036	<0.0047	<0.0051	<0.0053
1,2,4-Trimethylbenzene	mg/kg	<0.0038	<0.0042	<0.0044	<0.0057	<0.0046	<0.0053	<0.0055	<0.0038	<0.0042	<0.0039	<0.0038	<0.0044	<0.0046	<0.0034	<0.0069	<0.0062	<0.0069	<0.0043	<0.0033	<0.0045	<0.0036	<0.0047	<0.0051	<0.0053
1,2-Dibromo-3-Chloropropane	mg/kg	<0.0038	<0.0042	<0.0044	<0.0057	<0.0046	<0.0053	<0.0055	<0.0038	<0.0042	<0.0039	<0.0038	<0.0044	<0.0046	<0.0034	<0.0069	<0.0062	<0.0069	<0.0043	<0.0033	<0.0045	<0.0036	<0.0047	<0.0051	<0.0053
1,2-Dibromoethane	mg/kg	<0.0038	<0.0042	<0.0044	<0.0057	<0.0046	<0.0053	<0.0055	<0.0038	<0.0042	<0.0039	<0.0038	<0.0044	<0.0046	<0.0034	<0.0069	<0.0062	<0.0069	<0.0043	<0.0033	<0.0045	<0.0036	<0.0047	<0.0051	<0.0053
1,2-Dichlorobenzene	mg/kg	<0.0038	<0.0042	<0.0044	<0.0057	<0.0046	<0.0053	<0.0055	<0.0038	<0.0042	<0.0039	<0.0038	<0.0044	<0.0046	<0.0034	<0.0069	<0.0062	<0.0069	<0.0043	<0.0033	<0.0045	<0.0036	<0.0047	<0.0051	<0.0053
1,2-Dichloroethane	mg/kg	<0.0038	<0.0042	<0.0044	<0.0057	<0.0046	<0.0053	<0.0055	<0.0038	<0.0042	<0.0039	<0.0038	<0.0044	<0.0046	<0.0034	<0.0069	<0.0062	<0.0069	<0.0043	<0.0033	<0.0045	<0.0036	<0.0047	<0.0051	<0.0053
1,2-Dichloropropane	mg/kg	<0.0038	<0.0042	<0.0044	<0.0057	<0.0046	<0.0053	<0.0055	<0.0038	<0.0042	<0.0039	<0.0038	<0.0044	<0.0046	<0.0034	<0.0069	<0.0062	<0.0069	<0.0043	<0.0033	<0.0045	<0.0036	<0.0047	<0.0051	<0.0053
1,3,5-Trimethylbenzene	mg/kg	<0.0038	<0.0042	<0.0044	<0.0057	<0.0046	<0.0053	<0.0055	<0.0038	<0.0042	<0.0039	<0.0038	<0.0044	<0.0046	<0.0034	<0.0069	<0.0062	<0.0069	<0.0043	<0.0033	<0.0045	<0.0036	<0.0047	<0.0051	<0.0053
1,3-Dichlorobenzene	mg/kg	<0.0038	<0.0042	<0.0044	<0.0057	<0.0046	<0.0053	<0.0055	<0.0038	<0.0042	<0.0039	<0.0038	<0.0044	<0.0046	<0.0034	<0.0069	<0.0062	<0.0069	<0.0043	<0.0033	<0.0045	<0.0036	<0.0047	<0.0051	<0.0053
1,3-Dichloropropane	mg/kg	<0.0038	<0.0042	<0.0044	<0.0057	<0.0046	<0.0053	<0.0055	<0.0038	<0.0042	<0.0039	<0.0038	<0.0044	<0.0046	<0.0034	<0.0069	<0.0062	<0.0069	<0.0043	<0.0033	<0.0045	<0.0036	<0.0047	<0.0051	<0.0053
1,4-Dichlorobenzene	mg/kg	<0.0038	<0.0042	<0.0044	<0.0057	<0.0046	<0.0053	<0.0055	<0.0038	<0.0042	<0.0039	<0.0038	<0.0044	<0.0046	<0.0034	<0.0069	<0.0062	<0.0069	<0.0043	<0.0033	<0.0045	<0.0036	<0.0047	<0.0051	<0.0053
1,4-Dioxane	mg/kg	<0.0755	<0.0838	<0.0875	<0.113	<0.0912	<0.106	<0.111	<0.0767	<0.0841	<0.0777	<0.0767	<0.0886	<0.0911	<0.0675	<0.139	<0.124	<0.137	<0.0861	<0.0668	<0.0907	<0.0723	<0.0946	<0.103	<0.106
2,2-Dichloropropane	mg/kg	<0.0038	<0.0042	<0.0044	<0.0057	<0.0046	<0.0053	<0.0055	<0.0038	<0.0042	<0.0039	<0.0038	<0.0044	<0.0046	<0.0034	<0.0069	<0.0062	<0.0069	<0.0043	<0.0033	<0.0045	<0.0036	<0.0047	<0.0051	<0.0053
2-Butanone	mg/kg	<0.0075	<0.0084	<0.0087	<0.0113	<0.0091	<0.0106	<0.0111	<0.0077	<0.0084	<0.0078	<0.0077	<0.0089	<0.0091	<0.0067	<0.0139	<0.0124	<0.0137	<0.0086	<0.0067	<0.0091	<0.0072	<0.0095	<0.0103	<0.0106
2-Chlorotoluene	mg/kg	<0.0038	<0.0042	<0.0044	<0.0057	<0.0046	<0.0053	<0.0055	<0.0038	<0.0042	<0.0039	<0.0038	<0.0044	<0.0046	<0.0034	<0.0069	<0.0062	<0.0069	<0.0043	<0.0033	<0.0045	<0.0036	<0.0047	<0.0051	<0.0053
2-Hexanone	mg/kg	<0.0075	<0.0084	<0.0087	<0.0113	<0.0091	<0.0106	<0.0111	<0.0077	<0.0084	<0.0078	<0.0077	<0.0089	<0.0091	<0.0067	<0.0139	<0.0124	<0.0137	<0.0086	<0.0067	<0.0091	<0.0072	<0.0095	<0.0103	<0.0106
4-Chlorotoluene	mg/kg	<0.0038	<0.0042	<0.0044	<0.0057	<0.0046	<0.0053	<0.0055	<0.0038	<0.0042	<0.0039	<0.0038	<0.0044	<0.0046	<0.0034	<0.0069	<0.0062	<0.0069	<0.0043	<0.0033	<0.0045	<0.0036	<0.0047	<0.0051	<0.0053
4-Isopropyltoluene	mg/kg	<0.0038	0.0188	0.141	<0.0057	<0.0046	<0.0053	<0.0055	<0.0038	<0.0042	<0.0039	<0.0038	<0.0044	<0.0046	<0.0034	<0.0069	<0.0062	<0.0069	<0.0043	<0.0033	<0.0045	<0.0036	<0.0047	<0.0051	<0.0053
4-Methyl-2-Pentanone	mg/kg	<0.0075	<0.0084	<0.0087	<0.0113	<0.0091	<0.0106	<0.0111	<0.0077	<0.0084	<0.0078	<0.0077	<0.0089	<0.0091	<0.0067	<0.0139	<0.0124	<0.0137	<0.0086	<0.0067	<0.0091	<0.0072	<0.0095	<0.0103	<0.0106
Acetone	mg/kg	<0.0075	<0.0084	<0.0087	0.0139	0.0197	<0.0106	0.0244	0.0225	0.0087	0.014	<0.0077	<0.0089	<0.0091	0.0147	<0.0139	0.0555	0.0511	0.0108	<0.0067	<0.0091	<0.0072	<0.0095	<0.0103	<0.0106
Benzene	mg/kg	<0.0038	<0.0042	<0.0044	<0.0057	<0.0046	<0.0053	<0.0055	<0.0038	<0.0042	<0.0039	<0.0038	<0.0044	<0.0046	<0.0034	<0.0069	<0.0062	<0.0069	<0.0043	<0.0033	<0.0045	<0.0036	<0.0047	<0.0051	<0.0053
Bromobenzene	mg/kg	<0.0038	<0.0042	<0.0044	<0.0057	<0.0046	<0.0053	<0.0055	<0.0038	<0.0042	<0.0039	<0.0038	<0.0044	<0.0046	<0.0034	<0.0069	<0.0062	<0.0069	<0.0043	<0.0033	<0.0045	<0.0036	<0.0047	<0.0051	<0.0053
Bromochloromethane	mg/kg	<0.0038	<0.0042	<0.0044	<0.0057	<0.0046	<0.0053	<0.0055	<0.0038	<0.0042	<0.0039	<0.0038	<0.0044	<0.0046	<0.0034	<0.0069	<0.0062	<0.0069	<0.0043	<0.0033	<0.0045	<0.0036	<0.0047	<0.0051	<0.0053
Bromodichloromethane	mg/kg	<0.0038	<0.0042	<0.0044	<0.0057	<0.0046	<0.0053	<0.0055	<0.0038	<0.0042	<0.0039	<0.0038	<0.0044	<0.0046	<0.0034	<0.0069	<0.0062	<0.0069	<0.0043	<0.0033	<0.0045	<0.0036	<0.0047	<0.0051	<0.0053
Bromoform	mg/kg	<0.0038	<0.0042	<0.0044	<0.0057	<0.0046	<0.0053	<0.0055	<0.0038	<0.0042	<0.0039	<0.0038	<0.0044	<0.0046	<0.0034	<0.0069	<0.0062	<0.0069	<0.0043	<0.0033	<0.0045	<0.0036	<0.0047	<0.0051	<0.0053
Bromomethane	mg/kg	<0.0075	<0.0084	<0.0087	<0.0113	<0.0091	<0.0106	<0.0111	<0.0077	<0.0084	<0.0078	<0.0077	<0.0089	<0.0091	<0.0067	<0.0139	<0.0124	<0.0137	<0.0086	<0.0067	<0.0091	<0.0072	<0.0095	<0.0103	<0.0106
Carbon Disulfide	mg/kg	<0.0038	<0.0042	<0.0044	<0.0057	<0.0046	<0.0053	<0.0055	<0.0038	<0.0042	<0.0039	<0.0038	<0.0044	<0.0046	<0.0034	<0.0069	<0.0062	<0.0069	<0.0043	<0.0033	<0.0045	<0.0036	<0.0047	<0.0051	<0.0053
Carbon Tetrachloride	mg/kg	<0.0038	<0.0042	<0.0044	<0.0057	<0.0046	<0.0053	<0.0055	<0.0038	<0.0042	<0.0039	<0.0038	<0.0044	<0.0046	<0.0034	<0.0069	<0.0062	<0.0069	<0.0043	<0.0033	<0.0045	<0.0036	<0.0047	<0.0051	<0.0053
Chlorobenzene	mg/kg	<0.0038	<0.0042	<0.0044	<0.0057	<0.0046	<0.0053	<0.0055	<0.0038	<0.0042	<0.0039	<0.0038	<0.0044	<0.0046	<0.0034	<0.0069	<0.0062	<0.0069	<0.0043	<0.0033	<0.0045	<0.0036	<0.0047	<0.0051	<0.0053
Chloroethane	mg/kg	<0.0075	<0.0084	<0.0087	<0.0113	<0.0091	<0.0106	<0.0111	<0.0077	<0.0084	<0.0078	<0.0077	<0.0089	<0.0091	<0.0067	<0.0139	<0.0124	<0.0137	<0.0086	<0.0067	<0.0091	<0.0072	<0.0095	<0.0103	<0.0106
Chloroform	mg/kg	<0.0038	<0.0042	<0.0044	<0.0057	<0.0046	<0.0053	<0.0055	<0.0038	<0.0042	<0.0039	<0.0038	<0.0044	<0.0046	<0.0034	<0.0069	<0.0062	<0.0069	<0.0043	<0.0033	<0.0045	<0.0036	<0.0047	<0.0051	<0.0053
Chloromethane	mg/kg	<0.0075	<0.0084	<0.0087	<0.0113	<0.0091	<0.0106	<0.0111	<0.0077	<0.0084	<0.0078	<0.0077	<0.0089	<0.0091	<0.0067	<0.0139	<0.0124	<0.0137	<0.0086	<0.0067	<0.0091	<0.0072	<0.0095	<0.0103	<0.0106
cis-1,2-Dichloroethene	mg/kg	<0.0038	<0.0042	<0.0044	<0.0057	<0.0046	<0.0053	<0.0055	<0.0038	<0.0042	<0.0039	<0.0038	<0.0044	<0.0046	<0.0034	<0.0069	<0.0062	<0.0069	<0.0043	<0.0033	<0.0045	<0.0036	<0.0047	<0.0051	<0.0053
cis-1,3-Dichloropropene	mg/kg	<0.0038	<0.0042	<0.0044	<0.0057	<0.0046	<0.0053	<0.0055	<0.0038	<0.0042	<0.0039	<0.0038	<0.0044	<0.0046	<0.0034	<0.0069	<0.0062	<0.0069	<0.0043	<0.0033	<0.0045	<0.0036	<0.0047	<0.0051	<0.0053
Dibromochloromethane	mg/kg	<0.0015	<0.0017	<0.0017	<0.0023	<0.0018	<0.0021	<0.0022	<0.0015	<0.0017	<0.0016	<0.0015	<0.0018	<0.0018	<0.0013	<0.0028	<0.0025	<0.0027	<0.0017	<0.0013	<0.0018	<0.0014	<0.0019	<0.0021	<0.0021
Dibromomethane	mg/kg	<0.0038	<0.0042	<0.0044	<0.0057	<0.0046	<0.0053	<0.0055	<0.0038	<0.0042	<0.0039	<0.0038	<0.0044	<0.0046	<0.0034	<0.0069	<0.0062	<0.0069	<0.0043	<0.0033	<0.0045	<0.0036	<0.0047	<0.0051	<0.0053
Dichlorodifluoromethane	mg/kg	<0.0075	<0.0084	<0.0087	<0.0113	<0.0091	<0.0106	<0.0111	<0.0077	<0.0084	<0.0078	<0.0077	<0.0089	<0.0091	<0.0067	<0.0139	<0.0124	<0.0137	<0.0086	<0.0067	<0.0091	<0.0072	<0.0095	<0.0103	<0.0106
Diethyl Ether	mg/kg	<0.0038	<0.0042	<0.0044	<0.0057	<0.0046	<0.0053	<0.0055	<0.0038	<0.0042	<0.0039	<0.0038	<0.0044	<0.0046	<0.0034	<0.0069	<0.0062	<0.0069	<0.0043	<0.0033	<0.0045	<0.0036	<0.0047	<0.0051	<0.0053
Di-isopropyl ether	mg/kg	<0.0038	<0.0042	<0.0044	<0.0057	<0.0046	<0.0053	<0.0055	<0.0038	<0.0042	<0.0039	<0.0038	<0.0044	<0.0046	<0.0034	<0.0069	<0.0062	<0.0069	<0.0043	<0.0033	<0.0045	<0.0036	<0.0047	<0.0051	<0.0053
Ethyl tertiary-butyl ether	mg/kg	<0.0038	<0.0042	<0.0044	<0.0057	<0.0046	<0.0053	<0.0055	<0.0038	<0.0042	<0.0039	<0.0038	<0.0044	<0.0046	<0.0034	<0.0069	<0.0062	<0.0069	<0.0043	<0.0033	<0.0045	<0.0036	<0.0047	<0.0051	<0.0053
Ethylbenzene	mg/kg	<0.0038	<0.0042	<0.0044	<0.0057	<0.0046	<0.0053	<0.0055	<0.0038	<0.0042	<0.0039	<0.0038	<0.0044	<0.0046	<0.0034	<0.0069	<0.0062	<0.0069	<0.0043	<0.0033	<0.0045	<0.0036	<0.0047	<0.0051	<0.0053
Hexachlorobutadiene	mg/kg	<0.0038	<0.0042	<0.0044	<0.0057	<0.0046	<0.0053	<0.0055	<0.0038	<0.0042	<0.0039	<0.0038	<0.0044	<0.0046	<0.0034	<0.0069	<0.0062	<0.0069	<0.0043	<0.0033	<0.0045	<0.0036	<0.0047	<0.0051	<0.0053
Isopropylbenzene	mg/kg	<0.0038	<0.0042	<0.0044	<0.0057	<0.0046	<0.0053	<0.0055	<0.0038	<0.0042	<0.0039	<0.0038	<0.0044	<0.0046	<0.0034	<0.0069	<0.0062	<0.0069	<0.0043	<0.0033	<0.0045	<0.0036	<0.0047	<0.0051	<0.0053
Methyl tert-Butyl Ether	mg/kg	<0.0038	<0.0042	<0.0044	<0.0057	<0.0046	<0.0053	<0.0055	<0.0038	<0.0042	<0.0039	<0.0038	<0.0044	<0.0046	<0.0034	<0.0069	<0.0062	<0.0069	<0.0043	<0.0033	<0.0045	<0.0036	<0.0047	<0.0051	<0.0053
Methylene Chloride	mg/kg	<0.0075	<0.0084	<0.0087	<0.0113	<0.0091	<0.0106	<0.0111	<0.0077	<0.0084	<0.0078	<0.0077	<0.0089	<0.0091	<0.0067	<0.0139	<0.0124	<0.0137	<0.0086	<0.0067	<0.0091	<0.0072	<0.0095	<0.0103	<0.0106
Naphthalene	mg/kg	<0.0038	<0.0042	<0.0044	<0.0057	<0.0046	<0.0053	<0.0055	<0.0038	<0.0042	<0.0039	<0.0038	<0.0044	<0.0046	<0.0034	<0.0069	<0.0062	<0.0069	<0.0043	<0.0033	<0.0045	<0.0036	<0.0047	<0.0051	<0.0053
n-Butylbenzene	mg/kg	<0.0038	<0.0042	<0.0044	<0.0057	<0.0046	<0.0053	<0.0055	<0.0038	<0.0042	<0.0039	<0.0038	<0.0044	<0.0046	<0.0034	<0.0069	<0.0062	<0.0069	<0.0043	<0.0033	<0.0045	<0.0036	<0.0047	<0.0051	<0.0053
n-Propylbenzene	mg/kg	<0.0038	<0.0042	<0.0044	<0.0057	<0.0046	<0.0053	<0.0055	<0.0038	<0.0042	<0.0039	<0.0038	<0.0044	<0.0046	<0.0034	<0.0069	<0.0062	<0.0069	<0.0043	<0.0033	<0.0045	<0.0036	<0.0047	<0.0051	<0.0053
sec-Butylbenzene	mg/kg	<0.0038	<0.0042	<0.0044	<0.0057	<0.0046	<0.0053	<0.0055	<0.0038	<0.0042	<0.0039	<0.0038	<0.0044	<0.0046	<0.0034	<0.0069	<0.0062	<0.0069	<0.0043	<0.0033	<0.0045	<0.0036	<0.0047	<0.0051	<0.0053

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	J11 J11S09 1501390 Natural Clay 19 - 21 1/20/2015	J11 J11S10 1501390 Natural Clay 24 - 26 1/20/2015	J11 J11S11 1501390 Natural Clay 29 - 31 1/20/2015	J11 J11S12S13 1501390 Natural Clay 34 - 38 1/20/2015	J12 J12S01S02A 1502125 Fill 0 - 3.3 2/10/2015	J12 J12S02BS03A 1502125 Fill 3.3 - 4.5 2/10/2015	J12 J12S06 1502142 Fill 10 - 12 2/11/2015	J12 J12S07 1502142 Natural Sand/Gravel 14 - 16 2/11/2015	J12 J12S08 1502142 Natural Clay 19 - 21 2/11/2015	J12 J12S09 1502142 Natural Clay 24 - 26 2/11/2015	J12 J12S10 1502142 Natural Clay 29 - 31 2/11/2015	J12 J12S11S12 1502142 Natural Clay 34 - 38 2/11/2015	J13 J13S01S02 1501390 Fill 0 - 2.3 1/20/2015	J13 J13S03S04 1501390 Fill 4 - 6.4 1/20/2015	J13 J13S05 1501430 Fill 8 - 10 1/21/2015	J13 J13S06 1501430 Fill 10 - 12 1/21/2015	J13 J13S07 1501430 Natural Sand/Gravel 12 - 14 1/21/2015	J13 J13S08 1501430 Natural Sand/Gravel 19 - 21 1/21/2015	J13 J13S09 1501430 Natural Clay 24 - 26 1/21/2015	J13 J13S10 1501430 Natural Clay 29 - 31 1/21/2015	J13 J13S11S12 1501430 Natural Clay 34 - 38 1/21/2015	J14 J14S01S02A 1501567 Fill 0 - 3.3 1/30/2015	J14 J14S02BS04A 1501567 Fill 3.3 - 6.6 1/30/2015	J14 J14S04BS05 1501567 Fill 6.6 - 10 1/30/2015
Preliminary Disposal Facility Category		MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type B	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Restricted	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A
Styrene	mg/kg	<0.0038	<0.0042	<0.0044	<0.0057	<0.0046	<0.0053	<0.0055	<0.0038	<0.0042	<0.0039	<0.0038	<0.0044	<0.0046	<0.0034	<0.0069	<0.0062	<0.0069	<0.0043	<0.0033	<0.0045	<0.0036	<0.0047	<0.0051	<0.0053
tert-Butylbenzene	mg/kg	<0.0038	<0.0042	<0.0044	<0.0057	<0.0046	<0.0053	<0.0055	<0.0038	<0.0042	<0.0039	<0.0038	<0.0044	<0.0046	<0.0034	<0.0069	<0.0062	<0.0069	<0.0043	<0.0033	<0.0045	<0.0036	<0.0047	<0.0051	<0.0053
Tertiary-amyl methyl ether	mg/kg	<0.0038	<0.0042	<0.0044	<0.0057	<0.0046	<0.0053	<0.0055	<0.0038	<0.0042	<0.0039	<0.0038	<0.0044	<0.0046	<0.0034	<0.0069	<0.0062	<0.0069	<0.0043	<0.0033	<0.0045	<0.0036	<0.0047	<0.0051	<0.0053
Tetrachloroethene	mg/kg	<0.0038	<0.0042	<0.0044	<0.0057	<0.0046	<0.0053	<0.0055	<0.0038	<0.0042	<0.0039	<0.0038	<0.0044	<0.0046	<0.0034	<0.0069	<0.0062	<0.0069	<0.0043	<0.0033	<0.0045	<0.0036	<0.0047	<0.0051	<0.0053
Tetrahydrofuran	mg/kg	<0.0038	<0.0042	<0.0044	<0.0057	<0.0046	<0.0053	<0.0055	<0.0038	<0.0042	<0.0039	<0.0038	<0.0044	<0.0046	<0.0034	<0.0069	<0.0062	<0.0069	<0.0043	<0.0033	<0.0045	<0.0036	<0.0047	<0.0051	<0.0053
Toluene	mg/kg	<0.0038	<0.0042	<0.0044	<0.0057	<0.0046	<0.0053	<0.0055	<0.0038	<0.0042	<0.0039	<0.0038	<0.0044	<0.0046	<0.0034	<0.0069	<0.0062	<0.0069	<0.0043	<0.0033	<0.0045	<0.0036	<0.0047	<0.0051	<0.0053
trans-1,2-Dichloroethene	mg/kg	<0.0038	<0.0042	<0.0044	<0.0057	<0.0046	<0.0053	<0.0055	<0.0038	<0.0042	<0.0039	<0.0038	<0.0044	<0.0046	<0.0034	<0.0069	<0.0062	<0.0069	<0.0043	<0.0033	<0.0045	<0.0036	<0.0047	<0.0051	<0.0053
trans-1,3-Dichloropropene	mg/kg	<0.0038	<0.0042	<0.0044	<0.0057	<0.0046	<0.0053	<0.0055	<0.0038	<0.0042	<0.0039	<0.0038	<0.0044	<0.0046	<0.0034	<0.0069	<0.0062	<0.0069	<0.0043	<0.0033	<0.0045	<0.0036	<0.0047	<0.0051	<0.0053
Trichloroethene	mg/kg	<0.0038	<0.0042	<0.0044	<0.0057	<0.0046	<0.0053	<0.0055	<0.0038	<0.0042	<0.0039	<0.0038	<0.0044	<0.0046	<0.0034	<0.0069	<0.0062	<0.0069	<0.0043	<0.0033	<0.0045	<0.0036	<0.0047	<0.0051	<0.0053
Trichlorofluoromethane	mg/kg	<0.0038	<0.0042	<0.0044	<0.0057	<0.0046	<0.0053	<0.0055	<0.0038	<0.0042	<0.0039	<0.0038	<0.0044	<0.0046	<0.0034	<0.0069	<0.0062	<0.0069	<0.0043	<0.0033	<0.0045	<0.0036	<0.0047	<0.0051	<0.0053
Vinyl Chloride	mg/kg	<0.0075	<0.0084	<0.0087	<0.0113	<0.0091	<0.0106	<0.0111	<0.0077	<0.0084	<0.0078	<0.0077	<0.0089	<0.0091	<0.0067	<0.0139	<0.0124	<0.0137	<0.0086	<0.0067	<0.0091	<0.0072	<0.0095	<0.0103	<0.0106
Xylene O	mg/kg	<0.0038	<0.0042	<0.0044	<0.0057	<0.0046	<0.0053	<0.0055	<0.0038	<0.0042	<0.0039	<0.0038	<0.0044	<0.0046	<0.0034	<0.0069	<0.0062	<0.0069	<0.0043	<0.0033	<0.0045	<0.0036	<0.0047	<0.0051	<0.0053
Xylene P,M	mg/kg	<0.0075	<0.0084	<0.0087	<0.0113	<0.0091	<0.0106	<0.0111	<0.0077	<0.0084	<0.0078	<0.0077	<0.0089	<0.0091	<0.0067	<0.0139	<0.0124	<0.0137	<0.0086	<0.0067	<0.0091	<0.0072	<0.0095	<0.0103	<0.0106
Xylenes (Total)	mg/kg	<0.0075	<0.0084	<0.0087	<0.0113	<0.0091	<0.0106	<0.0111	<0.0077	<0.0084	<0.0078	<0.0077	<0.0089	<0.0091	<0.0067	<0.0139	<0.0124	<0.0137	<0.0086	<0.0067	<0.0091	<0.0072	<0.0095	<0.0103	<0.0106
Total VOCs (Low Level)	mg/kg	ND	0.0188	0.141	0.0139	0.0197	ND	0.0244	0.0225	0.0087	0.014	ND	ND	ND	0.0147	ND	0.0555	0.0511	0.0108	ND	ND	ND	ND	ND	ND
Semi-Volatile Organic Compounds																									
1,2,4-Trichlorobenzene	mg/kg	<1.06	<1.06	<1.06	<1.12	<4.55	<0.901	<4.69	<0.944	<1.03	<0.984	<1.08	<1.10	<0.796	<0.944	<1.07	<1.04	<1.03	<0.966	<1.01	<0.890	<1.13	<0.886	<0.916	<3.77
1,2-Dichlorobenzene	mg/kg	<1.06	<1.06	<1.06	<1.12	<4.55	<0.901	<4.69	<0.944	<1.03	<0.984	<1.08	<1.10	<0.796	<0.944	<1.07	<1.04	<1.03	<0.966	<1.01	<0.890	<1.13	<0.886	<0.916	<3.77
1,3-Dichlorobenzene	mg/kg	<1.06	<1.06	<1.06	<1.12	<4.55	<0.901	<4.69	<0.944	<1.03	<0.984	<1.08	<1.10	<0.796	<0.944	<1.07	<1.04	<1.03	<0.966	<1.01	<0.890	<1.13	<0.886	<0.916	<3.77
1,4-Dichlorobenzene	mg/kg	<0.530	<0.533	<0.529	<0.561	<2.28	<0.452	<2.35	<0.474	<0.518	<0.494	<0.541	<0.551	<0.399	<0.473	<0.535	<0.520	<0.514	<0.484	<0.507	<0.446	<0.567	<0.445	<0.459	<1.89
2,4,5-Trichlorophenol	mg/kg	<1.06	<1.06	<1.06	<1.12	<4.55	<0.901	<4.69	<0.944	<1.03	<0.984	<1.08	<1.10	<0.796	<0.944	<1.07	<1.04	<1.03	<0.966	<1.01	<0.890	<1.13	<0.886	<0.916	<3.77
2,4,6-Trichlorophenol	mg/kg	<1.06	<1.06	<1.06	<1.12	<4.55	<0.901	<4.69	<0.944	<1.03	<0.984	<1.08	<1.10	<0.796	<0.944	<1.07	<1.04	<1.03	<0.966	<1.01	<0.890	<1.13	<0.886	<0.916	<3.77
2,4-Dichlorophenol	mg/kg	<1.06	<1.06	<1.06	<1.12	<4.55	<0.901	<4.69	<0.944	<1.03	<0.984	<1.08	<1.10	<0.796	<0.944	<1.07	<1.04	<1.03	<0.966	<1.01	<0.890	<1.13	<0.886	<0.916	<3.77
2,4-Dimethylphenol	mg/kg	<1.06	<1.06	<1.06	<1.12	<4.55	<0.901	<4.69	<0.944	<1.03	<0.984	<1.08	<1.10	<0.796	<0.944	<1.07	<1.04	<1.03	<0.966	<1.01	<0.890	<1.13	<0.886	<0.916	<3.77
2,4-Dinitrophenol	mg/kg	<5.30	<5.33	<5.29	<5.61	<22.8	<4.52	<23.5	<4.74	<5.18	<4.94	<5.41	<5.51	<3.99	<4.73	<5.35	<5.20	<5.14	<4.84	<5.07	<4.46	<5.67	<4.45	<4.59	<18.9
2,4-Dinitrotoluene	mg/kg	<1.06	<1.06	<1.06	<1.12	<1.14	<0.901	<1.18	<0.944	<1.03	<0.984	<1.08	<1.10	<0.796	<0.944	<1.07	<1.04	<1.03	<0.966	<1.01	<0.890	<1.13	<0.886	<0.916	<0.945
2,6-Dinitrotoluene	mg/kg	<1.06	<1.06	<1.06	<1.12	<4.55	<0.901	<4.69	<0.944	<1.03	<0.984	<1.08	<1.10	<0.796	<0.944	<1.07	<1.04	<1.03	<0.966	<1.01	<0.890	<1.13	<0.886	<0.916	<3.77
2-Chloronaphthalene	mg/kg	<1.06	<1.06	<1.06	<1.12	<4.55	<0.901	<4.69	<0.944	<1.03	<0.984	<1.08	<1.10	<0.796	<0.944	<1.07	<1.04	<1.03	<0.966	<1.01	<0.890	<1.13	<0.886	<0.916	<3.77
2-Chlorophenol	mg/kg	<1.06	<1.06	<1.06	<1.12	<4.55	<0.901	<4.69	<0.944	<1.03	<0.984	<1.08	<1.10	<0.796	<0.944	<1.07	<1.04	<1.03	<0.966	<1.01	<0.890	<1.13	<0.886	<0.916	<3.77
2-Methylnaphthalene	mg/kg	<1.06	<1.06	<1.06	<1.12	<4.55	<0.901	<4.69	<0.944	<1.03	<0.984	<1.08	<1.10	<0.796	<0.944	<1.07	<1.04	<1.03	<0.966	<1.01	<0.890	<1.13	<0.886	<0.916	<3.77
2-Methylphenol	mg/kg	<1.06	<1.06	<1.06	<1.12	<4.55	<0.901	<4.69	<0.944	<1.03	<0.984	<1.08	<1.10	<0.796	<0.944	<1.07	<1.04	<1.03	<0.966	<1.01	<0.890	<1.13	<0.886	<0.916	<3.77
2-Nitrophenol	mg/kg	<1.06	<1.06	<1.06	<1.12	<4.55	<0.901	<4.69	<0.944	<1.03	<0.984	<1.08	<1.10	<0.796	<0.944	<1.07	<1.04	<1.03	<0.966	<1.01	<0.890	<1.13	<0.886	<0.916	<3.77
3,3´-Dichlorobenzidine	mg/kg	<2.12	<2.13	<2.11	<2.24	<9.11	<1.81	<9.39	<1.89	<2.07	<1.97	<2.16	<2.20	<1.59	<1.89	<2.14	<2.08	<2.05	<1.93	<2.02	<1.78	<2.26	<1.78	<1.83	<7.55
3+4-Methylphenol	mg/kg	<2.12	<2.13	<2.11	<2.24	<9.11	<1.81	<9.39	<1.89	<2.07	<1.97	<2.16	<2.20	<1.59	<1.89	<2.14	<2.08	<2.05	<1.93	<2.02	<1.78	<2.26	<1.78	<1.83	<7.55
4-Bromophenyl-phenylether	mg/kg	<1.06	<1.06	<1.06	<1.12	<4.55	<0.901	<4.69	<0.944	<1.03	<0.984	<1.08	<1.10	<0.796	<0.944	<1.07	<1.04	<1.03	<0.966	<1.01	<0.890	<1.13	<0.886	<0.916	<3.77
4-Chloroaniline	mg/kg	<2.12	<2.13	<2.11	<2.24	<2.28	<1.81	<2.35	<1.89	<2.07	<1.97	<2.16	<2.20	<1.59	<1.89	<2.14	<2.08	<2.05	<1.93	<2.02	<1.78	<2.26	<1.78	<1.83	<1.89
4-Nitrophenol	mg/kg	<5.30	<5.33	<5.29	<5.61	<22.8	<4.52	<23.5	<4.74	<5.18	<4.94	<5.41	<5.51	<3.99	<4.73	<5.35	<5.20	<5.14	<4.84	<5.07	<4.46	<5.67	<4.45	<4.59	<18.9
Acenaphthene	mg/kg	<1.06	<1.06	<1.06	<1.12	<4.55	<0.901	<4.69	<0.944	<1.03	<0.984	<1.08	<1.10	<0.796	<0.944	<1.07	<1.04	<1.03	<0.966	<1.01	<0.890	<1.13	<0.886	<0.916	<3.77
Acenaphthylene	mg/kg	<1.06	<1.06	<1.06	<1.12	<4.55	<0.901	<4.69	<0.944	<1.03	<0.984	<1.08	<1.10	<0.796	<0.944	<1.07	<1.04	<1.03	<0.966	<1.01	<0.890	<1.13	<0.886	<0.916	<3.77
Acetophenone	mg/kg	<2.12	<2.13	<2.11	<2.24	<9.11	<1.81	<9.39	<1.89	<2.07	<1.97	<2.16	<2.20	<1.59	<1.89	<2.14	<2.08	<2.05	<1.93	<2.02	<1.78	<2.26	<1.78	<1.83	<7.55
Aniline	mg/kg	<5.30	<5.33	<5.29	<5.61	<22.8	<4.52	<23.5	<4.74	<5.18	<4.94	<5.41	<5.51	<3.99	<4.73	<5.35	<5.20	<5.14	<4.84	<5.07	<4.46	<5.67	<4.45	<4.59	<18.9
Anthracene	mg/kg	<1.06	<1.06	<1.06	<1.12	<4.55	<0.901	<4.69	<0.944	<1.03	<0.984	<1.08	<1.10	<0.796	<0.944	<1.07	<1.04	<1.03	<0.966	<1.01	<0.890	<1.13	<0.886	<0.916	<3.77
Azobenzene	mg/kg	<1.06	<1.06	<1.06	<1.12	<4.55	<0.901	<4.69	<0.944	<1.03	<0.984	<1.08	<1.10	<0.796	<0.944	<1.07	<1.04	<1.03	<0.966	<1.01	<0.890	<1.13	<0.886	<0.916	<3.77
Benzo(a)anthracene	mg/kg	<1.06	<1.06	<1.06	<1.12	<4.55	<0.901	5.51	<0.944	<1.03	<0.984	<1.08	<1.10	<0.796	1.05	<1.07	<1.04	<1.03	<0.966	<1.01	<0.890	<1.13	<0.886	<0.916	<3.77
Benzo(a)pyrene	mg/kg	<0.530	<0.533	<0.529	<0.561	<2.28	<0.452	4.65	<0.474	<0.518	<0.494	<0.541	<0.551	<0.399	0.987	<0.535	<0.520	<0.514	<0.484	<0.507	<0.446	<0.567	<0.445	<0.459	<1.89
Benzo(b)fluoranthene	mg/kg	<1.06	<1.06	<1.06	<1.12	<4.55	<0.901	<4.69	<0.944	<1.03	<0.984	<1.08	<1.10	<0.796	1.29	<1.07	<1.04	<1.03	<0.966	<1.01	<0.890	<1.13	<0.886	<0.916	<3.77
Benzo(g,h,i)perylene	mg/kg	<1.06	<1.06	<1.06	<1.12	<4.55	<0.901	<4.69	<0.944	<1.03	<0.984	<1.08	<1.10	<0.796	<0.944	<1.07	<1.04	<1.03	<0.966	<1.01	<0.890	<1.13	<0.886	<0.916	<3.77
Benzo(k)fluoranthene	mg/kg	<1.06	<1.06	<1.06	<1.12	<4.55	<0.901	<4.69	<0.944	<1.03	<0.984	<1.08	<1.10	<0.796	<0.944	<1.07	<1.04	<1.03	<0.966	<1.01	<0.890	<1.13	<0.886	<0.916	<3.77
bis(2-Chloroethoxy)methane	mg/kg	<1.06	<1.06	<1.06	<1.12	<4.55	<0.901	<4.69	<0.944	<1.03	<0.984	<1.08	<1.10	<0.796	<0.944	<1.07	<1.04	<1.03	<0.966	<1.01	<0.890	<1.13	<0.886	<0.916	<3.77
bis(2-Chloroethyl)ether	mg/kg	<0.530	<0.533	<0.529	<0.561	<0.451	<0.452	<0.465	<0.474	<0.518	<0.494	<0.541	<0.551	<0.399	<0.473	<0.535	<0.520	<0.514	<0.484	<0.507	<0.446	<0.567	<0.445	<0.459	<0.374
bis(2-chloroisopropyl)Ether	mg/kg	<0.530	<0.533	<0.529	<0.561	<0.451	<0.452	<0.465	<0.474	<0.518	<0.494	<0.541	<0.551	<0.399	<0.473	<0.535	<0.520	<0.514	<0.484	<0.507	<0.446	<0.567	<0.445	<0.459	<0.374
bis(2-Ethylhexyl)phthalate	mg/kg	<1.06	<1.06	<1.06	<1.12	<4.55	<0.901	<4.69	<0.944	<1.03	<0.984	<1.08	<1.10	<0.796	<0.944	<1.07	<1.04	<1.03	<0.966	<1.01	4.47	<1.13	<0.886	<0.916	<3.77
Butylbenzylphthalate	mg/kg	<1.06	<1.06	<1.06	<1.12	<4.55	<0.901	<4.69	<0.944	<1.03	<0.984	<1.08	<1.10	<0.796	<0.944	<1.07	<1.04	<1.03	<0.966	<1.01	<0.890	<1.13	<0.886	<0.916	<3.77
Chrysene	mg/kg	<0.530	<0.533	<0.529	<0.561	<2.28	<0.452	5.1	<0.474	<0.518	<0.494	<0.541	<0.551	<0.399	1.02	<0.535	<0.520	<0.514	<0.484	<0.507	<0.446	<0.567	<0.445	<0.459	<1.89
Dibenzo(a,h)Anthracene	mg/kg	<0.530	<0.533	<0.529	<0.561	<2.28	<0.452	<2.35	<0.474	<0.518	<0.494	<0.541	<0.551	<0.399	<0.473	<0.535	<0.520	<0.514	<0.484	<0.507	<0.446	<0.567	<0.445	<0.459	<1.89
Dibenzofuran	mg/kg	<1.06	<1.06	<1.06	<1.12	<4.55	<0.901	<4.69	<0.944	<1.03	<0.984	<1.08	<1.10	<0.796	<0.944	<1.07	<1.04	<1.03	<0.966	<1.01	<0.890	<1.13	<0.886	<0.916	<3.77
Diethylphthalate	mg/kg	<1.06	<1.06	<1.06	<1.12	<4.55	<0.901	<4.69	<0.944	<1.03	<0.984	<1.08	<1.10	<0.796	<0.944	<1.07	<1.04	<1.03	<0.966	<1.01	<0.890	<1.13	<0.886	<0.916	<3.77
Dimethylphthalate	mg/kg	<1.06	<1.06	<1.06	<1.12	<4.55	<0.901	<4.69	<0.944	<1.03	<0.984	<1.08	<1.10	<0.796	<0.944	<1.07	<1.04	<1.03	<0.966	<1.01	<0.890	<1.13	<0.886	<0.916	<3.77
Di-n-butylphthalate	mg/kg	<1.06	<1.06	<1.06	<1.12	<4.55	<0.901	<4.69	<0.944	<1.03	<0.984	<1.08	<1.10	<0.796	<0.944	<1.07	<1.04	<1.03	<0.966	<1.01	<0.890	<1.13	<0.886	<0.916	<3.77
Di-n-octylphthalate	mg/kg	<1.06	<1.06	<1.06	<1.12	<4.55	<0.901	<4.69	<0.944	<1.03	<0.984	<1.08	<1.10	<0.796	<0.944	<1.07	<1.04	<1.03	<0.966	<1.01	<0.890	<1.13	<0.886	<0.916	<3.77
Fluoranthene	mg/kg	<1.06	<1.06	<1.06	<1.12	<4.55	<0.901	11.9	<0.944	<1.03	<0.984	<1.08	<1.10	<0.796	1.52	<1.07	<1.04	<1.03	<0.966	<1.01	<0.890	<1.13	<0.886	<0.916	<3.77
Fluorene	mg/kg	<1.06	<1.06	<1.06	<1.12	<4.55	<0.901	<4.69	<0.944	<1.03	<0.984	<1.08	<1.10	<0.796	<0.944	<1.07	<1.04	<1.03	<0.966	<1.01	<0.890	<1.13	<0.886	<0.916	<3.77
Hexachlorobenzene	mg/kg	<0.530	<0.533	<0.529	<0.561	<1.14	<0.452	<1.18	<0.474	<0.518	<0.494	<0.541	<0.551	<0.399	<0.473	<0.535	<0.520	<0.514	<0.484	<0.507	<0.446	<0.567	<0.445	<0.459	<0.945
Hexachlorobutadiene	mg/kg	<1.06	<1.06	<1.06	<1.12	<4.55	<0.901	<4.69	<0.944	<1.03	<0.984	<1.08	<1.10	<0.796	<0.944	<1.07	<1.04	<1.03	<0.966	<1.01	<0.890	<1.13	<0.886	<0.916	<3.77
Hexachloroethane	mg/kg	<1.06	<1.06	<1.06	<1.12	<2.28	<0.901	<2.35	<0.944	<1.03	<0.984	<1.08	<1.10	<0.796	<0.944	<1.07	<1.04	<1.03	<0.966	<1.01	<0.890	<1.13	<0.886	<0.916	<1.89
Indeno(1,2,3-cd)Pyrene	mg/kg	<1.06	<1.06	<1.06	<1.12	<4.55	<0.901	<4.69	<0.944	<1.03	<0.984	<1.08	<1.10	<0.796	<0.944	<1.07	<1.04	<1.03	<0.966	<1.01	<0.890	<1.13	<0.886	<0.916	<3.77
Isophorone	mg/kg	<1.06	<1.06	<1.06	<1.12	<4.55	<0.901	<4.69	<0.944	<1.03	<0.984	<1.08	<1.10	<0.796	<0.944	<1.07	<1.04	<1.03	<0.966	<1.01	<0.890	<1.13	<0.886	<0.916	<3.77
Naphthalene	mg/kg	<1.06	<1.06	<1.06	<1.12	<4.55	<0.901	<4.69	<0.944	<1.03	<0.984	<1.08	<1.10	<0.796	<0.944	<1.07	<1.04	<1.03	<0.966	<1.01	<0.890	<1.13	<0.886	<0.916	<3.77
Nitrobenzene	mg/kg	<1.06	<1.06	<1.06	<1.12	<4.55	<0.901	<4.69	<0.944	<1.03	<0.984	<1.08	<1.10	<0.796	<0.944	<1.07	<1.04	<1.03	<0.966	<1.01	<0.890	<1.13	<0.886	<0.916	<3.77
N-Nitrosodimethylamine	mg/kg	<1.06	<1.06	<1.06	<1.12	<4.55	<0.901	<4.69	<0.944	<1.03	<0.984	<1.08	<1.10	<0.796	<0.944	<1.07	<1.04	<1.03	<0.966	<1.01	<0.890	<1.13	<0.886	<0.916	<3.77
Pentachlorophenol	mg/kg	<5.30	<5.33	<5.29	<5.61	<4.55	<4.52	<4.69	<4.74	<5.18	<4.94	<5.41	<5.51	<3.99	<4.73	<5.35	<5.20	<5.14	<4.84	<5.07	<4.46	<5.67	<4.45	<4.59	<3.77
Phenanthrene	mg/kg	<1.06	<1.06	<1.06	<1.12	<4.55	<0.901	10.2	<0.944	<1.03	<0.984	<1.08	<1.10	<0.796	0.965	<1.07	<1.04	<1.03	<0.966	<1.01	<0.890	<1.13	<0.886	<0.916	<3.77
Phenol	mg/kg	<1.06	<1.06	<1.06	<1.12	<4.55	<0.901	<4.69	<0.944	<1.03	<0.984	<1.08	<1.10	<0.796	<0.944	<1.07	<1.04	<1.03	<0.966	<1.01	<0.890	<1.13	<0.886	<0.916	<3.77
Pyrene	mg/kg	<1.06	<1.06	<1.06	<1.12	<4.55	<0.901	8.77	<0.944	<1.03	<0.984	<1.08	<1.10	<0.796	1.57	<1.07	<1.04	<1.03	<0.966	<1.01	<0.890	<1.13	<0.886	<0.916	<3.77
Total SVOCs	mg/kg	ND	ND	ND	ND	ND	ND	46.13	ND	ND	ND	ND	ND	ND	8.402	ND	ND	ND	ND	ND	4.47	ND	ND	ND	ND
Classic Chemistry																									
Corrosivity (pH)	S.U.	6.59	7.35	7.19	7.17	8.81	8.66	5.13	5.42	4.79	3.62	7.19	7.68	8.93	7.53	4.16	4.65	4.93	4.89	3.92	4.79	6.56	8.48	6.63	5.24
Conductivity	umhos/cm	2740	3020	4470	4150	183	337	883	218	868	11300	7830	6500	163	1960	1940	1810	1130	1770	1950	2220	3040	174	1830	1800
Flashpoint	°F	--	--	--	--	>200	>200	>200	--	--	--	--	--	>200	>200	>200	>200	--	--	--	--	--	>200	>200	>200
Reactive Cyanide	mg/kg	--	--	--	--	<2.0	<2.0	<2.0	--	--	--	--	--	<2.0	<2.0	<2.0	<2.0	--	--	--	--	--	<2.0	<2.0	<2.0
Reactive Sulfide	mg/kg	--	--	--	--	<2.0	<2.0	<2.0	--	--	--	--	--	<2.0	<2.0	<2.0	<2.0	--	--	--	--	--	<2.0	<2.0	<2.0

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	J14 J14S06S07A 1501567 Fill 10 - 13.3 1/30/2015	J14 J14S07BS08 1501567 Fill 13.3 - 16 1/30/2015	J14 J14S09 1501567 Natural Organics 16 - 18 1/30/2015	J14 J14S10 1501567 Natural Sand/Gravel 19 - 21 1/30/2015	J14 J14S11 1501567 Natural Clay 24 - 26 1/30/2015	J14 J14S12 1501567 Natural Clay 29 - 31 1/30/2015	J14 J14S13S14 1501567 Natural Clay 34 - 38 1/30/2015	J15 J15S01S02A 1501430 Fill 0 - 3.33 1/21/2015	J15 J15S02BS03A 1501430 Fill 3.33 - 6.66 1/21/2015	J15 J15S03BS05A 1501430 Fill 6.66 - 10 1/21/2015	J15 J15S05B 1501430 Fill 10 - 11 1/21/2015	J15 J15S06 1501430 Natural Clay 11 - 13 1/21/2015	J15 J15S08 1501430 Natural Clay 18 - 20 1/21/2015	J15 J15S09 1501430 Natural Clay 24 - 26 1/21/2015	J15 J15S10 1501430 Natural Clay 29 - 31 1/21/2015	J15 J15S11 1501430 Natural Clay 34 - 36 1/21/2015	J15 J15S12 1501430 Natural Clay 36 - 38 1/21/2015	J16 J16S01S02A 1501389 Fill 0 - 3.3 1/20/2015	J16 J16S02BS04A 1501389 Fill 3.3 - 6.6 1/20/2015	J16 J16S04BS05 1501389 Fill 6.6 - 10 1/20/2015	J16 J16S06 1501389 Natural Organics 14 - 16 1/20/2015	J16 J16S07 1501389 Natural Clay 19 - 21 1/20/2015	J16 J16S08 1501389 Natural Clay 24 - 26 1/20/2015	J16 J16S09 1501435 Natural Clay 29 - 31 1/21/2015
Preliminary Disposal Facility Category		Hazardous Material Type B	Hazardous Material Type B	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type B	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type A
RCRA 8 Metals	**Units**																								
Arsenic	mg/kg	155	99.1	<15.1	<7.52	12.3	17.1	11.2	14.5	9.76	41.6	150	13.8	19.1	21.5	15.7	14	11.5	<6.76	16.3	53.3	<12.8	17.8	10.5	13.1
Barium	mg/kg	94.8	65	<15.1	<7.52	95.7	102	88.2	30.8	17.1	95.8	354	77.4	107	130	130	97.5	102	29.4	129	91.7	<12.8	126	79.5	83.1
Cadmium	mg/kg	1.51	<1.60	<3.03	2.91	<1.52	<1.73	<1.52	<1.35	<1.40	<1.43	11.6	<1.59	<1.70	<1.68	<1.53	<1.65	<1.74	<1.35	<1.39	<1.54	<2.55	<1.63	<1.55	<1.61
Chromium	mg/kg	29.4	28.8	10.9	8.82	42	52.8	57.4	27	21.6	25.1	53.6	34.9	60.2	68.4	61.1	48.6	53	24.6	19.2	31.1	10.5	64.7	52.6	42.4
Lead	mg/kg	475	470	<30.3	<15.0	<15.2	<17.3	<15.2	63.2	<14.0	316	4000	73.2	20	22.2	17.9	<16.5	<17.4	17.5	521	402	<25.5	17.2	<15.5	<16.1
Selenium	mg/kg	<6.77	<8.01	<15.1	<15.0	<7.58	<8.67	<7.59	<6.74	<7.00	<7.13	40.9	<7.97	<8.49	<8.38	<7.63	<8.26	<8.68	<6.76	<6.95	<7.72	<12.8	<8.14	<7.77	<8.05
Silver	mg/kg	<1.35	<1.60	<3.03	<1.50	<1.52	<1.73	<1.52	<1.35	<1.40	<1.43	3.86	<1.59	<1.70	<1.68	<1.53	<1.65	<1.74	<1.35	2.8	<1.54	<2.55	<1.63	<1.55	<1.61
Mercury	mg/kg	0.275	0.09	<0.088	<0.029	<0.032	<0.043	<0.040	0.1	<0.032	0.812	29.1	0.519	<0.037	<0.042	<0.042	<0.038	<0.040	<0.031	0.571	0.481	<0.062	<0.041	<0.041	<0.032
Metals by Toxicity Characteristic Leaching Procedure (TCLP)																									
Arsenic	mg/L	<0.050	--	--	--	--	--	--	--	--	--	0.245	--	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead	mg/L	27.4	9.08	--	--	--	--	--	--	--	2.52	52.1	--	--	--	--	--	--	--	1.07	1.35	--	--	--	--
Selenium	mg/L	--	--	--	--	--	--	--	--	--	--	<0.375	--	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--	--	--	--	--	--	<0.00050	--	--	--	--	--	--	--	--	--	--	--	--	--
Herbicides																									
2,4,5-T	mg/kg	<0.067	<0.068	<0.10	--	--	--	--	<0.044	<0.045	<0.047	<0.11	--	<0.050	--	--	--	--	<0.042	<0.045	<0.049	--	--	--	--
2,4-D	mg/kg	<0.067	<0.068	<0.10	--	--	--	--	<0.22	<0.23	<0.24	<0.54	--	<0.25	--	--	--	--	<0.21	<0.22	<0.24	--	--	--	--
2,4-DB	mg/kg	<0.067	<0.068	<0.10	--	--	--	--	<0.017	<0.017	<0.018	<0.041	--	<0.019	--	--	--	--	<0.016	<0.017	<0.018	--	--	--	--
Dalapon	mg/kg	<0.81	<0.81	<1.2	--	--	--	--	<1.3	<1.4	<1.4	<3.2	--	<1.5	--	--	--	--	<1.3	<1.3	<1.5	--	--	--	--
Dicamba	mg/kg	<0.067	<0.068	<0.10	--	--	--	--	<0.067	<0.068	<0.071	<0.16	--	<0.075	--	--	--	--	<0.063	<0.067	<0.073	--	--	--	--
Dichlorprop	mg/kg	<0.067	<0.068	<0.10	--	--	--	--	<0.14	<0.15	<0.15	<0.35	--	<0.16	--	--	--	--	<0.14	<0.15	<0.16	--	--	--	--
Dinoseb	mg/kg	<0.40	<0.41	<0.61	--	--	--	--	<0.22	<0.23	<0.24	<0.54	--	<0.25	--	--	--	--	<0.21	<0.22	<0.24	--	--	--	--
MCPA	mg/kg	<16	<16	<24	--	--	--	--	<56	<57	<59	<140	--	<63	--	--	--	--	<53	<56	<61	--	--	--	--
MCPP	mg/kg	<16	<16	<24	--	--	--	--	<56	<57	<59	<140	--	<63	--	--	--	--	<53	<56	<61	--	--	--	--
Silvex (2,4,5-TP)	mg/kg	<0.067	<0.068	<0.10	--	--	--	--	<0.044	<0.045	<0.047	<0.11	--	<0.050	--	--	--	--	<0.042	<0.045	<0.049	--	--	--	--
Pesticides																									
4,4'-DDD	mg/kg	<0.0023	<0.0024	<0.018	--	--	--	--	<0.0036	<0.0019	<0.0040	<0.0045	--	<0.0021	--	--	--	--	<0.035	<0.038	<0.020	--	--	--	--
4,4'-DDE	mg/kg	<0.0023	<0.0024	<0.018	--	--	--	--	<0.0036	<0.0019	<0.0040	<0.0045	--	<0.0021	--	--	--	--	<0.035	<0.038	<0.020	--	--	--	--
4,4'-DDT	mg/kg	<0.0023	<0.0024	<0.018	--	--	--	--	<0.0036	<0.0019	<0.0040	<0.0045	--	<0.0021	--	--	--	--	<0.035	<0.038	<0.020	--	--	--	--
Aldrin	mg/kg	<0.0023	<0.0024	<0.018	--	--	--	--	<0.0036	<0.0019	<0.0040	<0.0045	--	<0.0021	--	--	--	--	<0.035	<0.038	<0.020	--	--	--	--
alpha-BHC	mg/kg	<0.0023	<0.0024	<0.018	--	--	--	--	<0.0036	<0.0019	<0.0040	<0.0045	--	<0.0021	--	--	--	--	<0.035	<0.038	<0.020	--	--	--	--
beta-BHC	mg/kg	<0.0023	<0.0024	<0.018	--	--	--	--	<0.0036	<0.0019	<0.0040	<0.0045	--	<0.0021	--	--	--	--	<0.035	<0.038	<0.020	--	--	--	--
Chlordane (technical)	mg/kg	<0.023	<0.024	<0.18	--	--	--	--	<0.036	<0.019	<0.040	<0.045	--	<0.021	--	--	--	--	<1.0	<1.1	<0.60	--	--	--	--
delta-BHC	mg/kg	<0.0023	<0.0024	<0.018	--	--	--	--	<0.0036	<0.0019	<0.0040	<0.0045	--	<0.0021	--	--	--	--	<0.035	<0.038	<0.020	--	--	--	--
Dieldrin	mg/kg	<0.0023	<0.0024	<0.018	--	--	--	--	<0.0036	<0.0019	<0.0040	<0.0045	--	<0.0021	--	--	--	--	<0.035	<0.038	<0.020	--	--	--	--
Endosulfan I	mg/kg	<0.0023	<0.0024	<0.018	--	--	--	--	<0.0036	<0.0019	<0.0040	<0.0045	--	<0.0021	--	--	--	--	<0.035	<0.038	<0.020	--	--	--	--
Endosulfan II	mg/kg	<0.0023	<0.0024	<0.018	--	--	--	--	<0.0036	<0.0019	<0.0040	<0.0045	--	<0.0021	--	--	--	--	<0.035	<0.038	<0.020	--	--	--	--
Endosulfan sulfate	mg/kg	<0.0023	<0.0024	<0.018	--	--	--	--	<0.0036	<0.0019	<0.0040	<0.0045	--	<0.0021	--	--	--	--	<0.035	<0.038	<0.020	--	--	--	--
Endrin	mg/kg	<0.0023	<0.0024	<0.018	--	--	--	--	<0.0036	<0.0019	<0.0040	<0.0045	--	<0.0021	--	--	--	--	<0.035	<0.038	<0.020	--	--	--	--
Endrin ketone	mg/kg	<0.0023	<0.0024	<0.018	--	--	--	--	<0.0036	<0.0019	<0.0040	<0.0045	--	<0.0021	--	--	--	--	<0.035	<0.038	<0.020	--	--	--	--
gamma-BHC (Lindane)	mg/kg	<0.0023	<0.0024	<0.018	--	--	--	--	<0.0036	<0.0019	<0.0040	<0.0045	--	<0.0021	--	--	--	--	<0.035	<0.038	<0.020	--	--	--	--
Heptachlor	mg/kg	<0.0023	<0.0024	<0.018	--	--	--	--	<0.0036	<0.0019	<0.0040	<0.0045	--	<0.0021	--	--	--	--	<0.035	<0.038	<0.020	--	--	--	--
Heptachlor epoxide	mg/kg	<0.0023	<0.0024	<0.018	--	--	--	--	<0.0036	<0.0019	<0.0040	<0.0045	--	<0.0021	--	--	--	--	<0.035	<0.038	<0.020	--	--	--	--
Hexachlorobenzene	mg/kg	<0.0023	<0.0024	<0.018	--	--	--	--	<0.0036	<0.0019	<0.0040	<0.0045	--	<0.0021	--	--	--	--	<0.035	<0.038	<0.020	--	--	--	--
Methoxychlor	mg/kg	<0.0023	<0.0024	<0.018	--	--	--	--	<0.0036	<0.0019	<0.0040	<0.0045	--	<0.0021	--	--	--	--	<0.068	<0.074	<0.039	--	--	--	--
Polychlorinated Biphenyls																									
Aroclor 1016	mg/kg	<0.151	<0.163	<0.330	<0.148	<0.156	<0.163	<0.169	<0.132	<0.131	<0.135	<0.160	<0.139	<0.159	<0.160	<0.159	<0.163	<0.162	<0.133	<0.130	<0.142	<0.242	<0.150	<0.149	<0.144
Aroclor 1221	mg/kg	<0.151	<0.163	<0.330	<0.148	<0.156	<0.163	<0.169	<0.132	<0.131	<0.135	<0.160	<0.139	<0.159	<0.160	<0.159	<0.163	<0.162	<0.133	<0.130	<0.142	<0.242	<0.150	<0.149	<0.144
Aroclor 1232	mg/kg	<0.151	<0.163	<0.330	<0.148	<0.156	<0.163	<0.169	<0.132	<0.131	<0.135	<0.160	<0.139	<0.159	<0.160	<0.159	<0.163	<0.162	<0.133	<0.130	<0.142	<0.242	<0.150	<0.149	<0.144
Aroclor 1242	mg/kg	<0.151	<0.163	<0.330	<0.148	<0.156	<0.163	<0.169	<0.132	<0.131	<0.135	<0.160	<0.139	<0.159	<0.160	<0.159	<0.163	<0.162	<0.133	<0.130	<0.142	<0.242	<0.150	<0.149	<0.144
Aroclor 1248	mg/kg	<0.151	<0.163	<0.330	<0.148	<0.156	<0.163	<0.169	<0.132	<0.131	<0.135	<0.160	<0.139	<0.159	<0.160	<0.159	<0.163	<0.162	<0.133	<0.130	<0.142	<0.242	<0.150	<0.149	<0.144
Aroclor 1254	mg/kg	<0.151	<0.163	<0.330	<0.148	<0.156	<0.163	<0.169	<0.132	<0.131	<0.135	<0.160	<0.139	<0.159	<0.160	<0.159	<0.163	<0.162	<0.133	1.22	<0.142	<0.242	<0.150	<0.149	<0.144
Aroclor 1260	mg/kg	<0.151	<0.163	<0.330	<0.148	<0.156	<0.163	<0.169	<0.132	<0.131	<0.135	<0.160	<0.139	<0.159	<0.160	<0.159	<0.163	<0.162	<0.133	0.621	<0.142	<0.242	<0.150	<0.149	<0.144
Aroclor 1262	mg/kg	<0.151	<0.163	<0.330	<0.148	<0.156	<0.163	<0.169	<0.132	<0.131	<0.135	<0.160	<0.139	<0.159	<0.160	<0.159	<0.163	<0.162	<0.133	<0.130	<0.142	<0.242	<0.150	<0.149	<0.144
Aroclor 1268	mg/kg	<0.151	<0.163	<0.330	<0.148	<0.156	<0.163	<0.169	<0.132	<0.131	<0.135	<0.160	<0.139	<0.159	<0.160	<0.159	<0.163	<0.162	<0.133	<0.130	<0.142	<0.242	<0.150	<0.149	<0.144
Total PCBs	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.841	ND	ND	ND	ND	ND
Total Petroleum Hydrocarbons	mg/kg	181	342	1290	<46.8	<48.3	<51.9	<54.1	49.3	<39.0	203	457	<48.9	<50.6	<46.3	<46.3	<51.1	<51.4	244	695	379	853	<46.3	<47.9	96.5
Volatile Organic Compounds (VOCs)																									
1,1,1,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-Chloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane - Screen	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Butanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Isopropyltoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-Pentanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Disulfide	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Analyte	Precharacterization Cell	J14	J14	J14	J14	J14	J14	J14	J15	J15	J15	J15	J15	J15	J15	J15	J15	J15	J16	J16	J16	J16	J16	J16	J16
	Sample ID	J14S06S07A	J14S07BS08	J14S09	J14S10	J14S11	J14S12	J14S13S14	J15S01S02A	J15S02BS03A	J15S03BS05A	J15S05B	J15S06	J15S08	J15S09	J15S10	J15S11	J15S12	J16S01S02A	J16S02BS04A	J16S04BS05	J16S06	J16S07	J16S08	J16S09
	Laboratory Work Order	1501567	1501567	1501567	1501567	1501567	1501567	1501567	1501430	1501430	1501430	1501430	1501430	1501430	1501430	1501430	1501430	1501430	1501389	1501389	1501389	1501389	1501389	1501389	1501435
	Soil Distinction	Fill	Fill	Natural	Natural	Natural	Natural	Natural	Fill	Fill	Fill	Fill	Natural	Natural	Natural	Natural	Natural	Natural	Fill	Fill	Fill	Natural	Natural	Natural	Natural
	Soil Type			Organics	Sand/Gravel	Clay	Clay	Clay					Clay	Clay	Clay	Clay	Clay	Clay				Organics	Clay	Clay	Clay
	Depth Interval (ft.)	10 - 13.3	13.3 - 16	16 - 18	19 - 21	24 - 26	29 - 31	34 - 38	0 - 3.33	3.33 - 6.66	6.66 - 10	10 - 11	11 - 13	18 - 20	24 - 26	29 - 31	34 - 36	36 - 38	0 - 3.3	3.3 - 6.6	6.6 - 10	14 - 16	19 - 21	24 - 26	29 - 31
	Sampling Date	1/30/2015	1/30/2015	1/30/2015	1/30/2015	1/30/2015	1/30/2015	1/30/2015	1/21/2015	1/21/2015	1/21/2015	1/21/2015	1/21/2015	1/21/2015	1/21/2015	1/21/2015	1/21/2015	1/21/2015	1/21/2015	1/20/2015	1/20/2015	1/20/2015	1/20/2015	1/20/2015	1/20/2015	1/21/2015
Preliminary Disposal Facility Category		Hazardous Material Type B	Hazardous Material Type B	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type B	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type A
Chlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Diethyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Di-isopropyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethyl tertiary-butyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
tert-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tertiary-amyl methyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene O	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene P,M	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylenes (Total)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total VOCs	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds - Low Level Analysis																									
1,1,1,2-Tetrachloroethane	mg/kg	<0.0030	<0.0050	<0.0092	<0.0035	<0.0039	<0.0040	<0.0041	<0.0082	<0.0044	<0.0036	<0.0063	<0.0039	<0.0047	<0.0058	<0.0048	<0.0046	<0.0029	<0.0047	<0.0054	<0.0038	<0.0104	<0.0053	<0.0046	<0.0034
1,1,1-Trichloroethane	mg/kg	<0.0030	<0.0050	<0.0092	<0.0035	<0.0039	<0.0040	<0.0041	<0.0082	<0.0044	<0.0036	<0.0063	<0.0039	<0.0047	<0.0058	<0.0048	<0.0046	<0.0029	<0.0047	<0.0054	<0.0038	<0.0104	<0.0053	<0.0046	<0.0034
1,1,2,2-Tetrachloroethane	mg/kg	<0.0012	<0.0020	<0.0037	<0.0014	<0.0016	<0.0016	<0.0017	<0.0033	<0.0018	<0.0014	<0.0025	<0.0016	<0.0019	<0.0023	<0.0019	<0.0018	<0.0012	<0.0019	<0.0022	<0.0015	<0.0042	<0.0021	<0.0018	<0.0014
1,1,2-Trichloroethane	mg/kg	<0.0030	<0.0050	<0.0092	<0.0035	<0.0039	<0.0040	<0.0041	<0.0082	<0.0044	<0.0036	<0.0063	<0.0039	<0.0047	<0.0058	<0.0048	<0.0046	<0.0029	<0.0047	<0.0054	<0.0038	<0.0104	<0.0053	<0.0046	<0.0034
1,1-Dichloroethane	mg/kg	<0.0030	<0.0050	<0.0092	<0.0035	<0.0039	<0.0040	<0.0041	<0.0082	<0.0044	<0.0036	<0.0063	<0.0039	<0.0047	<0.0058	<0.0048	<0.0046	<0.0029	<0.0047	<0.0054	<0.0038	<0.0104	<0.0053	<0.0046	<0.0034
1,1-Dichloroethene	mg/kg	<0.0030	<0.0050	<0.0092	<0.0035	<0.0039	<0.0040	<0.0041	<0.0082	<0.0044	<0.0036	<0.0063	<0.0039	<0.0047	<0.0058	<0.0048	<0.0046	<0.0029	<0.0047	<0.0054	<0.0038	<0.0104	<0.0053	<0.0046	<0.0034
1,1-Dichloropropene	mg/kg	<0.0030	<0.0050	<0.0092	<0.0035	<0.0039	<0.0040	<0.0041	<0.0082	<0.0044	<0.0036	<0.0063	<0.0039	<0.0047	<0.0058	<0.0048	<0.0046	<0.0029	<0.0047	<0.0054	<0.0038	<0.0104	<0.0053	<0.0046	<0.0034
1,2,3-Trichlorobenzene	mg/kg	<0.0030	<0.0050	<0.0092	<0.0035	<0.0039	<0.0040	<0.0041	<0.0082	<0.0044	<0.0036	<0.0063	<0.0039	<0.0047	<0.0058	<0.0048	<0.0046	<0.0029	<0.0047	<0.0054	<0.0038	<0.0104	<0.0053	<0.0046	<0.0034
1,2,3-Trichloropropane	mg/kg	<0.0030	<0.0050	<0.0092	<0.0035	<0.0039	<0.0040	<0.0041	<0.0082	<0.0044	<0.0036	<0.0063	<0.0039	<0.0047	<0.0058	<0.0048	<0.0046	<0.0029	<0.0047	<0.0054	<0.0038	<0.0104	<0.0053	<0.0046	<0.0034
1,2,4-Trichlorobenzene	mg/kg	<0.0030	<0.0050	<0.0092	<0.0035	<0.0039	<0.0040	<0.0041	<0.0082	<0.0044	<0.0036	<0.0063	<0.0039	<0.0047	<0.0058	<0.0048	<0.0046	<0.0029	<0.0047	<0.0054	<0.0038	<0.0104	<0.0053	<0.0046	<0.0034
1,2,4-Trimethylbenzene	mg/kg	<0.0030	<0.0050	<0.0092	<0.0035	<0.0039	<0.0040	<0.0041	<0.0082	<0.0044	<0.0036	<0.0063	<0.0039	<0.0047	<0.0058	<0.0048	<0.0046	<0.0029	<0.0047	<0.0054	<0.0038	<0.0104	<0.0053	<0.0046	<0.0034
1,2-Dibromo-3-Chloropropane	mg/kg	<0.0030	<0.0050	<0.0092	<0.0035	<0.0039	<0.0040	<0.0041	<0.0082	<0.0044	<0.0036	<0.0063	<0.0039	<0.0047	<0.0058	<0.0048	<0.0046	<0.0029	<0.0047	<0.0054	<0.0038	<0.0104	<0.0053	<0.0046	<0.0034
1,2-Dibromoethane	mg/kg	<0.0030	<0.0050	<0.0092	<0.0035	<0.0039	<0.0040	<0.0041	<0.0082	<0.0044	<0.0036	<0.0063	<0.0039	<0.0047	<0.0058	<0.0048	<0.0046	<0.0029	<0.0047	<0.0054	<0.0038	<0.0104	<0.0053	<0.0046	<0.0034
1,2-Dichlorobenzene	mg/kg	<0.0030	<0.0050	<0.0092	<0.0035	<0.0039	<0.0040	<0.0041	<0.0082	<0.0044	<0.0036	<0.0063	<0.0039	<0.0047	<0.0058	<0.0048	<0.0046	<0.0029	<0.0047	0.0127	<0.0038	<0.0104	<0.0053	<0.0046	<0.0034
1,2-Dichloroethane	mg/kg	<0.0030	<0.0050	<0.0092	<0.0035	<0.0039	<0.0040	<0.0041	<0.0082	<0.0044	<0.0036	<0.0063	<0.0039	<0.0047	<0.0058	<0.0048	<0.0046	<0.0029	<0.0047	<0.0054	<0.0038	<0.0104	<0.0053	<0.0046	<0.0034
1,2-Dichloropropane	mg/kg	<0.0030	<0.0050	<0.0092	<0.0035	<0.0039	<0.0040	<0.0041	<0.0082	<0.0044	<0.0036	<0.0063	<0.0039	<0.0047	<0.0058	<0.0048	<0.0046	<0.0029	<0.0047	<0.0054	<0.0038	<0.0104	<0.0053	<0.0046	<0.0034
1,3,5-Trimethylbenzene	mg/kg	<0.0030	<0.0050	<0.0092	<0.0035	<0.0039	<0.0040	<0.0041	<0.0082	<0.0044	<0.0036	<0.0063	<0.0039	<0.0047	<0.0058	<0.0048	<0.0046	<0.0029	<0.0047	<0.0054	<0.0038	<0.0104	<0.0053	<0.0046	<0.0034
1,3-Dichlorobenzene	mg/kg	<0.0030	<0.0050	<0.0092	<0.0035	<0.0039	<0.0040	<0.0041	<0.0082	<0.0044	<0.0036	<0.0063	<0.0039	<0.0047	<0.0058	<0.0048	<0.0046	<0.0029	<0.0047	<0.0054	<0.0038	<0.0104	<0.0053	<0.0046	<0.0034
1,3-Dichloropropane	mg/kg	<0.0030	<0.0050	<0.0092	<0.0035	<0.0039	<0.0040	<0.0041	<0.0082	<0.0044	<0.0036	<0.0063	<0.0039	<0.0047	<0.0058	<0.0048	<0.0046	<0.0029	<0.0047	<0.0054	<0.0038	<0.0104	<0.0053	<0.0046	<0.0034
1,4-Dichlorobenzene	mg/kg	<0.0030	<0.0050	<0.0092	<0.0035	<0.0039	<0.0040	<0.0041	<0.0082	<0.0044	<0.0036	<0.0063	<0.0039	<0.0047	<0.0058	<0.0048	<0.0046	<0.0029	<0.0047	0.0084	<0.0038	<0.0104	<0.0053	<0.0046	<0.0034
1,4-Dioxane	mg/kg	<0.0590	<0.0995	<0.183	<0.0693	<0.0776	<0.0801	<0.0830	<0.165	<0.0886	<0.0724	<0.127	<0.0784	<0.0936	<0.115	<0.0959	<0.0918	<0.0588	<0.0940	<0.109	<0.0755	<0.208	<0.106	<0.0912	<0.0675
2,2-Dichloropropane	mg/kg	<0.0030	<0.0050	<0.0092	<0.0035	<0.0039	<0.0040	<0.0041	<0.0082	<0.0044	<0.0036	<0.0063	<0.0039	<0.0047	<0.0058	<0.0048	<0.0046	<0.0029	<0.0047	<0.0054	<0.0038	<0.0104	<0.0053	<0.0046	<0.0034
2-Butanone	mg/kg	<0.0059	<0.0100	0.0677	<0.0069	<0.0078	<0.0080	<0.0083	<0.0165	<0.0089	<0.0072	<0.0127	0.008	<0.0094	<0.0115	<0.0096	<0.0092	<0.0059	<0.0094	0.0147	<0.0076	0.0696	<0.0106	<0.0091	<0.0068
2-Chlorotoluene	mg/kg	<0.0030	<0.0050	<0.0092	<0.0035	<0.0039	<0.0040	<0.0041	<0.0082	<0.0044	<0.0036	<0.0063	<0.0039	<0.0047	<0.0058	<0.0048	<0.0046	<0.0029	<0.0047	<0.0054	<0.0038	<0.0104	<0.0053	<0.0046	<0.0034
2-Hexanone	mg/kg	<0.0059	<0.0100	<0.0183	<0.0069	<0.0078	<0.0080	<0.0083	<0.0165	<0.0089	<0.0072	<0.0127	<0.0078	<0.0094	<0.0115	<0.0096	<0.0092	<0.0059	<0.0094	<0.0109	<0.0076	<0.0208	<0.0106	<0.0091	<0.0068
4-Chlorotoluene	mg/kg	<0.0030	<0.0050	<0.0092	<0.0035	<0.0039	<0.0040	<0.0041	<0.0082	<0.0044	<0.0036	<0.0063	<0.0039	<0.0047	<0.0058	<0.0048	<0.0046	<0.0029	<0.0047	<0.0054	<0.0038	<0.0104	<0.0053	<0.0046	<0.0034
4-Isopropyltoluene	mg/kg	<0.0030	<0.0050	<0.0092	<0.0035	<0.0039	<0.0040	<0.0041	<0.0082	<0.0044	<0.0036	<0.0063	<0.0039	<0.0047	<0.0058	<0.0048	<0.0046	<0.0029	<0.0047	<0.0054	<0.0038	<0.0104	<0.0053	<0.0046	<0.0034
4-Methyl-2-Pentanone	mg/kg	<0.0059	<0.0100	<0.0183	<0.0069	<0.0078	<0.0080	<0.0083	<0.0165	<0.0089	<0.0072	<0.0127	<0.0078	<0.0094	<0.0115	<0.0096	<0.0092	<0.0059	<0.0094	<0.0109	<0.0076	<0.0208	<0.0106	<0.0091	<0.0068
Acetone	mg/kg	<0.0059	0.0134	0.444	0.0185	0.02	<0.0080	0.0129	<0.0165	<0.0089	<0.0072	0.0245	0.0516	0.0558	<0.0115	<0.0096	<0.0092	<0.0059	0.0217	0.0885	0.0422	0.245	0.0161	<0.0091	0.0116
Benzene	mg/kg	<0.0030	<0.0050	<0.0092	<0.0035	<0.0039	<0.0040	<0.0041	<0.0082	<0.0044	<0.0036	<0.0063	<0.0039	<0.0047	<0.0058	<0.0048	<0.0046	<0.0029	<0.0047	<0.0054	<0.0038	<0.0104	<0.0053	<0.0046	<0.0034
Bromobenzene	mg/kg	<0.0030	<0.0050	<0.0092	<0.0035	<0.0039	<0.0040	<0.0041	<0.0082	<0.0044	<0.0036	<0.0063	<0.0039	<0.0047	<0.0058	<0.0048	<0.0046	<0.0029	<0.0047	<0.0054	<0.0038	<0.0104	<0.0053	<0.0046	<0.0034
Bromochloromethane	mg/kg	<0.0030	<0.0050	<0.0092	<0.0035	<0.0039	<0.0040	<0.0041	<0.0082	<0.0044	<0.0036	<0.0063	<0.0039	<0.0047	<0.0058	<0.0048	<0.0046	<0.0029	<0.0047	<0.0054	<0.0038	<0.0104	<0.0053	<0.0046	<0.0034
Bromodichloromethane	mg/kg	<0.0030	<0.0050	<0.0092	<0.0035	<0.0039	<0.0040	<0.0041	<0.0082	<0.0044	<0.0036	<0.0063	<0.0039	<0.0047	<0.0058	<0.0048	<0.0046	<0.0029	<0.0047	<0.0054	<0.0038	<0.0104	<0.0053	<0.0046	<0.0034
Bromoform	mg/kg	<0.0030	<0.0050	<0.0092	<0.0035	<0.0039	<0.0040	<0.0041	<0.0082	<0.0044	<0.0036	<0.0063	<0.0039	<0.0047	<0.0058	<0.0048	<0.0046	<0.0029	<0.0047	<0.0054	<0.0038	<0.0104	<0.0053	<0.0046	<0.0034
Bromomethane	mg/kg	<0.0059	<0.0100	<0.0183	<0.0069	<0.0078	<0.0080	<0.0083	<0.0165	<0.0089	<0.0072	<0.0127	<0.0078	<0.0094	<0.0115	<0.0096	<0.0092	<0.0059	<0.0094	<0.0109	<0.0076	<0.0208	<0.0106	<0.0091	<0.0068
Carbon Disulfide	mg/kg	<0.0030	<0.0050	0.0116	<0.0035	<0.0039	<0.0040	<0.0041	<0.0082	<0.0044	<0.0036	<0.0063	<0.0039	<0.0047	<0.0058	<0.0048	<0.0046	<0.0029	<0.0047	<0.0054	<0.0038	<0.0104	<0.0053	<0.0046	<0.0034
Carbon Tetrachloride	mg/kg	<0.0030	<0.0050	<0.0092	<0.0035	<0.0039	<0.0040	<0.0041	<0.0082	<0.0044	<0.0036	<0.0063	<0.0039	<0.0047	<0.0058	<0.0048	<0.0046	<0.0029	<0.0047	<0.0054	<0.0038	<0.0104	<0.0053	<0.0046	<0.0034
Chlorobenzene	mg/kg	<0.0030	<0.0050	<0.0092	<0.0035	<0.0039	<0.0040	<0.0041	<0.0082	<0.0044	<0.0036	<0.0063	<0.0039	<0.0047	<0.0058	<0.0048	<0.0046	<0.0029	<0.0047	0.0116	<0.0038	<0.0104	<0.0053	<0.0046	<0.0034
Chloroethane	mg/kg	<0.0059	<0.0100	<0.0183	<0.0069	<0.0078	<0.0080	<0.0083	<0.0165	<0.0089	<0.0072	<0.0127	<0.0078	<0.0094	<0.0115	<0.0096	<0.0092	<0.0059	<0.0094	<0.0109	<0.0076	<0.0208	<0.0106	<0.0091	<0.0068
Chloroform	mg/kg	<0.0030	<0.0050	<0.0092	<0.0035	<0.0039	<0.0040	<0.0041	<0.0082	<0.0044	<0.0036	<0.0063	<0.0039	<0.0047	<0.0058	<0.0048	<0.0046	<0.0029	<0.0047	<0.0054	<0.0038	<0.0104	<0.0053	<0.0046	<0.0034
Chloromethane	mg/kg	<0.0059	<0.0100	<0.0183	<0.0069	<0.0078	<0.0080	<0.0083	<0.0165	<0.0089	<0.0072	<0.0127	<0.0078	<0.0094	<0.0115	<0.0096	<0.0092	<0.0059	<0.0094	<0.0109	<0.0076	<0.0208	<0.0106	<0.0091	<0.0068
cis-1,2-Dichloroethene	mg/kg	<0.0030	<0.0050	<0.0092	<0.0035	<0.0039	<0.0040	<0.0041	<0.0082	<0.0044	<0.0036	<0.0063	<0.0039	<0.0047	<0.0058	<0.0048	<0.0046	<0.0029	<0.0047	<0.0054	<0.0038	<0.0104	<0.0053	<0.0046	<0.0034
cis-1,3-Dichloropropene	mg/kg	<0.0030	<0.0050	<0.0092	<0.0035	<0.0039	<0.0040	<0.0041	<0.0082	<0.0044	<0.0036	<0.0063	<0.0039	<0.0047	<0.0058	<0.0048	<0.0046	<0.0029	<0.0047	<0.0054	<0.0038	<0.0104	<0.0053	<0.0046	<0.0034
Dibromochloromethane	mg/kg	<0.0012	<0.0020	<0.0037	<0.0014	<0.0016	<0.0016	<0.0017	<0.0033	<0.0018	<0.0014	<0.0025	<0.0016	<0.0019	<0.0023	<0.0019	<0.0018	<0.0012	<0.0019	<0.0022	<0.0015	<0.0042	<0.0021	<0.0018	<0.0014
Dibromomethane	mg/kg	<0.0030	<0.0050	<0.0092	<0.0035	<0.0039	<0.0040	<0.0041	<0.0082	<0.0044	<0.0036	<0.0063	<0.0039	<0.0047	<0.0058	<0.0048	<0.0046	<0.0029	<0.0047	<0.0054	<0.0038	<0.0104	<0.0053	<0.0046	<0.0034
Dichlorodifluoromethane	mg/kg	<0.0059	<0.0100	<0.0183	<0.0069	<0.0078	<0.0080	<0.0083	<0.0165	<0.0089	<0.0072	<0.0127	<0.0078	<0.0094	<0.0115	<0.0096	<0.0092	<0.0059	<0.0094	<0.0109	<0.0076	<0.0208	<0.0106	<0.0091	<0.0068
Diethyl Ether	mg/kg	<0.0030	<0.0050	<0.0092	<0.0035	<0.0039	<0.0040	<0.0041	<0.0082	<0.0044	<0.0036	<0.0063	<0.0039	<0.0047	<0.0058	<0.0048	<0.0046	<0.0029	<0.0047	<0.0054	<0.0038	<0.0104	<0.0053	<0.0046	<0.0034
Di-isopropyl ether	mg/kg	<0.0030	<0.0050	<0.0092	<0.0035	<0.0039	<0.0040	<0.0041	<0.0082	<0.0044	<0.0036	<0.0063	<0.0039	<0.0047	<0.0058	<0.0048	<0.0046	<0.0029	<0.0047	<0.0054	<0.0038	<0.0104	<0.0053	<0.0046	<0.0034
Ethyl tertiary-butyl ether	mg/kg	<0.0030	<0.0050	<0.0092	<0.0035	<0.0039	<0.0040	<0.0041	<0.0082	<0.0044	<0.0036	<0.0063	<0.0039	<0.0047	<0.0058	<0.0048	<0.0046	<0.0029	<0.0047	<0.0054	<0.0038	<0.0104	<0.0053	<0.0046	<0.0034
Ethylbenzene	mg/kg	<0.0030	<0.0050	<0.0092	<0.0035	<0.0039	<0.0040	<0.0041	<0.0082	<0.0044	<0.0036	<0.0063	<0.0039	<0.0047	<0.0058	<0.0048	<0.0046	<0.0029	<0.0047	<0.0054	<0.0038	<0.0104	<0.0053	<0.0046	<0.0034
Hexachlorobutadiene	mg/kg	<0.0030	<0.0050	<0.0092	<0.0035	<0.0039	<0.0040	<0.0041	<0.0082	<0.0044	<0.0036	<0.0063	<0.0039	<0.0047	<0.0058	<0.0048	<0.0046	<0.0029	<0.0047	<0.0054	<0.0038	<0.0104	<0.0053	<0.0046	<0.0034
Isopropylbenzene	mg/kg	<0.0030	<0.0050	<0.0092	<0.0035	<0.0039	<0.0040	<0.0041	<0.0082	<0.0044	<0.0036	<0.0063	<0.0039	<0.0047	<0.0058	<0.0048	<0.0046	<0.0029	<0.0047	<0.0054	<0.0038	<0.0104	<0.0053	<0.0046	<0.0034
Methyl tert-Butyl Ether	mg/kg	<0.0030	<0.0050	<0.0092	<0.0035	<0.0039	<0.0040	<0.0041	<0.0082	<0.0044	<0.0036	<0.0063	<0.0039	<0.0047	<0.0058	<0.0048	<0.0046	<0.0029	<0.0047	<0.0054	<0.0038	<0.0104	<0.0053	<0.0046	<0.0034
Methylene Chloride	mg/kg	<0.0059	<0.0100	<0.0183	<0.0069	<0.0078	<0.0080	<0.0083	<0.0165	<0.0089	<0.0072	<0.0127	<0.0078	<0.0094	<0.0115	<0.0096	<0.0092	<0.0059	<0.0094	<0.0109	<0.0076	<0.0208	<0.0106	<0.0091	<0.0068
Naphthalene	mg/kg	<0.0030	<0.0050	<0.0092	<0.0035	<0.0039	<0.0040	<0.0041	<0.0082	<0.0044	<0.0036	<0.0063	<0.0039	<0.0047	<0.0058	<0.0048	<0.0046	<0.0029	<0.0047	<0.0054	0.0321	<0.0104	<0.0053	<0.0046	<0.0034
n-Butylbenzene	mg/kg	<0.0030	<0.0050	<0.0092	<0.0035	<0.0039	<0.0040	<0.0041	<0.0082	<0.0044	<0.0036	<0.0063	<0.0039	<0.0047	<0.0058	<0.0048	<0.0046	<0.0029	<0.0047	<0.0054	<0.0038	<0.0104	<0.0053	<0.0046	<0.0034
n-Propylbenzene	mg/kg	<0.0030	<0.0050	<0.0092	<0.0035	<0.0039	<0.0040	<0.0041	<0.0082	<0.0044	<0.0036	<0.0063	<0.0039	<0.0047	<0.0058	<0.0048	<0.0046	<0.0029	<0.0047	<0.0054	<0.0038	<0.0104	<0.0053	<0.0046	<0.0034
sec-Butylbenzene	mg/kg	<0.0030	<0.0050	<0.0092	<0.0035	<0.0039	<0.0040	<0.0041	<0.0082	<0.0044	<0.0036	<0.0063	<0.0039	<0.0047	<0.0058	<0.0048	<0.0046	<0.0029	<0.0047	<0.0054	<0.0038	<0.0104	<0.0053	<0.0046	<0.0034

Table 1
Soil Precharacterization Data

Wynn Resort Casino
Everett, Massachusetts

Analyte	Precharacterization Cell	J14	J14	J14	J14	J14	J14	J14	J14	J15	J15	J15	J15	J15	J15	J15	J15	J15	J16	J16	J16	J16	J16	J16	J16
	Sample ID	J14S06S07A	J14S07BS08	J14S09	J14S10	J14S11	J14S12	J14S13S14		J15S01S02A	J15S02BS03A	J15S03BS05A	J15S05B	J15S06	J15S08	J15S09	J15S10	J15S11	J15S12	J16S01S02A	J16S02BS04A	J16S04BS05	J16S06	J16S07	J16S08	J16S09
	Laboratory Work Order	1501567	1501567	1501567	1501567	1501567	1501567	1501567		1501430	1501430	1501430	1501430	1501430	1501430	1501430	1501430	1501430	1501430	1501389	1501389	1501389	1501389	1501389	1501389	1501435
	Soil Distinction	Fill	Fill	Natural	Natural	Natural	Natural	Natural		Fill	Fill	Fill	Fill	Natural	Natural	Natural	Natural	Natural	Natural	Fill	Fill	Fill	Natural	Natural	Natural	Natural
	Soil Type			Organics	Sand/Gravel	Clay	Clay	Clay						Clay	Clay	Clay	Clay	Clay	Clay				Organics	Clay	Clay	Clay
	Depth Interval (ft.)	10 - 13.3	13.3 - 16	16 - 18	19 - 21	24 - 26	29 - 31	34 - 38		0 - 3.33	3.33 - 6.66	6.66 - 10	10 - 11	11 - 13	18 - 20	24 - 26	29 - 31	34 - 36	36 - 38	0 - 3.3	3.3 - 6.6	6.6 - 10	14 - 16	19 - 21	24 - 26	29 - 31
	Sampling Date	1/30/2015	1/30/2015	1/30/2015	1/30/2015	1/30/2015	1/30/2015	1/30/2015		1/21/2015	1/21/2015	1/21/2015	1/21/2015	1/21/2015	1/21/2015	1/21/2015	1/21/2015	1/21/2015	1/21/2015	1/20/2015	1/20/2015	1/20/2015	1/20/2015	1/20/2015	1/20/2015	1/21/2015
Preliminary Disposal Facility Category		Hazardous Material Type B	Hazardous Material Type B	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type B-1		MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type B	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type A
Styrene	mg/kg	<0.0030	<0.0050	<0.0092	<0.0035	<0.0039	<0.0040	<0.0041		<0.0082	<0.0044	<0.0036	<0.0063	<0.0039	<0.0047	<0.0058	<0.0048	<0.0046	<0.0029	<0.0047	<0.0054	<0.0038	<0.0104	<0.0053	<0.0046	<0.0034
tert-Butylbenzene	mg/kg	<0.0030	<0.0050	<0.0092	<0.0035	<0.0039	<0.0040	<0.0041		<0.0082	<0.0044	<0.0036	<0.0063	<0.0039	<0.0047	<0.0058	<0.0048	<0.0046	<0.0029	<0.0047	<0.0054	<0.0038	<0.0104	<0.0053	<0.0046	<0.0034
Tertiary-amyl methyl ether	mg/kg	<0.0030	<0.0050	<0.0092	<0.0035	<0.0039	<0.0040	<0.0041		<0.0082	<0.0044	<0.0036	<0.0063	<0.0039	<0.0047	<0.0058	<0.0048	<0.0046	<0.0029	<0.0047	<0.0054	<0.0038	<0.0104	<0.0053	<0.0046	<0.0034
Tetrachloroethene	mg/kg	<0.0030	<0.0050	<0.0092	<0.0035	<0.0039	<0.0040	<0.0041		<0.0082	<0.0044	<0.0036	<0.0063	<0.0039	<0.0047	<0.0058	<0.0048	<0.0046	<0.0029	<0.0047	<0.0054	<0.0038	<0.0104	<0.0053	<0.0046	<0.0034
Tetrahydrofuran	mg/kg	<0.0030	<0.0050	<0.0092	<0.0035	<0.0039	<0.0040	<0.0041		<0.0082	<0.0044	<0.0036	<0.0063	<0.0039	<0.0047	<0.0058	<0.0048	<0.0046	<0.0029	<0.0047	<0.0054	<0.0038	<0.0104	<0.0053	<0.0046	<0.0034
Toluene	mg/kg	<0.0030	<0.0050	<0.0092	<0.0035	<0.0039	<0.0040	<0.0041		<0.0082	<0.0044	<0.0036	<0.0063	<0.0039	<0.0047	<0.0058	<0.0048	<0.0046	<0.0029	<0.0047	<0.0054	<0.0038	<0.0104	<0.0053	<0.0046	<0.0034
trans-1,2-Dichloroethene	mg/kg	<0.0030	<0.0050	<0.0092	<0.0035	<0.0039	<0.0040	<0.0041		<0.0082	<0.0044	<0.0036	<0.0063	<0.0039	<0.0047	<0.0058	<0.0048	<0.0046	<0.0029	<0.0047	<0.0054	<0.0038	<0.0104	<0.0053	<0.0046	<0.0034
trans-1,3-Dichloropropene	mg/kg	<0.0030	<0.0050	<0.0092	<0.0035	<0.0039	<0.0040	<0.0041		<0.0082	<0.0044	<0.0036	<0.0063	<0.0039	<0.0047	<0.0058	<0.0048	<0.0046	<0.0029	<0.0047	<0.0054	<0.0038	<0.0104	<0.0053	<0.0046	<0.0034
Trichloroethene	mg/kg	<0.0030	<0.0050	<0.0092	<0.0035	<0.0039	<0.0040	<0.0041		<0.0082	<0.0044	<0.0036	<0.0063	<0.0039	<0.0047	<0.0058	<0.0048	<0.0046	<0.0029	<0.0047	<0.0054	<0.0038	<0.0104	<0.0053	<0.0046	<0.0034
Trichlorofluoromethane	mg/kg	<0.0030	<0.0050	<0.0092	<0.0035	<0.0039	<0.0040	<0.0041		<0.0082	<0.0044	<0.0036	<0.0063	<0.0039	<0.0047	<0.0058	<0.0048	<0.0046	<0.0029	<0.0047	<0.0054	<0.0038	<0.0104	<0.0053	<0.0046	<0.0034
Vinyl Chloride	mg/kg	<0.0059	<0.0100	<0.0183	<0.0069	<0.0078	<0.0080	<0.0083		<0.0165	<0.0089	<0.0072	<0.0127	<0.0078	<0.0094	<0.0115	<0.0096	<0.0092	<0.0059	<0.0094	<0.0109	<0.0076	<0.0208	<0.0106	<0.0091	<0.0068
Xylene O	mg/kg	<0.0030	<0.0050	<0.0092	<0.0035	<0.0039	<0.0040	<0.0041		<0.0082	<0.0044	<0.0036	<0.0063	<0.0039	<0.0047	<0.0058	<0.0048	<0.0046	<0.0029	<0.0047	<0.0054	<0.0038	<0.0104	<0.0053	<0.0046	<0.0034
Xylene P,M	mg/kg	<0.0059	<0.0100	<0.0183	<0.0069	<0.0078	<0.0080	<0.0083		<0.0165	<0.0089	<0.0072	<0.0127	<0.0078	<0.0094	<0.0115	<0.0096	<0.0092	<0.0059	<0.0094	<0.0109	<0.0076	<0.0208	<0.0106	<0.0091	<0.0068
Xylenes (Total)	mg/kg	<0.0059	<0.0100	<0.0183	<0.0069	<0.0078	<0.0080	<0.0083		<0.0165	<0.0089	<0.0072	<0.0127	<0.0078	<0.0094	<0.0115	<0.0096	<0.0092	<0.0059	<0.0094	<0.0109	<0.0076	<0.0208	<0.0106	<0.0091	<0.0068
Total VOCs (Low Level)	mg/kg	ND	0.0134	0.5233	0.0185	0.02	ND	0.0129		ND	ND	ND	0.0245	0.0596	0.0558	ND	ND	ND	ND	0.0217	0.1359	0.0743	0.3146	0.0161	ND	0.0116
Semi-Volatile Organic Compounds																										
1,2,4-Trichlorobenzene	mg/kg	<0.990	<1.08	<4.45	<0.924	<1.04	<1.09	<1.12		<0.883	<0.827	<0.864	<1.01	<1.01	<0.950	<0.965	<1.05	<0.948	<0.957	<0.863	<1.69	<0.991	<1.55	<0.962	<0.927	<0.988
1,2-Dichlorobenzene	mg/kg	<0.990	<1.08	<4.45	<0.924	<1.04	<1.09	<1.12		<0.883	<0.827	<0.864	<1.01	<1.01	<0.950	<0.965	<1.05	<0.948	<0.957	<0.863	<1.69	<0.991	<1.55	<0.962	<0.927	<0.988
1,3-Dichlorobenzene	mg/kg	<0.990	<1.08	<4.45	<0.924	<1.04	<1.09	<1.12		<0.883	<0.827	<0.864	<1.01	<1.01	<0.950	<0.965	<1.05	<0.948	<0.957	<0.863	<1.69	<0.991	<1.55	<0.962	<0.927	<0.988
1,4-Dichlorobenzene	mg/kg	<0.497	<0.542	<2.23	<0.463	<0.520	<0.547	<0.561		<0.443	<0.415	<0.433	<0.504	<0.504	<0.476	<0.484	<0.528	<0.476	<0.480	<0.433	<0.849	<0.497	<0.779	<0.482	<0.465	<0.495
2,4,5-Trichlorophenol	mg/kg	<0.990	<1.08	<4.45	<0.924	<1.04	<1.09	<1.12		<0.883	<0.827	<0.864	<1.01	<1.01	<0.950	<0.965	<1.05	<0.948	<0.957	<0.863	<1.69	<0.991	<1.55	<0.962	<0.927	<0.988
2,4,6-Trichlorophenol	mg/kg	<0.990	<1.08	<4.45	<0.924	<1.04	<1.09	<1.12		<0.883	<0.827	<0.864	<1.01	<1.01	<0.950	<0.965	<1.05	<0.948	<0.957	<0.863	<1.69	<0.991	<1.55	<0.962	<0.927	<0.988
2,4-Dichlorophenol	mg/kg	<0.990	<1.08	<4.45	<0.924	<1.04	<1.09	<1.12		<0.883	<0.827	<0.864	<1.01	<1.01	<0.950	<0.965	<1.05	<0.948	<0.957	<0.863	<1.69	<0.991	<1.55	<0.962	<0.927	<0.988
2,4-Dimethylphenol	mg/kg	<0.990	<1.08	<4.45	<0.924	<1.04	<1.09	<1.12		<0.883	<0.827	<0.864	<1.01	<1.01	<0.950	<0.965	<1.05	<0.948	<0.957	<0.863	<1.69	<0.991	<1.55	<0.962	<0.927	<0.988
2,4-Dinitrophenol	mg/kg	<4.97	<5.42	<22.3	<4.63	<5.20	<5.47	<5.61		<4.43	<4.15	<4.33	<5.04	<5.04	<4.76	<4.84	<5.28	<4.76	<4.80	<4.33	<8.49	<4.97	<7.79	<4.82	<4.65	<4.95
2,4-Dinitrotoluene	mg/kg	<0.990	<1.08	<1.11	<0.924	<1.04	<1.09	<1.12		<0.883	<0.827	<0.864	<1.01	<1.01	<0.950	<0.965	<1.05	<0.948	<0.957	<0.863	<1.69	<0.991	<1.55	<0.962	<0.927	<0.988
2,6-Dinitrotoluene	mg/kg	<0.990	<1.08	<4.45	<0.924	<1.04	<1.09	<1.12		<0.883	<0.827	<0.864	<1.01	<1.01	<0.950	<0.965	<1.05	<0.948	<0.957	<0.863	<1.69	<0.991	<1.55	<0.962	<0.927	<0.988
2-Chloronaphthalene	mg/kg	<0.990	<1.08	<4.45	<0.924	<1.04	<1.09	<1.12		<0.883	<0.827	<0.864	<1.01	<1.01	<0.950	<0.965	<1.05	<0.948	<0.957	<0.863	<1.69	<0.991	<1.55	<0.962	<0.927	<0.988
2-Chlorophenol	mg/kg	<0.990	<1.08	<4.45	<0.924	<1.04	<1.09	<1.12		<0.883	<0.827	<0.864	<1.01	<1.01	<0.950	<0.965	<1.05	<0.948	<0.957	<0.863	<1.69	<0.991	<1.55	<0.962	<0.927	<0.988
2-Methylnaphthalene	mg/kg	<0.990	<1.08	<4.45	<0.924	<1.04	<1.09	<1.12		<0.883	<0.827	<0.864	<1.01	<1.01	<0.950	<0.965	<1.05	<0.948	<0.957	<0.863	<1.69	<0.991	<1.55	<0.962	<0.927	<0.988
2-Methylphenol	mg/kg	<0.990	<1.08	<4.45	<0.924	<1.04	<1.09	<1.12		<0.883	<0.827	<0.864	<1.01	<1.01	<0.950	<0.965	<1.05	<0.948	<0.957	<0.863	<1.69	<0.991	<1.55	<0.962	<0.927	<0.988
2-Nitrophenol	mg/kg	<0.990	<1.08	<4.45	<0.924	<1.04	<1.09	<1.12		<0.883	<0.827	<0.864	<1.01	<1.01	<0.950	<0.965	<1.05	<0.948	<0.957	<0.863	<1.69	<0.991	<1.55	<0.962	<0.927	<0.988
3,3'-Dichlorobenzidine	mg/kg	<1.98	<2.17	<8.91	<1.85	<2.08	<2.19	<2.24		<1.77	<1.66	<1.73	<2.01	<2.01	<1.90	<1.93	<2.11	<1.90	<1.92	<1.73	<3.39	<1.99	<3.11	<1.93	<1.86	<1.98
3+4-Methylphenol	mg/kg	<1.98	<2.17	<8.91	<1.85	<2.08	<2.19	<2.24		<1.77	<1.66	<1.73	<2.01	<2.01	<1.90	<1.93	<2.11	<1.90	<1.92	<1.73	<3.39	<1.99	38.2	<1.93	<1.86	<1.98
4-Bromophenyl-phenylether	mg/kg	<0.990	<1.08	<4.45	<0.924	<1.04	<1.09	<1.12		<0.883	<0.827	<0.864	<1.01	<1.01	<0.950	<0.965	<1.05	<0.948	<0.957	<0.863	<1.69	<0.991	<1.55	<0.962	<0.927	<0.988
4-Chloroaniline	mg/kg	<1.98	<2.17	<2.23	<1.85	<2.08	<2.19	<2.24		<1.77	<1.66	<1.73	<2.01	<2.01	<1.90	<1.93	<2.11	<1.90	<1.92	<1.73	<3.39	<1.99	<3.11	<1.93	<1.86	<1.98
4-Nitrophenol	mg/kg	<4.97	<5.42	<22.3	<4.63	<5.20	<5.47	<5.61		<4.43	<4.15	<4.33	<5.04	<5.04	<4.76	<4.84	<5.28	<4.76	<4.80	<4.33	<8.49	<4.97	<7.79	<4.82	<4.65	<4.95
Acenaphthene	mg/kg	<0.990	<1.08	<4.45	<0.924	<1.04	<1.09	<1.12		<0.883	<0.827	<0.864	<1.01	<1.01	<0.950	<0.965	<1.05	<0.948	<0.957	<0.863	<1.69	<0.991	<1.55	<0.962	<0.927	<0.988
Acenaphthylene	mg/kg	<0.990	<1.08	<4.45	<0.924	<1.04	<1.09	<1.12		<0.883	<0.827	<0.864	<1.01	<1.01	<0.950	<0.965	<1.05	<0.948	<0.957	<0.863	<1.69	<0.991	<1.55	<0.962	<0.927	<0.988
Acetophenone	mg/kg	<1.98	<2.17	<8.91	<1.85	<2.08	<2.19	<2.24		<1.77	<1.66	<1.73	<2.01	<2.01	<1.90	<1.93	<2.11	<1.90	<1.92	<1.73	<3.39	<1.99	<3.11	<1.93	<1.86	<1.98
Aniline	mg/kg	<4.97	<5.42	<22.3	<4.63	<5.20	<5.47	<5.61		<4.43	<4.15	<4.33	<5.04	<5.04	<4.76	<4.84	<5.28	<4.76	<4.80	<4.33	<8.49	<4.97	<7.79	<4.82	<4.65	<4.95
Anthracene	mg/kg	<0.990	<1.08	<4.45	<0.924	<1.04	<1.09	<1.12		<0.883	<0.827	<0.864	1.19	<1.01	<0.950	<0.965	<1.05	<0.948	<0.957	<0.863	<1.69	1.64	<1.55	<0.962	<0.927	<0.988
Azobenzene	mg/kg	<0.990	<1.08	<4.45	<0.924	<1.04	<1.09	<1.12		<0.883	<0.827	<0.864	<1.01	<1.01	<0.950	<0.965	<1.05	<0.948	<0.957	<0.863	<1.69	<0.991	<1.55	<0.962	<0.927	<0.988
Benzo(a)anthracene	mg/kg	<0.990	<1.08	<4.45	<0.924	<1.04	<1.09	<1.12		<0.883	<0.827	1.02	1.44	<1.01	<0.950	<0.965	<1.05	<0.948	<0.957	<0.863	<1.69	2.64	<1.55	<0.962	<0.927	<0.988
Benzo(a)pyrene	mg/kg	<0.497	0.792	<2.23	<0.463	<0.520	<0.547	<0.561		<0.443	<0.415	0.817	0.705	<0.504	<0.476	<0.484	<0.528	<0.476	<0.480	<0.433	<0.849	2.3	<0.779	<0.482	<0.465	<0.495
Benzo(b)fluoranthene	mg/kg	<0.990	<1.08	<4.45	<0.924	<1.04	<1.09	<1.12		<0.883	<0.827	1.09	1.23	<1.01	<0.950	<0.965	<1.05	<0.948	<0.957	<0.863	<1.69	2.58	<1.55	<0.962	<0.927	<0.988
Benzo(g,h,i)perylene	mg/kg	<0.990	<1.08	<4.45	<0.924	<1.04	<1.09	<1.12		<0.883	<0.827	<0.864	<1.01	<1.01	<0.950	<0.965	<1.05	<0.948	<0.957	<0.863	<1.69	1.4	<1.55	<0.962	<0.927	<0.988
Benzo(k)fluoranthene	mg/kg	<0.990	<1.08	<4.45	<0.924	<1.04	<1.09	<1.12		<0.883	<0.827	<0.864	<1.01	<1.01	<0.950	<0.965	<1.05	<0.948	<0.957	<0.863	<1.69	1.09	<1.55	<0.962	<0.927	<0.988
bis(2-Chloroethoxy)methane	mg/kg	<0.990	<1.08	<4.45	<0.924	<1.04	<1.09	<1.12		<0.883	<0.827	<0.864	<1.01	<1.01	<0.950	<0.965	<1.05	<0.948	<0.957	<0.863	<1.69	<0.991	<1.55	<0.962	<0.927	<0.988
bis(2-Chloroethyl)ether	mg/kg	<0.497	<0.542	<0.441	<0.463	<0.520	<0.547	<0.561		<0.443	<0.415	<0.433	<0.504	<0.504	<0.476	<0.484	<0.528	<0.476	<0.480	<0.433	<0.168	<0.497	<0.154	<0.482	<0.465	<0.495
bis(2-chloroisopropyl)Ether	mg/kg	<0.497	<0.542	<0.441	<0.463	<0.520	<0.547	<0.561		<0.443	<0.415	<0.433	<0.504	<0.504	<0.476	<0.484	<0.528	<0.476	<0.480	<0.433	<0.168	<0.497	<0.154	<0.482	<0.465	<0.495
bis(2-Ethylhexyl)phthalate	mg/kg	<0.990	<1.08	<4.45	<0.924	<1.04	<1.09	<1.12		<0.883	<0.827	<0.864	<1.01	<1.01	<0.950	<0.965	<1.05	<0.948	<0.957	<0.863	1.89	<0.991	<1.55	<0.962	<0.927	<0.988
Butylbenzylphthalate	mg/kg	<0.990	<1.08	<4.45	<0.924	<1.04	<1.09	<1.12		<0.883	<0.827	<0.864	<1.01	<1.01	<0.950	<0.965	<1.05	<0.948	<0.957	<0.863	<1.69	<0.991	<1.55	<0.962	<0.927	<0.988
Chrysene	mg/kg	<0.497	1.06	<2.23	<0.463	<0.520	<0.547	<0.561		<0.443	<0.415	1	1.43	<0.504	<0.476	<0.484	<0.528	<0.476	<0.480	<0.433	<0.849	2.55	<0.779	<0.482	<0.465	<0.495
Dibenzo(a,h)Anthracene	mg/kg	<0.497	<0.542	<2.23	<0.463	<0.520	<0.547	<0.561		<0.443	<0.415	<0.433	<0.504	<0.504	<0.476	<0.484	<0.528	<0.476	<0.480	<0.433	<0.849	0.64	<0.779	<0.482	<0.465	<0.495
Dibenzofuran	mg/kg	<0.990	<1.08	<4.45	<0.924	<1.04	<1.09	<1.12		<0.883	<0.827	<0.864	<1.01	<1.01	<0.950	<0.965	<1.05	<0.948	<0.957	<0.863	<1.69	<0.991	<1.55	<0.962	<0.927	<0.988
Diethylphthalate	mg/kg	<0.990	<1.08	<4.45	<0.924	<1.04	<1.09	<1.12		<0.883	<0.827	<0.864	<1.01	<1.01	<0.950	<0.965	<1.05	<0.948	<0.957	<0.863	<1.69	<0.991	<1.55	<0.962	<0.927	<0.988
Dimethylphthalate	mg/kg	<0.990	<1.08	<4.45	<0.924	<1.04	<1.09	<1.12		<0.883	<0.827	<0.864	<1.01	<1.01	<0.950	<0.965	<1.05	<0.948	<0.957	<0.863	<1.69	<0.991	<1.55	<0.962	<0.927	<0.988
Di-n-butylphthalate	mg/kg	<0.990	<1.08	<4.45	<0.924	<1.04	<1.09	<1.12		<0.883	<0.827	<0.864	<1.01	<1.01	<0.950	<0.965	<1.05	<0.948	<0.957	<0.863	<1.69	<0.991	<1.55	<0.962	<0.927	<0.988
Di-n-octylphthalate	mg/kg	<0.990	<1.08	<4.45	<0.924	<1.04	<1.09	<1.12		<0.883	<0.827	<0.864	<1.01	<1.01	<0.950	<0.965	<1.05	<0.948	<0.957	<0.863	<1.69	<0.991	<1.55	<0.962	<0.927	<0.988
Fluoranthene	mg/kg	<0.990	1.8	<4.45	<0.924	<1.04	<1.09	<1.12		<0.883	<0.827	2.49	6.3	<1.01	<0.950	<0.965	<1.05	<0.948	<0.957	<0.863	<1.69	6.94	<1.55	<0.962	<0.927	<0.988
Fluorene	mg/kg	<0.990	<1.08	<4.45	<0.924	<1.04	<1.09	<1.12		<0.883	<0.827	<0.864	<1.01	<1.01	<0.950	<0.965	<1.05	<0.948	<0.957	<0.863	<1.69	<0.991	<1.55	<0.962	<0.927	<0.988
Hexachlorobenzene	mg/kg	<0.497	<0.542	<1.11	<0.463	<0.520	<0.547	<0.561		<0.443	<0.415	<0.433	<0.504	<0.504	<0.476	<0.484	<0.528	<0.476	<0.480	<0.433	<0.849	<0.497	<0.779	<0.482	<0.465	<0.495
Hexachlorobutadiene	mg/kg	<0.990	<1.08	<4.45	<0.924	<1.04	<1.09	<1.12		<0.883	<0.827	<0.864	<1.01	<1.01	<0.950	<0.965	<1.05	<0.948	<0.957	<0.863	<1.69	<0.991	<1.55	<0.962	<0.927	<0.988
Hexachloroethane	mg/kg	<0.990	<1.08	<2.23	<0.924	<1.04	<1.09	<1.12		<0.883	<0.827	<0.864	<1.01	<1.01	<0.950	<0.965	<1.05	<0.948	<0.957	<0.863	<1.69	<0.991	<1.55	<0.962	<0.927	<0.988
Indeno(1,2,3-cd)Pyrene	mg/kg	<0.990	<1.08	<4.45	<0.924	<1.04	<1.09	<1.12		<0.883	<0.827	<0.864	<1.01	<1.01	<0.950	<0.965	<1.05	<0.948	<0.957	<0.863	<1.69	1.31	<1.55	<0.962	<0.927	<0.988
Isophorone	mg/kg	<0.990	<1.08	<4.45	<0.924	<1.04	<1.09	<1.12		<0.883	<0.827	<0.864	<1.01	<1.01	<0.950	<0.965	<1.05	<0.948	<0.957	<0.863	<1.69	<0.991	<1.55	<0.962	<0.927	<0.988
Naphthalene	mg/kg	<0.990	<1.08	<4.45	<0.924	<1.04	<1.09	<1.12		<0.883	<0.827	<0.864	<1.01	<1.01	<0.950	<0.965	<1.05	<0.948	<0.957	<0.863	<1.69	<0.991	<1.55	<0.962	<0.927	<0.988
Nitrobenzene	mg/kg	<0.990	<1.08	<4.45	<0.924	<1.04	<1.09	<1.12		<0.883	<0.827	<0.864	<1.01	<1.01	<0.950	<0.965	<1.05	<0.948	<0.957	<0.863	<1.69	<0.991	<1.55	<0.962	<0.927	<0.988
N-Nitrosodimethylamine	mg/kg	<0.990	<1.08	<4.45	<0.924	<1.04	<1.09	<1.12		<0.883	<0.827	<0.864	<1.01	<1.01	<0.950	<0.965	<1.05	<0.948	<0.957	<0.863	<1.69	<0.991	<1.55	<0.962	<0.927	<0.988
Pentachlorophenol	mg/kg	<4.97	<5.42	<4.45	<4.63	<5.20	<5.47	<5.61		<4.43	<4.15	<4.33	<5.04	<5.04	<4.76	<4.84	<5.28	<4.76	<4.80	<4.33	<8.49	<4.97	<7.79	<4.82	<4.65	<4.95
Phenanthrene	mg/kg	<0.990	1.83	<4.45	<0.924	<1.04	<1.09	<1.12		<0.883	<0.827	2.75	3.91	<1.01	<0.950	<0.965	<1.05	<0.948	<0.957	<0.863	<1.69	5.19	<1.55	<0.962	<0.927	<0.988
Phenol	mg/kg	<0.990	<1.08	<4.45	<0.924	<1.04	<1.09	<1.12		<0.883	<0.827	<0.864	<1.01	<1.01	<0.950	<0.965	<1.05	<0.948	<0.957	<0.863	<1.69	<0.991	5.23	<0.962	<0.927	<0.988
Pyrene	mg/kg	<0.990	1.92	<4.45	<0.924	<1.04	<1.09	<1.12		<0.883	<0.827	1.75	3.34	<1.01	<0.950	<0.965	<1.05	<0.948	<0.957	<0.863	<1.69	5.25	<1.55	<0.962	<0.927	<0.988
Total SVOCs	mg/kg	ND	7.402	ND	ND	ND	ND	ND		ND	ND	10.917	19.545	ND	ND	ND	ND	ND	ND	ND	1.89	33.53	43.43	ND	ND	ND
Classic Chemistry																										
Corrosivity (pH)	S.U.	4.55	5.05	7.04	6.7	4.13	6.79	7.44		6.91	8.11	7.68	7.51	5.54	7.84	7.56	7.34	7.77	7.69	8.79	9.09	6.55	7.94	7.93	7.09	7.34
Conductivity	umhos/cm	1070	1760	1450	422	2740	6260	5530		1540	2830	1720	1400	478	1350	1750	5180	3970	5670	186	1880	1610	4830	4660	5810	3930
Flashpoint	°F	>200	>200	--	--	--	--	--		>200	>200	>200	>200	--	--	--	--	--	--	>200	>200	>200	--	--	--	--
Reactive Cyanide	mg/kg	<2.0	<2.0	--	--	--	--	--		<2.0	<2.0	<2.0	<2.0	--	--	--	--	--	--	<2.0	<2.0	<2.0	--	--	--	--
Reactive Sulfide	mg/kg	<2.0	<2.0	--	--	--	--	--		<2.0	<2.0	<2.0	<2.0	--	--	--	--	--	--	<2.0	<2.0	<2.0	--	--	--	--

Table 1
Soil Precharacterization Data

Wynn Resort Casino
Everett, Massachusetts

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	J16 J16S10S11 1501435 Natural Clay 34 - 38 1/21/2015	J17 J17S01S02A 1501389 Fill 0 - 3.3 1/20/2015	J17 J17S02BS04A 1501389 Fill 3.3 - 6.6 1/20/2015	J17 J17S04BS05 1501389 Fill 6.6 - 10 1/20/2015	J17 J17S06 1501389 Natural Sand/Gravel 10 - 12 1/20/2015	J17 J17S07 1501389 Natural Organics 14 - 16 1/20/2015	J17 J17S08 1501389 Natural Sand/Gravel 19 - 21 1/20/2015	J17 J17S09 1501389 Natural Clay 24 - 26 1/20/2015	J17 J17S10 1501389 Natural Clay 29 - 31 1/20/2015	J17 J17S11S12 1501389 Natural Clay 34 - 38 1/20/2015	K08 K08S01S02A 1502228 Fill 0 - 3.3 2/17/2015	K08 K08S02BS04A 1502228 Fill 3.3 - 6.6 2/17/2015	K08 K08S04BS05 1502228 Fill 6.6 - 9 2/17/2015	K08 K08S06 1502228 Natural Organics 10 - 12 2/17/2015	K08 K08S07 1502228 Natural Organics 14 - 16 2/17/2015	K08 K08S08 1502228 Natural Clay 19 -21 2/17/2015	K08 K08S09 1502228 Natural Sand/Gravel 24 - 26 2/17/2015	K08 K08S10 1502228 Natural Sand/Gravel 29 - 31 2/17/2015	K08 K08S11S12 1502228 Natural Clay 34 - 38 2/17/2015	K09 K09S01S02A 1502050 Fill 0 - 3.3 2/4/2015	K09 K09S02BS04A 1502050 Fill 3.3 - 6.6 2/4/2015	K09 K09S04B 1502050 Fill 6.6 - 8 2/4/2015	K09 K09S05S06 1502050 Natural Sand/Gravel 8 - 12 2/4/2015	K09 K09S07 1502050 Natural Organics 14 - 16 2/4/2015
Preliminary Disposal Facility Category		MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Material Type B-2	MCP Regulated Type A	MCP Regulated Type B-1	Uncontaminated	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	Hazardous Material Type A	Uncontaminated	Uncontaminated	MCP Regulated Type A	MCP Restricted	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type B-1
RCRA 8 Metals	**Units**																								
Arsenic	mg/kg	<7.32	<7.21	6.95	10.6	11.4	<14.5	<8.21	15.5	15.6	20.8	22.1	9.23	40.4	<19.8	22.2	8.33	<7.25	<7.35	12.8	7.61	11.2	<6.30	14.7	<24.0
Barium	mg/kg	24.9	24.2	67.4	28.5	11.9	41.8	11.1	103	103	106	61.8	39.3	56.4	37.5	42	44.2	7.89	22.4	83.2	28	35.3	21.4	30.2	<24.0
Cadmium	mg/kg	<1.46	<1.44	<1.37	<1.39	<1.67	<2.91	<1.64	<1.61	<1.66	<1.68	<1.57	<1.44	<1.93	<3.97	<4.10	<1.51	<1.45	<1.47	<1.52	<1.39	<1.37	<1.26	<1.52	<4.80
Chromium	mg/kg	17.4	14.6	23.2	7.65	15.1	37.3	10.4	58.4	59.5	60.9	9.24	23.4	15.5	34.7	36.7	24.3	10	9.66	46.8	11.7	10.9	10.4	16.3	28.5
Lead	mg/kg	<14.6	19.3	129	808	17.7	<29.1	<16.4	17	17.3	16.9	57.1	83.3	122	<39.7	<41.0	<15.1	<14.5	<14.7	16.6	166	96.9	51.3	1410	<48.0
Selenium	mg/kg	<14.6	<14.4	<6.83	<13.9	<16.7	<14.5	<16.4	<8.07	<8.30	<8.40	<7.87	<7.20	<9.63	<19.8	<10.3	<7.54	<7.25	<7.35	<7.61	<6.93	<6.87	<12.6	<15.2	<12.0
Silver	mg/kg	<1.46	<1.44	<1.37	<1.39	<1.67	<2.91	<1.64	<1.61	<1.66	<1.68	<1.57	<1.44	<1.93	<3.97	<4.10	<1.51	<1.45	<1.47	<1.52	<1.39	<1.37	<1.26	<1.52	<4.80
Mercury	mg/kg	<0.037	<0.034	0.268	5.31	0.176	<0.065	<0.036	<0.036	<0.041	<0.038	0.128	0.565	0.194	<0.097	<0.094	<0.036	<0.039	<0.030	<0.037	0.321	0.117	0.066	<0.039	<0.116
Metals by Toxicity Characteristic Leaching Procedure (TCLP)																									
Arsenic	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead	mg/L	--	--	0.216	10.9	--	--	--	--	--	--	--	--	0.452	--	--	--	--	--	--	<0.050	--	--	0.726	--
Selenium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	mg/L	--	--	--	<0.00050	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Herbicides																									
2,4,5-T	mg/kg	--	<0.044	<0.044	<0.046	--	--	--	--	--	<0.051	<0.35	<0.068	<0.41	--	<0.15	--	--	--	--	<0.093	<0.092	<0.091	<0.046	--
2,4-D	mg/kg	--	<0.22	<0.22	<0.23	--	--	--	--	--	<0.26	<0.35	<0.068	<0.41	--	<0.15	--	--	--	--	<0.47	<0.46	<0.45	<0.23	--
2,4-DB	mg/kg	--	<0.017	<0.016	<0.017	--	--	--	--	--	<0.019	<0.35	<0.068	<0.41	--	<0.15	--	--	--	--	<0.035	<0.034	<0.034	<0.017	--
Dalapon	mg/kg	--	<1.3	<1.3	<1.4	--	--	--	--	--	<1.5	<4.2	<0.81	<4.9	--	<1.8	--	--	--	--	<2.8	<2.7	<2.7	<1.4	--
Dicamba	mg/kg	--	<0.066	<0.066	<0.069	--	--	--	--	--	<0.077	<0.35	<0.068	<0.41	--	<0.15	--	--	--	--	<0.14	<0.14	<0.14	<0.070	--
Dichlorprop	mg/kg	--	<0.14	<0.14	<0.15	--	--	--	--	--	<0.17	<0.35	<0.068	<0.41	--	<0.15	--	--	--	--	<0.30	<0.30	<0.29	<0.15	--
Dinoseb	mg/kg	--	<0.22	<0.22	<0.23	--	--	--	--	--	<0.26	<2.1	<0.41	<2.4	--	<0.91	--	--	--	--	<0.47	<0.46	<0.45	<0.23	--
MCPA	mg/kg	--	<55	<55	<58	--	--	--	--	--	<64	<85	<16	<98	--	<36	--	--	--	--	<120	<110	<110	<58	--
MCPP	mg/kg	--	<55	<55	<58	--	--	--	--	--	<64	<85	<16	<98	--	<36	--	--	--	--	<120	<110	<110	<58	--
Silvex (2,4,5-TP)	mg/kg	--	<0.044	<0.044	<0.046	--	--	--	--	--	<0.051	<0.35	<0.068	<0.41	--	<0.15	--	--	--	--	<0.093	<0.092	<0.091	<0.046	--
Pesticides																									
4,4'-DDD	mg/kg	--	<0.037	<0.037	<0.020	--	--	--	--	--	<0.0022	<0.024	<0.0046	<0.014	--	<0.0051	--	--	--	--	<0.020	<0.0039	<0.0019	<0.0020	--
4,4'-DDE	mg/kg	--	<0.037	<0.037	<0.020	--	--	--	--	--	<0.0022	<0.024	<0.0046	<0.014	--	<0.0051	--	--	--	--	<0.020	<0.0039	<0.0019	<0.0020	--
4,4'-DDT	mg/kg	--	<0.037	<0.037	<0.020	--	--	--	--	--	<0.0022	<0.024	<0.0046	<0.014	--	<0.0051	--	--	--	--	<0.020	<0.0039	<0.0019	<0.0020	--
Aldrin	mg/kg	--	<0.037	<0.037	<0.020	--	--	--	--	--	<0.0022	<0.024	<0.0046	<0.014	--	<0.0051	--	--	--	--	<0.020	<0.0039	<0.0019	<0.0020	--
alpha-BHC	mg/kg	--	<0.037	<0.037	<0.020	--	--	--	--	--	<0.0022	<0.024	<0.0046	<0.014	--	<0.0051	--	--	--	--	<0.020	<0.0039	<0.0019	<0.0020	--
beta-BHC	mg/kg	--	<0.037	<0.037	<0.020	--	--	--	--	--	<0.0022	<0.024	<0.0046	<0.014	--	<0.0051	--	--	--	--	<0.020	<0.0039	<0.0019	<0.0020	--
Chlordane (technical)	mg/kg	--	<1.1	<1.1	<0.58	--	--	--	--	--	<0.064	<0.24	<0.046	<0.14	--	<0.051	--	--	--	--	<0.20	<0.039	<0.019	<0.020	--
delta-BHC	mg/kg	--	<0.037	<0.037	<0.020	--	--	--	--	--	<0.0022	<0.024	<0.0046	<0.014	--	<0.0051	--	--	--	--	<0.020	<0.0039	<0.0019	<0.0020	--
Dieldrin	mg/kg	--	<0.037	<0.037	<0.020	--	--	--	--	--	<0.0022	<0.024	<0.0046	<0.014	--	<0.0051	--	--	--	--	<0.020	<0.0039	<0.0019	<0.0020	--
Endosulfan I	mg/kg	--	<0.037	<0.037	<0.020	--	--	--	--	--	<0.0022	<0.024	<0.0046	<0.014	--	<0.0051	--	--	--	--	<0.020	<0.0039	<0.0019	<0.0020	--
Endosulfan II	mg/kg	--	<0.037	<0.037	<0.020	--	--	--	--	--	<0.0022	<0.024	<0.0046	<0.014	--	<0.0051	--	--	--	--	<0.020	<0.0039	<0.0019	<0.0020	--
Endosulfan sulfate	mg/kg	--	<0.037	<0.037	<0.020	--	--	--	--	--	<0.0022	<0.024	<0.0046	<0.014	--	<0.0051	--	--	--	--	<0.020	<0.0039	<0.0019	<0.0020	--
Endrin	mg/kg	--	<0.037	<0.037	<0.020	--	--	--	--	--	<0.0022	<0.024	<0.0046	<0.014	--	<0.0051	--	--	--	--	<0.020	<0.0039	<0.0019	<0.0020	--
Endrin ketone	mg/kg	--	<0.037	<0.037	<0.020	--	--	--	--	--	<0.0022	<0.024	<0.0046	<0.014	--	<0.0051	--	--	--	--	<0.020	<0.0039	<0.0019	<0.0020	--
gamma-BHC (Lindane)	mg/kg	--	<0.037	<0.037	<0.020	--	--	--	--	--	<0.0022	<0.024	<0.0046	<0.014	--	<0.0051	--	--	--	--	<0.020	<0.0039	<0.0019	<0.0020	--
Heptachlor	mg/kg	--	<0.037	<0.037	<0.020	--	--	--	--	--	<0.0022	<0.024	<0.0046	<0.014	--	<0.0051	--	--	--	--	<0.020	<0.0039	<0.0019	<0.0020	--
Heptachlor epoxide	mg/kg	--	<0.037	<0.037	<0.020	--	--	--	--	--	<0.0022	<0.024	<0.0046	<0.014	--	<0.0051	--	--	--	--	<0.020	<0.0039	<0.0019	<0.0020	--
Hexachlorobenzene	mg/kg	--	<0.037	<0.037	<0.020	--	--	--	--	--	<0.0022	<0.024	<0.0046	<0.014	--	<0.0051	--	--	--	--	<0.020	<0.0039	<0.0019	<0.0020	--
Methoxychlor	mg/kg	--	<0.072	<0.072	<0.038	--	--	--	--	--	<0.0042	<0.024	<0.0046	<0.014	--	<0.0051	--	--	--	--	<0.020	<0.0039	<0.0019	<0.0020	--
Polychlorinated Biphenyls																									
Aroclor 1016	mg/kg	<0.152	<0.124	<0.135	<0.138	<0.150	<0.254	<0.142	<0.144	<0.153	<0.154	<0.145	<0.116	<0.184	<0.401	<0.397	<0.154	<0.155	<0.149	<0.157	<0.140	<0.137	<0.131	<0.159	<0.526
Aroclor 1221	mg/kg	<0.152	<0.124	<0.135	<0.138	<0.150	<0.254	<0.142	<0.144	<0.153	<0.154	<0.145	<0.116	<0.184	<0.401	<0.397	<0.154	<0.155	<0.149	<0.157	<0.140	<0.137	<0.131	<0.159	<0.526
Aroclor 1232	mg/kg	<0.152	<0.124	<0.135	<0.138	<0.150	<0.254	<0.142	<0.144	<0.153	<0.154	<0.145	<0.116	<0.184	<0.401	<0.397	<0.154	<0.155	<0.149	<0.157	<0.140	<0.137	<0.131	<0.159	<0.526
Aroclor 1242	mg/kg	<0.152	<0.124	<0.135	<0.138	<0.150	<0.254	<0.142	<0.144	<0.153	<0.154	<0.145	<0.116	<0.184	<0.401	<0.397	<0.154	<0.155	<0.149	<0.157	<0.140	<0.137	<0.131	<0.159	<0.526
Aroclor 1248	mg/kg	<0.152	<0.124	<0.135	<0.138	<0.150	<0.254	<0.142	<0.144	<0.153	<0.154	<0.145	<0.116	<0.184	<0.401	<0.397	<0.154	<0.155	<0.149	<0.157	<0.140	<0.137	<0.131	<0.159	<0.526
Aroclor 1254	mg/kg	<0.152	<0.124	<0.135	<0.138	<0.150	<0.254	<0.142	<0.144	<0.153	<0.154	<0.145	<0.116	<0.184	<0.401	<0.397	<0.154	<0.155	<0.149	<0.157	<0.140	<0.137	<0.131	<0.159	<0.526
Aroclor 1260	mg/kg	<0.152	<0.124	<0.135	<0.138	<0.150	<0.254	<0.142	<0.144	<0.153	<0.154	<0.145	<0.116	<0.184	<0.401	<0.397	<0.154	<0.155	<0.149	<0.157	<0.140	<0.137	<0.131	<0.159	<0.526
Aroclor 1262	mg/kg	<0.152	<0.124	<0.135	<0.138	<0.150	<0.254	<0.142	<0.144	<0.153	<0.154	<0.145	<0.116	<0.184	<0.401	<0.397	<0.154	<0.155	<0.149	<0.157	<0.140	<0.137	<0.131	<0.159	<0.526
Aroclor 1268	mg/kg	<0.152	<0.124	<0.135	<0.138	<0.150	<0.254	<0.142	<0.144	<0.153	<0.154	<0.145	<0.116	<0.184	<0.401	<0.397	<0.154	<0.155	<0.149	<0.157	<0.140	<0.137	<0.131	<0.159	<0.526
Total PCBs	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Petroleum Hydrocarbons	mg/kg	<47.8	2050	375	119	47.4	323	<48.5	<48.9	<47.7	<46.0	344	56	745	690	867	<49.8	<46.0	<41.1	<52.3	351	63.6	207	113	1060
Volatile Organic Compounds (VOCs)																									
1,1,1,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.107	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-Chloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.215	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane - Screen	mg/kg	--	--	--	--	--	--	--	--	--	--	<5.37	--	--	--	--	--	--	--	--	--	--	--	--	--
2,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.107	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Butanone	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.215	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.215	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Isopropyltoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-Pentanone	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.215	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	mg/kg	--	--	--	--	--	--	--	--	--	--	0.333	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzene	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.107	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Disulfide	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	J16 J16S10S11 1501435 Natural Clay 34 - 38 1/21/2015	J17 J17S01S02A 1501389 Fill 0 - 3.3 1/20/2015	J17 J17S02BS04A 1501389 Fill 3.3 - 6.6 1/20/2015	J17 J17S04BS05 1501389 Fill 6.6 - 10 1/20/2015	J17 J17S06 1501389 Natural Sand/Gravel 10 - 12 1/20/2015	J17 J17S07 1501389 Natural Organics 14 - 16 1/20/2015	J17 J17S08 1501389 Natural Sand/Gravel 19 - 21 1/20/2015	J17 J17S09 1501389 Natural Clay 24 - 26 1/20/2015	J17 J17S10 1501389 Natural Clay 29 - 31 1/20/2015	J17 J17S11S12 1501389 Natural Clay 34 - 38 1/20/2015	K08 K08S01S02A 1502228 Fill 0 - 3.3 2/17/2015	K08 K08S02BS04A 1502228 Fill 3.3 - 6.6 2/17/2015	K08 K08S04BS05 1502228 Fill 6.6 - 9 2/17/2015	K08 K08S06 1502228 Natural Organics 10 - 12 2/17/2015	K08 K08S07 1502228 Natural Organics 14 - 16 2/17/2015	K08 K08S08 1502228 Natural Clay 19 -21 2/17/2015	K08 K08S09 1502228 Natural Sand/Gravel 24 - 26 2/17/2015	K08 K08S10 1502228 Natural Sand/Gravel 29 - 31 2/17/2015	K08 K08S11S12 1502228 Natural Clay 34 - 38 2/17/2015	K09 K09S01S02A 1502050 Fill 0 - 3.3 2/4/2015	K09 K09S02BS04A 1502050 Fill 3.3 - 6.6 2/4/2015	K09 K09S04B 1502050 Fill 6.6 - 8 2/4/2015	K09 K09S05S06 1502050 Natural Sand/Gravel 8 - 12 2/4/2015	K09 K09S07 1502050 Natural Organics 14 - 16 2/4/2015
Preliminary Disposal Facility Category		MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Material Type B-2	MCP Regulated Type A	MCP Regulated Type B-1	Uncontaminated	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	Hazardous Material Type A	Uncontaminated	Uncontaminated	MCP Regulated Type A	MCP Restricted	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type B-1
Chlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.107	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	mg/kg	--	--	--	--	--	--	--	--	--	--	0.072	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.107	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--
Diethyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--
Di-isopropyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethyl tertiary-butyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.215	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	mg/kg	--	--	--	--	--	--	--	--	--	--	0.0666	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--
tert-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--
Tertiary-amyl methyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.215	--	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene O	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.0537	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene P,M	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.107	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylenes (Total)	mg/kg	--	--	--	--	--	--	--	--	--	--	<0.107	--	--	--	--	--	--	--	--	--	--	--	--	--
Total VOCs	mg/kg	--	--	--	--	--	--	--	--	--	--	0.4716	--	--	--	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds - Low Level Analysis																									
1,1,1,2-Tetrachloroethane	mg/kg	<0.0036	<0.0037	<0.0041	<0.0052	<0.0044	<0.0118	<0.0033	<0.0042	<0.0044	<0.0048	<0.0076	<0.0051	<0.0079	<0.0180	<0.0112	<0.0050	<0.0047	<0.0039	<0.0063	<0.0037	<0.0050	<0.0039	<0.0039	<0.0361
1,1,1-Trichloroethane	mg/kg	<0.0036	<0.0037	<0.0041	<0.0052	<0.0044	<0.0118	<0.0033	<0.0042	<0.0044	<0.0048	<0.0076	<0.0051	<0.0079	<0.0180	<0.0112	<0.0050	<0.0047	<0.0039	<0.0063	<0.0037	<0.0050	<0.0039	<0.0039	<0.0361
1,1,2,2-Tetrachloroethane	mg/kg	<0.0014	<0.0015	<0.0016	<0.0021	<0.0018	<0.0047	<0.0013	<0.0017	<0.0018	<0.0019	<0.0031	<0.0020	<0.0032	<0.0072	<0.0045	<0.0020	<0.0019	<0.0015	<0.0025	<0.0015	<0.0020	<0.0016	<0.0016	<0.0144
1,1,2-Trichloroethane	mg/kg	<0.0036	<0.0037	<0.0041	<0.0052	<0.0044	<0.0118	<0.0033	<0.0042	<0.0044	<0.0048	<0.0076	<0.0051	<0.0079	<0.0180	<0.0112	<0.0050	<0.0047	<0.0039	<0.0063	<0.0037	<0.0050	<0.0039	<0.0039	<0.0361
1,1-Dichloroethane	mg/kg	<0.0036	<0.0037	<0.0041	<0.0052	<0.0044	<0.0118	<0.0033	<0.0042	<0.0044	<0.0048	<0.0076	<0.0051	<0.0079	<0.0180	<0.0112	<0.0050	<0.0047	<0.0039	<0.0063	<0.0037	<0.0050	<0.0039	<0.0039	<0.0361
1,1-Dichloroethene	mg/kg	<0.0036	<0.0037	<0.0041	<0.0052	<0.0044	<0.0118	<0.0033	<0.0042	<0.0044	<0.0048	<0.0076	<0.0051	<0.0079	<0.0180	<0.0112	<0.0050	<0.0047	<0.0039	<0.0063	<0.0037	<0.0050	<0.0039	<0.0039	<0.0361
1,1-Dichloropropene	mg/kg	<0.0036	<0.0037	<0.0041	<0.0052	<0.0044	<0.0118	<0.0033	<0.0042	<0.0044	<0.0048	<0.0076	<0.0051	<0.0079	<0.0180	<0.0112	<0.0050	<0.0047	<0.0039	<0.0063	<0.0037	<0.0050	<0.0039	<0.0039	<0.0361
1,2,3-Trichlorobenzene	mg/kg	<0.0036	<0.0037	<0.0041	<0.0052	<0.0044	<0.0118	<0.0033	<0.0042	<0.0044	<0.0048	<0.0076	<0.0051	<0.0079	<0.0180	<0.0112	<0.0050	<0.0047	<0.0039	<0.0063	<0.0037	<0.0050	<0.0039	<0.0039	<0.0361
1,2,3-Trichloropropane	mg/kg	<0.0036	<0.0037	<0.0041	<0.0052	<0.0044	<0.0118	<0.0033	<0.0042	<0.0044	<0.0048	<0.0076	<0.0051	<0.0079	<0.0180	<0.0112	<0.0050	<0.0047	<0.0039	<0.0063	<0.0037	<0.0050	<0.0039	<0.0039	<0.0361
1,2,4-Trichlorobenzene	mg/kg	<0.0036	<0.0037	<0.0041	<0.0052	<0.0044	<0.0118	<0.0033	<0.0042	<0.0044	<0.0048	<0.0076	<0.0051	<0.0079	<0.0180	<0.0112	<0.0050	<0.0047	<0.0039	<0.0063	<0.0037	<0.0050	<0.0039	<0.0039	<0.0361
1,2,4-Trimethylbenzene	mg/kg	<0.0036	<0.0037	<0.0041	<0.0052	<0.0044	<0.0118	<0.0033	<0.0042	<0.0044	<0.0048	<0.0076	<0.0051	<0.0079	<0.0180	<0.0112	<0.0050	<0.0047	<0.0039	<0.0063	<0.0037	<0.0050	<0.0039	<0.0039	<0.0361
1,2-Dibromo-3-Chloropropane	mg/kg	<0.0036	<0.0037	<0.0041	<0.0052	<0.0044	<0.0118	<0.0033	<0.0042	<0.0044	<0.0048	<0.0076	<0.0051	<0.0079	<0.0180	<0.0112	<0.0050	<0.0047	<0.0039	<0.0063	<0.0037	<0.0050	<0.0039	<0.0039	<0.0361
1,2-Dibromoethane	mg/kg	<0.0036	<0.0037	<0.0041	<0.0052	<0.0044	<0.0118	<0.0033	<0.0042	<0.0044	<0.0048	<0.0076	<0.0051	<0.0079	<0.0180	<0.0112	<0.0050	<0.0047	<0.0039	<0.0063	<0.0037	<0.0050	<0.0039	<0.0039	<0.0361
1,2-Dichlorobenzene	mg/kg	<0.0036	<0.0037	<0.0041	<0.0052	<0.0044	<0.0118	<0.0033	<0.0042	<0.0044	<0.0048	<0.0076	<0.0051	<0.0079	<0.0180	<0.0112	<0.0050	<0.0047	<0.0039	<0.0063	<0.0037	<0.0050	<0.0039	<0.0039	<0.0361
1,2-Dichloroethane	mg/kg	<0.0036	<0.0037	<0.0041	<0.0052	<0.0044	<0.0118	<0.0033	<0.0042	<0.0044	<0.0048	<0.0076	<0.0051	<0.0079	<0.0180	<0.0112	<0.0050	<0.0047	<0.0039	<0.0063	<0.0037	<0.0050	<0.0039	<0.0039	<0.0361
1,2-Dichloropropane	mg/kg	<0.0036	<0.0037	<0.0041	<0.0052	<0.0044	<0.0118	<0.0033	<0.0042	<0.0044	<0.0048	<0.0076	<0.0051	<0.0079	<0.0180	<0.0112	<0.0050	<0.0047	<0.0039	<0.0063	<0.0037	<0.0050	<0.0039	<0.0039	<0.0361
1,3,5-Trimethylbenzene	mg/kg	<0.0036	<0.0037	<0.0041	<0.0052	<0.0044	<0.0118	<0.0033	<0.0042	<0.0044	<0.0048	<0.0076	<0.0051	<0.0079	<0.0180	<0.0112	<0.0050	<0.0047	<0.0039	<0.0063	<0.0037	<0.0050	<0.0039	<0.0039	<0.0361
1,3-Dichlorobenzene	mg/kg	<0.0036	<0.0037	<0.0041	<0.0052	<0.0044	<0.0118	<0.0033	<0.0042	<0.0044	<0.0048	<0.0076	<0.0051	<0.0079	<0.0180	<0.0112	<0.0050	<0.0047	<0.0039	<0.0063	<0.0037	<0.0050	<0.0039	<0.0039	<0.0361
1,3-Dichloropropane	mg/kg	<0.0036	<0.0037	<0.0041	<0.0052	<0.0044	<0.0118	<0.0033	<0.0042	<0.0044	<0.0048	<0.0076	<0.0051	<0.0079	<0.0180	<0.0112	<0.0050	<0.0047	<0.0039	<0.0063	<0.0037	<0.0050	<0.0039	<0.0039	<0.0361
1,4-Dichlorobenzene	mg/kg	<0.0036	<0.0037	<0.0041	<0.0052	<0.0044	<0.0118	<0.0033	<0.0042	<0.0044	<0.0048	<0.0076	<0.0051	<0.0079	<0.0180	<0.0112	<0.0050	<0.0047	<0.0039	<0.0063	<0.0037	<0.0050	<0.0039	<0.0039	<0.0361
1,4-Dioxane	mg/kg	<0.0724	<0.0746	<0.0822	<0.103	<0.0881	<0.236	<0.0660	<0.0831	<0.0883	<0.0959	<0.153	<0.102	<0.158	<0.360	<0.225	<0.0991	<0.0936	<0.0773	<0.126	<0.0736	<0.100	<0.0783	<0.0777	<0.722
2,2-Dichloropropane	mg/kg	<0.0036	<0.0037	<0.0041	<0.0052	<0.0044	<0.0118	<0.0033	<0.0042	<0.0044	<0.0048	<0.0076	<0.0051	<0.0079	<0.0180	<0.0112	<0.0050	<0.0047	<0.0039	<0.0063	<0.0037	<0.0050	<0.0039	<0.0039	<0.0361
2-Butanone	mg/kg	<0.0072	<0.0075	<0.0082	<0.0103	<0.0088	<0.0236	<0.0066	<0.0083	<0.0088	<0.0096	<0.0153	<0.0102	<0.0158	<0.0360	<0.0225	<0.0099	<0.0094	<0.0077	<0.0126	<0.0074	<0.0100	<0.0078	<0.0078	<0.0722
2-Chlorotoluene	mg/kg	<0.0036	<0.0037	<0.0041	<0.0052	<0.0044	<0.0118	<0.0033	<0.0042	<0.0044	<0.0048	<0.0076	<0.0051	<0.0079	<0.0180	<0.0112	<0.0050	<0.0047	<0.0039	<0.0063	<0.0037	<0.0050	<0.0039	<0.0039	<0.0361
2-Hexanone	mg/kg	<0.0072	<0.0075	<0.0082	<0.0103	<0.0088	<0.0236	<0.0066	<0.0083	<0.0088	<0.0096	<0.0153	<0.0102	<0.0158	<0.0360	<0.0225	<0.0099	<0.0094	<0.0077	<0.0126	<0.0074	<0.0100	<0.0078	<0.0078	<0.0722
4-Chlorotoluene	mg/kg	<0.0036	<0.0037	<0.0041	<0.0052	<0.0044	<0.0118	<0.0033	<0.0042	<0.0044	<0.0048	<0.0076	<0.0051	<0.0079	<0.0180	<0.0112	<0.0050	<0.0047	<0.0039	<0.0063	<0.0037	<0.0050	<0.0039	<0.0039	<0.0361
4-Isopropyltoluene	mg/kg	<0.0036	<0.0037	<0.0041	<0.0052	<0.0044	<0.0118	<0.0033	<0.0042	<0.0044	<0.0048	<0.0076	<0.0051	<0.0079	<0.0180	<0.0112	<0.0050	<0.0047	<0.0039	<0.0063	<0.0037	<0.0050	<0.0039	<0.0039	<0.0361
4-Methyl-2-Pentanone	mg/kg	<0.0072	<0.0075	<0.0082	<0.0103	<0.0088	<0.0236	<0.0066	<0.0083	<0.0088	<0.0096	<0.0153	<0.0102	<0.0158	<0.0360	<0.0225	<0.0099	<0.0094	<0.0077	<0.0126	<0.0074	<0.0100	<0.0078	<0.0078	<0.0722
Acetone	mg/kg	0.0097	0.0406	0.0198	0.0353	0.0233	0.106	<0.0066	0.0222	<0.0088	<0.0096	<0.0153	<0.0102	0.0278	0.097	0.19	<0.0099	<0.0094	0.0109	<0.0126	0.0091	<0.0100	0.0179	0.0299	0.179
Benzene	mg/kg	<0.0036	<0.0037	<0.0041	<0.0052	<0.0044	<0.0118	<0.0033	<0.0042	<0.0044	<0.0048	<0.0076	<0.0051	<0.0079	<0.0180	<0.0112	<0.0050	<0.0047	<0.0039	<0.0063	<0.0037	<0.0050	<0.0039	<0.0039	<0.0361
Bromobenzene	mg/kg	<0.0036	<0.0037	<0.0041	<0.0052	<0.0044	<0.0118	<0.0033	<0.0042	<0.0044	<0.0048	<0.0076	<0.0051	<0.0079	<0.0180	<0.0112	<0.0050	<0.0047	<0.0039	<0.0063	<0.0037	<0.0050	<0.0039	<0.0039	<0.0361
Bromochloromethane	mg/kg	<0.0036	<0.0037	<0.0041	<0.0052	<0.0044	<0.0118	<0.0033	<0.0042	<0.0044	<0.0048	<0.0076	<0.0051	<0.0079	<0.0180	<0.0112	<0.0050	<0.0047	<0.0039	<0.0063	<0.0037	<0.0050	<0.0039	<0.0039	<0.0361
Bromodichloromethane	mg/kg	<0.0036	<0.0037	<0.0041	<0.0052	<0.0044	<0.0118	<0.0033	<0.0042	<0.0044	<0.0048	<0.0076	<0.0051	<0.0079	<0.0180	<0.0112	<0.0050	<0.0047	<0.0039	<0.0063	<0.0037	<0.0050	<0.0039	<0.0039	<0.0361
Bromoform	mg/kg	<0.0036	<0.0037	<0.0041	<0.0052	<0.0044	<0.0118	<0.0033	<0.0042	<0.0044	<0.0048	<0.0076	<0.0051	<0.0079	<0.0180	<0.0112	<0.0050	<0.0047	<0.0039	<0.0063	<0.0037	<0.0050	<0.0039	<0.0039	<0.0361
Bromomethane	mg/kg	<0.0072	<0.0075	<0.0082	<0.0103	<0.0088	<0.0236	<0.0066	<0.0083	<0.0088	<0.0096	<0.0153	<0.0102	<0.0158	<0.0360	<0.0225	<0.0099	<0.0094	<0.0077	<0.0126	<0.0074	<0.0100	<0.0078	<0.0078	<0.0722
Carbon Disulfide	mg/kg	<0.0036	<0.0037	<0.0041	<0.0052	<0.0044	0.0151	<0.0033	<0.0042	<0.0044	<0.0048	<0.0076	<0.0051	<0.0079	<0.0180	0.0131	<0.0050	<0.0047	<0.0039	<0.0063	<0.0037	<0.0050	<0.0039	<0.0039	<0.0361
Carbon Tetrachloride	mg/kg	<0.0036	<0.0037	<0.0041	<0.0052	<0.0044	<0.0118	<0.0033	<0.0042	<0.0044	<0.0048	<0.0076	<0.0051	<0.0079	<0.0180	<0.0112	<0.0050	<0.0047	<0.0039	<0.0063	<0.0037	<0.0050	<0.0039	<0.0039	<0.0361
Chlorobenzene	mg/kg	<0.0036	<0.0037	<0.0041	<0.0052	<0.0044	<0.0118	<0.0033	<0.0042	<0.0044	<0.0048	<0.0076	<0.0051	<0.0079	<0.0180	<0.0112	<0.0050	<0.0047	<0.0039	<0.0063	<0.0037	<0.0050	<0.0039	<0.0039	<0.0361
Chloroethane	mg/kg	<0.0072	<0.0075	<0.0082	<0.0103	<0.0088	<0.0236	<0.0066	<0.0083	<0.0088	<0.0096	<0.0153	<0.0102	<0.0158	<0.0360	<0.0225	<0.0099	<0.0094	<0.0077	<0.0126	<0.0074	<0.0100	<0.0078	<0.0078	<0.0722
Chloroform	mg/kg	<0.0036	<0.0037	<0.0041	<0.0052	<0.0044	<0.0118	<0.0033	<0.0042	<0.0044	<0.0048	<0.0076	<0.0051	<0.0079	<0.0180	<0.0112	<0.0050	<0.0047	<0.0039	<0.0063	<0.0037	<0.0050	<0.0039	<0.0039	<0.0361
Chloromethane	mg/kg	<0.0072	<0.0075	<0.0082	<0.0103	<0.0088	<0.0236	<0.0066	<0.0083	<0.0088	<0.0096	<0.0153	<0.0102	<0.0158	<0.0360	<0.0225	<0.0099	<0.0094	<0.0077	<0.0126	<0.0074	<0.0100	<0.0078	<0.0078	<0.0722
cis-1,2-Dichloroethene	mg/kg	<0.0036	<0.0037	<0.0041	<0.0052	<0.0044	<0.0118	<0.0033	<0.0042	<0.0044	<0.0048	<0.0076	<0.0051	<0.0079	<0.0180	<0.0112	<0.0050	<0.0047	<0.0039	<0.0063	<0.0037	<0.0050	<0.0039	<0.0039	<0.0361
cis-1,3-Dichloropropene	mg/kg	<0.0036	<0.0037	<0.0041	<0.0052	<0.0044	<0.0118	<0.0033	<0.0042	<0.0044	<0.0048	<0.0076	<0.0051	<0.0079	<0.0180	<0.0112	<0.0050	<0.0047	<0.0039	<0.0063	<0.0037	<0.0050	<0.0039	<0.0039	<0.0361
Dibromochloromethane	mg/kg	<0.0014	<0.0015	<0.0016	<0.0021	<0.0018	<0.0047	<0.0013	<0.0017	<0.0018	<0.0019	<0.0031	<0.0020	<0.0032	<0.0072	<0.0045	<0.0020	<0.0019	<0.0015	<0.0025	<0.0015	<0.0020	<0.0016	<0.0016	<0.0144
Dibromomethane	mg/kg	<0.0036	<0.0037	<0.0041	<0.0052	<0.0044	<0.0118	<0.0033	<0.0042	<0.0044	<0.0048	<0.0076	<0.0051	<0.0079	<0.0180	<0.0112	<0.0050	<0.0047	<0.0039	<0.0063	<0.0037	<0.0050	<0.0039	<0.0039	<0.0361
Dichlorodifluoromethane	mg/kg	<0.0072	<0.0075	<0.0082	<0.0103	<0.0088	<0.0236	<0.0066	<0.0083	<0.0088	<0.0096	<0.0153	<0.0102	<0.0158	<0.0360	<0.0225	<0.0099	<0.0094	<0.0077	<0.0126	<0.0074	<0.0100	<0.0078	<0.0078	<0.0722
Diethyl Ether	mg/kg	<0.0036	<0.0037	<0.0041	<0.0052	<0.0044	<0.0118	<0.0033	<0.0042	<0.0044	<0.0048	<0.0076	<0.0051	<0.0079	<0.0180	<0.0112	<0.0050	<0.0047	<0.0039	<0.0063	<0.0037	<0.0050	<0.0039	<0.0039	<0.0361
Di-isopropyl ether	mg/kg	<0.0036	<0.0037	<0.0041	<0.0052	<0.0044	<0.0118	<0.0033	<0.0042	<0.0044	<0.0048	<0.0076	<0.0051	<0.0079	<0.0180	<0.0112	<0.0050	<0.0047	<0.0039	<0.0063	<0.0037	<0.0050	<0.0039	<0.0039	<0.0361
Ethyl tertiary-butyl ether	mg/kg	<0.0036	<0.0037	<0.0041	<0.0052	<0.0044	<0.0118	<0.0033	<0.0042	<0.0044	<0.0048	<0.0076	<0.0051	<0.0079	<0.0180	<0.0112	<0.0050	<0.0047	<0.0039	<0.0063	<0.0037	<0.0050	<0.0039	<0.0039	<0.0361
Ethylbenzene	mg/kg	<0.0036	<0.0037	<0.0041	<0.0052	<0.0044	<0.0118	<0.0033	<0.0042	<0.0044	<0.0048	<0.0076	<0.0051	<0.0079	<0.0180	<0.0112	<0.0050	<0.0047	<0.0039	<0.0063	<0.0037	<0.0050	<0.0039	<0.0039	<0.0361
Hexachlorobutadiene	mg/kg	<0.0036	<0.0037	<0.0041	<0.0052	<0.0044	<0.0118	<0.0033	<0.0042	<0.0044	<0.0048	<0.0076	<0.0051	<0.0079	<0.0180	<0.0112	<0.0050	<0.0047	<0.0039	<0.0063	<0.0037	<0.0050	<0.0039	<0.0039	<0.0361
Isopropylbenzene	mg/kg	<0.0036	<0.0037	<0.0041	<0.0052	<0.0044	<0.0118	<0.0033	<0.0042	<0.0044	<0.0048	<0.0076	<0.0051	<0.0079	<0.0180	<0.0112	<0.0050	<0.0047	<0.0039	<0.0063	<0.0037	<0.0050	<0.0039	<0.0039	<0.0361
Methyl tert-Butyl Ether	mg/kg	<0.0036	<0.0037	<0.0041	<0.0052	<0.0044	<0.0118	<0.0033	<0.0042	<0.0044	<0.0048	<0.0076	<0.0051	<0.0079	<0.0180	<0.0112	<0.0050	<0.0047	<0.0039	<0.0063	<0.0037	<0.0050	<0.0039	<0.0039	<0.0361
Methylene Chloride	mg/kg	<0.0072	<0.0075	<0.0082	<0.0103	<0.0088	<0.0236	<0.0066	<0.0083	<0.0088	<0.0096	<0.0153	<0.0102	<0.0158	<0.0360	<0.0225	<0.0099	<0.0094	<0.0077	<0.0126	<0.0074	<0.0100	<0.0078	<0.0078	<0.0722
Naphthalene	mg/kg	<0.0036	<0.0037	<0.0041	<0.0052	<0.0044	<0.0118	<0.0033	<0.0042	<0.0044	<0.0048	<0.0076	<0.0051	<0.0079	<0.0180	<0.0112	<0.0050	<0.0047	<0.0039	<0.0063	<0.0037	<0.0050	<0.0039	<0.0039	<0.0361
n-Butylbenzene	mg/kg	<0.0036	<0.0037	<0.0041	<0.0052	<0.0044	<0.0118	<0.0033	<0.0042	<0.0044	<0.0048	<0.0076	<0.0051	<0.0079	<0.0180	<0.0112	<0.0050	<0.0047	<0.0039	<0.0063	<0.0037	<0.0050	<0.0039	<0.0039	<0.0361
n-Propylbenzene	mg/kg	<0.0036	<0.0037	<0.0041	<0.0052	<0.0044	<0.0118	<0.0033	<0.0042	<0.0044	<0.0048	<0.0076	<0.0051	<0.0079	<0.0180	<0.0112	<0.0050	<0.0047	<0.0039	<0.0063	<0.0037	<0.0050	<0.0039	<0.0039	<0.0361
sec-Butylbenzene	mg/kg	<0.0036	<0.0037	<0.0041	<0.0052	<0.0044	<0.0118	<0.0033	<0.0042	<0.0044	<0.0048	<0.0076	<0.0051	<0.0079	<0.0180	<0.0112	<0.0050	<0.0047	<0.0039	<0.0063	<0.0037	<0.0050	<0.0039	<0.0039	<0.0361

J:\170,000-179,999

Table 1
Soil Precharacterization Data

Wynn Resort Casino
Everett, Massachusetts

Analyte	Precharacterization Cell	J16	J17	J17	J17	J17	J17	J17	J17	J17	J17	K08	K08	K08	K08	K08	K08	K08	K08	K08	K09	K09	K09	K09
	Sample ID	J16S10S11	J17S01S02A	J17S02BS04A	J17S04BS05	J17S06	J17S07	J17S08	J17S09	J17S10	J17S11S12	K08S01S02A	K08S02BS04A	K08S04BS05	K08S06	K08S07	K08S08	K08S09	K08S10	K08S11S12	K09S01S02A	K09S02BS04A	K09S04B	K09S05S06	K09S07
	Laboratory Work Order	1501435	1501389	1501389	1501389	1501389	1501389	1501389	1501389	1501389	1501389	1502228	1502228	1502228	1502228	1502228	1502228	1502228	1502228	1502228	1502050	1502050	1502050	1502050	1502050
	Soil Distinction	Natural	Fill	Fill	Fill	Natural	Natural	Natural	Natural	Natural	Natural	Fill	Fill	Fill	Organics	Natural	Natural	Natural	Natural	Natural	Fill	Fill	Fill	Natural	Natural
	Soil Type	Clay				Sand/Gravel	Organics	Sand/Gravel	Clay	Clay	Clay					Clay	Clay	Sand/Gravel	Sand/Gravel	Clay				Sand/Gravel	Organics
	Depth Interval (ft.)	34 - 38	0 - 3.3	3.3 - 6.6	6.6 - 10	10 - 12	14 - 16	19 - 21	24 - 26	29 - 31	34 - 38	0 - 3.3	3.3 - 6.6	6.6 - 9	10 - 12	14 - 16	19 -21	24 - 26	29 - 31	34 - 38	0 - 3.3	3.3 - 6.6	6.6 - 8	8 - 12	14 - 16
	Sampling Date	1/21/2015	1/20/2015	1/20/2015	1/20/2015	1/20/2015	1/20/2015	1/20/2015	1/20/2015	1/20/2015	1/20/2015	2/17/2015	2/17/2015	2/17/2015	2/17/2015	2/17/2015	2/17/2015	2/17/2015	2/17/2015	2/17/2015	2/4/2015	2/4/2015	2/4/2015	2/4/2015	2/4/2015
Preliminary Disposal Facility Category		MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Material Type B-2	MCP Regulated Type A	MCP Regulated Type B-1	Uncontaminated	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	Hazardous Material Type A	Uncontaminated	Uncontaminated	MCP Regulated Type A	MCP Restricted	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type B-1
Styrene	mg/kg	<0.0036	<0.0037	<0.0041	<0.0052	<0.0044	<0.0118	<0.0033	<0.0042	<0.0044	<0.0048	<0.0076	<0.0051	<0.0079	<0.0180	<0.0112	<0.0050	<0.0047	<0.0039	<0.0063	<0.0037	<0.0050	<0.0039	<0.0039	<0.0361
tert-Butylbenzene	mg/kg	<0.0036	<0.0037	<0.0041	<0.0052	<0.0044	<0.0118	<0.0033	<0.0042	<0.0044	<0.0048	<0.0076	<0.0051	<0.0079	<0.0180	<0.0112	<0.0050	<0.0047	<0.0039	<0.0063	<0.0037	<0.0050	<0.0039	<0.0039	<0.0361
Tertiary-amyl methyl ether	mg/kg	<0.0036	<0.0037	<0.0041	<0.0052	<0.0044	<0.0118	<0.0033	<0.0042	<0.0044	<0.0048	<0.0076	<0.0051	<0.0079	<0.0180	<0.0112	<0.0050	<0.0047	<0.0039	<0.0063	<0.0037	<0.0050	<0.0039	<0.0039	<0.0361
Tetrachloroethene	mg/kg	<0.0036	<0.0037	<0.0041	<0.0052	<0.0044	<0.0118	<0.0033	<0.0042	<0.0044	<0.0048	<0.0076	<0.0051	<0.0079	<0.0180	<0.0112	<0.0050	<0.0047	<0.0039	<0.0063	<0.0037	<0.0050	<0.0039	<0.0039	<0.0361
Tetrahydrofuran	mg/kg	<0.0036	<0.0037	<0.0041	<0.0052	<0.0044	<0.0118	<0.0033	<0.0042	<0.0044	<0.0048	<0.0076	<0.0051	<0.0079	<0.0180	<0.0112	<0.0050	<0.0047	<0.0039	<0.0063	<0.0037	<0.0050	<0.0039	<0.0039	<0.0361
Toluene	mg/kg	<0.0036	<0.0037	<0.0041	<0.0052	<0.0044	<0.0118	<0.0033	<0.0042	<0.0044	<0.0048	<0.0076	<0.0051	<0.0079	<0.0180	<0.0112	<0.0050	<0.0047	<0.0039	<0.0063	<0.0037	<0.0050	<0.0039	<0.0039	<0.0361
trans-1,2-Dichloroethene	mg/kg	<0.0036	<0.0037	<0.0041	<0.0052	<0.0044	<0.0118	<0.0033	<0.0042	<0.0044	<0.0048	<0.0076	<0.0051	<0.0079	<0.0180	<0.0112	<0.0050	<0.0047	<0.0039	<0.0063	<0.0037	<0.0050	<0.0039	<0.0039	<0.0361
trans-1,3-Dichloropropene	mg/kg	<0.0036	<0.0037	<0.0041	<0.0052	<0.0044	<0.0118	<0.0033	<0.0042	<0.0044	<0.0048	<0.0076	<0.0051	<0.0079	<0.0180	<0.0112	<0.0050	<0.0047	<0.0039	<0.0063	<0.0037	<0.0050	<0.0039	<0.0039	<0.0361
Trichloroethene	mg/kg	<0.0036	<0.0037	<0.0041	<0.0052	<0.0044	<0.0118	<0.0033	<0.0042	<0.0044	<0.0048	<0.0076	<0.0051	<0.0079	<0.0180	<0.0112	<0.0050	<0.0047	<0.0039	<0.0063	<0.0037	<0.0050	<0.0039	<0.0039	<0.0361
Trichlorofluoromethane	mg/kg	<0.0036	<0.0037	<0.0041	<0.0052	<0.0044	<0.0118	<0.0033	<0.0042	<0.0044	<0.0048	<0.0076	<0.0051	<0.0079	<0.0180	<0.0112	<0.0050	<0.0047	<0.0039	<0.0063	<0.0037	<0.0050	<0.0039	<0.0039	<0.0361
Vinyl Chloride	mg/kg	<0.0072	<0.0075	<0.0082	<0.0103	<0.0088	<0.0236	<0.0066	<0.0083	<0.0088	<0.0096	<0.0153	<0.0102	<0.0158	<0.0360	<0.0225	<0.0099	<0.0094	<0.0077	<0.0126	<0.0074	<0.0100	<0.0078	<0.0078	<0.0722
Xylene O	mg/kg	<0.0036	<0.0037	<0.0041	<0.0052	<0.0044	<0.0118	<0.0033	<0.0042	<0.0044	<0.0048	<0.0076	<0.0051	<0.0079	<0.0180	<0.0112	<0.0050	<0.0047	<0.0039	<0.0063	<0.0037	<0.0050	<0.0039	<0.0039	<0.0361
Xylene P,M	mg/kg	<0.0072	<0.0075	<0.0082	<0.0103	<0.0088	<0.0236	<0.0066	<0.0083	<0.0088	<0.0096	<0.0153	<0.0102	<0.0158	<0.0360	<0.0225	<0.0099	<0.0094	<0.0077	<0.0126	<0.0074	<0.0100	<0.0078	<0.0078	<0.0722
Xylenes (Total)	mg/kg	<0.0072	<0.0075	<0.0082	<0.0103	<0.0088	<0.0236	<0.0066	<0.0083	<0.0088	<0.0096	<0.0153	<0.0102	<0.0158	<0.0360	<0.0225	<0.0099	<0.0094	<0.0077	<0.0126	<0.0074	<0.0100	<0.0078	<0.0078	<0.0722
Total VOCs (Low Level)	mg/kg	0.0097	0.0406	0.0198	0.0353	0.0233	0.1211	ND	0.0222	ND	ND	ND	ND	0.0278	0.097	0.2031	ND	ND	0.0109	ND	0.0091	ND	0.0179	0.0299	0.179
Semi-Volatile Organic Compounds																									
1,2,4-Trichlorobenzene	mg/kg	<1.00	<1.63	<0.868	<0.897	<0.979	<1.84	<0.996	<1.01	<1.05	<1.05	<0.990	<0.982	<4.93	<2.67	<2.60	<1.02	<1.01	<0.987	<1.04	<4.57	<0.928	<4.64	<0.974	<3.39
1,2-Dichlorobenzene	mg/kg	<1.00	<1.63	<0.868	<0.897	<0.979	<1.84	<0.996	<1.01	<1.05	<1.05	<0.990	<0.982	<4.93	<2.67	<2.60	<1.02	<1.01	<0.987	<1.04	<4.57	<0.928	<4.64	<0.974	<3.39
1,3-Dichlorobenzene	mg/kg	<1.00	<1.63	<0.868	<0.897	<0.979	<1.84	<0.996	<1.01	<1.05	<1.05	<0.990	<0.982	<4.93	<2.67	<2.60	<1.02	<1.01	<0.987	<1.04	<4.57	<0.928	<4.64	<0.974	<3.39
1,4-Dichlorobenzene	mg/kg	<0.502	<0.819	<0.435	<0.450	<0.491	<0.924	<0.500	<0.505	<0.528	<0.524	<0.496	<0.493	<2.47	<1.34	<1.31	<0.509	<0.509	<0.495	<0.520	<2.29	<0.465	<2.33	<0.489	<1.70
2,4,5-Trichlorophenol	mg/kg	<1.00	<1.63	<0.868	<0.897	<0.979	<1.84	<0.996	<1.01	<1.05	<1.05	<0.990	<0.982	<4.93	<2.67	<2.60	<1.02	<1.01	<0.987	<1.04	<4.57	<0.928	<4.64	<0.974	<3.39
2,4,6-Trichlorophenol	mg/kg	<1.00	<1.63	<0.868	<0.897	<0.979	<1.84	<0.996	<1.01	<1.05	<1.05	<0.990	<0.982	<4.93	<2.67	<2.60	<1.02	<1.01	<0.987	<1.04	<4.57	<0.928	<4.64	<0.974	<3.39
2,4-Dichlorophenol	mg/kg	<1.00	<1.63	<0.868	<0.897	<0.979	<1.84	<0.996	<1.01	<1.05	<1.05	<0.990	<0.982	<4.93	<2.67	<2.60	<1.02	<1.01	<0.987	<1.04	<4.57	<0.928	<4.64	<0.974	<3.39
2,4-Dimethylphenol	mg/kg	<1.00	<1.63	<0.868	<0.897	<0.979	<1.84	<0.996	<1.01	<1.05	<1.05	<0.990	<0.982	<4.93	<2.67	<2.60	<1.02	<1.01	<0.987	<1.04	<4.57	<0.928	<4.64	<0.974	<3.39
2,4-Dinitrophenol	mg/kg	<5.02	<8.19	<4.35	<4.50	<4.91	<9.24	<5.00	<5.05	<5.28	<5.24	<4.96	<4.93	<24.7	<13.4	<13.1	<5.09	<5.09	<4.95	<5.20	<22.9	<4.65	<23.3	<4.89	<17.0
2,4-Dinitrotoluene	mg/kg	<1.00	<1.63	<0.868	<0.897	<0.979	<1.84	<0.996	<1.01	<1.05	<1.05	<0.990	<0.982	<1.28	<0.692	<0.677	<1.02	<1.01	<0.987	<1.04	<1.15	<0.928	<1.16	<0.974	<1.70
2,6-Dinitrotoluene	mg/kg	<1.00	<1.63	<0.868	<0.897	<0.979	<1.84	<0.996	<1.01	<1.05	<1.05	<0.990	<0.982	<4.93	<2.67	<2.60	<1.02	<1.01	<0.987	<1.04	<4.57	<0.928	<4.64	<0.974	<3.39
2-Chloronaphthalene	mg/kg	<1.00	<1.63	<0.868	<0.897	<0.979	<1.84	<0.996	<1.01	<1.05	<1.05	<0.990	<0.982	<4.93	<2.67	<2.60	<1.02	<1.01	<0.987	<1.04	<4.57	<0.928	<4.64	<0.974	<3.39
2-Chlorophenol	mg/kg	<1.00	<1.63	<0.868	<0.897	<0.979	<1.84	<0.996	<1.01	<1.05	<1.05	<0.990	<0.982	<4.93	<2.67	<2.60	<1.02	<1.01	<0.987	<1.04	<4.57	<0.928	<4.64	<0.974	<3.39
2-Methylnaphthalene	mg/kg	<1.00	<1.63	<0.868	<0.897	<0.979	<1.84	<0.996	<1.01	<1.05	<1.05	<0.990	<0.982	<4.93	<2.67	<2.60	<1.02	<1.01	<0.987	<1.04	<4.57	<0.928	<4.64	<0.974	<3.39
2-Methylphenol	mg/kg	<1.00	<1.63	<0.868	<0.897	<0.979	<1.84	<0.996	<1.01	<1.05	<1.05	<0.990	<0.982	<4.93	<2.67	<2.60	<1.02	<1.01	<0.987	<1.04	<4.57	<0.928	<4.64	<0.974	<3.39
2-Nitrophenol	mg/kg	<1.00	<1.63	<0.868	<0.897	<0.979	<1.84	<0.996	<1.01	<1.05	<1.05	<0.990	<0.982	<4.93	<2.67	<2.60	<1.02	<1.01	<0.987	<1.04	<4.57	<0.928	<4.64	<0.974	<3.39
3,3´-Dichlorobenzidine	mg/kg	<2.01	<3.27	<1.74	<1.80	<1.96	<3.69	<2.00	<2.02	<2.11	<2.09	<1.98	<1.97	<9.87	<5.34	<5.22	<2.03	<2.03	<1.98	<2.08	<9.16	<1.86	<9.30	<1.95	<6.78
3+4-Methylphenol	mg/kg	<2.01	<3.27	<1.74	<1.80	<1.96	<3.69	<2.00	<2.02	<2.11	<2.09	<1.98	<1.97	<9.87	<5.34	<5.22	<2.03	<2.03	<1.98	<2.08	<9.16	<1.86	<9.30	<1.95	<6.78
4-Bromophenyl-phenylether	mg/kg	<1.00	<1.63	<0.868	<0.897	<0.979	<1.84	<0.996	<1.01	<1.05	<1.05	<0.990	<0.982	<4.93	<2.67	<2.60	<1.02	<1.01	<0.987	<1.04	<4.57	<0.928	<4.64	<0.974	<3.39
4-Chloroaniline	mg/kg	<2.01	<3.27	<1.74	<1.80	<1.96	<3.69	<2.00	<2.02	<2.11	<2.09	<1.98	<1.97	<2.47	<1.34	<1.31	<2.03	<2.03	<1.98	<2.08	<2.29	<1.86	<2.33	<1.95	<1.70
4-Nitrophenol	mg/kg	<5.02	<8.19	<4.35	<4.50	<4.91	<9.24	<5.00	<5.05	<5.28	<5.24	<4.96	<4.93	<24.7	<13.4	<13.1	<5.09	<5.09	<4.95	<5.20	<22.9	<4.65	<23.3	<4.89	<17.0
Acenaphthene	mg/kg	<1.00	<1.63	<0.868	<0.897	<0.979	<1.84	<0.996	<1.01	<1.05	<1.05	<0.990	<0.982	<4.93	<2.67	<2.60	<1.02	<1.01	<0.987	<1.04	<4.57	<0.928	<4.64	<0.974	<3.39
Acenaphthylene	mg/kg	<1.00	<1.63	<0.868	<0.897	<0.979	<1.84	<0.996	<1.01	<1.05	<1.05	<0.990	<0.982	<4.93	<2.67	<2.60	<1.02	<1.01	<0.987	<1.04	<4.57	<0.928	<4.64	<0.974	<3.39
Acetophenone	mg/kg	<2.01	<3.27	<1.74	<1.80	<1.96	<3.69	<2.00	<2.02	<2.11	<2.09	<1.98	<1.97	<9.87	<5.34	<5.22	<2.03	<2.03	<1.98	<2.08	<9.16	<1.86	<9.30	<1.95	<6.78
Aniline	mg/kg	<5.02	<8.19	<4.35	<4.50	<4.91	<9.24	<5.00	<5.05	<5.28	<5.24	<4.96	<4.93	<24.7	<13.4	<13.1	<5.09	<5.09	<4.95	<5.20	<22.9	<4.65	<23.3	<4.89	<17.0
Anthracene	mg/kg	<1.00	<1.63	<0.868	<0.897	<0.979	<1.84	<0.996	<1.01	<1.05	<1.05	<0.990	<0.982	<4.93	<2.67	<2.60	<1.02	<1.01	<0.987	<1.04	<4.57	<0.928	<4.64	<0.974	<3.39
Azobenzene	mg/kg	<1.00	<1.63	<0.868	<0.897	<0.979	<1.84	<0.996	<1.01	<1.05	<1.05	<0.990	<0.982	<4.93	<2.67	<2.60	<1.02	<1.01	<0.987	<1.04	<4.57	<0.928	<4.64	<0.974	<3.39
Benzo(a)anthracene	mg/kg	<1.00	<1.63	<0.868	<0.897	<0.979	<1.84	<0.996	<1.01	<1.05	<1.05	<0.990	<0.982	<4.93	<2.67	<2.60	<1.02	<1.01	<0.987	<1.04	<4.57	<0.928	<4.64	<0.974	<3.39
Benzo(a)pyrene	mg/kg	<0.502	<0.819	<0.435	<0.450	<0.491	<0.924	<0.500	<0.505	<0.528	<0.524	<0.496	<0.493	<2.47	<1.34	<1.31	<0.509	<0.509	<0.495	<0.520	<2.29	0.775	<2.33	0.711	<1.70
Benzo(b)fluoranthene	mg/kg	<1.00	<1.63	<0.868	<0.897	<0.979	<1.84	<0.996	<1.01	<1.05	<1.05	<0.990	<0.982	<4.93	<2.67	<2.60	<1.02	<1.01	<0.987	<1.04	<4.57	0.958	<4.64	<0.974	<3.39
Benzo(g,h,i)perylene	mg/kg	<1.00	<1.63	<0.868	<0.897	<0.979	<1.84	<0.996	<1.01	<1.05	<1.05	<0.990	<0.982	<4.93	<2.67	<2.60	<1.02	<1.01	<0.987	<1.04	<4.57	<0.928	<4.64	<0.974	<3.39
Benzo(k)fluoranthene	mg/kg	<1.00	<1.63	<0.868	<0.897	<0.979	<1.84	<0.996	<1.01	<1.05	<1.05	<0.990	<0.982	<4.93	<2.67	<2.60	<1.02	<1.01	<0.987	<1.04	<4.57	<0.928	<4.64	<0.974	<3.39
bis(2-Chloroethoxy)methane	mg/kg	<1.00	<1.63	<0.868	<0.897	<0.979	<1.84	<0.996	<1.01	<1.05	<1.05	<0.990	<0.982	<4.93	<2.67	<2.60	<1.02	<1.01	<0.987	<1.04	<4.57	<0.928	<4.64	<0.974	<3.39
bis(2-Chloroethyl)ether	mg/kg	<0.502	<0.162	<0.435	<0.450	<0.491	<0.183	<0.500	<0.505	<0.528	<0.524	<0.496	<0.493	<0.488	<0.264	<0.258	<0.509	<0.509	<0.495	<0.520	<0.453	<0.465	<0.460	<0.489	<0.336
bis(2-chloroisopropyl)Ether	mg/kg	<0.502	<0.162	<0.435	<0.450	<0.491	<0.183	<0.500	<0.505	<0.528	<0.524	<0.496	<0.493	<0.488	<0.264	<0.258	<0.509	<0.509	<0.495	<0.520	<0.453	<0.465	<0.460	<0.489	<0.336
bis(2-Ethylhexyl)phthalate	mg/kg	<1.00	<1.63	<0.868	<0.897	<0.979	<1.84	<0.996	<1.01	<1.05	<1.05	<0.990	<0.982	<4.93	<2.67	<2.60	<1.02	<1.01	<0.987	<1.04	<4.57	<0.928	<4.64	<0.974	<3.39
Butylbenzylphthalate	mg/kg	<1.00	<1.63	<0.868	<0.897	<0.979	<1.84	<0.996	<1.01	<1.05	<1.05	<0.990	<0.982	<4.93	<2.67	<2.60	<1.02	<1.01	<0.987	<1.04	<4.57	<0.928	<4.64	<0.974	<3.39
Chrysene	mg/kg	<0.502	<0.819	<0.435	<0.450	<0.491	<0.924	<0.500	<0.505	<0.528	<0.524	<0.496	<0.493	<2.47	<1.34	<1.31	<0.509	<0.509	<0.495	<0.520	<2.29	0.854	<2.33	0.849	<1.70
Dibenzo(a,h)Anthracene	mg/kg	<0.502	<0.819	<0.435	<0.450	<0.491	<0.924	<0.500	<0.505	<0.528	<0.524	<0.496	<0.493	<2.47	<1.34	<1.31	<0.509	<0.509	<0.495	<0.520	<2.29	<0.465	<2.33	<0.489	<1.70
Dibenzofuran	mg/kg	<1.00	<1.63	<0.868	<0.897	<0.979	<1.84	<0.996	<1.01	<1.05	<1.05	<0.990	<0.982	<4.93	<2.67	<2.60	<1.02	<1.01	<0.987	<1.04	<4.57	<0.928	<4.64	<0.974	<3.39
Diethylphthalate	mg/kg	<1.00	<1.63	<0.868	<0.897	<0.979	<1.84	<0.996	<1.01	<1.05	<1.05	<0.990	<0.982	<4.93	<2.67	<2.60	<1.02	<1.01	<0.987	<1.04	<4.57	<0.928	<4.64	<0.974	<3.39
Dimethylphthalate	mg/kg	<1.00	<1.63	<0.868	<0.897	<0.979	<1.84	<0.996	<1.01	<1.05	<1.05	<0.990	<0.982	<4.93	<2.67	<2.60	<1.02	<1.01	<0.987	<1.04	<4.57	<0.928	<4.64	<0.974	<3.39
Di-n-butylphthalate	mg/kg	<1.00	<1.63	<0.868	<0.897	<0.979	<1.84	<0.996	<1.01	<1.05	<1.05	<0.990	<0.982	<4.93	<2.67	<2.60	<1.02	<1.01	<0.987	<1.04	<4.57	<0.928	<4.64	<0.974	<3.39
Di-n-octylphthalate	mg/kg	<1.00	<1.63	<0.868	<0.897	<0.979	<1.84	<0.996	<1.01	<1.05	<1.05	<0.990	<0.982	<4.93	<2.67	<2.60	<1.02	<1.01	<0.987	<1.04	<4.57	<0.928	<4.64	<0.974	<3.39
Fluoranthene	mg/kg	<1.00	<1.63	<0.868	<0.897	<0.979	<1.84	<0.996	<1.01	<1.05	<1.05	<0.990	<0.982	<4.93	<2.67	<2.60	<1.02	<1.01	<0.987	<1.04	<4.57	1.1	<4.64	2.77	<3.39
Fluorene	mg/kg	<1.00	<1.63	<0.868	<0.897	<0.979	<1.84	<0.996	<1.01	<1.05	<1.05	<0.990	<0.982	<4.93	<2.67	<2.60	<1.02	<1.01	<0.987	<1.04	<4.57	<0.928	<4.64	<0.974	<3.39
Hexachlorobenzene	mg/kg	<0.502	<0.819	<0.435	<0.450	<0.491	<0.924	<0.500	<0.505	<0.528	<0.524	<0.496	<0.493	<2.47	<1.34	<1.31	<0.509	<0.509	<0.495	<0.520	<1.15	<0.465	<1.16	<0.489	<1.70
Hexachlorobutadiene	mg/kg	<1.00	<1.63	<0.868	<0.897	<0.979	<1.84	<0.996	<1.01	<1.05	<1.05	<0.990	<0.982	<4.93	<2.67	<2.60	<1.02	<1.01	<0.987	<1.04	<4.57	<0.928	<4.64	<0.974	<3.39
Hexachloroethane	mg/kg	<1.00	<1.63	<0.868	<0.897	<0.979	<1.84	<0.996	<1.01	<1.05	<1.05	<0.990	<0.982	<2.47	<2.67	<2.60	<1.02	<1.01	<0.987	<1.04	<2.29	<0.928	<2.33	<0.974	<3.39
Indeno(1,2,3-cd)Pyrene	mg/kg	<1.00	<1.63	<0.868	<0.897	<0.979	<1.84	<0.996	<1.01	<1.05	<1.05	<0.990	<0.982	<4.93	<2.67	<2.60	<1.02	<1.01	<0.987	<1.04	<4.57	<0.928	<4.64	<0.974	<3.39
Isophorone	mg/kg	<1.00	<1.63	<0.868	<0.897	<0.979	<1.84	<0.996	<1.01	<1.05	<1.05	<0.990	<0.982	<4.93	<2.67	<2.60	<1.02	<1.01	<0.987	<1.04	<4.57	<0.928	<4.64	<0.974	<3.39
Naphthalene	mg/kg	<1.00	<1.63	<0.868	<0.897	<0.979	<1.84	<0.996	<1.01	<1.05	<1.05	<0.990	<0.982	<4.93	<2.67	<2.60	<1.02	<1.01	<0.987	<1.04	<4.57	<0.928	<4.64	<0.974	<3.39
Nitrobenzene	mg/kg	<1.00	<1.63	<0.868	<0.897	<0.979	<1.84	<0.996	<1.01	<1.05	<1.05	<0.990	<0.982	<4.93	<2.67	<2.60	<1.02	<1.01	<0.987	<1.04	<4.57	<0.928	<4.64	<0.974	<3.39
N-Nitrosodimethylamine	mg/kg	<1.00	<1.63	<0.868	<0.897	<0.979	<1.84	<0.996	<1.01	<1.05	<1.05	<0.990	<0.982	<4.93	<2.67	<2.60	<1.02	<1.01	<0.987	<1.04	<4.57	<0.928	<4.64	<0.974	<3.39
Pentachlorophenol	mg/kg	<5.02	<8.19	<4.35	<4.50	<4.91	<9.24	<5.00	<5.05	<5.28	<5.24	<4.96	<4.93	<4.93	<2.67	<2.60	<5.09	<5.09	<4.95	<5.20	<4.57	<4.65	<4.64	<4.89	<3.39
Phenanthrene	mg/kg	<1.00	<1.63	<0.868	<0.897	<0.979	<1.84	<0.996	<1.01	<1.05	<1.05	<0.990	<0.982	<4.93	<2.67	<2.60	<1.02	<1.01	<0.987	<1.04	<4.57	<0.928	<4.64	1.57	<3.39
Phenol	mg/kg	<1.00	<1.63	<0.868	<0.897	<0.979	<1.84	<0.996	<1.01	<1.05	<1.05	<0.990	<0.982	<4.93	<2.67	8.84	<1.02	<1.01	<0.987	<1.04	<4.57	<0.928	<4.64	<0.974	<3.39
Pyrene	mg/kg	<1.00	<1.63	<0.868	<0.897	<0.979	<1.84	<0.996	<1.01	<1.05	<1.05	<0.990	<0.982	<4.93	<2.67	<2.60	<1.02	<1.01	<0.987	<1.04	<4.57	<0.928	<4.64	2.16	<3.39
Total SVOCs	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.84	ND	ND	ND	ND	ND	3.687	ND	8.06	ND
Classic Chemistry																									
Corrosivity (pH)	S.U.	6.6	8.61	8.92	8.87	6.6	8.02	7.46	7.03	6.77	7.1	7.15	6.32	6.91	7.9	7.45	7.9	7.22	7.2	7.21	7.54	6.85	6.56	5.64	7.1
Conductivity	umhos/cm	1090	166	179	1280	1300	4340	929	1070	4350	5140	168	48	550	3800	8260	2960	1820	957	1640	211	71	187	1020	7890
Flashpoint	°F	--	>200	>200	>200	--	--	--	--	--	--	>200	>200	>200	--	--	--	--	--	--	>200	>200	>200	--	--
Reactive Cyanide	mg/kg	--	<2.0	<2.0	<2.0	--	--	--	--	--	--	<2.0	<2.0	<2.0	--	--	--	--	--	--	<2.0	<2.0	<2.0	--	--
Reactive Sulfide	mg/kg	--	<2.0	<2.0	<2.0	--	--	--	--	--	--	<2.0	<2.0	<2.0	--	--	--	--	--	--	<2.0	<2.0	<2.0	--	--

Table 1
Soil Precharacterization Data

Wynn Resort Casino
Everett, Massachusetts

Analyte	Precharacterization Cell	K09	K09	K09	K09	K10	K10	K10	K10	K10	K10	K10	K10	K10	K11	K11	K11	K11	K11	K11	K11	K11	K12	K12
	Sample ID	K09S08	K09S09	K09S10	K09S11S12	K10S01S02A	K10S02BS04A	K10S04BS05	K10S06	K10S07	K10S08	K10S09	K10S10	K10S11S12	K11S01S02A	K11S02BS04A	K11S04BS05	K11S06S07A	K11S08S09	K11S10	K11S11	K11S12	K11S13S14	K12S01S02A	K12S02BS04A
	Laboratory Work Order	1502050	1502050	1502050	1502050	1501473	1501473	1501473	1501473	1501473	1501473	1501473	1501473	1501473	1501564	1501564	1501564	1501564	1501564	1501564	1501564	1501564	1501564	1501472	1501472
	Soil Distinction	Natural	Natural	Natural	Natural	Fill	Fill	Fill	Natural	Natural	Natural	Natural	Natural	Natural	Fill	Fill	Fill	Fill	Natural	Natural	Natural	Natural	Natural	Fill	Fill
	Soil Type	Organics	Organics	Clay	Sand/Gravel				Organics	Organics	Clay	Clay	Clay	Clay					Organics	Organics	Clay	Clay	Clay		
	Depth Interval (ft.)	19 - 21	24 - 26	29 - 31	34 - 38	0 - 3.33	3.33 - 6.66	6.66 - 10	10 - 12	14 - 16	19 - 21	24 - 26	29 - 31	34 - 38	0 - 3.3	3.3 - 6.6	6.6 - 10	10 - 13.3	14 - 18	19 - 21	24 - 26	29 - 31	34 - 38	0 - 3.3	3.3 - 6.6
	Sampling Date	2/4/2015	2/4/2015	2/4/2015	2/4/2015	1/22/2015	1/22/2015	1/22/2015	1/22/2015	1/22/2015	1/22/2015	1/22/2015	1/22/2015	1/22/2015	1/30/2015	1/30/2015	1/30/2015	1/30/2015	1/30/2015	1/30/2015	1/30/2015	1/30/2015	1/30/2015	1/30/2015	1/22/2015	1/22/2015
Preliminary Disposal Facility Category		MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type A	MCP Restricted	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A
RCRA 8 Metals	**Units**																								
Arsenic	mg/kg	9.78	<7.51	<7.30	<7.15	<6.38	50.4	14.3	19.4	<24.6	10.2	<7.18	7.77	<6.86	9.11	12.9	12.4	23.8	<19.1	9.24	13.7	8.41	<6.85	8.49	40
Barium	mg/kg	70.4	37.9	80.8	19	26.8	102	41.8	56.4	<24.6	52.8	45.8	61	53.2	31.3	50.3	30.1	46.3	<19.1	26.3	98.5	87.4	39	32.5	112
Cadmium	mg/kg	<1.54	<1.50	<1.46	<1.43	<1.28	<1.47	<1.46	<2.31	<4.92	<1.19	<1.44	<1.49	<1.37	<1.36	<1.42	<1.41	<1.54	<3.82	<1.73	<1.65	<1.61	<1.37	<1.24	<1.43
Chromium	mg/kg	50.7	26	37.8	14	18.4	10	12.5	46.9	19.5	38.5	38.9	41.6	22.6	21.6	16.3	16.9	9.74	19.3	21.6	53.6	63.2	26.7	27.9	101
Lead	mg/kg	<15.4	<15.0	<14.6	<14.3	30.4	402	124	122	<49.2	<11.9	<14.4	<14.9	<13.7	51.4	154	35.4	860	88.6	<17.3	<16.5	<16.1	<13.7	78.8	1170
Selenium	mg/kg	<7.70	<7.51	<7.30	<7.15	<6.38	<7.36	<14.6	<11.6	<12.3	<5.96	<7.18	<7.47	<6.86	<6.79	<7.11	<7.06	<15.4	<19.1	<8.66	<8.23	<8.07	<6.85	<6.19	<7.17
Silver	mg/kg	<1.54	<1.50	<1.46	<1.43	<1.28	<1.47	<1.46	<2.31	<4.92	<1.19	<1.44	<1.49	<1.37	<1.36	<1.42	<1.41	<1.54	<3.82	<1.73	<1.65	<1.61	<1.37	<1.24	1.74
Mercury	mg/kg	<0.037	<0.042	<0.043	<0.030	<0.037	0.268	0.137	0.333	<0.143	<0.033	<0.039	<0.031	<0.039	0.205	0.188	0.036	0.16	0.144	<0.040	<0.039	<0.039	<0.034	0.064	0.649
Metals by Toxicity Characteristic Leaching Procedure (TCLP)																									
Arsenic	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.020
Lead	mg/L	--	--	--	--	--	0.298	0.532	0.069	--	--	--	--	--	--	0.308	--	1.77	--	--	--	--	--	--	<0.050
Selenium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Herbicides																									
2,4,5-T	mg/kg	--	--	--	--	<0.053	<0.058	<0.26	--	--	--	--	--	--	<0.057	<0.55	<0.056	<0.068	--	--	--	--	--	<0.053	<0.060
2,4-D	mg/kg	--	--	--	--	<0.053	<0.058	<0.26	--	--	--	--	--	--	<0.057	<0.55	<0.056	<0.068	--	--	--	--	--	<0.053	<0.060
2,4-DB	mg/kg	--	--	--	--	<0.053	<0.058	<0.26	--	--	--	--	--	--	<0.057	<0.55	<0.056	<0.068	--	--	--	--	--	<0.053	<0.060
Dalapon	mg/kg	--	--	--	--	<0.64	<0.70	<3.1	--	--	--	--	--	--	<0.69	<6.6	<0.68	<0.82	--	--	--	--	--	<0.64	<0.72
Dicamba	mg/kg	--	--	--	--	<0.053	<0.058	<0.26	--	--	--	--	--	--	<0.057	<0.55	<0.056	<0.068	--	--	--	--	--	<0.053	<0.060
Dichlorprop	mg/kg	--	--	--	--	<0.053	<0.058	<0.26	--	--	--	--	--	--	<0.057	<0.55	<0.056	<0.068	--	--	--	--	--	<0.053	<0.060
Dinoseb	mg/kg	--	--	--	--	<0.32	<0.35	<1.6	--	--	--	--	--	--	<0.35	<3.3	<0.34	<0.41	--	--	--	--	--	<0.32	<0.36
MCPA	mg/kg	--	--	--	--	<13	<14	<63	--	--	--	--	--	--	<14	<130	<14	<16	--	--	--	--	--	<13	<14
MCPP	mg/kg	--	--	--	--	<13	<14	<63	--	--	--	--	--	--	<14	<130	<14	<16	--	--	--	--	--	<13	<14
Silvex (2,4,5-TP)	mg/kg	--	--	--	--	<0.053	<0.058	<0.26	--	--	--	--	--	--	<0.057	<0.55	<0.056	<0.068	--	--	--	--	--	<0.053	<0.060
Pesticides																									
4,4'-DDD	mg/kg	--	--	--	--	<0.017	<0.017	<0.017	--	--	--	--	--	--	<0.0019	<0.0097	<0.0019	<0.0023	--	--	--	--	--	<0.034	<0.017
4,4'-DDE	mg/kg	--	--	--	--	<0.017	<0.017	<0.017	--	--	--	--	--	--	<0.0019	<0.0097	<0.0019	<0.0023	--	--	--	--	--	<0.034	<0.017
4,4'-DDT	mg/kg	--	--	--	--	<0.017	<0.017	<0.017	--	--	--	--	--	--	<0.0019	<0.0097	<0.0019	<0.0023	--	--	--	--	--	<0.034	<0.017
Aldrin	mg/kg	--	--	--	--	<0.017	<0.017	<0.017	--	--	--	--	--	--	<0.0019	<0.0097	<0.0019	<0.0023	--	--	--	--	--	<0.034	<0.017
alpha-BHC	mg/kg	--	--	--	--	<0.017	<0.017	<0.017	--	--	--	--	--	--	<0.0019	<0.0097	<0.0019	<0.0023	--	--	--	--	--	<0.034	<0.017
beta-BHC	mg/kg	--	--	--	--	<0.017	<0.017	<0.017	--	--	--	--	--	--	<0.0019	<0.0097	<0.0019	<0.0023	--	--	--	--	--	<0.034	<0.017
Chlordane (technical)	mg/kg	--	--	--	--	<0.49	<0.50	<0.50	--	--	--	--	--	--	<0.019	<0.097	<0.019	<0.023	--	--	--	--	--	<0.99	<0.50
delta-BHC	mg/kg	--	--	--	--	<0.017	<0.017	<0.017	--	--	--	--	--	--	<0.0019	<0.0097	<0.0019	<0.0023	--	--	--	--	--	<0.034	<0.017
Dieldrin	mg/kg	--	--	--	--	<0.017	<0.017	<0.017	--	--	--	--	--	--	<0.0019	<0.0097	<0.0019	<0.0023	--	--	--	--	--	<0.034	<0.017
Endosulfan I	mg/kg	--	--	--	--	<0.017	<0.017	<0.017	--	--	--	--	--	--	<0.0019	<0.0097	<0.0019	<0.0023	--	--	--	--	--	<0.034	<0.017
Endosulfan II	mg/kg	--	--	--	--	<0.017	<0.017	<0.017	--	--	--	--	--	--	<0.0019	<0.0097	<0.0019	<0.0023	--	--	--	--	--	<0.034	<0.017
Endosulfan sulfate	mg/kg	--	--	--	--	<0.017	<0.017	<0.017	--	--	--	--	--	--	<0.0019	<0.0097	<0.0019	<0.0023	--	--	--	--	--	<0.034	<0.017
Endrin	mg/kg	--	--	--	--	<0.017	<0.017	<0.017	--	--	--	--	--	--	<0.0019	<0.0097	<0.0019	<0.0023	--	--	--	--	--	<0.034	<0.017
Endrin ketone	mg/kg	--	--	--	--	<0.017	<0.017	<0.017	--	--	--	--	--	--	<0.0019	<0.0097	<0.0019	<0.0023	--	--	--	--	--	<0.034	<0.017
gamma-BHC (Lindane)	mg/kg	--	--	--	--	<0.017	<0.017	<0.017	--	--	--	--	--	--	<0.0019	<0.0097	<0.0019	<0.0023	--	--	--	--	--	<0.034	<0.017
Heptachlor	mg/kg	--	--	--	--	<0.017	<0.017	<0.017	--	--	--	--	--	--	<0.0019	<0.0097	<0.0019	<0.0023	--	--	--	--	--	<0.034	<0.017
Heptachlor epoxide	mg/kg	--	--	--	--	<0.017	<0.017	<0.017	--	--	--	--	--	--	<0.0019	<0.0097	<0.0019	<0.0023	--	--	--	--	--	<0.034	<0.017
Hexachlorobenzene	mg/kg	--	--	--	--	<0.017	<0.017	<0.017	--	--	--	--	--	--	<0.0019	<0.0097	<0.0019	<0.0023	--	--	--	--	--	<0.034	<0.017
Methoxychlor	mg/kg	--	--	--	--	<0.033	<0.033	<0.033	--	--	--	--	--	--	<0.0019	<0.0097	<0.0019	<0.0023	--	--	--	--	--	<0.065	<0.033
Polychlorinated Biphenyls																									
Aroclor 1016	mg/kg	<0.160	<0.146	<0.172	<0.144	<0.132	<0.155	<0.154	<0.234	<0.533	<0.133	<0.150	<0.149	<0.135	<0.137	<0.138	<0.140	<0.144	<0.358	<0.167	<0.160	<0.160	<0.143	<0.133	<0.161
Aroclor 1221	mg/kg	<0.160	<0.146	<0.172	<0.144	<0.132	<0.155	<0.154	<0.234	<0.533	<0.133	<0.150	<0.149	<0.135	<0.137	<0.138	<0.140	<0.144	<0.358	<0.167	<0.160	<0.160	<0.143	<0.133	<0.161
Aroclor 1232	mg/kg	<0.160	<0.146	<0.172	<0.144	<0.132	<0.155	<0.154	<0.234	<0.533	<0.133	<0.150	<0.149	<0.135	<0.137	<0.138	<0.140	<0.144	<0.358	<0.167	<0.160	<0.160	<0.143	<0.133	<0.161
Aroclor 1242	mg/kg	<0.160	<0.146	<0.172	<0.144	<0.132	<0.155	<0.154	<0.234	<0.533	<0.133	<0.150	<0.149	<0.135	<0.137	<0.138	<0.140	<0.144	<0.358	<0.167	<0.160	<0.160	<0.143	<0.133	<0.161
Aroclor 1248	mg/kg	<0.160	<0.146	<0.172	<0.144	<0.132	<0.155	<0.154	<0.234	<0.533	<0.133	<0.150	<0.149	<0.135	<0.137	<0.138	<0.140	<0.144	<0.358	<0.167	<0.160	<0.160	<0.143	1.19	<0.161
Aroclor 1254	mg/kg	<0.160	<0.146	<0.172	<0.144	<0.132	<0.155	<0.154	<0.234	<0.533	<0.133	<0.150	<0.149	<0.135	0.146	<0.138	<0.140	<0.144	<0.358	<0.167	<0.160	<0.160	<0.143	<0.133	<0.161
Aroclor 1260	mg/kg	<0.160	<0.146	<0.172	<0.144	<0.132	<0.155	<0.154	<0.234	<0.533	<0.133	<0.150	<0.149	<0.135	<0.137	0.491	<0.140	<0.144	<0.358	<0.167	<0.160	<0.160	<0.143	0.145	<0.161
Aroclor 1262	mg/kg	<0.160	<0.146	<0.172	<0.144	<0.132	<0.155	<0.154	<0.234	<0.533	<0.133	<0.150	<0.149	<0.135	<0.137	<0.138	<0.140	<0.144	<0.358	<0.167	<0.160	<0.160	<0.143	<0.133	<0.161
Aroclor 1268	mg/kg	<0.160	<0.146	<0.172	<0.144	<0.132	0.382	<0.154	<0.234	<0.533	<0.133	<0.150	<0.149	<0.135	<0.137	<0.138	<0.140	<0.144	<0.358	<0.167	<0.160	<0.160	<0.143	<0.133	<0.161
Total PCBs	mg/kg	ND	ND	ND	ND	ND	0.382	ND	ND	ND	ND	ND	ND	ND	0.146	0.491	ND	ND	ND	ND	ND	ND	ND	1.335	ND
Total Petroleum Hydrocarbons	mg/kg	<51.2	<49.4	<54.3	<45.0	163	288	152	<75.3	2060	44.6	<42.0	<49.1	<41.4	219	820	102	<44.8	1280	<53.6	<51.6	<50.0	<44.0	331	166
Volatile Organic Compounds (VOCs)																									
1,1,1,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.508	--	--	--	--	--	--
1,1,1-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.254	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.254	--	--	--	--	--	--
1,1,2-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.254	--	--	--	--	--	--
1,1-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.254	--	--	--	--	--	--
1,1-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.254	--	--	--	--	--	--
1,1-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.254	--	--	--	--	--	--
1,2,3-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.254	--	--	--	--	--	--
1,2,3-Trichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.254	--	--	--	--	--	--
1,2,4-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.254	--	--	--	--	--	--
1,2,4-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.254	--	--	--	--	--	--
1,2-Dibromo-3-Chloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<1.02	--	--	--	--	--	--
1,2-Dibromoethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.254	--	--	--	--	--	--
1,2-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.254	--	--	--	--	--	--
1,2-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.254	--	--	--	--	--	--
1,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.254	--	--	--	--	--	--
1,3,5-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.254	--	--	--	--	--	--
1,3-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.254	--	--	--	--	--	--
1,3-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.254	--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.254	--	--	--	--	--	--
1,4-Dioxane - Screen	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<25.4	--	--	--	--	--	--
2,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.508	--	--	--	--	--	--
2-Butanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.91	--	--	--	--	--	--
2-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.254	--	--	--	--	--	--
2-Hexanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<1.02	--	--	--	--	--	--
4-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.254	--	--	--	--	--	--
4-Isopropyltoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.254	--	--	--	--	--	--
4-Methyl-2-Pentanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<1.02	--	--	--	--	--	--
Acetone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5.12	--	--	--	--	--	--
Benzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.254	--	--	--	--	--	--
Bromobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.254	--	--	--	--	--	--
Bromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.254	--	--	--	--	--	--
Bromodichloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.254	--	--	--	--	--	--
Bromoform	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.254	--	--	--	--	--	--
Bromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.508	--	--	--	--	--	--
Carbon Disulfide	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.254	--	--	--	--	--	--
Carbon Tetrachloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.254	--	--	--	--	--	--

Analyte	Precharacterization Cell	K09	K09	K09	K09	K10	K10	K10	K10	K10	K10	K10	K10	K10	K11	K11	K11	K11	K11	K11	K11	K11	K12	K12
	Sample ID	K09S08	K09S09	K09S10	K09S11S12	K10S01S02A	K10S02BS04A	K10S04BS05	K10S06	K10S07	K10S08	K10S09	K10S10	K10S11S12	K11S01S02A	K11S02BS04A	K11S04BS05	K11S06S07A	K11S08S09	K11S10	K11S11	K11S12	K11S13S14	K12S01S02A	K12S02BS04A
	Laboratory Work Order	1502050	1502050	1502050	1502050	1501473	1501473	1501473	1501473	1501473	1501473	1501473	1501473	1501473	1501564	1501564	1501564	1501564	1501564	1501564	1501564	1501564	1501564	1501472
	Soil Distinction	Natural	Natural	Natural	Natural	Fill	Fill	Fill	Natural	Natural	Natural	Natural	Natural	Natural	Fill	Fill	Fill	Fill	Natural	Natural	Natural	Natural	Clay	Fill
	Soil Type	Organics	Organics	Clay	Sand/Gravel				Organics	Organics	Clay	Clay	Clay	Clay					Organics	Organics	Clay	Clay		
	Depth Interval (ft.)	19 - 21	24 - 26	29 - 31	34 - 38	0 - 3.33	3.33 - 6.66	6.66 - 10	10 - 12	14 - 16	19 - 21	24 - 26	29 - 31	34 - 38	0 - 3.3	3.3 - 6.6	6.6 - 10	10 - 13.3	14 - 18	19 - 21	24 - 26	29 - 31	34 - 38	0 - 3.3	3.3 - 6.6
	Sampling Date	2/4/2015	2/4/2015	2/4/2015	2/4/2015	1/22/2015	1/22/2015	1/22/2015	1/22/2015	1/22/2015	1/22/2015	1/22/2015	1/22/2015	1/22/2015	1/30/2015	1/30/2015	1/30/2015	1/30/2015	1/30/2015	1/30/2015	1/30/2015	1/30/2015	1/30/2015	1/22/2015	1/22/2015
Preliminary Disposal Facility Category		MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type A	MCP Restricted	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A
Chlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.254	--	--	--	--	--	--
Chloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.508	--	--	--	--	--	--
Chloroform	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.254	--	--	--	--	--	--
Chloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.508	--	--	--	--	--	--
cis-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.254	--	--	--	--	--	--
cis-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.254	--	--	--	--	--	--
Dibromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.254	--	--	--	--	--	--
Dibromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.254	--	--	--	--	--	--
Dichlorodifluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.254	--	--	--	--	--	--
Diethyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.254	--	--	--	--	--	--
Di-isopropyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.254	--	--	--	--	--	--
Ethyl tertiary-butyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.254	--	--	--	--	--	--
Ethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.254	--	--	--	--	--	--
Hexachlorobutadiene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.254	--	--	--	--	--	--
Isopropylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.254	--	--	--	--	--	--
Methyl tert-Butyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.254	--	--	--	--	--	--
Methylene Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<1.02	--	--	--	--	--	--
Naphthalene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.254	--	--	--	--	--	--
n-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.254	--	--	--	--	--	--
n-Propylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.254	--	--	--	--	--	--
sec-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.254	--	--	--	--	--	--
Styrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.254	--	--	--	--	--	--
tert-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.254	--	--	--	--	--	--
Tertiary-amyl methyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.254	--	--	--	--	--	--
Tetrachloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.254	--	--	--	--	--	--
Tetrahydrofuran	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<1.02	--	--	--	--	--	--
Toluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.254	--	--	--	--	--	--
trans-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.254	--	--	--	--	--	--
trans-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.254	--	--	--	--	--	--
Trichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.254	--	--	--	--	--	--
Trichlorofluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.254	--	--	--	--	--	--
Vinyl Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.254	--	--	--	--	--	--
Xylene O	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.254	--	--	--	--	--	--
Xylene P,M	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.508	--	--	--	--	--	--
Xylenes (Total)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.508	--	--	--	--	--	--
Total VOCs	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	7.03	--	--	--	--	--	--
Volatile Organic Compounds - Low Level Analysis																									
1,1,1,2-Tetrachloroethane	mg/kg	<0.0058	<0.0053	<0.0047	<0.0040	<0.0037	<0.0065	<0.0049	<0.0088	<0.0206	<0.0042	<0.0053	<0.0043	<0.0044	<0.0080	<0.0041	<0.0056	<0.0051	<0.0192	<0.0071	<0.0215	<0.0043	<0.0043	<0.0042	<0.0073
1,1,1-Trichloroethane	mg/kg	<0.0058	<0.0053	<0.0047	<0.0040	<0.0037	<0.0065	<0.0049	<0.0088	<0.0206	<0.0042	<0.0053	<0.0043	<0.0044	<0.0080	<0.0041	<0.0056	<0.0051	<0.0192	<0.0071	<0.0215	<0.0043	<0.0043	<0.0042	<0.0073
1,1,2,2-Tetrachloroethane	mg/kg	<0.0023	<0.0021	<0.0019	<0.0016	<0.0015	<0.0026	<0.0020	<0.0035	<0.0083	<0.0017	<0.0021	<0.0017	<0.0018	<0.0032	<0.0016	<0.0023	<0.0020	<0.0077	<0.0028	<0.0086	<0.0017	<0.0017	<0.0017	<0.0029
1,1,2-Trichloroethane	mg/kg	<0.0058	<0.0053	<0.0047	<0.0040	<0.0037	<0.0065	<0.0049	<0.0088	<0.0206	<0.0042	<0.0053	<0.0043	<0.0044	<0.0080	<0.0041	<0.0056	<0.0051	<0.0192	<0.0071	<0.0215	<0.0043	<0.0043	<0.0042	<0.0073
1,1-Dichloroethane	mg/kg	<0.0058	<0.0053	<0.0047	<0.0040	<0.0037	<0.0065	<0.0049	<0.0088	<0.0206	<0.0042	<0.0053	<0.0043	<0.0044	<0.0080	<0.0041	<0.0056	<0.0051	<0.0192	<0.0071	<0.0215	<0.0043	<0.0043	<0.0042	<0.0073
1,1-Dichloroethene	mg/kg	<0.0058	<0.0053	<0.0047	<0.0040	<0.0037	<0.0065	<0.0049	<0.0088	<0.0206	<0.0042	<0.0053	<0.0043	<0.0044	<0.0080	<0.0041	<0.0056	<0.0051	<0.0192	<0.0071	<0.0215	<0.0043	<0.0043	<0.0042	<0.0073
1,1-Dichloropropene	mg/kg	<0.0058	<0.0053	<0.0047	<0.0040	<0.0037	<0.0065	<0.0049	<0.0088	<0.0206	<0.0042	<0.0053	<0.0043	<0.0044	<0.0080	<0.0041	<0.0056	<0.0051	<0.0192	<0.0071	<0.0215	<0.0043	<0.0043	<0.0042	<0.0073
1,2,3-Trichlorobenzene	mg/kg	<0.0058	<0.0053	<0.0047	<0.0040	<0.0037	<0.0065	<0.0049	<0.0088	<0.0206	<0.0042	<0.0053	<0.0043	<0.0044	<0.0080	<0.0041	<0.0056	<0.0051	<0.0192	<0.0071	<0.0215	<0.0043	<0.0043	<0.0042	<0.0073
1,2,3-Trichloropropane	mg/kg	<0.0058	<0.0053	<0.0047	<0.0040	<0.0037	<0.0065	<0.0049	<0.0088	<0.0206	<0.0042	<0.0053	<0.0043	<0.0044	<0.0080	<0.0041	<0.0056	<0.0051	<0.0192	<0.0071	<0.0215	<0.0043	<0.0043	<0.0042	<0.0073
1,2,4-Trichlorobenzene	mg/kg	<0.0058	<0.0053	<0.0047	<0.0040	<0.0037	<0.0065	<0.0049	<0.0088	<0.0206	<0.0042	<0.0053	<0.0043	<0.0044	<0.0080	<0.0041	<0.0056	<0.0051	<0.0192	<0.0071	<0.0215	<0.0043	<0.0043	<0.0042	<0.0073
1,2,4-Trimethylbenzene	mg/kg	<0.0058	<0.0053	<0.0047	<0.0040	<0.0037	<0.0065	<0.0049	<0.0088	<0.0206	<0.0042	<0.0053	<0.0043	<0.0044	0.018	<0.0041	<0.0056	<0.0051	<0.0192	<0.0071	<0.0215	<0.0043	<0.0043	<0.0042	<0.0073
1,2-Dibromo-3-Chloropropane	mg/kg	<0.0058	<0.0053	<0.0047	<0.0040	<0.0037	<0.0065	<0.0049	<0.0088	<0.0206	<0.0042	<0.0053	<0.0043	<0.0044	<0.0080	<0.0041	<0.0056	<0.0051	<0.0192	<0.0071	<0.0215	<0.0043	<0.0043	<0.0042	<0.0073
1,2-Dibromoethane	mg/kg	<0.0058	<0.0053	<0.0047	<0.0040	<0.0037	<0.0065	<0.0049	<0.0088	<0.0206	<0.0042	<0.0053	<0.0043	<0.0044	<0.0080	<0.0041	<0.0056	<0.0051	<0.0192	<0.0071	<0.0215	<0.0043	<0.0043	<0.0042	<0.0073
1,2-Dichlorobenzene	mg/kg	<0.0058	<0.0053	<0.0047	<0.0040	<0.0037	<0.0065	<0.0049	<0.0088	<0.0206	<0.0042	<0.0053	<0.0043	<0.0044	<0.0080	<0.0041	<0.0056	<0.0051	<0.0192	<0.0071	<0.0215	<0.0043	<0.0043	<0.0042	<0.0073
1,2-Dichloroethane	mg/kg	<0.0058	<0.0053	<0.0047	<0.0040	<0.0037	<0.0065	<0.0049	<0.0088	<0.0206	<0.0042	<0.0053	<0.0043	<0.0044	<0.0080	<0.0041	<0.0056	<0.0051	<0.0192	<0.0071	<0.0215	<0.0043	<0.0043	<0.0042	<0.0073
1,2-Dichloropropane	mg/kg	<0.0058	<0.0053	<0.0047	<0.0040	<0.0037	<0.0065	<0.0049	<0.0088	<0.0206	<0.0042	<0.0053	<0.0043	<0.0044	<0.0080	<0.0041	<0.0056	<0.0051	<0.0192	<0.0071	<0.0215	<0.0043	<0.0043	<0.0042	<0.0073
1,3,5-Trimethylbenzene	mg/kg	<0.0058	<0.0053	<0.0047	<0.0040	<0.0037	<0.0065	<0.0049	<0.0088	<0.0206	<0.0042	<0.0053	<0.0043	<0.0044	<0.0080	<0.0041	<0.0056	<0.0051	<0.0192	<0.0071	<0.0215	<0.0043	<0.0043	<0.0042	<0.0073
1,3-Dichlorobenzene	mg/kg	<0.0058	<0.0053	<0.0047	<0.0040	<0.0037	<0.0065	<0.0049	<0.0088	<0.0206	<0.0042	<0.0053	<0.0043	<0.0044	<0.0080	<0.0041	<0.0056	<0.0051	<0.0192	<0.0071	<0.0215	<0.0043	<0.0043	<0.0042	<0.0073
1,3-Dichloropropane	mg/kg	<0.0058	<0.0053	<0.0047	<0.0040	<0.0037	<0.0065	<0.0049	<0.0088	<0.0206	<0.0042	<0.0053	<0.0043	<0.0044	<0.0080	<0.0041	<0.0056	<0.0051	<0.0192	<0.0071	<0.0215	<0.0043	<0.0043	<0.0042	<0.0073
1,4-Dichlorobenzene	mg/kg	<0.0058	<0.0053	<0.0047	<0.0040	<0.0037	<0.0065	<0.0049	<0.0088	<0.0206	<0.0042	<0.0053	<0.0043	<0.0044	<0.0080	<0.0041	<0.0056	<0.0051	<0.0192	<0.0071	<0.0215	<0.0043	<0.0043	<0.0042	<0.0073
1,4-Dioxane	mg/kg	<0.116	<0.107	<0.0934	<0.0792	<0.0744	<0.130	<0.0980	<0.177	<0.413	<0.0849	<0.106	<0.0867	<0.0885	<0.160	<0.0815	<0.113	<0.102	<0.382	<0.141	<0.431	<0.0860	<0.0859	<0.0846	<0.147
2,2-Dichloropropane	mg/kg	<0.0058	<0.0053	<0.0047	<0.0040	<0.0037	<0.0065	<0.0049	<0.0088	<0.0206	<0.0042	<0.0053	<0.0043	<0.0044	<0.0080	<0.0041	<0.0056	<0.0051	<0.0192	<0.0071	<0.0215	<0.0043	<0.0043	<0.0042	<0.0073
2-Butanone	mg/kg	<0.0116	<0.0107	<0.0093	<0.0079	<0.0074	<0.0130	<0.0098	0.0214	<0.0413	<0.0085	<0.0106	<0.0087	<0.0089	<0.0160	<0.0082	<0.0113	<0.0102	0.349	0.111	<0.0431	<0.0086	<0.0086	<0.0085	<0.0147
2-Chlorotoluene	mg/kg	<0.0058	<0.0053	<0.0047	<0.0040	<0.0037	<0.0065	<0.0049	<0.0088	<0.0206	<0.0042	<0.0053	<0.0043	<0.0044	<0.0080	<0.0041	<0.0056	<0.0051	<0.0192	<0.0071	<0.0215	<0.0043	<0.0043	<0.0042	<0.0073
2-Hexanone	mg/kg	<0.0116	<0.0107	<0.0093	<0.0079	<0.0074	<0.0130	<0.0098	<0.0177	<0.0413	<0.0085	<0.0106	<0.0087	<0.0089	<0.0160	<0.0082	<0.0113	<0.0102	<0.0383	<0.0141	<0.0431	<0.0086	<0.0086	<0.0085	<0.0147
4-Chlorotoluene	mg/kg	<0.0058	<0.0053	<0.0047	<0.0040	<0.0037	<0.0065	<0.0049	<0.0088	<0.0206	<0.0042	<0.0053	<0.0043	<0.0044	<0.0080	<0.0041	<0.0056	<0.0051	<0.0192	<0.0071	<0.0215	<0.0043	<0.0043	<0.0042	<0.0073
4-Isopropyltoluene	mg/kg	<0.0058	<0.0053	<0.0047	<0.0040	<0.0037	<0.0065	<0.0049	<0.0088	<0.0206	<0.0042	<0.0053	<0.0043	<0.0044	<0.0080	<0.0041	<0.0056	<0.0051	<0.0192	<0.0071	<0.0215	<0.0043	<0.0043	<0.0042	<0.0073
4-Methyl-2-Pentanone	mg/kg	<0.0116	<0.0107	<0.0093	<0.0079	<0.0074	<0.0130	<0.0098	<0.0177	<0.0413	<0.0085	<0.0106	<0.0087	<0.0089	<0.0160	<0.0082	<0.0113	<0.0102	<0.0383	<0.0141	<0.0431	<0.0086	<0.0086	<0.0085	<0.0147
Acetone	mg/kg	0.0125	0.115	0.0333	0.0124	0.0138	0.0789	0.0102	0.161	0.319	0.0223	<0.0106	<0.0087	<0.0089	0.0297	0.0451	0.0527	0.0245	4.33	0.753	0.0586	0.0165	0.0124	0.0115	0.0283
Benzene	mg/kg	<0.0058	<0.0053	<0.0047	<0.0040	<0.0037	<0.0065	<0.0049	<0.0088	<0.0206	<0.0042	<0.0053	<0.0043	<0.0044	<0.0080	<0.0041	<0.0056	<0.0051	<0.0192	<0.0071	<0.0215	<0.0043	<0.0043	<0.0042	<0.0073
Bromobenzene	mg/kg	<0.0058	<0.0053	<0.0047	<0.0040	<0.0037	<0.0065	<0.0049	<0.0088	<0.0206	<0.0042	<0.0053	<0.0043	<0.0044	<0.0080	<0.0041	<0.0056	<0.0051	<0.0192	<0.0071	<0.0215	<0.0043	<0.0043	<0.0042	<0.0073
Bromochloromethane	mg/kg	<0.0058	<0.0053	<0.0047	<0.0040	<0.0037	<0.0065	<0.0049	<0.0088	<0.0206	<0.0042	<0.0053	<0.0043	<0.0044	<0.0080	<0.0041	<0.0056	<0.0051	<0.0192	<0.0071	<0.0215	<0.0043	<0.0043	<0.0042	<0.0073
Bromodichloromethane	mg/kg	<0.0058	<0.0053	<0.0047	<0.0040	<0.0037	<0.0065	<0.0049	<0.0088	<0.0206	<0.0042	<0.0053	<0.0043	<0.0044	<0.0080	<0.0041	<0.0056	<0.0051	<0.0192	<0.0071	<0.0215	<0.0043	<0.0043	<0.0042	<0.0073
Bromoform	mg/kg	<0.0058	<0.0053	<0.0047	<0.0040	<0.0037	<0.0065	<0.0049	<0.0088	<0.0206	<0.0042	<0.0053	<0.0043	<0.0044	<0.0080	<0.0041	<0.0056	<0.0051	<0.0192	<0.0071	<0.0215	<0.0043	<0.0043	<0.0042	<0.0073
Bromomethane	mg/kg	<0.0116	<0.0107	<0.0093	<0.0079	<0.0074	<0.0130	<0.0098	<0.0177	<0.0413	<0.0085	<0.0106	<0.0087	<0.0089	<0.0160	<0.0082	<0.0113	<0.0102	<0.0383	<0.0141	<0.0431	<0.0086	<0.0086	<0.0085	<0.0147
Carbon Disulfide	mg/kg	0.0097	<0.0053	<0.0047	<0.0040	<0.0037	<0.0065	<0.0049	0.0094	0.0425	0.016	<0.0053	<0.0043	<0.0044	<0.0080	<0.0041	<0.0056	0.0099	0.0915	0.0245	<0.0215	<0.0043	<0.0043	<0.0042	<0.0073
Carbon Tetrachloride	mg/kg	<0.0058	<0.0053	<0.0047	<0.0040	<0.0037	<0.0065	<0.0049	<0.0088	<0.0206	<0.0042	<0.0053	<0.0043	<0.0044	<0.0080	<0.0041	<0.0056	<0.0051	<0.0192	<0.0071	<0.0215	<0.0043	<0.0043	<0.0042	<0.0073
Chlorobenzene	mg/kg	<0.0058	<0.0053	<0.0047	<0.0040	<0.0037	<0.0065	<0.0049	<0.0088	<0.0206	<0.0042	<0.0053	<0.0043	<0.0044	<0.0080	<0.0041	<0.0056	<0.0051	<0.0192	<0.0071	<0.0215	<0.0043	<0.0043	<0.0042	<0.0073
Chloroethane	mg/kg	<0.0116	<0.0107	<0.0093	<0.0079	<0.0074	<0.0130	<0.0098	<0.0177	<0.0413	<0.0085	<0.0106	<0.0087	<0.0089	<0.0160	<0.0082	<0.0113	<0.0102	<0.0383	<0.0141	<0.0431	<0.0086	<0.0086	<0.0085	<0.0147
Chloroform	mg/kg	<0.0058	<0.0053	<0.0047	<0.0040	<0.0037	<0.0065	<0.0049	<0.0088	<0.0206	<0.0042	<0.0053	<0.0043	<0.0044	<0.0080	<0.0041	<0.0056	<0.0051	<0.0192	<0.0071	<0.0215	<0.0043	<0.0043	<0.0042	<0.0073
Chloromethane	mg/kg	<0.0116	<0.0107	<0.0093	<0.0079	<0.0074	<0.0130	<0.0098	<0.0177	<0.0413	<0.0085	<0.0106	<0.0087	<0.0089	<0.0160	<0.0082	<0.0113	<0.0102	<0.0383	<0.0141	<0.0431	<0.0086	<0.0086	<0.0085	<0.0147
cis-1,2-Dichloroethene	mg/kg	<0.0058	<0.0053	<0.0047	<0.0040	<0.0037	<0.0065	<0.0049	<0.0088	<0.0206	<0.0042	<0.0053	<0.0043	<0.0044	<0.0080	<0.0041	<0.0056	<0.0051	<0.0192	<0.0071	<0.0215	<0.0043	<0.0043	<0.0042	<0.0073
cis-1,3-Dichloropropene	mg/kg	<0.0058	<0.0053	<0.0047	<0.0040	<0.0037	<0.0065	<0.0049	<0.0088	<0.0206	<0.0042	<0.0053	<0.0043	<0.0044	<0.0080	<0.0041	<0.0056	<0.0051	<0.0192	<0.0071	<0.0215	<0.0043	<0.0043	<0.0042	<0.0073
Dibromochloromethane	mg/kg	<0.0023	<0.0021	<0.0019	<0.0016	<0.0015	<0.0026	<0.0020	<0.0035	<0.0083	<0.0017	<0.0021	<0.0017	<0.0018	<0.0032	<0.0016	<0.0023	<0.0020	<0.0077	<0.0028	<0.0086	<0.0017	<0.0017	<0.0017	<0.0029
Dibromomethane	mg/kg	<0.0058	<0.0053	<0.0047	<0.0040	<0.0037	<0.0065	<0.0049	<0.0088	<0.0206	<0.0042	<0.0053	<0.0043	<0.0044	<0.0080	<0.0041	<0.0056	<0.0051	<0.0192	<0.0071	<0.0215	<0.0043	<0.0043	<0.0042	<0.0073
Dichlorodifluoromethane	mg/kg	<0.0116	<0.0107	<0.0093	<0.0079	<0.0074	<0.0130	<0.0098	<0.0177	<0.0413	<0.0085	<0.0106	<0.0087	<0.0089	<0.0160	<0.0082	<0.0113	<0.0102	<0.0383	<0.0141	<0.0431	<0.0086	<0.0086	<0.0085	<0.0147
Diethyl Ether	mg/kg	<0.0058	<0.0053	<0.0047	<0.0040	<0.0037	<0.0065	<0.0049	<0.0088	<0.0206	<0.0042	<0.0053	<0.0043	<0.0044	<0.0080	<0.0041	<0.0056	<0.0051	<0.0192	<0.0071	<0.0215	<0.0043	<0.0043	<0.0042	<0.0073
Di-isopropyl ether	mg/kg	<0.0058	<0.0053	<0.0047	<0.0040	<0.0037	<0.0065	<0.0049	<0.0088	<0.0206	<0.0042	<0.0053	<0.0043	<0.0044	<0.0080	<0.0041	<0.0056	<0.0051	<0.0192	<0.0071	<0.0215	<0.0043	<0.0043	<0.0042	<0.0073
Ethyl tertiary-butyl ether	mg/kg	<0.0058	<0.0053	<0.0047	<0.0040	<0.0037	<0.0065	<0.0049	<0.0088	<0.0206	<0.0042	<0.0053	<0.0043	<0.0044	<0.0080	<0.0041	<0.0056	<0.0051	<0.0192	<0.0071	<0.0215	<0.0043	<0.0043	<0.0042	<0.0073
Ethylbenzene	mg/kg	<0.0058	<0.0053	<0.0047	<0.0040	<0.0037	<0.0065	<0.0049	<0.0088	<0.0206	<0.0042	<0.0053	<0.0043	<0.0044	<0.0080	<0.0041	<0.0056	<0.0051	<0.0192	<0.0071	<0.0215	<0.0043	<0.0043	<0.0042	<0.0073
Hexachlorobutadiene	mg/kg	<0.0058	<0.0053	<0.0047	<0.0040	<0.0037	<0.0065	<0.0049	<0.0088	<0.0206	<0.0042	<0.0053	<0.0043	<0.0044	<0.0080	<0.0041	<0.0056	<0.0051	<0.0192	<0.0071	<0.0215	<0.0043	<0.0043	<0.0042	<0.0073
Isopropylbenzene	mg/kg	<0.0058	<0.0053	<0.0047	<0.0040	<0.0037	<0.0065	<0.0049	<0.0088	<0.0206	<0.0042	<0.0053	<0.0043	<0.0044	<0.0080	<0.0041	<0.0056	<0.0051	<0.0192	<0.0071	<0.0215	<0.0043	<0.0043	<0.0042	<0.0073
Methyl tert-Butyl Ether	mg/kg	<0.0058	<0.0053	<0.0047	<0.0040	<0.0037	<0.0065	<0.0049	<0.0088	<0.0206	<0.0042	<0.0053	<0.0043	<0.0044	<0.0080	<0.0041	<0.0056	<0.0051	<0.0192	<0.0071	<0.0215	<0.0043	<0.0043	<0.0042	<0.0073
Methylene Chloride	mg/kg	<0.0116	<0.0107	<0.0093	<0.0079	<0.0074	<0.0130	<0.0098	<0.0177	<0.0413	<0.0085	<0.0106	<0.0087	<0.0089	<0.0160	<0.0082	<0.0113	<0.0102	<0.0383	<0.0141	<0.0431	<0.0086	<0.0086	<0.0085	<0.0147
Naphthalene	mg/kg	<0.0058	<0.0053	<0.0047	<0.0040	<0.0037	<0.0065	<0.0049	<0.0088	<0.0206	<0.0042	<0.0053	<0.0043	<0.0044	<0.0080	0.0171	<0.0056	<0.0051	<0.0192	<0.0071	<0.0215	<0.0043	<0.0043	<0.0042	<0.0073
n-Butylbenzene	mg/kg	<0.0058	<0.0053	<0.0047	<0.0040	<0.0037	<0.0065	<0.0049	<0.0088	<0.0206	<0.0042	<0.0053	<0.0043	<0.0044	<0.0080	<0.0041	<0.0056	<0.0051	<0.0192	<0.0071	<0.0215	<0.0043	<0.0043	<0.0042	<0.0073
n-Propylbenzene	mg/kg	<0.0058	<0.0053	<0.0047	<0.0040	<0.0037	<0.0065	<0.0049	<0.0088	<0.0206	<0.0042	<0.0053	<0.0043	<0.0044	<0.0080	<0.0041	<0.0056	<0.0051	<0.0192	<0.0071	<0.0215	<0.0043	<0.0043	<0.0042	<0.0073
sec-Butylbenzene	mg/kg	<0.0058	<0.0053	<0.0047	<0.0040	<0.0037	<0.0065	<0.0049	<0.0088	<0.0206	<0.0042	<0.0053	<0.0043	<0.0044	<0.0080	<0.0041	<0.0056	<0.0051	<0.0192	<0.0071	<0.0215	<0.0043	<0.0043	<0.0042	<0.0073

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	K09 K09S08 1502050 Natural Organics 19 - 21 2/4/2015	K09 K09S09 1502050 Natural Organics 24 - 26 2/4/2015	K09 K09S10 1502050 Natural Organics 29 - 31 2/4/2015	K09 K09S11S12 1502050 Natural Sand/Gravel 34 - 38 2/4/2015	K10 K10S01S02A 1501473 Fill 0 - 3.33 1/22/2015	K10 K10S02BS04A 1501473 Fill 3.33 - 6.66 1/22/2015	K10 K10S04BS05 1501473 Fill 6.66 - 10 1/22/2015	K10 K10S06 1501473 Natural Organics 10 - 12 1/22/2015	K10 K10S07 1501473 Natural Organics 14 - 16 1/22/2015	K10 K10S08 1501473 Natural Clay 19 - 21 1/22/2015	K10 K10S09 1501473 Natural Clay 24 - 26 1/22/2015	K10 K10S10 1501473 Natural Clay 29 - 31 1/22/2015	K10 K10S11S12 1501473 Natural Clay 34 - 38 1/22/2015	K11 K11S01S02A 1501564 Fill 0 - 3.3 1/30/2015	K11 K11S02BS04A 1501564 Fill 3.3 - 6.6 1/30/2015	K11 K11S04BS05 1501564 Fill 6.6 - 10 1/30/2015	K11 K11S06S07A 1501564 Fill 10 - 13.3 1/30/2015	K11 K11S08S09 1501564 Natural Organics 14 - 18 1/30/2015	K11 K11S10 1501564 Natural Organics 19 - 21 1/30/2015	K11 K11S11 1501564 Natural Clay 24 - 26 1/30/2015	K11 K11S12 1501564 Natural Clay 29 - 31 1/30/2015	K11 K11S13S14 1501564 Natural Clay 34 - 38 1/30/2015	K12 K12S01S02A 1501472 Fill 0 - 3.3 1/22/2015	K12 K12S02BS04A 1501472 Fill 3.3 - 6.6 1/22/2015
Preliminary Disposal Facility Category		MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type A	MCP Restricted	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A
Styrene	mg/kg	<0.0058	<0.0053	<0.0047	<0.0040	<0.0037	<0.0065	<0.0049	<0.0088	<0.0206	<0.0042	<0.0053	<0.0043	<0.0044	<0.0080	<0.0041	<0.0056	<0.0051	<0.0192	<0.0071	<0.0215	<0.0043	<0.0043	<0.0042	<0.0073
tert-Butylbenzene	mg/kg	<0.0058	<0.0053	<0.0047	<0.0040	<0.0037	<0.0065	<0.0049	<0.0088	<0.0206	<0.0042	<0.0053	<0.0043	<0.0044	<0.0080	<0.0041	<0.0056	<0.0051	<0.0192	<0.0071	<0.0215	<0.0043	<0.0043	<0.0042	<0.0073
Tertiary-amyl methyl ether	mg/kg	<0.0058	<0.0053	<0.0047	<0.0040	<0.0037	<0.0065	<0.0049	<0.0088	<0.0206	<0.0042	<0.0053	<0.0043	<0.0044	<0.0080	<0.0041	<0.0056	<0.0051	<0.0192	<0.0071	<0.0215	<0.0043	<0.0043	<0.0042	<0.0073
Tetrachloroethene	mg/kg	<0.0058	<0.0053	<0.0047	<0.0040	<0.0037	<0.0065	<0.0049	<0.0088	<0.0206	<0.0042	<0.0053	<0.0043	<0.0044	<0.0080	<0.0041	<0.0056	<0.0051	<0.0192	<0.0071	<0.0215	<0.0043	<0.0043	<0.0042	<0.0073
Tetrahydrofuran	mg/kg	<0.0058	<0.0053	<0.0047	<0.0040	<0.0037	<0.0065	<0.0049	<0.0088	<0.0206	<0.0042	<0.0053	<0.0043	<0.0044	<0.0080	<0.0041	<0.0056	<0.0051	<0.0192	<0.0071	<0.0215	<0.0043	<0.0043	<0.0042	<0.0073
Toluene	mg/kg	<0.0058	<0.0053	<0.0047	<0.0040	<0.0037	<0.0065	<0.0049	<0.0088	0.0237	<0.0042	<0.0053	<0.0043	<0.0044	<0.0080	<0.0041	<0.0056	<0.0051	<0.0192	<0.0071	<0.0215	<0.0043	<0.0043	<0.0042	<0.0073
trans-1,2-Dichloroethene	mg/kg	<0.0058	<0.0053	<0.0047	<0.0040	<0.0037	<0.0065	<0.0049	<0.0088	<0.0206	<0.0042	<0.0053	<0.0043	<0.0044	<0.0080	<0.0041	<0.0056	<0.0051	<0.0192	<0.0071	<0.0215	<0.0043	<0.0043	<0.0042	<0.0073
trans-1,3-Dichloropropene	mg/kg	<0.0058	<0.0053	<0.0047	<0.0040	<0.0037	<0.0065	<0.0049	<0.0088	<0.0206	<0.0042	<0.0053	<0.0043	<0.0044	<0.0080	<0.0041	<0.0056	<0.0051	<0.0192	<0.0071	<0.0215	<0.0043	<0.0043	<0.0042	<0.0073
Trichloroethene	mg/kg	<0.0058	<0.0053	<0.0047	<0.0040	<0.0037	<0.0065	<0.0049	<0.0088	<0.0206	<0.0042	<0.0053	<0.0043	<0.0044	<0.0080	<0.0041	<0.0056	<0.0051	<0.0192	<0.0071	<0.0215	<0.0043	<0.0043	<0.0042	<0.0073
Trichlorofluoromethane	mg/kg	<0.0058	<0.0053	<0.0047	<0.0040	<0.0037	<0.0065	<0.0049	<0.0088	<0.0206	<0.0042	<0.0053	<0.0043	<0.0044	<0.0080	<0.0041	<0.0056	<0.0051	<0.0192	<0.0071	<0.0215	<0.0043	<0.0043	<0.0042	<0.0073
Vinyl Chloride	mg/kg	<0.0116	<0.0107	<0.0093	<0.0079	<0.0074	<0.0130	<0.0098	<0.0177	<0.0413	<0.0085	<0.0106	<0.0087	<0.0089	<0.0160	<0.0082	<0.0113	<0.0102	<0.0383	<0.0141	<0.0431	<0.0086	<0.0086	<0.0085	<0.0147
Xylene O	mg/kg	<0.0058	<0.0053	<0.0047	<0.0040	<0.0037	<0.0065	<0.0049	<0.0088	<0.0206	<0.0042	<0.0053	<0.0043	<0.0044	0.0095	<0.0041	<0.0056	<0.0051	<0.0192	<0.0071	<0.0215	<0.0043	<0.0043	<0.0042	<0.0073
Xylene P,M	mg/kg	<0.0116	<0.0107	<0.0093	<0.0079	<0.0074	<0.0130	<0.0098	<0.0177	<0.0413	<0.0085	<0.0106	<0.0087	<0.0089	0.0165	<0.0082	<0.0113	<0.0102	<0.0383	<0.0141	<0.0431	<0.0086	<0.0086	<0.0085	<0.0147
Xylenes (Total)	mg/kg	<0.0116	<0.0107	<0.0093	<0.0079	<0.0074	<0.0130	<0.0098	<0.0177	<0.0413	<0.0085	<0.0106	<0.0087	<0.0089	0.026	<0.0082	<0.0113	<0.0102	<0.0383	<0.0141	<0.0431	<0.0086	<0.0086	<0.0085	<0.0147
Total VOCs (Low Level)	mg/kg	0.0222	0.115	0.0333	0.0124	0.0138	0.0789	0.0102	0.1918	0.3852	0.0383	ND	ND	ND	0.0997	0.0622	0.0527	0.0344	4.7705	0.8885	0.0586	0.0165	0.0124	0.0115	0.0283
Semi-Volatile Organic Compounds																									
1,2,4-Trichlorobenzene	mg/kg	<1.01	<1.03	<1.14	<0.921	<0.951	<1.03	<0.916	<1.56	<3.58	<0.808	<0.967	<0.944	<0.892	<0.846	<4.47	<0.863	<0.903	<4.34	<1.09	<1.07	<1.09	<0.875	<4.46	<5.43
1,2-Dichlorobenzene	mg/kg	<1.01	<1.03	<1.14	<0.921	<0.951	<1.03	<0.916	<1.56	<3.58	<0.808	<0.967	<0.944	<0.892	<0.846	<4.47	<0.863	<0.903	<4.34	<1.09	<1.07	<1.09	<0.875	<4.46	<5.43
1,3-Dichlorobenzene	mg/kg	<1.01	<1.03	<1.14	<0.921	<0.951	<1.03	<0.916	<1.56	<3.58	<0.808	<0.967	<0.944	<0.892	<0.846	<4.47	<0.863	<0.903	<4.34	<1.09	<1.07	<1.09	<0.875	<4.46	<5.43
1,4-Dichlorobenzene	mg/kg	<0.507	<0.518	<0.571	<0.462	<0.477	<0.517	<0.460	<0.780	<1.79	<0.405	<0.485	<0.474	<0.447	<0.424	<2.24	<0.433	<0.453	<2.18	<0.549	<0.534	<0.545	<0.439	<2.24	<2.72
2,4,5-Trichlorophenol	mg/kg	<1.01	<1.03	<1.14	<0.921	<0.951	<1.03	<0.916	<1.56	<3.58	<0.808	<0.967	<0.944	<0.892	<0.846	<4.47	<0.863	<0.903	<4.34	<1.09	<1.07	<1.09	<0.875	<4.46	<5.43
2,4,6-Trichlorophenol	mg/kg	<1.01	<1.03	<1.14	<0.921	<0.951	<1.03	<0.916	<1.56	<3.58	<0.808	<0.967	<0.944	<0.892	<0.846	<4.47	<0.863	<0.903	<4.34	<1.09	<1.07	<1.09	<0.875	<4.46	<5.43
2,4-Dichlorophenol	mg/kg	<1.01	<1.03	<1.14	<0.921	<0.951	<1.03	<0.916	<1.56	<3.58	<0.808	<0.967	<0.944	<0.892	<0.846	<4.47	<0.863	<0.903	<4.34	<1.09	<1.07	<1.09	<0.875	<4.46	<5.43
2,4-Dimethylphenol	mg/kg	<1.01	<1.03	<1.14	<0.921	<0.951	<1.03	<0.916	<1.56	<3.58	<0.808	<0.967	<0.944	<0.892	<0.846	<4.47	<0.863	<0.903	<4.34	<1.09	<1.07	<1.09	<0.875	<4.46	<5.43
2,4-Dinitrophenol	mg/kg	<5.07	<5.18	<5.71	<4.62	<4.77	<5.17	<4.60	<7.80	<17.9	<4.05	<4.85	<4.74	<4.47	<4.24	<22.4	<4.33	<4.53	<21.8	<5.49	<5.34	<5.45	<4.39	<22.4	<27.2
2,4-Dinitrotoluene	mg/kg	<1.01	<1.03	<1.14	<0.921	<0.951	<1.03	<0.916	<1.56	<0.897	<0.808	<0.967	<0.944	<0.892	<0.846	<1.12	<0.863	<0.903	<2.18	<1.09	<1.07	<1.09	<0.875	<1.12	<1.36
2,6-Dinitrotoluene	mg/kg	<1.01	<1.03	<1.14	<0.921	<0.951	<1.03	<0.916	<1.56	<3.58	<0.808	<0.967	<0.944	<0.892	<0.846	<4.47	<0.863	<0.903	<4.34	<1.09	<1.07	<1.09	<0.875	<4.46	<5.43
2-Chloronaphthalene	mg/kg	<1.01	<1.03	<1.14	<0.921	<0.951	<1.03	<0.916	<1.56	<3.58	<0.808	<0.967	<0.944	<0.892	<0.846	<4.47	<0.863	<0.903	<4.34	<1.09	<1.07	<1.09	<0.875	<4.46	<5.43
2-Chlorophenol	mg/kg	<1.01	<1.03	<1.14	<0.921	<0.951	<1.03	<0.916	<1.56	<3.58	<0.808	<0.967	<0.944	<0.892	<0.846	<4.47	<0.863	<0.903	<4.34	<1.09	<1.07	<1.09	<0.875	<4.46	<5.43
2-Methylnaphthalene	mg/kg	<1.01	<1.03	<1.14	<0.921	<0.951	<1.03	<0.916	<1.56	<3.58	<0.808	<0.967	<0.944	<0.892	<0.846	<4.47	<0.863	<0.903	<4.34	<1.09	<1.07	<1.09	<0.875	<4.46	<5.43
2-Methylphenol	mg/kg	<1.01	<1.03	<1.14	<0.921	<0.951	<1.03	<0.916	<1.56	<3.58	<0.808	<0.967	<0.944	<0.892	<0.846	<4.47	<0.863	<0.903	<4.34	<1.09	<1.07	<1.09	<0.875	<4.46	<5.43
2-Nitrophenol	mg/kg	<1.01	<1.03	<1.14	<0.921	<0.951	<1.03	<0.916	<1.56	<3.58	<0.808	<0.967	<0.944	<0.892	<0.846	<4.47	<0.863	<0.903	<4.34	<1.09	<1.07	<1.09	<0.875	<4.46	<5.43
3,3'-Dichlorobenzidine	mg/kg	<2.02	<2.07	<2.28	<1.84	<1.90	<2.06	<1.84	<3.12	<7.16	<1.62	<1.94	<1.89	<1.79	<1.69	<8.96	<1.73	<1.81	<8.69	<2.19	<2.13	<2.18	<1.75	<8.94	<10.9
3+4-Methylphenol	mg/kg	<2.02	<2.07	<2.28	<1.84	<1.90	<2.06	<1.84	<3.12	<7.16	<1.62	<1.94	<1.89	<1.79	<1.69	<8.96	<1.73	<1.81	<8.69	<2.19	<2.13	<2.18	<1.75	<8.94	<10.9
4-Bromophenyl-phenylether	mg/kg	<1.01	<1.03	<1.14	<0.921	<0.951	<1.03	<0.916	<1.56	<3.58	<0.808	<0.967	<0.944	<0.892	<0.846	<4.47	<0.863	<0.903	<4.34	<1.09	<1.07	<1.09	<0.875	<4.46	<5.43
4-Chloroaniline	mg/kg	<2.02	<2.07	<2.28	<1.84	<1.90	<2.06	<1.84	<3.12	<1.79	<1.62	<1.94	<1.89	<1.79	<1.69	<2.24	<1.73	<1.81	<2.18	<2.19	<2.13	<2.18	<1.75	<2.24	<2.72
4-Nitrophenol	mg/kg	<5.07	<5.18	<5.71	<4.62	<4.77	<5.17	<4.60	<7.80	<17.9	<4.05	<4.85	<4.74	<4.47	<4.24	<22.4	<4.33	<4.53	<21.8	<5.49	<5.34	<5.45	<4.39	<22.4	<27.2
Acenaphthene	mg/kg	<1.01	<1.03	<1.14	<0.921	<0.951	<1.03	<0.916	<1.56	<3.58	<0.808	<0.967	<0.944	<0.892	<0.846	<4.47	<0.863	<0.903	<4.34	<1.09	<1.07	<1.09	<0.875	<4.46	<5.43
Acenaphthylene	mg/kg	<1.01	<1.03	<1.14	<0.921	<0.951	1.65	0.988	<1.56	<3.58	<0.808	<0.967	<0.944	<0.892	<0.846	<4.47	<0.863	<0.903	<4.34	<1.09	<1.07	<1.09	<0.875	<4.46	<5.43
Acetophenone	mg/kg	<2.02	<2.07	<2.28	<1.84	<1.90	<2.06	<1.84	<3.12	<7.16	<1.62	<1.94	<1.89	<1.79	<1.69	<8.96	<1.73	<1.81	<8.69	<2.19	<2.13	<2.18	<1.75	<8.94	<10.9
Aniline	mg/kg	<5.07	<5.18	<5.71	<4.62	<4.77	<5.17	<4.60	<7.80	<17.9	<4.05	<4.85	<4.74	<4.47	<4.24	<22.4	<4.33	<4.53	<21.8	<5.49	<5.34	<5.45	<4.39	<22.4	<27.2
Anthracene	mg/kg	<1.01	<1.03	<1.14	<0.921	<0.951	1.96	1.12	<1.56	<3.58	<0.808	<0.967	<0.944	<0.892	<0.846	<4.47	<0.863	<0.903	<4.34	<1.09	<1.07	<1.09	<0.875	<4.46	<5.43
Azobenzene	mg/kg	<1.01	<1.03	<1.14	<0.921	<0.951	<1.03	<0.916	<1.56	<3.58	<0.808	<0.967	<0.944	<0.892	<0.846	<4.47	<0.863	<0.903	<4.34	<1.09	<1.07	<1.09	<0.875	<4.46	<5.43
Benzo(a)anthracene	mg/kg	<1.01	<1.03	<1.14	<0.921	2.27	9.75	4.05	<1.56	<3.58	<0.808	<0.967	<0.944	<0.892	<0.846	6.84	<0.863	<0.903	<4.34	<1.09	<1.07	<1.09	<0.875	<4.46	<5.43
Benzo(a)pyrene	mg/kg	<0.507	<0.518	<0.571	<0.462	1.96	8.27	3.43	<0.780	<1.79	<0.405	<0.485	<0.474	<0.447	<0.424	6.49	0.682	<0.453	<2.18	<0.549	<0.534	<0.545	<0.439	<2.24	<2.72
Benzo(b)fluoranthene	mg/kg	<1.01	<1.03	<1.14	<0.921	2.69	10.7	4.59	<1.56	<3.58	<0.808	<0.967	<0.944	<0.892	<0.846	7.55	0.873	<0.903	<4.34	<1.09	<1.07	<1.09	<0.875	<4.46	<5.43
Benzo(g,h,i)perylene	mg/kg	<1.01	<1.03	<1.14	<0.921	<0.951	1.96	0.947	<1.56	<3.58	<0.808	<0.967	<0.944	<0.892	<0.846	<4.47	<0.863	<0.903	<4.34	<1.09	<1.07	<1.09	<0.875	<4.46	<5.43
Benzo(k)fluoranthene	mg/kg	<1.01	<1.03	<1.14	<0.921	0.968	3.8	1.78	<1.56	<3.58	<0.808	<0.967	<0.944	<0.892	<0.846	<4.47	<0.863	<0.903	<4.34	<1.09	<1.07	<1.09	<0.875	<4.46	<5.43
bis(2-Chloroethoxy)methane	mg/kg	<1.01	<1.03	<1.14	<0.921	<0.951	<1.03	<0.916	<1.56	<3.58	<0.808	<0.967	<0.944	<0.892	<0.846	<4.47	<0.863	<0.903	<4.34	<1.09	<1.07	<1.09	<0.875	<4.46	<5.43
bis(2-Chloroethyl)ether	mg/kg	<0.507	<0.518	<0.571	<0.462	<0.477	<0.517	<0.460	<0.780	<0.354	<0.405	<0.485	<0.474	<0.447	<0.424	<0.443	<0.433	<0.453	<0.430	<0.549	<0.534	<0.545	<0.439	<0.442	<0.538
bis(2-chloroisopropyl)Ether	mg/kg	<0.507	<0.518	<0.571	<0.462	<0.477	<0.517	<0.460	<0.780	<0.354	<0.405	<0.485	<0.474	<0.447	<0.424	<0.443	<0.433	<0.453	<0.430	<0.549	<0.534	<0.545	<0.439	<0.442	<0.538
bis(2-Ethylhexyl)phthalate	mg/kg	<1.01	<1.03	<1.14	<0.921	<0.951	<1.03	<0.916	<1.56	<3.58	<0.808	<0.967	<0.944	<0.892	<0.846	<4.47	<0.863	<0.903	<4.34	<1.09	<1.07	<1.09	<0.875	<4.46	<5.43
Butylbenzylphthalate	mg/kg	<1.01	<1.03	<1.14	<0.921	<0.951	<1.03	<0.916	<1.56	<3.58	<0.808	<0.967	<0.944	<0.892	<0.846	<4.47	<0.863	<0.903	<4.34	<1.09	<1.07	<1.09	<0.875	<4.46	<5.43
Chrysene	mg/kg	<0.507	<0.518	<0.571	<0.462	2.03	10.3	4.23	<0.780	<1.79	<0.405	<0.485	<0.474	<0.447	<0.424	7.09	0.803	<0.453	<2.18	<0.549	<0.534	<0.545	<0.439	<2.24	<2.72
Dibenzo(a,h)Anthracene	mg/kg	<0.507	<0.518	<0.571	<0.462	<0.477	1.16	0.49	<0.780	<1.79	<0.405	<0.485	<0.474	<0.447	<0.424	<2.24	<0.433	<0.453	<2.18	<0.549	<0.534	<0.545	<0.439	<2.24	<2.72
Dibenzofuran	mg/kg	<1.01	<1.03	<1.14	<0.921	<0.951	<1.03	<0.916	<1.56	<3.58	<0.808	<0.967	<0.944	<0.892	<0.846	<4.47	<0.863	<0.903	<4.34	<1.09	<1.07	<1.09	<0.875	<4.46	<5.43
Diethylphthalate	mg/kg	<1.01	<1.03	<1.14	<0.921	<0.951	<1.03	<0.916	<1.56	<3.58	<0.808	<0.967	<0.944	<0.892	<0.846	<4.47	<0.863	<0.903	<4.34	<1.09	<1.07	<1.09	<0.875	<4.46	<5.43
Dimethylphthalate	mg/kg	<1.01	<1.03	<1.14	<0.921	<0.951	<1.03	<0.916	<1.56	<3.58	<0.808	<0.967	<0.944	<0.892	<0.846	<4.47	<0.863	<0.903	<4.34	<1.09	<1.07	<1.09	<0.875	<4.46	<5.43
Di-n-butylphthalate	mg/kg	<1.01	<1.03	<1.14	<0.921	<0.951	<1.03	<0.916	<1.56	<3.58	<0.808	<0.967	<0.944	<0.892	<0.846	<4.47	<0.863	<0.903	<4.34	<1.09	<1.07	<1.09	<0.875	<4.46	<5.43
Di-n-octylphthalate	mg/kg	<1.01	<1.03	<1.14	<0.921	<0.951	<1.03	<0.916	<1.56	<3.58	<0.808	<0.967	<0.944	<0.892	<0.846	<4.47	<0.863	<0.903	<4.34	<1.09	<1.07	<1.09	<0.875	<4.46	<5.43
Fluoranthene	mg/kg	<1.01	<1.03	<1.14	<0.921	5.8	17.9	10.7	<1.56	<3.58	<0.808	<0.967	<0.944	<0.892	<0.846	9.58	1.27	<0.903	<4.34	<1.09	<1.07	<1.09	<0.875	<4.46	<5.43
Fluorene	mg/kg	<1.01	<1.03	<1.14	<0.921	<0.951	<1.03	<0.916	<1.56	<3.58	<0.808	<0.967	<0.944	<0.892	<0.846	<4.47	<0.863	<0.903	<4.34	<1.09	<1.07	<1.09	<0.875	<4.46	<5.43
Hexachlorobenzene	mg/kg	<0.507	<0.518	<0.571	<0.462	<0.477	<0.517	<0.460	<0.780	<0.897	<0.405	<0.485	<0.474	<0.447	<0.424	<1.12	<0.433	<0.453	<2.18	<0.549	<0.534	<0.545	<0.439	<1.12	<1.36
Hexachlorobutadiene	mg/kg	<1.01	<1.03	<1.14	<0.921	<0.951	<1.03	<0.916	<1.56	<3.58	<0.808	<0.967	<0.944	<0.892	<0.846	<4.47	<0.863	<0.903	<4.34	<1.09	<1.07	<1.09	<0.875	<4.46	<5.43
Hexachloroethane	mg/kg	<1.01	<1.03	<1.14	<0.921	<0.951	<1.03	<0.916	<1.56	<1.79	<0.808	<0.967	<0.944	<0.892	<0.846	<2.24	<0.863	<0.903	<2.18	<1.09	<1.07	<1.09	<0.875	<2.24	<2.72
Indeno(1,2,3-cd)Pyrene	mg/kg	<1.01	<1.03	<1.14	<0.921	<0.951	1.95	<0.916	<1.56	<3.58	<0.808	<0.967	<0.944	<0.892	<0.846	<4.47	<0.863	<0.903	<4.34	<1.09	<1.07	<1.09	<0.875	<4.46	<5.43
Isophorone	mg/kg	<1.01	<1.03	<1.14	<0.921	<0.951	<1.03	<0.916	<1.56	<3.58	<0.808	<0.967	<0.944	<0.892	<0.846	<4.47	<0.863	<0.903	<4.34	<1.09	<1.07	<1.09	<0.875	<4.46	<5.43
Naphthalene	mg/kg	<1.01	<1.03	<1.14	<0.921	<0.951	<1.03	<0.916	<1.56	<3.58	<0.808	<0.967	<0.944	<0.892	<0.846	<4.47	<0.863	<0.903	<4.34	<1.09	<1.07	<1.09	<0.875	<4.46	<5.43
Nitrobenzene	mg/kg	<1.01	<1.03	<1.14	<0.921	<0.951	<1.03	<0.916	<1.56	<3.58	<0.808	<0.967	<0.944	<0.892	<0.846	<4.47	<0.863	<0.903	<4.34	<1.09	<1.07	<1.09	<0.875	<4.46	<5.43
N-Nitrosodimethylamine	mg/kg	<1.01	<1.03	<1.14	<0.921	<0.951	<1.03	<0.916	<1.56	<3.58	<0.808	<0.967	<0.944	<0.892	<0.846	<4.47	<0.863	<0.903	<4.34	<1.09	<1.07	<1.09	<0.875	<4.46	<5.43
Pentachlorophenol	mg/kg	<5.07	<5.18	<5.71	<4.62	<4.77	<5.17	<4.60	<7.80	<3.58	<4.05	<4.85	<4.74	<4.47	<4.24	<4.47	<4.33	<4.53	<4.34	<5.49	<5.34	<5.45	<4.39	<4.46	<5.43
Phenanthrene	mg/kg	<1.01	<1.03	<1.14	<0.921	3.16	6.52	6.27	<1.56	<3.58	<0.808	<0.967	<0.944	<0.892	<0.846	4.72	<0.863	<0.903	<4.34	<1.09	<1.07	<1.09	<0.875	<4.46	<5.43
Phenol	mg/kg	<1.01	<1.03	<1.14	<0.921	<0.951	<1.03	<0.916	<1.56	<3.58	<0.808	<0.967	<0.944	<0.892	<0.846	<4.47	<0.863	<0.903	<4.34	<1.09	<1.07	<1.09	<0.875	<4.46	<5.43
Pyrene	mg/kg	<1.01	<1.03	<1.14	<0.921	4.12	14.9	7.41	<1.56	<3.58	<0.808	<0.967	<0.944	<0.892	<0.846	11.4	1.19	<0.903	<4.34	<1.09	<1.07	<1.09	<0.875	<4.46	<5.43
Total SVOCs	mg/kg	ND	ND	ND	ND	22.998	90.82	46.005	ND	ND	ND	ND	ND	ND	ND	53.67	4.818	ND	ND	ND	ND	ND	ND	ND	ND
Classic Chemistry																									
Corrosivity (pH)	S.U.	7.76	7.77	7.56	7.59	7.67	7.31	6.9	7.69	7.67	8.22	7.33	7.51	7.33	8.06	7.33	7.5	6.49	3.81	4.27	5.03	5.38	6.43	8.77	5.32
Conductivity	umhos/cm	5220	5920	4480	1820	1280	1340	1210	1460	7490	2040	5540	3870	850	1500	766	1570	1310	11600	6850	7270	2940	3230	196	1210
Flashpoint	°F	--	--	--	--	>200	>200	>200	--	--	--	--	--	--	>200	>200	>200	>200	--	--	--	--	--	>200	>200
Reactive Cyanide	mg/kg	--	--	--	--	<2.0	<2.0	<2.0	--	--	--	--	--	--	<2.0	<2.0	<2.0	<2.0	--	--	--	--	--	<2.0	<2.0
Reactive Sulfide	mg/kg	--	--	--	--	<2.0	<2.0	<2.0	--	--	--	--	--	--	<2.0	<2.0	<2.0	<2.0	--	--	--	--	--	<2.0	<2.0

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	K12 K12S04BS05 1501472 Fill 6.6 - 10 1/22/2015	K12 K12S06 1501472 Natural Sand/Gravel 10 - 12 1/22/2015	K12 K12S07 1501472 Natural Organics 14 - 16 1/22/2015	K12 K12S08 1501472 Natural Sand/Gravel 19 - 21 1/22/2015	K12 K12S09 1501490 Natural Clay 24 - 26 1/23/2015	K12 K12S10 1501490 Natural Clay 29 - 31 1/23/2015	K12 K12S11S12 1501490 Natural Clay 34 - 38 1/23/2015	K13 K13S01S02A 1502207 Fill 0 - 3.3 2/13/2015	K13 K13S02BS04A 1502207 Fill 3.3 - 6.6 2/13/2015	K13 K13S04B 1502207 Fill 6.6 - 8 2/13/2015	K13 K13S05S06 1502207 Natural Organics 8 - 12 2/13/2015	K13 K13S07 1502207 Natural Sand/Gravel 12 - 14 2/13/2015	K13 K13S08 1502207 Natural Sand/Gravel 19 - 21 2/13/2015	K13 K13S09 1502207 Natural Clay 24 - 26 2/13/2015	K13 K13S10 1502207 Natural Clay 29 - 31 2/13/2015	K13 K13S11S12 1502207 Natural Clay 34 - 38 2/13/2015	K14 K14S01S02A 1501472 Fill 0 - 3.3 1/22/2015	K14 K14S02BS04A 1501472 Fill 3.3 - 6.6 1/22/2015	K14 K14S04BS06 1501472 Fill 6.6 - 12 1/22/2015	K14 K14S07 1501472 Fill 12 - 14 1/22/2015	K14 K14S08 1501472 Natural Organics 19 - 21 1/22/2015	K14 K14S09 1501472 Natural Clay 24 - 26 1/22/2015	K14 K14S10 1501472 Natural Clay 29 - 31 1/22/2015	K14 K14S11S12 1501472 Natural Clay 34 - 38 1/22/2015
Preliminary Disposal Facility Category		Hazardous Material Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type B	Hazardous Material Type B	Hazardous Material Type B	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Restricted	MCP Restricted
RCRA 8 Metals	**Units**																									
Arsenic	mg/kg	8.35	<6.59	49.3	<7.56	<7.67	<8.03	20.1	<5.76	<6.45	69	155	51.3	<7.22	20	13.2	10.2	<9.74	14.7	124	151	<23.1	<7.66	18.6	16.4
Barium	mg/kg	40.1	21.4	58.9	23.6	16	88.6	135	22.1	33.3	114	47.9	59	<7.22	113	94.1	130	38.3	69.5	91	144	<23.1	62.1	90.3	117
Cadmium	mg/kg	<1.43	<1.32	<3.24	<1.51	<1.53	<1.61	<1.58	<1.15	<1.29	<1.54	3.1	<1.26	2.97	<1.67	<1.66	<1.56	<1.95	<1.23	<1.37	<1.76	<4.62	6.08	2	<1.72
Chromium	mg/kg	21.1	21.8	55.3	<3.02	<3.07	55	55.3	23.6	21.1	39.2	192	38.9	11.6	58.8	61.1	68.4	25.1	14	44.3	45	16.3	24.9	54.2	63.1
Lead	mg/kg	26.5	38.3	902	<15.1	<15.3	<16.1	<15.8	23.2	87.6	2750	2000	1770	<14.4	19	21	20.8	69.2	177	460	1110	<46.2	<15.3	23.5	20.6
Selenium	mg/kg	<14.3	<6.59	<16.2	<15.1	<15.3	<8.03	<7.88	<5.76	<6.45	<7.71	<7.74	8.42	<7.22	<8.33	<8.30	<7.82	<9.74	<6.16	<6.85	<17.6	<11.6	<7.66	<7.38	<8.58
Silver	mg/kg	<1.43	<1.32	<3.24	<1.51	<1.53	<1.61	<1.58	<1.15	<1.29	1.83	<1.55	1.9	<1.44	<1.67	<1.66	<1.56	<1.95	<1.23	1.93	<1.76	<4.62	<1.53	<1.48	<1.72
Mercury	mg/kg	<0.038	<0.026	0.831	<0.031	<0.039	<0.044	<0.039	0.039	0.111	0.204	0.484	0.044	<0.036	<0.043	<0.044	<0.041	0.102	0.087	0.227	0.286	<0.088	<0.041	<0.040	<0.038
Metals by Toxicity Characteristic Leaching Procedure (TCLP)																										
Arsenic	mg/L	--	--	--	--	--	--	--	--	--	--	<0.500	--	--	--	--	--	--	--	<0.050	0.311	--	--	--	--
Cadmium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--	--	--	--	--	--	<0.200	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead	mg/L	--	--	0.128	--	--	--	--	--	--	13.1	14.1	49.7	--	--	--	--	--	<0.050	0.396	0.469	--	--	--	--
Selenium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Herbicides																										
2,4,5-T	mg/kg	<0.056	--	--	--	<0.055	--	--	<0.31	<0.053	<0.068	--	--	--	--	--	--	<0.25	<0.27	<0.060	<0.087	<0.97	--	--	--
2,4-D	mg/kg	<0.056	--	--	--	<0.055	--	--	<0.31	<0.053	<0.068	--	--	--	--	--	--	<0.25	<0.27	<0.060	<0.087	<0.97	--	--	--
2,4-DB	mg/kg	<0.056	--	--	--	<0.055	--	--	<0.31	<0.053	<0.068	--	--	--	--	--	--	<0.25	<0.27	<0.060	<0.087	<0.97	--	--	--
Dalapon	mg/kg	<0.68	--	--	--	<0.66	--	--	<3.7	<0.64	<0.82	--	--	--	--	--	--	<3.0	<3.3	<0.72	<1.0	<12	--	--	--
Dicamba	mg/kg	<0.056	--	--	--	<0.055	--	--	<0.31	<0.053	<0.068	--	--	--	--	--	--	<0.25	<0.27	<0.060	<0.087	<0.97	--	--	--
Dichlorprop	mg/kg	<0.056	--	--	--	<0.055	--	--	<0.31	<0.053	<0.068	--	--	--	--	--	--	<0.25	<0.27	<0.060	<0.087	<0.97	--	--	--
Dinoseb	mg/kg	<0.34	--	--	--	<0.33	--	--	<1.9	<0.32	<0.41	--	--	--	--	--	--	<1.5	<1.6	<0.36	<0.52	<5.8	--	--	--
MCPA	mg/kg	<14	--	--	--	<13	--	--	<75	<13	<16	--	--	--	--	--	--	<61	<65	<14	<21	<230	--	--	--
MCPP	mg/kg	<14	--	--	--	<13	--	--	<75	<13	<16	--	--	--	--	--	--	<61	<65	<14	<21	<230	--	--	--
Silvex (2,4,5-TP)	mg/kg	<0.056	--	--	--	<0.055	--	--	<0.31	<0.053	<0.068	--	--	--	--	--	--	<0.25	<0.27	<0.060	<0.087	<0.97	--	--	--
Pesticides																										
4,4'-DDD	mg/kg	<0.017	--	--	--	<0.0019	--	--	<0.022	<0.0093	<0.0024	--	--	--	--	--	--	<0.034	<0.034	<0.0017	<0.0017	<0.15	--	--	--
4,4'-DDE	mg/kg	<0.017	--	--	--	<0.0019	--	--	<0.022	<0.0093	<0.0024	--	--	--	--	--	--	<0.034	<0.034	<0.0017	<0.0017	<0.15	--	--	--
4,4'-DDT	mg/kg	<0.017	--	--	--	<0.0019	--	--	<0.022	<0.0093	<0.0024	--	--	--	--	--	--	<0.034	<0.034	<0.0017	<0.0017	<0.15	--	--	--
Aldrin	mg/kg	<0.017	--	--	--	<0.0019	--	--	<0.022	<0.0093	<0.0024	--	--	--	--	--	--	<0.034	<0.034	<0.0017	<0.0017	<0.15	--	--	--
alpha-BHC	mg/kg	<0.017	--	--	--	<0.0019	--	--	<0.022	<0.0093	<0.0024	--	--	--	--	--	--	<0.034	<0.034	<0.0017	<0.0017	<0.15	--	--	--
beta-BHC	mg/kg	<0.017	--	--	--	<0.0019	--	--	<0.022	<0.0093	<0.0024	--	--	--	--	--	--	<0.034	<0.034	<0.0017	<0.0017	<0.15	--	--	--
Chlordane (technical)	mg/kg	<0.50	--	--	--	<0.019	--	--	<0.22	<0.093	<0.024	--	--	--	--	--	--	<0.99	<0.99	<0.050	<0.050	<4.5	--	--	--
delta-BHC	mg/kg	<0.017	--	--	--	<0.0019	--	--	<0.022	<0.0093	<0.0024	--	--	--	--	--	--	<0.034	<0.034	<0.0017	<0.0017	<0.15	--	--	--
Dieldrin	mg/kg	<0.017	--	--	--	<0.0019	--	--	<0.022	<0.0093	<0.0024	--	--	--	--	--	--	<0.034	<0.034	<0.0017	<0.0017	<0.15	--	--	--
Endosulfan I	mg/kg	<0.017	--	--	--	<0.0019	--	--	<0.022	<0.0093	<0.0024	--	--	--	--	--	--	<0.034	<0.034	<0.0017	<0.0017	<0.15	--	--	--
Endosulfan II	mg/kg	<0.017	--	--	--	<0.0019	--	--	<0.022	<0.0093	<0.0024	--	--	--	--	--	--	<0.034	<0.034	<0.0017	<0.0017	<0.15	--	--	--
Endosulfan sulfate	mg/kg	<0.017	--	--	--	<0.0019	--	--	<0.022	<0.0093	<0.0024	--	--	--	--	--	--	<0.034	<0.034	<0.0017	<0.0017	<0.15	--	--	--
Endrin	mg/kg	<0.017	--	--	--	<0.0019	--	--	<0.022	<0.0093	<0.0024	--	--	--	--	--	--	<0.034	<0.034	<0.0017	<0.0017	<0.15	--	--	--
Endrin ketone	mg/kg	<0.017	--	--	--	<0.0019	--	--	<0.022	<0.0093	<0.0024	--	--	--	--	--	--	<0.034	<0.034	<0.0017	<0.0017	<0.15	--	--	--
gamma-BHC (Lindane)	mg/kg	<0.017	--	--	--	<0.0019	--	--	<0.022	<0.0093	<0.0024	--	--	--	--	--	--	<0.034	<0.034	<0.0017	<0.0017	<0.15	--	--	--
Heptachlor	mg/kg	<0.017	--	--	--	<0.0019	--	--	<0.022	<0.0093	<0.0024	--	--	--	--	--	--	<0.034	<0.034	<0.0017	<0.0017	<0.15	--	--	--
Heptachlor epoxide	mg/kg	<0.017	--	--	--	<0.0019	--	--	<0.022	<0.0093	<0.0024	--	--	--	--	--	--	<0.034	<0.034	<0.0017	<0.0017	<0.15	--	--	--
Hexachlorobenzene	mg/kg	<0.017	--	--	--	<0.0019	--	--	<0.022	<0.0093	<0.0024	--	--	--	--	--	--	<0.034	<0.034	<0.0017	<0.0017	<0.15	--	--	--
Methoxychlor	mg/kg	<0.033	--	--	--	<0.0019	--	--	<0.022	<0.0093	<0.0024	--	--	--	--	--	--	<0.065	<0.065	<0.0033	<0.0033	<0.30	--	--	--
Polychlorinated Biphenyls																										
Aroclor 1016	mg/kg	<0.143	<0.138	<0.355	<0.150	<0.156	<0.168	<0.162	<0.133	<0.140	<0.153	<0.151	<0.142	<0.136	<0.163	<0.164	<0.171	<0.135	<0.136	<0.158	<0.218	<0.481	<0.145	<0.156	<0.166
Aroclor 1221	mg/kg	<0.143	<0.138	<0.355	<0.150	<0.156	<0.168	<0.162	<0.133	<0.140	<0.153	<0.151	<0.142	<0.136	<0.163	<0.164	<0.171	<0.135	<0.136	<0.158	<0.218	<0.481	<0.145	<0.156	<0.166
Aroclor 1232	mg/kg	<0.143	<0.138	<0.355	<0.150	<0.156	<0.168	<0.162	<0.133	<0.140	<0.153	<0.151	<0.142	<0.136	<0.163	<0.164	<0.171	<0.135	<0.136	<0.158	<0.218	<0.481	<0.145	<0.156	<0.166
Aroclor 1242	mg/kg	<0.143	<0.138	<0.355	<0.150	<0.156	<0.168	<0.162	<0.133	<0.140	<0.153	<0.151	<0.142	<0.136	<0.163	<0.164	<0.171	<0.135	<0.136	<0.158	<0.218	<0.481	<0.145	<0.156	<0.166
Aroclor 1248	mg/kg	<0.143	<0.138	<0.355	<0.150	<0.156	<0.168	<0.162	<0.133	<0.140	<0.153	<0.151	<0.142	<0.136	<0.163	<0.164	<0.171	<0.135	<0.136	<0.158	<0.218	<0.481	<0.145	<0.156	<0.166
Aroclor 1254	mg/kg	<0.143	<0.138	<0.355	<0.150	<0.156	<0.168	<0.162	0.193	0.317	<0.153	<0.151	<0.142	<0.136	<0.163	<0.164	<0.171	<0.135	0.372	<0.158	<0.218	<0.481	<0.145	<0.156	<0.166
Aroclor 1260	mg/kg	<0.143	<0.138	<0.355	<0.150	<0.156	<0.168	<0.162	<0.133	<0.140	<0.153	<0.151	<0.142	<0.136	<0.163	<0.164	<0.171	0.442	0.148	<0.158	<0.218	<0.481	<0.145	<0.156	<0.166
Aroclor 1262	mg/kg	<0.143	<0.138	<0.355	<0.150	<0.156	<0.168	<0.162	<0.133	<0.140	<0.153	<0.151	<0.142	<0.136	<0.163	<0.164	<0.171	<0.135	<0.136	<0.158	<0.218	<0.481	<0.145	<0.156	<0.166
Aroclor 1268	mg/kg	<0.143	<0.138	<0.355	<0.150	<0.156	<0.168	<0.162	<0.133	<0.140	<0.153	<0.151	<0.142	<0.136	<0.163	<0.164	<0.171	<0.135	<0.136	<0.158	<0.218	<0.481	<0.145	<0.156	<0.166
Total PCBs	mg/kg	ND	ND	ND	ND	ND	ND	ND	0.193	0.317	ND	ND	ND	ND	ND	ND	ND	0.442	0.52	ND	ND	ND	ND	ND	ND
Total Petroleum Hydrocarbons	mg/kg	564	57.3	885	63.1	<43.8	<50.5	<47.3	578	247	79.1	145	55.4	<45.7	<52.2	<52.6	<52.6	527	295	72.6	344	2100	<42.0	<46.4	<51.1
Volatile Organic Compounds (VOCs)																										
1,1,1,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.262	--	--	--	--
1,1,1-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.131	--	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.131	--	--	--	--
1,1,2-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.131	--	--	--	--
1,1-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.131	--	--	--	--
1,1-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.131	--	--	--	--
1,1-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.131	--	--	--	--
1,2,3-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.131	--	--	--	--
1,2,3-Trichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.131	--	--	--	--
1,2,4-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.131	--	--	--	--
1,2,4-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.131	--	--	--	--
1,2-Dibromo-3-Chloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.524	--	--	--	--
1,2-Dibromoethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.131	--	--	--	--
1,2-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.131	--	--	--	--
1,2-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.131	--	--	--	--
1,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.131	--	--	--	--
1,3,5-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.131	--	--	--	--
1,3-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.131	--	--	--	--
1,3-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.131	--	--	--	--
1,4-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.131	--	--	--	--
1,4-Dioxane - Screen	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<13.1	--	--	--	--
2,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.262	--	--	--	--
2-Butanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.524	--	--	--	--
2-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.131	--	--	--	--
2-Hexanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.524	--	--	--	--
4-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.131	--	--	--	--
4-Isopropyltoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.131	--	--	--	--
4-Methyl-2-Pentanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.524	--	--	--	--
Acetone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.589	--	--	--	--
Benzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.131	--	--	--	--
Bromobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.131	--	--	--	--
Bromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.131	--	--	--	--
Bromodichloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.131	--	--	--	--
Bromoform	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.131	--	--	--	--
Bromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.262	--	--	--	--
Carbon Disulfide	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.152	--	--	--	--
Carbon Tetrachloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.131	--	--	--	--

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	K12 K12S04BS05 1501472 Fill 6.6 - 10 1/22/2015	K12 K12S06 1501472 Natural Sand/Gravel 10 - 12 1/22/2015	K12 K12S07 1501472 Natural Organics 14 - 16 1/22/2015	K12 K12S08 1501472 Natural Sand/Gravel 19 - 21 1/22/2015	K12 K12S09 1501490 Natural Clay 24 - 26 1/23/2015	K12 K12S10 1501490 Natural Clay 29 - 31 1/23/2015	K12 K12S11S12 1501490 Natural Clay 34 - 38 1/23/2015	K13 K13S01S02A 1502207 Fill 0 - 3.3 2/13/2015	K13 K13S02BS04A 1502207 Fill 3.3 - 6.6 2/13/2015	K13 K13S04B 1502207 Fill 6.6 - 8 2/13/2015	K13 K13S05S06 1502207 Natural Organics 8 - 12 2/13/2015	K13 K13S07 1502207 Natural Sand/Gravel 12 - 14 2/13/2015	K13 K13S08 1502207 Natural Sand/Gravel 19 - 21 2/13/2015	K13 K13S09 1502207 Natural Clay 24 - 26 2/13/2015	K13 K13S10 1502207 Natural Clay 29 - 31 2/13/2015	K13 K13S11S12 1502207 Natural Clay 34 - 38 2/13/2015	K14 K14S01S02A 1501472 Fill 0 - 3.3 1/22/2015	K14 K14S02BS04A 1501472 Fill 3.3 - 6.6 1/22/2015	K14 K14S04BS06 1501472 Fill 6.6 - 12 1/22/2015	K14 K14S07 1501472 Fill 12 - 14 1/22/2015	K14 K14S08 1501472 Natural Organics 19 - 21 1/22/2015	K14 K14S09 1501472 Natural Clay 24 - 26 1/22/2015	K14 K14S10 1501472 Natural Clay 29 - 31 1/22/2015	K14 K14S11S12 1501472 Natural Clay 34 - 38 1/22/2015
Preliminary Disposal Facility Category		Hazardous Material Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type B	Hazardous Material Type B	Hazardous Material Type B	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Restricted	MCP Restricted
Chlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.131	--	--	--	--
Chloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.262	--	--	--	--
Chloroform	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.131	--	--	--	--
Chloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.262	--	--	--	--
cis-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.131	--	--	--	--
cis-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.131	--	--	--	--
Dibromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.131	--	--	--	--
Dibromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.131	--	--	--	--
Dichlorodifluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.131	--	--	--	--
Diethyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.131	--	--	--	--
Di-isopropyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.131	--	--	--	--
Ethyl tertiary-butyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.131	--	--	--	--
Ethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.131	--	--	--	--
Hexachlorobutadiene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.131	--	--	--	--
Isopropylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.131	--	--	--	--
Methyl tert-Butyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.131	--	--	--	--
Methylene Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.524	--	--	--	--
Naphthalene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.131	--	--	--	--
n-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.131	--	--	--	--
n-Propylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.131	--	--	--	--
sec-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.131	--	--	--	--
Styrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.131	--	--	--	--
tert-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.131	--	--	--	--
Tertiary-amyl methyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.131	--	--	--	--
Tetrachloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.131	--	--	--	--
Tetrahydrofuran	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.524	--	--	--	--
Toluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.131	--	--	--	--
trans-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.131	--	--	--	--
trans-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.131	--	--	--	--
Trichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.131	--	--	--	--
Trichlorofluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.131	--	--	--	--
Vinyl Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.131	--	--	--	--
Xylene O	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.131	--	--	--	--
Xylene P,M	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.262	--	--	--	--
Xylenes (Total)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.262	--	--	--	--
Total VOCs	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.741	--	--	--	--
Volatile Organic Compounds - Low Level Analysis																									
1,1,1,2-Tetrachloroethane	mg/kg	<0.0042	<0.0038	<0.0186	<0.0044	<0.0048	<0.0044	<0.0048	<0.0051	<0.0059	<0.0051	<0.0039	<0.0043	<0.0036	<0.0059	<0.0047	<0.0053	<0.0051	<0.0054	<0.0042	<0.0085	<0.0229	<0.0040	<0.0033	<0.0039
1,1,1-Trichloroethane	mg/kg	<0.0042	<0.0038	<0.0186	<0.0044	<0.0048	<0.0044	<0.0048	<0.0051	<0.0059	<0.0051	<0.0039	<0.0043	<0.0036	<0.0059	<0.0047	<0.0053	<0.0051	<0.0054	<0.0042	<0.0085	<0.0229	<0.0040	<0.0033	<0.0039
1,1,2,2-Tetrachloroethane	mg/kg	<0.0017	<0.0015	<0.0075	<0.0018	<0.0019	<0.0018	<0.0019	<0.0020	<0.0024	<0.0020	<0.0016	<0.0017	<0.0015	<0.0024	<0.0019	<0.0021	<0.0020	<0.0022	<0.0017	<0.0034	<0.0091	<0.0016	<0.0013	<0.0016
1,1,2-Trichloroethane	mg/kg	<0.0042	<0.0038	<0.0186	<0.0044	<0.0048	<0.0044	<0.0048	<0.0051	<0.0059	<0.0051	<0.0039	<0.0043	<0.0036	<0.0059	<0.0047	<0.0053	<0.0051	<0.0054	<0.0042	<0.0085	<0.0229	<0.0040	<0.0033	<0.0039
1,1-Dichloroethane	mg/kg	<0.0042	<0.0038	<0.0186	<0.0044	<0.0048	<0.0044	<0.0048	<0.0051	<0.0059	<0.0051	<0.0039	<0.0043	<0.0036	<0.0059	<0.0047	<0.0053	<0.0051	<0.0054	<0.0042	<0.0085	<0.0229	<0.0040	<0.0033	<0.0039
1,1-Dichloroethene	mg/kg	<0.0042	<0.0038	<0.0186	<0.0044	<0.0048	<0.0044	<0.0048	<0.0051	<0.0059	<0.0051	<0.0039	<0.0043	<0.0036	<0.0059	<0.0047	<0.0053	<0.0051	<0.0054	<0.0042	<0.0085	<0.0229	<0.0040	<0.0033	<0.0039
1,1-Dichloropropene	mg/kg	<0.0042	<0.0038	<0.0186	<0.0044	<0.0048	<0.0044	<0.0048	<0.0051	<0.0059	<0.0051	<0.0039	<0.0043	<0.0036	<0.0059	<0.0047	<0.0053	<0.0051	<0.0054	<0.0042	<0.0085	<0.0229	<0.0040	<0.0033	<0.0039
1,2,3-Trichlorobenzene	mg/kg	<0.0042	<0.0038	<0.0186	<0.0044	<0.0048	<0.0044	<0.0048	<0.0051	<0.0059	<0.0051	<0.0039	<0.0043	<0.0036	<0.0059	<0.0047	<0.0053	<0.0051	<0.0054	<0.0042	<0.0085	<0.0229	<0.0040	<0.0033	<0.0039
1,2,3-Trichloropropane	mg/kg	<0.0042	<0.0038	<0.0186	<0.0044	<0.0048	<0.0044	<0.0048	<0.0051	<0.0059	<0.0051	<0.0039	<0.0043	<0.0036	<0.0059	<0.0047	<0.0053	<0.0051	<0.0054	<0.0042	<0.0085	<0.0229	<0.0040	<0.0033	<0.0039
1,2,4-Trichlorobenzene	mg/kg	<0.0042	<0.0038	<0.0186	<0.0044	<0.0048	<0.0044	<0.0048	<0.0051	<0.0059	<0.0051	<0.0039	<0.0043	<0.0036	<0.0059	<0.0047	<0.0053	<0.0051	<0.0054	<0.0042	<0.0085	<0.0229	<0.0040	<0.0033	<0.0039
1,2,4-Trimethylbenzene	mg/kg	<0.0042	<0.0038	<0.0186	<0.0044	<0.0048	<0.0044	<0.0048	<0.0051	<0.0059	<0.0051	<0.0039	<0.0043	<0.0036	<0.0059	<0.0047	<0.0053	<0.0051	<0.0054	<0.0042	<0.0085	<0.0229	<0.0040	<0.0033	<0.0039
1,2-Dibromo-3-Chloropropane	mg/kg	<0.0042	<0.0038	<0.0186	<0.0044	<0.0048	<0.0044	<0.0048	<0.0051	<0.0059	<0.0051	<0.0039	<0.0043	<0.0036	<0.0059	<0.0047	<0.0053	<0.0051	<0.0054	<0.0042	<0.0085	<0.0229	<0.0040	<0.0033	<0.0039
1,2-Dibromoethane	mg/kg	<0.0042	<0.0038	<0.0186	<0.0044	<0.0048	<0.0044	<0.0048	<0.0051	<0.0059	<0.0051	<0.0039	<0.0043	<0.0036	<0.0059	<0.0047	<0.0053	<0.0051	<0.0054	<0.0042	<0.0085	<0.0229	<0.0040	<0.0033	<0.0039
1,2-Dichlorobenzene	mg/kg	<0.0042	<0.0038	<0.0186	<0.0044	<0.0048	<0.0044	<0.0048	<0.0051	<0.0059	<0.0051	<0.0039	<0.0043	<0.0036	<0.0059	<0.0047	<0.0053	<0.0051	<0.0054	<0.0042	<0.0085	<0.0229	<0.0040	<0.0033	<0.0039
1,2-Dichloroethane	mg/kg	<0.0042	<0.0038	<0.0186	<0.0044	<0.0048	<0.0044	<0.0048	<0.0051	<0.0059	<0.0051	<0.0039	<0.0043	<0.0036	<0.0059	<0.0047	<0.0053	<0.0051	<0.0054	<0.0042	<0.0085	<0.0229	<0.0040	<0.0033	<0.0039
1,2-Dichloropropane	mg/kg	<0.0042	<0.0038	<0.0186	<0.0044	<0.0048	<0.0044	<0.0048	<0.0051	<0.0059	<0.0051	<0.0039	<0.0043	<0.0036	<0.0059	<0.0047	<0.0053	<0.0051	<0.0054	<0.0042	<0.0085	<0.0229	<0.0040	<0.0033	<0.0039
1,3,5-Trimethylbenzene	mg/kg	<0.0042	<0.0038	<0.0186	<0.0044	<0.0048	<0.0044	<0.0048	<0.0051	<0.0059	<0.0051	<0.0039	<0.0043	<0.0036	<0.0059	<0.0047	<0.0053	<0.0051	<0.0054	<0.0042	<0.0085	<0.0229	<0.0040	<0.0033	<0.0039
1,3-Dichlorobenzene	mg/kg	<0.0042	<0.0038	<0.0186	<0.0044	<0.0048	<0.0044	<0.0048	<0.0051	<0.0059	<0.0051	<0.0039	<0.0043	<0.0036	<0.0059	<0.0047	<0.0053	<0.0051	<0.0054	<0.0042	<0.0085	<0.0229	<0.0040	<0.0033	<0.0039
1,3-Dichloropropane	mg/kg	<0.0042	<0.0038	<0.0186	<0.0044	<0.0048	<0.0044	<0.0048	<0.0051	<0.0059	<0.0051	<0.0039	<0.0043	<0.0036	<0.0059	<0.0047	<0.0053	<0.0051	<0.0054	<0.0042	<0.0085	<0.0229	<0.0040	<0.0033	<0.0039
1,4-Dichlorobenzene	mg/kg	<0.0042	<0.0038	<0.0186	<0.0044	<0.0048	<0.0044	<0.0048	<0.0051	<0.0059	<0.0051	<0.0039	<0.0043	<0.0036	<0.0059	<0.0047	<0.0053	<0.0051	<0.0054	<0.0042	<0.0085	<0.0229	<0.0040	<0.0033	<0.0039
1,4-Dioxane	mg/kg	<0.0836	<0.0750	<0.373	<0.0882	<0.0962	<0.0889	<0.0963	<0.102	<0.118	<0.101	<0.0778	<0.0865	<0.0728	<0.119	<0.0935	<0.105	<0.102	<0.108	<0.0834	<0.170	<0.457	<0.0801	<0.0670	<0.0777
2,2-Dichloropropane	mg/kg	<0.0042	<0.0038	<0.0186	<0.0044	<0.0048	<0.0044	<0.0048	<0.0051	<0.0059	<0.0051	<0.0039	<0.0043	<0.0036	<0.0059	<0.0047	<0.0053	<0.0051	<0.0054	<0.0042	<0.0085	<0.0229	<0.0040	<0.0033	<0.0039
2-Butanone	mg/kg	<0.0084	<0.0075	0.0558	<0.0088	<0.0096	<0.0089	<0.0096	<0.0102	<0.0118	<0.0101	<0.0078	<0.0086	<0.0073	<0.0119	<0.0094	<0.0105	<0.0102	<0.0108	<0.0083	0.0196	0.378	<0.0080	<0.0067	<0.0078
2-Chlorotoluene	mg/kg	<0.0042	<0.0038	<0.0186	<0.0044	<0.0048	<0.0044	<0.0048	<0.0051	<0.0059	<0.0051	<0.0039	<0.0043	<0.0036	<0.0059	<0.0047	<0.0053	<0.0051	<0.0054	<0.0042	<0.0085	<0.0229	<0.0040	<0.0033	<0.0039
2-Hexanone	mg/kg	<0.0084	<0.0075	<0.0373	<0.0088	<0.0096	<0.0089	<0.0096	<0.0102	<0.0118	<0.0101	<0.0078	<0.0086	<0.0073	<0.0119	<0.0094	<0.0105	<0.0102	<0.0108	<0.0083	<0.0170	<0.0457	<0.0080	<0.0067	<0.0078
4-Chlorotoluene	mg/kg	<0.0042	<0.0038	<0.0186	<0.0044	<0.0048	<0.0044	<0.0048	<0.0051	<0.0059	<0.0051	<0.0039	<0.0043	<0.0036	<0.0059	<0.0047	<0.0053	<0.0051	<0.0054	<0.0042	<0.0085	<0.0229	<0.0040	<0.0033	<0.0039
4-Isopropyltoluene	mg/kg	<0.0042	<0.0038	<0.0186	<0.0044	<0.0048	<0.0044	<0.0048	<0.0051	<0.0059	<0.0051	<0.0039	<0.0043	<0.0036	<0.0059	<0.0047	<0.0053	<0.0051	<0.0054	<0.0042	<0.0085	<0.0229	<0.0040	<0.0033	<0.0039
4-Methyl-2-Pentanone	mg/kg	<0.0084	<0.0075	<0.0373	<0.0088	<0.0096	<0.0089	<0.0096	<0.0102	<0.0118	<0.0101	<0.0078	<0.0086	<0.0073	<0.0119	<0.0094	<0.0105	<0.0102	<0.0108	<0.0083	<0.0170	<0.0457	<0.0080	<0.0067	<0.0078
Acetone	mg/kg	0.0121	0.0376	0.304	0.0157	0.025	<0.0089	0.0168	0.0731	0.0512	0.0112	0.016	0.0354	0.0216	0.0277	0.0113	0.0197	0.0383	0.0556	0.0589	0.126	3.02	0.0236	<0.0067	<0.0078
Benzene	mg/kg	<0.0042	<0.0038	0.109	<0.0044	<0.0048	<0.0044	<0.0048	0.0141	<0.0059	<0.0051	<0.0039	<0.0043	<0.0036	<0.0059	<0.0047	<0.0053	<0.0051	<0.0054	<0.0042	<0.0085	<0.0229	<0.0040	<0.0033	<0.0039
Bromobenzene	mg/kg	<0.0042	<0.0038	<0.0186	<0.0044	<0.0048	<0.0044	<0.0048	<0.0051	<0.0059	<0.0051	<0.0039	<0.0043	<0.0036	<0.0059	<0.0047	<0.0053	<0.0051	<0.0054	<0.0042	<0.0085	<0.0229	<0.0040	<0.0033	<0.0039
Bromochloromethane	mg/kg	<0.0042	<0.0038	<0.0186	<0.0044	<0.0048	<0.0044	<0.0048	<0.0051	<0.0059	<0.0051	<0.0039	<0.0043	<0.0036	<0.0059	<0.0047	<0.0053	<0.0051	<0.0054	<0.0042	<0.0085	<0.0229	<0.0040	<0.0033	<0.0039
Bromodichloromethane	mg/kg	<0.0042	<0.0038	<0.0186	<0.0044	<0.0048	<0.0044	<0.0048	<0.0051	<0.0059	<0.0051	<0.0039	<0.0043	<0.0036	<0.0059	<0.0047	<0.0053	<0.0051	<0.0054	<0.0042	<0.0085	<0.0229	<0.0040	<0.0033	<0.0039
Bromoform	mg/kg	<0.0042	<0.0038	<0.0186	<0.0044	<0.0048	<0.0044	<0.0048	<0.0051	<0.0059	<0.0051	<0.0039	<0.0043	<0.0036	<0.0059	<0.0047	<0.0053	<0.0051	<0.0054	<0.0042	<0.0085	<0.0229	<0.0040	<0.0033	<0.0039
Bromomethane	mg/kg	<0.0084	<0.0075	<0.0373	<0.0088	<0.0096	<0.0089	<0.0096	<0.0102	<0.0118	<0.0101	<0.0078	<0.0086	<0.0073	<0.0119	<0.0094	<0.0105	<0.0102	<0.0108	<0.0083	<0.0170	<0.0457	<0.0080	<0.0067	<0.0078
Carbon Disulfide	mg/kg	<0.0042	<0.0038	0.0677	0.0066	0.0084	<0.0044	<0.0048	<0.0051	<0.0059	<0.0051	<0.0039	<0.0043	0.0042	<0.0059	<0.0047	<0.0053	<0.0051	<0.0054	<0.0042	0.0533	0.687	<0.0040	<0.0033	<0.0039
Carbon Tetrachloride	mg/kg	<0.0042	<0.0038	<0.0186	<0.0044	<0.0048	<0.0044	<0.0048	<0.0051	<0.0059	<0.0051	<0.0039	<0.0043	<0.0036	<0.0059	<0.0047	<0.0053	<0.0051	<0.0054	<0.0042	<0.0085	<0.0229	<0.0040	<0.0033	<0.0039
Chlorobenzene	mg/kg	<0.0042	<0.0038	<0.0186	<0.0044	<0.0048	<0.0044	<0.0048	<0.0051	<0.0059	<0.0051	<0.0039	<0.0043	<0.0036	<0.0059	<0.0047	<0.0053	<0.0051	<0.0054	<0.0042	<0.0085	<0.0229	<0.0040	<0.0033	<0.0039
Chloroethane	mg/kg	<0.0084	<0.0075	<0.0373	<0.0088	<0.0096	<0.0089	<0.0096	<0.0102	<0.0118	<0.0101	<0.0078	<0.0086	<0.0073	<0.0119	<0.0094	<0.0105	<0.0102	<0.0108	<0.0083	<0.0170	<0.0457	<0.0080	<0.0067	<0.0078
Chloroform	mg/kg	<0.0042	<0.0038	<0.0186	<0.0044	<0.0048	<0.0044	<0.0048	<0.0051	<0.0059	<0.0051	<0.0039	<0.0043	<0.0036	<0.0059	<0.0047	<0.0053	<0.0051	<0.0054	<0.0042	<0.0085	<0.0229	<0.0040	<0.0033	<0.0039
Chloromethane	mg/kg	<0.0084	<0.0075	<0.0373	<0.0088	<0.0096	<0.0089	<0.0096	<0.0102	<0.0118	<0.0101	<0.0078	<0.0086	<0.0073	<0.0119	<0.0094	<0.0105	<0.0102	<0.0108	<0.0083	<0.0170	<0.0457	<0.0080	<0.0067	<0.0078
cis-1,2-Dichloroethene	mg/kg	<0.0042	<0.0038	<0.0186	<0.0044	<0.0048	<0.0044	<0.0048	<0.0051	<0.0059	<0.0051	<0.0039	<0.0043	<0.0036	<0.0059	<0.0047	<0.0053	<0.0051	<0.0054	<0.0042	<0.0085	<0.0229	<0.0040	<0.0033	<0.0039
cis-1,3-Dichloropropene	mg/kg	<0.0042	<0.0038	<0.0186	<0.0044	<0.0048	<0.0044	<0.0048	<0.0051	<0.0059	<0.0051	<0.0039	<0.0043	<0.0036	<0.0059	<0.0047	<0.0053	<0.0051	<0.0054	<0.0042	<0.0085	<0.0229	<0.0040	<0.0033	<0.0039
Dibromochloromethane	mg/kg	<0.0017	<0.0015	<0.0075	<0.0018	<0.0019	<0.0018	<0.0019	<0.0020	<0.0024	<0.0020	<0.0016	<0.0017	<0.0015	<0.0024	<0.0019	<0.0021	<0.0020	<0.0022	<0.0017	<0.0034	<0.0091	<0.0016	<0.0013	<0.0016
Dibromomethane	mg/kg	<0.0042	<0.0038	<0.0186	<0.0044	<0.0048	<0.0044	<0.0048	<0.0051	<0.0059	<0.0051	<0.0039	<0.0043	<0.0036	<0.0059	<0.0047	<0.0053	<0.0051	<0.0054	<0.0042	<0.0085	<0.0229	<0.0040	<0.0033	<0.0039
Dichlorodifluoromethane	mg/kg	<0.0084	<0.0075	<0.0373	<0.0088	<0.0096	<0.0089	<0.0096	<0.0102	<0.0118	<0.0101	<0.0078	<0.0086	<0.0073	<0.0119	<0.0094	<0.0105	<0.0102	<0.0108	<0.0083	<0.0170	<0.0457	<0.0080	<0.0067	<0.0078
Diethyl Ether	mg/kg	<0.0042	<0.0038	<0.0186	<0.0044	<0.0048	<0.0044	<0.0048	<0.0051	<0.0059	<0.0051	<0.0039	<0.0043	<0.0036	<0.0059	<0.0047	<0.0053	<0.0051	<0.0054	<0.0042	<0.0085	<0.0229	<0.0040	<0.0033	<0.0039
Di-isopropyl ether	mg/kg	<0.0042	<0.0038	<0.0186	<0.0044	<0.0048	<0.0044	<0.0048	<0.0051	<0.0059	<0.0051	<0.0039	<0.0043	<0.0036	<0.0059	<0.0047	<0.0053	<0.0051	<0.0054	<0.0042	<0.0085	<0.0229	<0.0040	<0.0033	<0.0039
Ethyl tertiary-butyl ether	mg/kg	<0.0042	<0.0038	<0.0186	<0.0044	<0.0048	<0.0044	<0.0048	<0.0051	<0.0059	<0.0051	<0.0039	<0.0043	<0.0036	<0.0059	<0.0047	<0.0053	<0.0051	<0.0054	<0.0042	<0.0085	<0.0229	<0.0040	<0.0033	<0.0039
Ethylbenzene	mg/kg	<0.0042	<0.0038	<0.0186	<0.0044	<0.0048	<0.0044	<0.0048	<0.0051	<0.0059	<0.0051	<0.0039	<0.0043	<0.0036	<0.0059	<0.0047	<0.0053	<0.0051	<0.0054	<0.0042	<0.0085	<0.0229	<0.0040	<0.0033	<0.0039
Hexachlorobutadiene	mg/kg	<0.0042	<0.0038	<0.0186	<0.0044	<0.0048	<0.0044	<0.0048	<0.0051	<0.0059	<0.0051	<0.0039	<0.0043	<0.0036	<0.0059	<0.0047	<0.0053	<0.0051	<0.0054	<0.0042	<0.0085	<0.0229	<0.0040	<0.0033	<0.0039
Isopropylbenzene	mg/kg	<0.0042	<0.0038	<0.0186	<0.0044	<0.0048	<0.0044	<0.0048	<0.0051	<0.0059	<0.0051	<0.0039	<0.0043	<0.0036	<0.0059	<0.0047	<0.0053	<0.0051	<0.0054	<0.0042	<0.0085	<0.0229	<0.0040	<0.0033	<0.0039
Methyl tert-Butyl Ether	mg/kg	<0.0042	<0.0038	<0.0186	<0.0044	<0.0048	<0.0044	<0.0048	<0.0051	<0.0059	<0.0051	<0.0039	<0.0043	<0.0036	<0.0059	<0.0047	<0.0053	<0.0051	<0.0054	<0.0042	<0.0085	<0.0229	<0.0040	<0.0033	<0.0039
Methylene Chloride	mg/kg	<0.0084	<0.0075	<0.0373	<0.0088	<0.0096	<0.0089	<0.0096	<0.0102	<0.0118	<0.0101	<0.0078	<0.0086	<0.0073	<0.0119	<0.0094	<0.0105	<0.0102	<0.0108	<0.0083	<0.0170	<0.0457	<0.0080	<0.0067	<0.0078
Naphthalene	mg/kg	<0.0042	<0.0038	<0.0186	<0.0044	0.0077	<0.0044	<0.0048	<0.0051	<0.0059	<0.0051	<0.0039	0.0069	<0.0036	<0.0059	<0.0047	<0.0053	<0.0051	<0.0054	<0.0042	<0.0085	<0.0229	<0.0040	<0.0033	<0.0039
n-Butylbenzene	mg/kg	<0.0042	<0.0038	<0.0186	<0.0044	<0.0048	<0.0044	<0.0048	<0.0051	<0.0059	<0.0051	<0.0039	<0.0043	<0.0036	<0.0059	<0.0047	<0.0053	<0.0051	<0.0054	<0.0042	<0.0085	<0.0229	<0.0040	<0.0033	<0.0039
n-Propylbenzene	mg/kg	<0.0042	<0.0038	<0.0186	<0.0044	<0.0048	<0.0044	<0.0048	<0.0051	<0.0059	<0.0051	<0.0039	<0.0043	<0.0036	<0.0059	<0.0047	<0.0053	<0.0051	<0.0054	<0.0042	<0.0085	<0.0229	<0.0040	<0.0033	<0.0039
sec-Butylbenzene	mg/kg	<0.0042	<0.0038	<0.0186	<0.0044	<0.0048	<0.0044	<0.0048	<0.0051	<0.0059	<0.0051	<0.0039	<0.0043	<0.0036	<0.0059	<0.0047	<0.0053	<0.0051	<0.0054	<0.0042	<0.0085	<0.0229	<0.0040	<0.0033	<0.0039

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Analyte		Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	K12 K12S04BS05 1501472 Fill 6.6 - 10 1/22/2015	K12 K12S06 1501472 Natural Sand/Gravel 10 - 12 1/22/2015	K12 K12S07 1501472 Natural Organics 14 - 16 1/22/2015	K12 K12S08 1501472 Natural Sand/Gravel 19 - 21 1/22/2015	K12 K12S09 1501490 Natural Clay 24 - 26 1/23/2015	K12 K12S10 1501490 Natural Clay 29 - 31 1/23/2015	K12 K12S11S12 1501490 Natural Clay 34 - 38 1/23/2015	K13 K13S01S02A 1502207 Fill 0 - 3.3 2/13/2015	K13 K13S02BS04A 1502207 Fill 3.3 - 6.6 2/13/2015	K13 K13S04B 1502207 Fill 6.6 - 8 2/13/2015	K13 K13S05S06 1502207 Natural Organics 8 - 12 2/13/2015	K13 K13S07 1502207 Natural Sand/Gravel 12 - 14 2/13/2015	K13 K13S08 1502207 Natural Sand/Gravel 19 - 21 2/13/2015	K13 K13S09 1502207 Natural Clay 24 - 26 2/13/2015	K13 K13S10 1502207 Natural Clay 29 - 31 2/13/2015	K13 K13S11S12 1502207 Natural Clay 34 - 38 2/13/2015	K14 K14S01S02A 1501472 Fill 0 - 3.3 1/22/2015	K14 K14S02BS04A 1501472 Fill 3.3 - 6.6 1/22/2015	K14 K14S04BS06 1501472 Fill 6.6 - 12 1/22/2015	K14 K14S07 1501472 Fill 12 - 14 1/22/2015	K14 K14S08 1501472 Natural Organics 19 - 21 1/22/2015	K14 K14S09 1501472 Natural Clay 24 - 26 1/22/2015	K14 K14S10 1501472 Natural Clay 29 - 31 1/22/2015	K14 K14S11S12 1501472 Natural Clay 34 - 38 1/22/2015
Preliminary Disposal Facility Category			Hazardous Material Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type B	Hazardous Material Type B	Hazardous Material Type B	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Restricted	MCP Restricted
Styrene	mg/kg		<0.0042	<0.0038	<0.0186	<0.0044	<0.0048	<0.0044	<0.0048	<0.0051	<0.0059	<0.0051	<0.0039	<0.0043	<0.0036	<0.0059	<0.0047	<0.0053	<0.0051	<0.0054	<0.0042	<0.0085	<0.0229	<0.0040	<0.0033	<0.0039
tert-Butylbenzene	mg/kg		<0.0042	<0.0038	<0.0186	<0.0044	<0.0048	<0.0044	<0.0048	<0.0051	<0.0059	<0.0051	<0.0039	<0.0043	<0.0036	<0.0059	<0.0047	<0.0053	<0.0051	<0.0054	<0.0042	<0.0085	<0.0229	<0.0040	<0.0033	<0.0039
Tertiary-amyl methyl ether	mg/kg		<0.0042	<0.0038	<0.0186	<0.0044	<0.0048	<0.0044	<0.0048	<0.0051	<0.0059	<0.0051	<0.0039	<0.0043	<0.0036	<0.0059	<0.0047	<0.0053	<0.0051	<0.0054	<0.0042	<0.0085	<0.0229	<0.0040	<0.0033	<0.0039
Tetrachloroethene	mg/kg		<0.0042	<0.0038	<0.0186	<0.0044	<0.0048	<0.0044	<0.0048	<0.0051	<0.0059	<0.0051	<0.0039	<0.0043	<0.0036	<0.0059	<0.0047	<0.0053	<0.0051	<0.0054	<0.0042	<0.0085	<0.0229	<0.0040	<0.0033	<0.0039
Tetrahydrofuran	mg/kg		<0.0042	<0.0038	<0.0186	<0.0044	<0.0048	<0.0044	<0.0048	<0.0051	<0.0059	<0.0051	<0.0039	<0.0043	<0.0036	<0.0059	<0.0047	<0.0053	<0.0051	<0.0054	<0.0042	<0.0085	<0.0229	<0.0040	<0.0033	<0.0039
Toluene	mg/kg		<0.0042	<0.0038	<0.0186	<0.0044	<0.0048	<0.0044	<0.0048	0.0166	<0.0059	<0.0051	<0.0039	<0.0043	<0.0036	<0.0059	<0.0047	<0.0053	<0.0051	<0.0054	<0.0042	<0.0085	<0.0229	<0.0040	<0.0033	<0.0039
trans-1,2-Dichloroethene	mg/kg		<0.0042	<0.0038	<0.0186	<0.0044	<0.0048	<0.0044	<0.0048	<0.0051	<0.0059	<0.0051	<0.0039	<0.0043	<0.0036	<0.0059	<0.0047	<0.0053	<0.0051	<0.0054	<0.0042	<0.0085	<0.0229	<0.0040	<0.0033	<0.0039
trans-1,3-Dichloropropene	mg/kg		<0.0042	<0.0038	<0.0186	<0.0044	<0.0048	<0.0044	<0.0048	<0.0051	<0.0059	<0.0051	<0.0039	<0.0043	<0.0036	<0.0059	<0.0047	<0.0053	<0.0051	<0.0054	<0.0042	<0.0085	<0.0229	<0.0040	<0.0033	<0.0039
Trichloroethene	mg/kg		<0.0042	<0.0038	<0.0186	<0.0044	<0.0048	<0.0044	<0.0048	<0.0051	<0.0059	<0.0051	<0.0039	<0.0043	<0.0036	<0.0059	<0.0047	<0.0053	<0.0051	<0.0054	<0.0042	<0.0085	<0.0229	<0.0040	<0.0033	<0.0039
Trichlorofluoromethane	mg/kg		<0.0042	<0.0038	<0.0186	<0.0044	<0.0048	<0.0044	<0.0048	<0.0051	<0.0059	<0.0051	<0.0039	<0.0043	<0.0036	<0.0059	<0.0047	<0.0053	<0.0051	<0.0054	<0.0042	<0.0085	<0.0229	<0.0040	<0.0033	<0.0039
Vinyl Chloride	mg/kg		<0.0084	<0.0075	<0.0373	<0.0088	<0.0096	<0.0089	<0.0096	<0.0102	<0.0118	<0.0101	<0.0078	<0.0086	<0.0073	<0.0119	<0.0094	<0.0105	<0.0102	<0.0108	<0.0083	<0.0170	<0.0457	<0.0080	<0.0067	<0.0078
Xylene O	mg/kg		<0.0042	<0.0038	<0.0186	<0.0044	<0.0048	<0.0044	<0.0048	<0.0051	<0.0059	<0.0051	<0.0039	<0.0043	<0.0036	<0.0059	<0.0047	<0.0053	<0.0051	<0.0054	<0.0042	<0.0085	<0.0229	<0.0040	<0.0033	<0.0039
Xylene P,M	mg/kg		<0.0084	<0.0075	<0.0373	<0.0088	<0.0096	<0.0089	<0.0096	<0.0102	<0.0118	<0.0101	<0.0078	<0.0086	<0.0073	<0.0119	<0.0094	<0.0105	<0.0102	<0.0108	<0.0083	<0.0170	<0.0457	<0.0080	<0.0067	<0.0078
Xylenes (Total)	mg/kg		<0.0084	<0.0075	<0.0373	<0.0088	<0.0096	<0.0089	<0.0096	<0.0102	<0.0118	<0.0101	<0.0078	<0.0086	<0.0073	<0.0119	<0.0094	<0.0105	<0.0102	<0.0108	<0.0083	<0.0170	<0.0457	<0.0080	<0.0067	<0.0078
Total VOCs (Low Level)	mg/kg		0.0121	0.0376	0.5365	0.0223	0.0411	ND	0.0168	0.1038	0.0512	0.0112	0.016	0.0423	0.0258	0.0277	0.0113	0.0197	0.0383	0.0556	0.0589	0.1989	4.085	0.0236	ND	ND
Semi-Volatile Organic Compounds																										
1,2,4-Trichlorobenzene	mg/kg		<4.65	<0.876	<4.79	<0.938	<1.02	<1.09	<1.07	<1.61	<0.877	<0.995	<0.972	<0.883	<0.869	<1.04	<0.960	<1.08	<0.901	<4.09	<1.05	<6.23	<6.70	<0.914	<1.08	<1.07
1,2-Dichlorobenzene	mg/kg		<4.65	<0.876	<4.79	<0.938	<1.02	<1.09	<1.07	<1.61	<0.877	<0.995	<0.972	<0.883	<0.869	<1.04	<0.960	<1.08	<0.901	<4.09	<1.05	<6.23	<6.70	<0.914	<1.08	<1.07
1,3-Dichlorobenzene	mg/kg		<4.65	<0.876	<4.79	<0.938	<1.02	<1.09	<1.07	<1.61	<0.877	<0.995	<0.972	<0.883	<0.869	<1.04	<0.960	<1.08	<0.901	<4.09	<1.05	<6.23	<6.70	<0.914	<1.08	<1.07
1,4-Dichlorobenzene	mg/kg		<2.33	<0.439	<2.40	<0.470	<0.514	<0.545	<0.538	<0.808	<0.440	<0.499	<0.487	<0.443	<0.436	<0.523	<0.481	<0.543	<0.452	<2.05	<0.525	<3.12	<3.36	<0.459	<0.540	<0.536
2,4,5-Trichlorophenol	mg/kg		<4.65	<0.876	<4.79	<0.938	<1.02	<1.09	<1.07	<1.61	<0.877	<0.995	<0.972	<0.883	<0.869	<1.04	<0.960	<1.08	<0.901	<4.09	<1.05	<6.23	<6.70	<0.914	<1.08	<1.07
2,4,6-Trichlorophenol	mg/kg		<4.65	<0.876	<4.79	<0.938	<1.02	<1.09	<1.07	<1.61	<0.877	<0.995	<0.972	<0.883	<0.869	<1.04	<0.960	<1.08	<0.901	<4.09	<1.05	<6.23	<6.70	<0.914	<1.08	<1.07
2,4-Dichlorophenol	mg/kg		<4.65	<0.876	<4.79	<0.938	<1.02	<1.09	<1.07	<1.61	<0.877	<0.995	<0.972	<0.883	<0.869	<1.04	<0.960	<1.08	<0.901	<4.09	<1.05	<6.23	<6.70	<0.914	<1.08	<1.07
2,4-Dimethylphenol	mg/kg		<4.65	<0.876	<4.79	<0.938	<1.02	<1.09	<1.07	<1.61	<0.877	<0.995	<0.972	<0.883	<0.869	<1.04	<0.960	<1.08	<0.901	<4.09	<1.05	<6.23	<6.70	<0.914	<1.08	<1.07
2,4-Dinitrophenol	mg/kg		<23.3	<4.39	<24.0	<4.70	<5.14	<5.45	<5.38	<8.08	<4.40	<4.99	<4.87	<4.43	<4.36	<5.23	<4.81	<5.43	<4.52	<20.5	<5.25	<31.2	<33.6	<4.59	<5.40	<5.36
2,4-Dinitrotoluene	mg/kg		<1.17	<0.876	<1.20	<0.938	<1.02	<1.09	<1.07	<1.61	<0.877	<0.995	<0.972	<0.883	<0.869	<1.04	<0.960	<1.08	<0.901	<1.03	<1.05	<1.56	<1.68	<0.914	<1.08	<1.07
2,6-Dinitrotoluene	mg/kg		<4.65	<0.876	<4.79	<0.938	<1.02	<1.09	<1.07	<1.61	<0.877	<0.995	<0.972	<0.883	<0.869	<1.04	<0.960	<1.08	<0.901	<4.09	<1.05	<6.23	<6.70	<0.914	<1.08	<1.07
2-Chloronaphthalene	mg/kg		<4.65	<0.876	<4.79	<0.938	<1.02	<1.09	<1.07	<1.61	<0.877	<0.995	<0.972	<0.883	<0.869	<1.04	<0.960	<1.08	<0.901	<4.09	<1.05	<6.23	<6.70	<0.914	<1.08	<1.07
2-Chlorophenol	mg/kg		<4.65	<0.876	<4.79	<0.938	<1.02	<1.09	<1.07	<1.61	<0.877	<0.995	<0.972	<0.883	<0.869	<1.04	<0.960	<1.08	<0.901	<4.09	<1.05	<6.23	<6.70	<0.914	<1.08	<1.07
2-Methylnaphthalene	mg/kg		<4.65	<0.876	<4.79	<0.938	<1.02	<1.09	<1.07	<1.61	<0.877	<0.995	<0.972	<0.883	<0.869	<1.04	<0.960	<1.08	<0.901	<4.09	<1.05	<6.23	<6.70	<0.914	<1.08	<1.07
2-Methylphenol	mg/kg		<4.65	<0.876	<4.79	<0.938	<1.02	<1.09	<1.07	<1.61	<0.877	<0.995	<0.972	<0.883	<0.869	<1.04	<0.960	<1.08	<0.901	<4.09	<1.05	<6.23	<6.70	<0.914	<1.08	<1.07
2-Nitrophenol	mg/kg		<4.65	<0.876	<4.79	<0.938	<1.02	<1.09	<1.07	<1.61	<0.877	<0.995	<0.972	<0.883	<0.869	<1.04	<0.960	<1.08	<0.901	<4.09	<1.05	<6.23	<6.70	<0.914	<1.08	<1.07
3,3´-Dichlorobenzidine	mg/kg		<9.32	<1.75	<9.60	<1.88	<2.05	<2.18	<2.15	<3.23	<1.76	<1.99	<1.95	<1.77	<1.74	<2.09	<1.92	<2.17	<1.81	<8.20	<2.10	<12.5	<13.4	<1.83	<2.16	<2.14
3+4-Methylphenol	mg/kg		<9.32	<1.75	<9.60	<1.88	<2.05	<2.18	<2.15	<3.23	<1.76	<1.99	<1.95	<1.77	<1.74	<2.09	<1.92	<2.17	<1.81	<8.20	<2.10	<12.5	75.4	<1.83	<2.16	<2.14
4-Bromophenyl-phenylether	mg/kg		<4.65	<0.876	<4.79	<0.938	<1.02	<1.09	<1.07	<1.61	<0.877	<0.995	<0.972	<0.883	<0.869	<1.04	<0.960	<1.08	<0.901	<4.09	<1.05	<6.23	<6.70	<0.914	<1.08	<1.07
4-Chloroaniline	mg/kg		<2.33	<1.75	<2.40	<1.88	<2.05	<2.18	<2.15	<3.23	<1.76	<1.99	<1.95	<1.77	<1.74	<2.09	<1.92	<2.17	<1.81	<2.05	<2.10	<3.12	<3.36	<1.83	<2.16	<2.14
4-Nitrophenol	mg/kg		<23.3	<4.39	<24.0	<4.70	<5.14	<5.45	<5.38	<8.08	<4.40	<4.99	<4.87	<4.43	<4.36	<5.23	<4.81	<5.43	<4.52	<20.5	<5.25	<31.2	<33.6	<4.59	<5.40	<5.36
Acenaphthene	mg/kg		<4.65	<0.876	<4.79	<0.938	<1.02	<1.09	<1.07	<1.61	1.38	<0.995	<0.972	<0.883	<0.869	<1.04	<0.960	<1.08	<0.901	<4.09	<1.05	<6.23	<6.70	<0.914	<1.08	<1.07
Acenaphthylene	mg/kg		<4.65	<0.876	<4.79	<0.938	<1.02	<1.09	<1.07	<1.61	<0.877	<0.995	<0.972	<0.883	<0.869	<1.04	<0.960	<1.08	<0.901	<4.09	<1.05	<6.23	<6.70	<0.914	<1.08	<1.07
Acetophenone	mg/kg		<9.32	<1.75	<9.60	<1.88	<2.05	<2.18	<2.15	<3.23	<1.76	<1.99	<1.95	<1.77	<1.74	<2.09	<1.92	<2.17	<1.81	<8.20	<2.10	<12.5	<13.4	<1.83	<2.16	<2.14
Aniline	mg/kg		<23.3	<4.39	<24.0	<4.70	<5.14	<5.45	<5.38	<8.08	<4.40	<4.99	<4.87	<4.43	<4.36	<5.23	<4.81	<5.43	<4.52	<20.5	<5.25	<31.2	<33.6	<4.59	<5.40	<5.36
Anthracene	mg/kg		9.51	<0.876	<4.79	<0.938	<1.02	<1.09	<1.07	<1.61	2.77	<0.995	<0.972	<0.883	<0.869	<1.04	<0.960	<1.08	<0.901	<4.09	<1.05	<6.23	<6.70	<0.914	<1.08	<1.07
Azobenzene	mg/kg		<4.65	<0.876	<4.79	<0.938	<1.02	<1.09	<1.07	<1.61	<0.877	<0.995	<0.972	<0.883	<0.869	<1.04	<0.960	<1.08	<0.901	<4.09	<1.05	<6.23	<6.70	<0.914	<1.08	<1.07
Benzo(a)anthracene	mg/kg		16.3	1.13	<4.79	<0.938	<1.02	<1.09	<1.07	<1.61	4.92	<0.995	<0.972	<0.883	<0.869	<1.04	<0.960	<1.08	1.24	<4.09	<1.05	<6.23	<6.70	<0.914	<1.08	<1.07
Benzo(a)pyrene	mg/kg		14.5	1.02	<2.40	<0.470	<0.514	<0.545	<0.538	<0.808	4.2	<0.499	<0.487	<0.443	<0.436	<0.523	<0.481	<0.543	1.08	<2.05	<0.525	<3.12	<3.36	<0.459	<0.540	<0.536
Benzo(b)fluoranthene	mg/kg		17.1	1.07	<4.79	<0.938	<1.02	<1.09	<1.07	<1.61	5.59	<0.995	<0.972	<0.883	<0.869	<1.04	<0.960	<1.08	2.49	<4.09	<1.05	<6.23	<6.70	<0.914	<1.08	<1.07
Benzo(g,h,i)perylene	mg/kg		8.61	<0.876	<4.79	<0.938	<1.02	<1.09	<1.07	<1.61	0.882	<0.995	<0.972	<0.883	<0.869	<1.04	<0.960	<1.08	<0.901	<4.09	<1.05	<6.23	<6.70	<0.914	<1.08	<1.07
Benzo(k)fluoranthene	mg/kg		6.03	<0.876	<4.79	<0.938	<1.02	<1.09	<1.07	<1.61	2.1	<0.995	<0.972	<0.883	<0.869	<1.04	<0.960	<1.08	<0.901	<4.09	<1.05	<6.23	<6.70	<0.914	<1.08	<1.07
bis(2-Chloroethoxy)methane	mg/kg		<4.65	<0.876	<4.79	<0.938	<1.02	<1.09	<1.07	<1.61	<0.877	<0.995	<0.972	<0.883	<0.869	<1.04	<0.960	<1.08	<0.901	<4.09	<1.05	<6.23	<6.70	<0.914	<1.08	<1.07
bis(2-Chloroethyl)ether	mg/kg		<0.461	<0.439	<0.475	<0.470	<0.514	<0.545	<0.538	<0.808	<0.440	<0.499	<0.487	<0.443	<0.436	<0.523	<0.481	<0.543	<0.452	<0.406	<0.525	<0.617	<0.664	<0.459	<0.540	<0.536
bis(2-chloroisopropyl)Ether	mg/kg		<0.461	<0.439	<0.475	<0.470	<0.514	<0.545	<0.538	<0.808	<0.440	<0.499	<0.487	<0.443	<0.436	<0.523	<0.481	<0.543	<0.452	<0.406	<0.525	<0.617	<0.664	<0.459	<0.540	<0.536
bis(2-Ethylhexyl)phthalate	mg/kg		<4.65	<0.876	<4.79	<0.938	<1.02	<1.09	<1.07	<1.61	<0.877	<0.995	<0.972	<0.883	<0.869	<1.04	<0.960	<1.08	2.5	<4.09	<1.05	<6.23	<6.70	<0.914	<1.08	<1.07
Butylbenzylphthalate	mg/kg		<4.65	<0.876	<4.79	<0.938	<1.02	<1.09	<1.07	<1.61	<0.877	<0.995	<0.972	<0.883	<0.869	<1.04	<0.960	<1.08	<0.901	<4.09	<1.05	<6.23	<6.70	<0.914	<1.08	<1.07
Chrysene	mg/kg		15.2	1.06	<2.40	<0.470	<0.514	<0.545	<0.538	<0.808	4.43	<0.499	0.568	<0.443	<0.436	<0.523	<0.481	<0.543	1.17	<2.05	<0.525	<3.12	<3.36	<0.459	<0.540	<0.536
Dibenzo(a,h)Anthracene	mg/kg		<2.33	<0.439	<2.40	<0.470	<0.514	<0.545	<0.538	<0.808	<0.440	<0.499	<0.487	<0.443	<0.436	<0.523	<0.481	<0.543	<0.452	<2.05	<0.525	<3.12	<3.36	<0.459	<0.540	<0.536
Dibenzofuran	mg/kg		<4.65	<0.876	<4.79	<0.938	<1.02	<1.09	<1.07	<1.61	1.34	<0.995	<0.972	<0.883	<0.869	<1.04	<0.960	<1.08	<0.901	<4.09	<1.05	<6.23	<6.70	<0.914	<1.08	<1.07
Diethylphthalate	mg/kg		<4.65	<0.876	<4.79	<0.938	<1.02	<1.09	<1.07	<1.61	<0.877	<0.995	<0.972	<0.883	<0.869	<1.04	<0.960	<1.08	<0.901	<4.09	<1.05	<6.23	<6.70	<0.914	<1.08	<1.07
Dimethylphthalate	mg/kg		<4.65	<0.876	<4.79	<0.938	<1.02	<1.09	<1.07	<1.61	<0.877	<0.995	<0.972	<0.883	<0.869	<1.04	<0.960	<1.08	<0.901	<4.09	<1.05	<6.23	<6.70	<0.914	<1.08	<1.07
Di-n-butylphthalate	mg/kg		<4.65	<0.876	<4.79	<0.938	<1.02	<1.09	<1.07	<1.61	<0.877	<0.995	<0.972	<0.883	<0.869	<1.04	<0.960	<1.08	<0.901	<4.09	<1.05	<6.23	<6.70	<0.914	<1.08	<1.07
Di-n-octylphthalate	mg/kg		<4.65	<0.876	<4.79	<0.938	<1.02	<1.09	<1.07	<1.61	<0.877	<0.995	<0.972	<0.883	<0.869	<1.04	<0.960	<1.08	<0.901	<4.09	<1.05	<6.23	<6.70	<0.914	<1.08	<1.07
Fluoranthene	mg/kg		35.5	2.94	<4.79	<0.938	<1.02	<1.09	<1.07	<1.61	9.83	<0.995	1.29	<0.883	<0.869	<1.04	<0.960	<1.08	2.13	<4.09	<1.05	<6.23	<6.70	<0.914	<1.08	<1.07
Fluorene	mg/kg		5.12	<0.876	<4.79	<0.938	<1.02	<1.09	<1.07	<1.61	2.55	<0.995	<0.972	<0.883	<0.869	<1.04	<0.960	<1.08	<0.901	<4.09	<1.05	<6.23	<6.70	<0.914	<1.08	<1.07
Hexachlorobenzene	mg/kg		<1.17	<0.439	<1.20	<0.470	<0.514	<0.545	<0.538	<0.808	<0.440	<0.499	<0.487	<0.443	<0.436	<0.523	<0.481	<0.543	<0.452	<1.03	<0.525	<1.56	<1.68	<0.459	<0.540	<0.536
Hexachlorobutadiene	mg/kg		<4.65	<0.876	<4.79	<0.938	<1.02	<1.09	<1.07	<1.61	<0.877	<0.995	<0.972	<0.883	<0.869	<1.04	<0.960	<1.08	<0.901	<4.09	<1.05	<6.23	<6.70	<0.914	<1.08	<1.07
Hexachloroethane	mg/kg		<2.33	<0.876	<2.40	<0.938	<1.02	<1.09	<1.07	<1.61	<0.877	<0.995	<0.972	<0.883	<0.869	<1.04	<0.960	<1.08	<0.901	<2.05	<1.05	<3.12	<3.36	<0.914	<1.08	<1.07
Indeno(1,2,3-cd)Pyrene	mg/kg		8.13	<0.876	<4.79	<0.938	<1.02	<1.09	<1.07	<1.61	0.967	<0.995	<0.972	<0.883	<0.869	<1.04	<0.960	<1.08	<0.901	<4.09	<1.05	<6.23	<6.70	<0.914	<1.08	<1.07
Isophorone	mg/kg		<4.65	<0.876	<4.79	<0.938	<1.02	<1.09	<1.07	<1.61	<0.877	<0.995	<0.972	<0.883	<0.869	<1.04	<0.960	<1.08	<0.901	<4.09	<1.05	<6.23	<6.70	<0.914	<1.08	<1.07
Naphthalene	mg/kg		<4.65	<0.876	<4.79	<0.938	<1.02	<1.09	<1.07	<1.61	2.71	<0.995	<0.972	<0.883	<0.869	<1.04	<0.960	<1.08	<0.901	<4.09	<1.05	<6.23	<6.70	<0.914	<1.08	<1.07
Nitrobenzene	mg/kg		<4.65	<0.876	<4.79	<0.938	<1.02	<1.09	<1.07	<1.61	<0.877	<0.995	<0.972	<0.883	<0.869	<1.04	<0.960	<1.08	<0.901	<4.09	<1.05	<6.23	<6.70	<0.914	<1.08	<1.07
N-Nitrosodimethylamine	mg/kg		<4.65	<0.876	<4.79	<0.938	<1.02	<1.09	<1.07	<1.61	<0.877	<0.995	<0.972	<0.883	<0.869	<1.04	<0.960	<1.08	<0.901	<4.09	<1.05	<6.23	<6.70	<0.914	<1.08	<1.07
Pentachlorophenol	mg/kg		<4.65	<4.39	<4.79	<4.70	<5.14	<5.45	<5.38	<8.08	<4.40	<4.99	<4.87	<4.43	<4.36	<5.23	<4.81	<5.43	<4.52	<4.09	<5.25	<6.23	<6.70	<4.59	<5.40	<5.36
Phenanthrene	mg/kg		33	2.71	<4.79	<0.938	<1.02	<1.09	<1.07	<1.61	12.1	<0.995	1.61	<0.883	<0.869	<1.04	<0.960	<1.08	<0.901	<4.09	<1.05	<6.23	<6.70	<0.914	<1.08	<1.07
Phenol	mg/kg		<4.65	<0.876	<4.79	<0.938	<1.02	<1.09	<1.07	<1.61	<0.877	<0.995	<0.972	<0.883	<0.869	<1.04	<0.960	<1.08	<0.901	<4.09	<1.05	<6.23	214	<0.914	<1.08	<1.07
Pyrene	mg/kg		31.9	2.1	<4.79	<0.938	<1.02	<1.09	<1.07	<1.61	8.11	<0.995	1	<0.883	<0.869	<1.04	<0.960	<1.08	2.09	<4.09	<1.05	<6.23	<6.70	<0.914	<1.08	<1.07
Total SVOCs	mg/kg		200.9	12.03	ND	ND	ND	ND	ND	ND	63.879	ND	4.468	ND	ND	ND	ND	ND	12.7	ND	ND	ND	289.4	ND	ND	ND
Classic Chemistry																										
Corrosivity (pH)	S.U.		4.71	6.18	8.3	4.93	4.86	6.86	6.99	8	7.28	5.8	4.45	5.04	6.09	4.54	6.69	6.91	8.96	4.79	4.86	4.18	8.95	6.42	6.52	6.99
Conductivity	umhos/cm		508	534	4660	1360	4290	5320	7180	203	1510	1430	1250	1050	791	4370	5070	5710	157	1140	558	1080	10600	1420	1800	1740
Flashpoint	°F		>200	--	--	--	--	--	--	>200	>200	>200	--	--	--	--	--	--	>200	>200	>200	>200	--	--	--	--
Reactive Cyanide	mg/kg		<2.0	--	--	--	--	--	--	<2.0	<2.0	<2.0	--	--	--	--	--	--	<2.0	<2.0	<2.0	<2.0	--	--	--	--
Reactive Sulfide	mg/kg		<2.0	--	--	--	--	--	--	<2.0	<2.0	<2.0	--	--	--	--	--	--	<2.0	<2.0	<2.0	<2.0	--	--	--	--

Table 1
Soil Precharacterization Data

Wynn Resort Casino
Everett, Massachusetts

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	K15 K15S01S02 1502125 Fill 0 - 2.25 2/10/2015	K15 K15S03 1502125 Fill 6 - 6.6 2/10/2015	K15 K15S04 1502125 Fill 8 - 10 2/10/2015	K15 K15S05S06A 1502125 Fill 10 - 13 2/10/2015	K15 K15S06B 1502125 Natural Sand/Gravel 13 - 14 2/10/2015	K15 K15S07 1502141 Natural Organics 19 - 21 2/11/2015	K15 K15S08 1502141 Natural Clay 24 - 26 2/11/2015	K15 K15S09 1502186 Natural Clay 29 - 31 2/12/2015	K15 K15S10S11 1502186 Natural Clay 34 - 38 2/12/2015	K16 K16S01 1501435 Fill 0 - 2 1/21/2015	K16 K16S02S03 1501435 Fill 5 - 9 1/21/2015	K16 K16S04 1501435 Natural Organics 10 - 12 1/21/2015	K16 K16S05 1501435 Natural Organics 14 - 16 1/21/2015	K16 K16S06 1501435 Natural Organics 19 - 21 1/21/2015	K16 K16S07 1501435 Natural Clay 24 - 26 1/21/2015	K16 K16S08 1501435 Natural Clay 29 - 31 1/21/2015	K16 K16S09S10 1501435 Natural Clay 34 - 38 1/21/2015	K17 K17S01S02A 1502307 Fill 0 - 3.3 2/20/2015	K17 K17S02BS04A 1502307 Fill 3.3 - 6.6 2/20/2015	K17 K17S04B 1502307 Fill 6.6 - 8 2/20/2015	K17 K17S05S06 1502333 Natural Organics 8 - 12 2/23/2015	K17 K17S07 1502333 Natural Organics 14 - 16 2/23/2015	K17 K17S08 1502333 Natural Organics 19 - 21 2/23/2015	K17 K17S09 1502333 Natural Organics 24 - 26 2/23/2015
Preliminary Disposal Facility Category		MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type B	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type B-1
RCRA 8 Metals	**Units**																							
Arsenic	mg/kg	<6.80	252	68.8	138	12.9	<31.2	19.9	12.7	14.9	<6.97	187	191	<34.6	<26.3	13.7	13.8	<7.68	<6.54	98.8	47.3	28.9	<19.2	<11.6	<8.73
Barium	mg/kg	32.6	46.2	42.5	73.7	38.3	<31.2	124	100	97.6	33.8	109	193	<34.6	<26.3	81.4	66.2	19.3	37	109	62	40.4	33.6	52.2	29.3
Cadmium	mg/kg	<1.36	3.58	<1.78	3.01	<1.44	<6.24	<1.49	<1.69	<1.68	<1.39	2.38	<3.91	<6.92	<5.27	<1.67	<1.34	<1.54	<1.31	<1.54	<1.49	<2.30	<3.84	<2.31	<1.75
Chromium	mg/kg	20.6	32	29.6	27.8	12	17.8	77.3	54.5	54.5	29	46.5	36	21	15	47.6	39.3	16.3	16.4	38.2	50.6	36.7	33.6	45.8	26.5
Lead	mg/kg	25.8	1460	312	2180	162	<62.4	<14.9	<16.9	<16.8	16.9	822	591	<69.2	<52.7	<16.7	13.5	<15.4	46.2	817	391	28	<38.4	<23.1	<17.5
Selenium	mg/kg	<6.80	<9.86	<8.92	44.9	<7.19	<15.6	<7.43	<8.46	<8.38	<6.97	<8.95	<19.6	<17.3	<13.2	<8.35	<6.69	<15.4	<6.54	<7.70	<7.47	<11.5	<19.2	<11.6	<8.73
Silver	mg/kg	<1.36	4.17	<1.78	3.13	<1.44	<6.24	<1.49	<1.69	<1.68	<1.39	2.36	<3.91	<6.92	<5.27	<1.67	<1.34	<1.54	<1.31	<1.54	<1.49	<2.30	<3.84	<2.31	<1.75
Mercury	mg/kg	<0.034	2	2.62	2.78	0.342	<0.156	<0.042	<0.040	<0.042	<0.033	0.596	0.195	<0.146	<0.129	<0.037	<0.034	<0.037	0.193	0.544	0.815	<0.068	<0.089	<0.066	<0.044
Metals by Toxicity Characteristic Leaching Procedure (TCLP)																									
Arsenic	mg/L	--	<0.050	--	<0.050	--	--	--	--	--	--	0.064	<0.050	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead	mg/L	--	<0.050	<0.050	6.19	1.78	--	--	--	--	--	4.05	<0.050	--	--	--	--	--	--	0.145	<0.050	--	--	--	--
Selenium	mg/L	--	--	--	<0.050	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Herbicides																									
2,4,5-T	mg/kg	<0.055	<0.087	<0.059	<0.065	--	--	--	--	--	<0.84	<0.31	--	--	<0.16	--	--	--	<0.057	<0.066	<0.068	<0.089	--	--	--
2,4-D	mg/kg	<0.055	<0.087	<0.059	<0.065	--	--	--	--	--	<4.2	<1.6	--	--	<0.81	--	--	--	<0.057	<0.066	<0.068	<0.089	--	--	--
2,4-DB	mg/kg	<0.055	<0.087	<0.059	<0.065	--	--	--	--	--	<0.31	<0.12	--	--	<0.061	--	--	--	<0.057	<0.066	<0.068	<0.089	--	--	--
Dalapon	mg/kg	<0.66	<1.1	<0.72	<0.79	--	--	--	--	--	<25	<9.4	--	--	<4.9	--	--	--	<0.69	<0.79	<0.82	<1.1	--	--	--
Dicamba	mg/kg	<0.055	<0.087	<0.059	<0.065	--	--	--	--	--	<1.3	<0.47	--	--	<0.24	--	--	--	<0.057	<0.066	<0.068	<0.089	--	--	--
Dichlorprop	mg/kg	<0.055	<0.087	<0.059	<0.065	--	--	--	--	--	<2.7	<1.0	--	--	<0.53	--	--	--	<0.057	<0.066	<0.068	<0.089	--	--	--
Dinoseb	mg/kg	<0.33	<0.53	<0.36	<0.39	--	--	--	--	--	<4.2	<1.6	--	--	<0.81	--	--	--	<0.35	<0.40	<0.41	<0.54	--	--	--
MCPA	mg/kg	<13	<21	<14	<16	--	--	--	--	--	<1000	<390	--	--	<200	--	--	--	<14	<16	<16	<21	--	--	--
MCPP	mg/kg	<13	<21	<14	<16	--	--	--	--	--	<1000	<390	--	--	<200	--	--	--	<14	<16	<16	<21	--	--	--
Silvex (2,4,5-TP)	mg/kg	<0.055	<0.087	<0.059	<0.065	--	--	--	--	--	<0.84	<0.31	--	--	<0.16	--	--	--	<0.057	<0.066	<0.068	<0.089	--	--	--
Pesticides																									
4,4'-DDD	mg/kg	<0.018	<0.0030	<0.0021	<0.0023	--	--	--	--	--	<0.0088	<0.0051	--	--	<0.0070	--	--	--	<0.0099	<0.0022	<0.0024	<0.0031	--	--	--
4,4'-DDE	mg/kg	<0.018	<0.0030	<0.0021	<0.0023	--	--	--	--	--	<0.0088	<0.0051	--	--	<0.0070	--	--	--	<0.0099	<0.0022	<0.0024	<0.0031	--	--	--
4,4'-DDT	mg/kg	<0.018	<0.0030	<0.0021	<0.0023	--	--	--	--	--	<0.0088	<0.0051	--	--	<0.0070	--	--	--	<0.0099	<0.0022	<0.0024	<0.0031	--	--	--
Aldrin	mg/kg	<0.018	<0.0029	<0.0020	<0.0023	--	--	--	--	--	<0.0088	<0.0051	--	--	<0.0070	--	--	--	<0.0099	<0.0022	<0.0024	<0.0031	--	--	--
alpha-BHC	mg/kg	<0.018	<0.0029	<0.0020	<0.0023	--	--	--	--	--	<0.0088	<0.0051	--	--	<0.0070	--	--	--	<0.0099	<0.0022	<0.0024	<0.0031	--	--	--
beta-BHC	mg/kg	<0.018	<0.0029	<0.0020	<0.0023	--	--	--	--	--	<0.0088	<0.0051	--	--	<0.0070	--	--	--	<0.0099	<0.0022	<0.0024	<0.0031	--	--	--
Chlordane (technical)	mg/kg	<0.18	<0.029	<0.020	<0.023	--	--	--	--	--	<0.088	<0.051	--	--	<0.070	--	--	--	<0.099	<0.022	<0.024	<0.031	--	--	--
delta-BHC	mg/kg	<0.018	<0.0029	<0.0020	<0.0023	--	--	--	--	--	<0.0088	<0.0051	--	--	<0.0070	--	--	--	<0.0099	<0.0022	<0.0024	<0.0031	--	--	--
Dieldrin	mg/kg	<0.018	<0.0029	<0.0020	<0.0023	--	--	--	--	--	<0.0088	<0.0051	--	--	<0.0070	--	--	--	<0.0099	<0.0022	<0.0024	<0.0031	--	--	--
Endosulfan I	mg/kg	<0.018	<0.0029	<0.0020	<0.0023	--	--	--	--	--	<0.0088	<0.0051	--	--	<0.0070	--	--	--	<0.0099	<0.0022	<0.0024	<0.0031	--	--	--
Endosulfan II	mg/kg	<0.018	<0.0029	<0.0020	<0.0023	--	--	--	--	--	<0.0088	<0.0051	--	--	<0.0070	--	--	--	<0.0099	<0.0022	<0.0024	<0.0031	--	--	--
Endosulfan sulfate	mg/kg	<0.018	<0.0029	<0.0020	<0.0023	--	--	--	--	--	<0.0088	<0.0051	--	--	<0.0070	--	--	--	<0.0099	<0.0022	<0.0024	<0.0031	--	--	--
Endrin	mg/kg	<0.018	<0.0029	<0.0020	<0.0023	--	--	--	--	--	<0.0088	<0.0051	--	--	<0.0070	--	--	--	<0.0099	<0.0022	<0.0024	<0.0031	--	--	--
Endrin ketone	mg/kg	<0.018	<0.0029	<0.0020	<0.0023	--	--	--	--	--	<0.0088	<0.0051	--	--	<0.0070	--	--	--	<0.0099	<0.0022	<0.0024	<0.0031	--	--	--
gamma-BHC (Lindane)	mg/kg	<0.018	<0.0029	<0.0020	<0.0023	--	--	--	--	--	<0.0088	<0.0051	--	--	<0.0070	--	--	--	<0.0099	<0.0022	<0.0024	<0.0031	--	--	--
Heptachlor	mg/kg	<0.018	<0.0029	<0.0020	<0.0023	--	--	--	--	--	<0.0088	<0.0051	--	--	<0.0070	--	--	--	<0.0099	<0.0022	<0.0024	<0.0031	--	--	--
Heptachlor epoxide	mg/kg	<0.018	<0.0029	<0.0020	<0.0023	--	--	--	--	--	<0.0088	<0.0051	--	--	<0.0070	--	--	--	<0.0099	<0.0022	<0.0024	<0.0031	--	--	--
Hexachlorobenzene	mg/kg	<0.018	<0.0029	<0.0020	<0.0023	--	--	--	--	--	<0.0088	<0.0051	--	--	<0.0070	--	--	--	<0.0099	<0.0022	<0.0024	<0.0031	--	--	--
Methoxychlor	mg/kg	<0.018	<0.0029	<0.0020	<0.0023	--	--	--	--	--	<0.0088	<0.0051	--	--	<0.0070	--	--	--	<0.0099	<0.0022	<0.0024	<0.0031	--	--	--
Polychlorinated Biphenyls																									
Aroclor 1016	mg/kg	<0.136	<0.225	<0.165	<0.175	<0.152	<0.585	<0.163	<0.158	<0.170	<0.131	<0.182	<0.389	<0.671	<0.499	<0.155	<0.153	<0.148	<0.137	<0.169	<0.141	<0.258	<0.371	<0.261	<0.177
Aroclor 1221	mg/kg	<0.136	<0.225	<0.165	<0.175	<0.152	<0.585	<0.163	<0.158	<0.170	<0.131	<0.182	<0.389	<0.671	<0.499	<0.155	<0.153	<0.148	<0.137	<0.169	<0.141	<0.258	<0.371	<0.261	<0.177
Aroclor 1232	mg/kg	<0.136	<0.225	<0.165	<0.175	<0.152	<0.585	<0.163	<0.158	<0.170	<0.131	<0.182	<0.389	<0.671	<0.499	<0.155	<0.153	<0.148	<0.137	<0.169	<0.141	<0.258	<0.371	<0.261	<0.177
Aroclor 1242	mg/kg	<0.136	<0.225	<0.165	<0.175	<0.152	<0.585	<0.163	<0.158	<0.170	<0.131	<0.182	<0.389	<0.671	<0.499	<0.155	<0.153	<0.148	<0.137	<0.169	<0.141	<0.258	<0.371	<0.261	<0.177
Aroclor 1248	mg/kg	<0.136	<0.225	<0.165	<0.175	<0.152	<0.585	<0.163	<0.158	<0.170	<0.131	<0.182	<0.389	<0.671	<0.499	<0.155	<0.153	<0.148	<0.137	<0.169	<0.141	<0.258	<0.371	<0.261	<0.177
Aroclor 1254	mg/kg	<0.136	<0.225	<0.165	<0.175	<0.152	<0.585	<0.163	<0.158	<0.170	<0.131	<0.182	<0.389	<0.671	<0.499	<0.155	<0.153	<0.148	0.157	<0.169	<0.141	<0.258	<0.371	<0.261	<0.177
Aroclor 1260	mg/kg	<0.136	<0.225	<0.165	<0.175	<0.152	<0.585	<0.163	<0.158	<0.170	<0.131	<0.182	<0.389	<0.671	<0.499	<0.155	<0.153	<0.148	0.139	<0.169	<0.141	<0.258	<0.371	<0.261	<0.177
Aroclor 1262	mg/kg	<0.136	<0.225	<0.165	<0.175	<0.152	<0.585	<0.163	<0.158	<0.170	<0.131	<0.182	<0.389	<0.671	<0.499	<0.155	<0.153	<0.148	<0.137	<0.169	<0.141	<0.258	<0.371	<0.261	<0.177
Aroclor 1268	mg/kg	<0.136	<0.225	<0.165	<0.175	<0.152	<0.585	<0.163	<0.158	<0.170	<0.131	<0.182	<0.389	<0.671	<0.499	<0.155	<0.153	<0.148	<0.137	<0.169	<0.141	<0.258	<0.371	<0.261	<0.177
Total PCBs	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.296	ND	ND	ND	ND	ND	ND
Total Petroleum Hydrocarbons	mg/kg	120	479	87.1	624	<50.1	2650	<51.0	<51.5	<50.2	653	1200	670	2400	2590	66	50.2	<46.6	91.5	127	87	<81.6	629	<82.8	<55.6
Volatile Organic Compounds (VOCs)																									
1,1,1,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-Chloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane - Screen	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Butanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Isopropyltoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-Pentanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Disulfide	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 1
Soil Precharacterization Data

Wynn Resort Casino
Everett, Massachusetts

Analyte	Precharacterization Cell	K15	K15	K15	K15	K15	K15	K15	K15	K15	K16	K16	K16	K16	K16	K16	K16	K16	K17	K17	K17	K17	K17	K17	K17
	Sample ID	K15S01S02	K15S03	K15S04	K15S05S06A	K15S06B	K15S07	K15S08	K15S09	K15S10S11	K16S01	K16S02S03	K16S04	K16S05	K16S06	K16S07	K16S08	K16S09S10	K17S01S02A	K17S02BS04A	K17S04B	K17S05S06	K17S07	K17S08	K17S09
	Laboratory Work Order	1502125	1502125	1502125	1502125	1502125	1502141	1502141	1502186	1502186	1501435	1501435	1501435	1501435	1501435	1501435	1501435	1501435	1502307	1502307	1502307	1502333	1502333	1502333	1502333
	Soil Distinction	Fill	Fill	Fill	Fill	Natural Sand/Gravel	Natural Organics	Natural Clay	Natural Clay	Natural Clay	Fill	Fill	Natural Organics	Natural Organics	Natural Organics	Natural Organics	Natural Clay	Natural Clay	Fill	Fill	Fill	Fill	Natural Organics	Natural Organics	Natural Organics	Natural Organics
	Depth Interval (ft.)	0 - 2.25	6 - 6.6	8 - 10	10 - 13	13 - 14	19 - 21	24 - 26	29 - 31	34 - 38	0 - 2	5 - 9	10 - 12	14 - 16	19 - 21	24 - 26	29 - 31	34 - 38	0 - 3.3	3.3 - 6.6	6.6 - 8	8 - 12	14 - 16	19 - 21	24 - 26
	Sampling Date	2/10/2015	2/10/2015	2/10/2015	2/10/2015	2/10/2015	2/11/2015	2/11/2015	2/12/2015	2/12/2015	1/21/2015	1/21/2015	1/21/2015	1/21/2015	1/21/2015	1/21/2015	1/21/2015	1/21/2015	2/20/2015	2/20/2015	2/20/2015	2/23/2015	2/23/2015	2/23/2015	2/23/2015	2/23/2015
Preliminary Disposal Facility Category		MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type B	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type B-1
Chlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Diethyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Di-isopropyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethyl tertiary-butyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
tert-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tertiary-amyl methyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene O	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene P,M	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylenes (Total)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total VOCs	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds - Low Level Analysis																									
1,1,1,2-Tetrachloroethane	mg/kg	<0.0117	<0.0072	<0.0044	<0.0038	<0.0038	<0.0320	<0.0052	<0.0067	<0.0047	<0.0052	<0.0076	<0.0162	<0.0282	<0.0186	<0.0044	<0.0043	<0.0037	<0.0041	<0.0054	<0.0033	<0.0074	<0.0124	<0.0091	<0.0049
1,1,1-Trichloroethane	mg/kg	<0.0117	<0.0072	<0.0044	<0.0038	<0.0038	<0.0320	<0.0052	<0.0067	<0.0047	<0.0052	<0.0076	<0.0162	<0.0282	<0.0186	<0.0044	<0.0043	<0.0037	<0.0041	<0.0054	<0.0033	<0.0074	<0.0124	<0.0091	<0.0049
1,1,2,2-Tetrachloroethane	mg/kg	<0.0047	<0.0029	<0.0017	<0.0015	<0.0015	<0.0128	<0.0021	<0.0027	<0.0019	<0.0021	<0.0030	<0.0065	<0.0113	<0.0074	<0.0018	<0.0017	<0.0015	<0.0016	<0.0022	<0.0013	<0.0030	<0.0049	<0.0036	<0.0020
1,1,2-Trichloroethane	mg/kg	<0.0117	<0.0072	<0.0044	<0.0038	<0.0038	<0.0320	<0.0052	<0.0067	<0.0047	<0.0052	<0.0076	<0.0162	<0.0282	<0.0186	<0.0044	<0.0043	<0.0037	<0.0041	<0.0054	<0.0033	<0.0074	<0.0124	<0.0091	<0.0049
1,1-Dichloroethane	mg/kg	<0.0117	<0.0072	<0.0044	<0.0038	<0.0038	<0.0320	<0.0052	<0.0067	<0.0047	<0.0052	<0.0076	<0.0162	<0.0282	<0.0186	<0.0044	<0.0043	<0.0037	<0.0041	<0.0054	<0.0033	<0.0074	<0.0124	<0.0091	<0.0049
1,1-Dichloroethene	mg/kg	<0.0117	<0.0072	<0.0044	<0.0038	<0.0038	<0.0320	<0.0052	<0.0067	<0.0047	<0.0052	<0.0076	<0.0162	<0.0282	<0.0186	<0.0044	<0.0043	<0.0037	<0.0041	<0.0054	<0.0033	<0.0074	<0.0124	<0.0091	<0.0049
1,1-Dichloropropene	mg/kg	<0.0117	<0.0072	<0.0044	<0.0038	<0.0038	<0.0320	<0.0052	<0.0067	<0.0047	<0.0052	<0.0076	<0.0162	<0.0282	<0.0186	<0.0044	<0.0043	<0.0037	<0.0041	<0.0054	<0.0033	<0.0074	<0.0124	<0.0091	<0.0049
1,2,3-Trichlorobenzene	mg/kg	<0.0117	<0.0072	<0.0044	<0.0038	<0.0038	<0.0320	<0.0052	<0.0067	<0.0047	<0.0052	<0.0076	<0.0162	<0.0282	<0.0186	<0.0044	<0.0043	<0.0037	<0.0041	<0.0054	<0.0033	<0.0074	<0.0124	<0.0091	<0.0049
1,2,3-Trichloropropane	mg/kg	<0.0117	<0.0072	<0.0044	<0.0038	<0.0038	<0.0320	<0.0052	<0.0067	<0.0047	<0.0052	<0.0076	<0.0162	<0.0282	<0.0186	<0.0044	<0.0043	<0.0037	<0.0041	<0.0054	<0.0033	<0.0074	<0.0124	<0.0091	<0.0049
1,2,4-Trichlorobenzene	mg/kg	<0.0117	<0.0072	<0.0044	<0.0038	<0.0038	<0.0320	<0.0052	<0.0067	<0.0047	<0.0052	<0.0076	<0.0162	<0.0282	<0.0186	<0.0044	<0.0043	<0.0037	<0.0041	<0.0054	<0.0033	<0.0074	<0.0124	<0.0091	<0.0049
1,2,4-Trimethylbenzene	mg/kg	<0.0117	<0.0072	<0.0044	<0.0038	<0.0038	<0.0320	<0.0052	<0.0067	<0.0047	<0.0052	<0.0076	<0.0162	<0.0282	<0.0186	<0.0044	<0.0043	<0.0037	<0.0041	<0.0054	<0.0033	<0.0074	<0.0124	<0.0091	<0.0049
1,2-Dibromo-3-Chloropropane	mg/kg	<0.0117	<0.0072	<0.0044	<0.0038	<0.0038	<0.0320	<0.0052	<0.0067	<0.0047	<0.0052	<0.0076	<0.0162	<0.0282	<0.0186	<0.0044	<0.0043	<0.0037	<0.0041	<0.0054	<0.0033	<0.0074	<0.0124	<0.0091	<0.0049
1,2-Dibromoethane	mg/kg	<0.0117	<0.0072	<0.0044	<0.0038	<0.0038	<0.0320	<0.0052	<0.0067	<0.0047	<0.0052	<0.0076	<0.0162	<0.0282	<0.0186	<0.0044	<0.0043	<0.0037	<0.0041	<0.0054	<0.0033	<0.0074	<0.0124	<0.0091	<0.0049
1,2-Dichlorobenzene	mg/kg	<0.0117	<0.0072	<0.0044	<0.0038	<0.0038	<0.0320	<0.0052	<0.0067	<0.0047	<0.0052	<0.0076	<0.0162	<0.0282	<0.0186	<0.0044	<0.0043	<0.0037	<0.0041	<0.0054	<0.0033	<0.0074	<0.0124	<0.0091	<0.0049
1,2-Dichloroethane	mg/kg	<0.0117	<0.0072	<0.0044	<0.0038	<0.0038	<0.0320	<0.0052	<0.0067	<0.0047	<0.0052	<0.0076	<0.0162	<0.0282	<0.0186	<0.0044	<0.0043	<0.0037	<0.0041	<0.0054	<0.0033	<0.0074	<0.0124	<0.0091	<0.0049
1,2-Dichloropropane	mg/kg	<0.0117	<0.0072	<0.0044	<0.0038	<0.0038	<0.0320	<0.0052	<0.0067	<0.0047	<0.0052	<0.0076	<0.0162	<0.0282	<0.0186	<0.0044	<0.0043	<0.0037	<0.0041	<0.0054	<0.0033	<0.0074	<0.0124	<0.0091	<0.0049
1,3,5-Trimethylbenzene	mg/kg	<0.0117	<0.0072	<0.0044	<0.0038	<0.0038	<0.0320	<0.0052	<0.0067	<0.0047	<0.0052	<0.0076	<0.0162	<0.0282	<0.0186	<0.0044	<0.0043	<0.0037	<0.0041	<0.0054	<0.0033	<0.0074	<0.0124	<0.0091	<0.0049
1,3-Dichlorobenzene	mg/kg	<0.0117	<0.0072	<0.0044	<0.0038	<0.0038	<0.0320	<0.0052	<0.0067	<0.0047	<0.0052	<0.0076	<0.0162	<0.0282	<0.0186	<0.0044	<0.0043	<0.0037	<0.0041	<0.0054	<0.0033	<0.0074	<0.0124	<0.0091	<0.0049
1,3-Dichloropropane	mg/kg	<0.0117	<0.0072	<0.0044	<0.0038	<0.0038	<0.0320	<0.0052	<0.0067	<0.0047	<0.0052	<0.0076	<0.0162	<0.0282	<0.0186	<0.0044	<0.0043	<0.0037	<0.0041	<0.0054	<0.0033	<0.0074	<0.0124	<0.0091	<0.0049
1,4-Dichlorobenzene	mg/kg	<0.0117	<0.0072	<0.0044	<0.0038	<0.0038	<0.0320	<0.0052	<0.0067	<0.0047	<0.0052	<0.0076	<0.0162	<0.0282	<0.0186	<0.0044	<0.0043	<0.0037	<0.0041	<0.0054	<0.0033	<0.0074	<0.0124	<0.0091	<0.0049
1,4-Dioxane	mg/kg	<0.235	<0.144	<0.0872	<0.0752	<0.0770	<0.641	<0.104	<0.134	<0.0941	<0.104	<0.151	<0.323	<0.565	<0.372	<0.0882	<0.0869	<0.0747	<0.0822	<0.108	<0.0660	<0.148	<0.247	<0.181	<0.0981
2,2-Dichloropropane	mg/kg	<0.0117	<0.0072	<0.0044	<0.0038	<0.0038	<0.0320	<0.0052	<0.0067	<0.0047	<0.0052	<0.0076	<0.0162	<0.0282	<0.0186	<0.0044	<0.0043	<0.0037	<0.0041	<0.0054	<0.0033	<0.0074	<0.0124	<0.0091	<0.0049
2-Butanone	mg/kg	<0.0235	<0.0144	<0.0087	<0.0075	<0.0077	0.525	<0.0104	<0.0134	<0.0094	<0.0104	<0.0151	0.0881	0.261	0.0758	<0.0088	<0.0087	<0.0075	<0.0082	0.0146	<0.0066	<0.0148	<0.0247	<0.0181	<0.0098
2-Chlorotoluene	mg/kg	<0.0117	<0.0072	<0.0044	<0.0038	<0.0038	<0.0320	<0.0052	<0.0067	<0.0047	<0.0052	<0.0076	<0.0162	<0.0282	<0.0186	<0.0044	<0.0043	<0.0037	<0.0041	<0.0054	<0.0033	<0.0074	<0.0124	<0.0091	<0.0049
2-Hexanone	mg/kg	<0.0235	<0.0144	<0.0087	<0.0075	<0.0077	<0.0641	<0.0104	<0.0134	<0.0094	<0.0104	<0.0151	<0.0323	<0.0565	<0.0372	<0.0088	<0.0087	<0.0075	<0.0082	<0.0108	<0.0066	<0.0148	<0.0247	<0.0181	<0.0098
4-Chlorotoluene	mg/kg	<0.0117	<0.0072	<0.0044	<0.0038	<0.0038	<0.0320	<0.0052	<0.0067	<0.0047	<0.0052	<0.0076	<0.0162	<0.0282	<0.0186	<0.0044	<0.0043	<0.0037	<0.0041	<0.0054	<0.0033	<0.0074	<0.0124	<0.0091	<0.0049
4-Isopropyltoluene	mg/kg	<0.0117	<0.0072	<0.0044	<0.0038	<0.0038	<0.0320	<0.0052	<0.0067	<0.0047	<0.0052	<0.0076	<0.0162	<0.0282	<0.0186	<0.0044	<0.0043	<0.0037	<0.0041	<0.0054	<0.0033	<0.0074	<0.0124	<0.0091	<0.0049
4-Methyl-2-Pentanone	mg/kg	<0.0235	<0.0144	<0.0087	<0.0075	<0.0077	<0.0641	<0.0104	<0.0134	<0.0094	<0.0104	<0.0151	<0.0323	<0.0565	<0.0372	<0.0088	<0.0087	<0.0075	<0.0082	<0.0108	<0.0066	<0.0148	<0.0247	<0.0181	<0.0098
Acetone	mg/kg	<0.0235	<0.0144	<0.0087	<0.0075	0.008	6.02	0.0423	0.0191	<0.0094	0.0394	0.0201	0.464	1.75	0.918	0.0172	<0.0087	0.0141	<0.0082	0.0935	0.0397	0.0798	0.0869	0.0363	0.0131
Benzene	mg/kg	<0.0117	<0.0072	<0.0044	<0.0038	<0.0038	<0.0320	<0.0052	<0.0067	<0.0047	<0.0052	<0.0076	<0.0162	<0.0282	<0.0186	<0.0044	<0.0043	<0.0037	<0.0041	<0.0054	<0.0033	<0.0074	<0.0124	<0.0091	<0.0049
Bromobenzene	mg/kg	<0.0117	<0.0072	<0.0044	<0.0038	<0.0038	<0.0320	<0.0052	<0.0067	<0.0047	<0.0052	<0.0076	<0.0162	<0.0282	<0.0186	<0.0044	<0.0043	<0.0037	<0.0041	<0.0054	<0.0033	<0.0074	<0.0124	<0.0091	<0.0049
Bromochloromethane	mg/kg	<0.0117	<0.0072	<0.0044	<0.0038	<0.0038	<0.0320	<0.0052	<0.0067	<0.0047	<0.0052	<0.0076	<0.0162	<0.0282	<0.0186	<0.0044	<0.0043	<0.0037	<0.0041	<0.0054	<0.0033	<0.0074	<0.0124	<0.0091	<0.0049
Bromodichloromethane	mg/kg	<0.0117	<0.0072	<0.0044	<0.0038	<0.0038	<0.0320	<0.0052	<0.0067	<0.0047	<0.0052	<0.0076	<0.0162	<0.0282	<0.0186	<0.0044	<0.0043	<0.0037	<0.0041	<0.0054	<0.0033	<0.0074	<0.0124	<0.0091	<0.0049
Bromoform	mg/kg	<0.0117	<0.0072	<0.0044	<0.0038	<0.0038	<0.0320	<0.0052	<0.0067	<0.0047	<0.0052	<0.0076	<0.0162	<0.0282	<0.0186	<0.0044	<0.0043	<0.0037	<0.0041	<0.0054	<0.0033	<0.0074	<0.0124	<0.0091	<0.0049
Bromomethane	mg/kg	<0.0235	<0.0144	<0.0087	<0.0075	<0.0077	<0.0641	<0.0104	<0.0134	<0.0094	<0.0104	<0.0151	<0.0323	<0.0565	<0.0372	<0.0088	<0.0087	<0.0075	<0.0082	<0.0108	<0.0066	<0.0148	<0.0247	<0.0181	<0.0098
Carbon Disulfide	mg/kg	<0.0117	<0.0072	<0.0044	<0.0038	<0.0038	0.066	<0.0052	<0.0067	<0.0047	<0.0052	<0.0076	<0.0162	0.0342	0.0348	<0.0044	<0.0043	<0.0037	<0.0041	<0.0054	<0.0033	<0.0074	0.0401	0.0266	0.0066
Carbon Tetrachloride	mg/kg	<0.0117	<0.0072	<0.0044	<0.0038	<0.0038	<0.0320	<0.0052	<0.0067	<0.0047	<0.0052	<0.0076	<0.0162	<0.0282	<0.0186	<0.0044	<0.0043	<0.0037	<0.0041	<0.0054	<0.0033	<0.0074	<0.0124	<0.0091	<0.0049
Chlorobenzene	mg/kg	<0.0117	<0.0072	<0.0044	<0.0038	<0.0038	<0.0320	<0.0052	<0.0067	<0.0047	<0.0052	<0.0076	<0.0162	<0.0282	<0.0186	<0.0044	<0.0043	<0.0037	<0.0041	<0.0054	<0.0033	<0.0074	<0.0124	<0.0091	<0.0049
Chloroethane	mg/kg	<0.0235	<0.0144	<0.0087	<0.0075	<0.0077	<0.0641	<0.0104	<0.0134	<0.0094	<0.0104	<0.0151	<0.0323	<0.0565	<0.0372	<0.0088	<0.0087	<0.0075	<0.0082	<0.0108	<0.0066	<0.0148	<0.0247	<0.0181	<0.0098
Chloroform	mg/kg	<0.0117	<0.0072	<0.0044	<0.0038	<0.0038	<0.0320	<0.0052	<0.0067	<0.0047	<0.0052	<0.0076	<0.0162	<0.0282	<0.0186	<0.0044	<0.0043	<0.0037	<0.0041	<0.0054	<0.0033	<0.0074	<0.0124	<0.0091	<0.0049
Chloromethane	mg/kg	<0.0235	<0.0144	<0.0087	<0.0075	<0.0077	<0.0641	<0.0104	<0.0134	<0.0094	<0.0104	<0.0151	<0.0323	<0.0565	<0.0372	<0.0088	<0.0087	<0.0075	<0.0082	<0.0108	<0.0066	<0.0148	<0.0247	<0.0181	<0.0098
cis-1,2-Dichloroethene	mg/kg	<0.0117	<0.0072	<0.0044	<0.0038	<0.0038	<0.0320	<0.0052	<0.0067	<0.0047	<0.0052	<0.0076	<0.0162	<0.0282	<0.0186	<0.0044	<0.0043	<0.0037	<0.0041	<0.0054	<0.0033	<0.0074	<0.0124	<0.0091	<0.0049
cis-1,3-Dichloropropene	mg/kg	<0.0117	<0.0072	<0.0044	<0.0038	<0.0038	<0.0320	<0.0052	<0.0067	<0.0047	<0.0052	<0.0076	<0.0162	<0.0282	<0.0186	<0.0044	<0.0043	<0.0037	<0.0041	<0.0054	<0.0033	<0.0074	<0.0124	<0.0091	<0.0049
Dibromochloromethane	mg/kg	<0.0047	<0.0029	<0.0017	<0.0015	<0.0015	<0.0128	<0.0021	<0.0027	<0.0019	<0.0021	<0.0030	<0.0065	<0.0113	<0.0074	<0.0018	<0.0017	<0.0015	<0.0016	<0.0022	<0.0013	<0.0030	<0.0049	<0.0036	<0.0020
Dibromomethane	mg/kg	<0.0117	<0.0072	<0.0044	<0.0038	<0.0038	<0.0320	<0.0052	<0.0067	<0.0047	<0.0052	<0.0076	<0.0162	<0.0282	<0.0186	<0.0044	<0.0043	<0.0037	<0.0041	<0.0054	<0.0033	<0.0074	<0.0124	<0.0091	<0.0049
Dichlorodifluoromethane	mg/kg	<0.0235	<0.0144	<0.0087	<0.0075	<0.0077	<0.0641	<0.0104	<0.0134	<0.0094	<0.0104	<0.0151	<0.0323	<0.0565	<0.0372	<0.0088	<0.0087	<0.0075	<0.0082	<0.0108	<0.0066	<0.0148	<0.0247	<0.0181	<0.0098
Diethyl Ether	mg/kg	<0.0117	<0.0072	<0.0044	<0.0038	<0.0038	<0.0320	<0.0052	<0.0067	<0.0047	<0.0052	<0.0076	<0.0162	<0.0282	<0.0186	<0.0044	<0.0043	<0.0037	<0.0041	<0.0054	<0.0033	<0.0074	<0.0124	<0.0091	<0.0049
Di-isopropyl ether	mg/kg	<0.0117	<0.0072	<0.0044	<0.0038	<0.0038	<0.0320	<0.0052	<0.0067	<0.0047	<0.0052	<0.0076	<0.0162	<0.0282	<0.0186	<0.0044	<0.0043	<0.0037	<0.0041	<0.0054	<0.0033	<0.0074	<0.0124	<0.0091	<0.0049
Ethyl tertiary-butyl ether	mg/kg	<0.0117	<0.0072	<0.0044	<0.0038	<0.0038	<0.0320	<0.0052	<0.0067	<0.0047	<0.0052	<0.0076	<0.0162	<0.0282	<0.0186	<0.0044	<0.0043	<0.0037	<0.0041	<0.0054	<0.0033	<0.0074	<0.0124	<0.0091	<0.0049
Ethylbenzene	mg/kg	<0.0117	<0.0072	<0.0044	<0.0038	<0.0038	0.1	<0.0052	<0.0067	<0.0047	<0.0052	<0.0076	<0.0162	<0.0282	<0.0186	<0.0044	<0.0043	<0.0037	<0.0041	<0.0054	<0.0033	<0.0074	<0.0124	<0.0091	<0.0049
Hexachlorobutadiene	mg/kg	<0.0117	<0.0072	<0.0044	<0.0038	<0.0038	<0.0320	<0.0052	<0.0067	<0.0047	<0.0052	<0.0076	<0.0162	<0.0282	<0.0186	<0.0044	<0.0043	<0.0037	<0.0041	<0.0054	<0.0033	<0.0074	<0.0124	<0.0091	<0.0049
Isopropylbenzene	mg/kg	<0.0117	<0.0072	<0.0044	<0.0038	<0.0038	<0.0320	<0.0052	<0.0067	<0.0047	<0.0052	<0.0076	<0.0162	<0.0282	<0.0186	<0.0044	<0.0043	<0.0037	<0.0041	<0.0054	<0.0033	<0.0074	<0.0124	<0.0091	<0.0049
Methyl tert-Butyl Ether	mg/kg	<0.0117	<0.0072	<0.0044	<0.0038	<0.0038	<0.0320	<0.0052	<0.0067	<0.0047	<0.0052	<0.0076	<0.0162	<0.0282	<0.0186	<0.0044	<0.0043	<0.0037	<0.0041	<0.0054	<0.0033	<0.0074	<0.0124	<0.0091	<0.0049
Methylene Chloride	mg/kg	<0.0235	<0.0144	<0.0087	<0.0075	<0.0077	<0.0641	<0.0104	<0.0134	<0.0094	<0.0104	<0.0151	<0.0323	<0.0565	<0.0372	<0.0088	<0.0087	<0.0075	<0.0082	<0.0108	<0.0066	<0.0148	<0.0247	<0.0181	<0.0098
Naphthalene	mg/kg	<0.0117	<0.0072	<0.0044	<0.0038	<0.0038	<0.0320	<0.0052	<0.0067	<0.0047	<0.0052	<0.0076	<0.0162	<0.0282	<0.0186	<0.0044	<0.0043	<0.0037	<0.0041	<0.0054	<0.0033	<0.0074	<0.0124	<0.0091	<0.0049
n-Butylbenzene	mg/kg	<0.0117	<0.0072	<0.0044	<0.0038	<0.0038	<0.0320	<0.0052	<0.0067	<0.0047	<0.0052	<0.0076	<0.0162	<0.0282	<0.0186	<0.0044	<0.0043	<0.0037	<0.0041	<0.0054	<0.0033	<0.0074	<0.0124	<0.0091	<0.0049
n-Propylbenzene	mg/kg	<0.0117	<0.0072	<0.0044	<0.0038	<0.0038	<0.0320	<0.0052	<0.0067	<0.0047	<0.0052	<0.0076	<0.0162	<0.0282	<0.0186	<0.0044	<0.0043	<0.0037	<0.0041	<0.0054	<0.0033	<0.0074	<0.0124	<0.0091	<0.0049
sec-Butylbenzene	mg/kg	<0.0117	<0.0072	<0.0044	<0.0038	<0.0038	<0.0320	<0.0052	<0.0067	<0.0047	<0.0052	<0.0076	<0.0162	<0.0282	<0.0186	<0.0044	<0.0043	<0.0037	<0.0041	<0.0054	<0.0033	<0.0074	<0.0124	<0.0091	<0.0049

Table 1
Soil Precharacterization Data

Wynn Resort Casino
Everett, Massachusetts

Analyte	Precharacterization Cell	K15	K15	K15	K15	K15	K15	K15	K15	K15	K16	K16	K16	K16	K16	K16	K16	K16	K17	K17	K17	K17	K17	K17	K17
	Sample ID	K15S01S02	K15S03	K15S04	K15S05S06A	K15S06B	K15S07	K15S08	K15S09	K15S10S11	K16S01	K16S02S03	K16S04	K16S05	K16S06	K16S07	K16S08	K16S09S10	K17S01S02A	K17S02BS04A	K17S04B	K17S05S06	K17S07	K17S08	K17S09
	Laboratory Work Order	1502125	1502125	1502125	1502125	1502125	1502141	1502141	1502186	1502186	1501435	1501435	1501435	1501435	1501435	1501435	1501435	1501435	1502307	1502307	1502307	1502333	1502333	1502333	1502333
	Soil Distinction	Fill	Fill	Fill	Fill	Natural Sand/Gravel	Natural Organics	Natural Clay	Natural Clay	Natural Clay	Fill	Fill	Natural Organics	Natural Organics	Natural Organics	Natural Organics	Natural Clay	Natural Clay	Fill	Fill	Fill	Fill	Natural Organics	Natural Organics	Natural Organics	Natural Organics
	Soil Type																								
	Depth Interval (ft.)	0 - 2.25	6 - 6.6	8 - 10	10 - 13	13 - 14	19 - 21	24 - 26	29 - 31	34 - 38	0 - 2	5 - 9	10 - 12	14 - 16	19 - 21	24 - 26	29 - 31	34 - 38	0 - 3.3	3.3 - 6.6	6.6 - 8	A	8 - 12	14 - 16	19 - 21	24 - 26
	Sampling Date	2/10/2015	2/10/2015	2/10/2015	2/10/2015	2/10/2015	2/11/2015	2/11/2015	2/12/2015	2/12/2015	1/21/2015	1/21/2015	1/21/2015	1/21/2015	1/21/2015	1/21/2015	1/21/2015	1/21/2015	2/20/2015	2/20/2015	2/20/2015	2/23/2015	2/23/2015	2/23/2015	2/23/2015	2/23/2015
Preliminary Disposal Facility Category		MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type B	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type B-1
Styrene	mg/kg	<0.0117	<0.0072	<0.0044	<0.0038	<0.0038	<0.0320	<0.0052	<0.0067	<0.0047	<0.0052	<0.0076	<0.0162	<0.0282	<0.0186	<0.0044	<0.0043	<0.0037	<0.0041	<0.0054	<0.0033	<0.0074	<0.0124	<0.0091	<0.0049
tert-Butylbenzene	mg/kg	<0.0117	<0.0072	<0.0044	<0.0038	<0.0038	<0.0320	<0.0052	<0.0067	<0.0047	<0.0052	<0.0076	<0.0162	<0.0282	<0.0186	<0.0044	<0.0043	<0.0037	<0.0041	<0.0054	<0.0033	<0.0074	<0.0124	<0.0091	<0.0049
Tertiary-amyl methyl ether	mg/kg	<0.0117	<0.0072	<0.0044	<0.0038	<0.0038	<0.0320	<0.0052	<0.0067	<0.0047	<0.0052	<0.0076	<0.0162	<0.0282	<0.0186	<0.0044	<0.0043	<0.0037	<0.0041	<0.0054	<0.0033	<0.0074	<0.0124	<0.0091	<0.0049
Tetrachloroethene	mg/kg	<0.0117	<0.0072	<0.0044	<0.0038	<0.0038	<0.0320	<0.0052	<0.0067	<0.0047	<0.0052	<0.0076	<0.0162	<0.0282	<0.0186	<0.0044	<0.0043	<0.0037	<0.0041	<0.0054	<0.0033	<0.0074	<0.0124	<0.0091	<0.0049
Tetrahydrofuran	mg/kg	<0.0117	<0.0072	<0.0044	<0.0038	<0.0038	<0.0320	<0.0052	<0.0067	<0.0047	<0.0052	<0.0076	<0.0162	<0.0282	<0.0186	<0.0044	<0.0043	<0.0037	<0.0041	<0.0054	<0.0033	<0.0074	<0.0124	<0.0091	<0.0049
Toluene	mg/kg	<0.0117	<0.0072	<0.0044	<0.0038	<0.0038	0.35	<0.0052	<0.0067	<0.0047	<0.0052	<0.0076	<0.0162	0.0377	0.0314	<0.0044	<0.0043	<0.0037	<0.0041	<0.0054	<0.0033	<0.0074	<0.0124	<0.0091	<0.0049
trans-1,2-Dichloroethene	mg/kg	<0.0117	<0.0072	<0.0044	<0.0038	<0.0038	<0.0320	<0.0052	<0.0067	<0.0047	<0.0052	<0.0076	<0.0162	<0.0282	<0.0186	<0.0044	<0.0043	<0.0037	<0.0041	<0.0054	<0.0033	<0.0074	<0.0124	<0.0091	<0.0049
trans-1,3-Dichloropropene	mg/kg	<0.0117	<0.0072	<0.0044	<0.0038	<0.0038	<0.0320	<0.0052	<0.0067	<0.0047	<0.0052	<0.0076	<0.0162	<0.0282	<0.0186	<0.0044	<0.0043	<0.0037	<0.0041	<0.0054	<0.0033	<0.0074	<0.0124	<0.0091	<0.0049
Trichloroethene	mg/kg	<0.0117	<0.0072	<0.0044	<0.0038	<0.0038	<0.0320	<0.0052	<0.0067	<0.0047	<0.0052	<0.0076	<0.0162	<0.0282	<0.0186	<0.0044	<0.0043	<0.0037	<0.0041	<0.0054	<0.0033	<0.0074	<0.0124	<0.0091	<0.0049
Trichlorofluoromethane	mg/kg	<0.0117	<0.0072	<0.0044	<0.0038	<0.0038	<0.0320	<0.0052	<0.0067	<0.0047	<0.0052	<0.0076	<0.0162	<0.0282	<0.0186	<0.0044	<0.0043	<0.0037	<0.0041	<0.0054	<0.0033	<0.0074	<0.0124	<0.0091	<0.0049
Vinyl Chloride	mg/kg	<0.0235	<0.0144	<0.0087	<0.0075	<0.0077	<0.0641	<0.0104	<0.0134	<0.0094	<0.0104	<0.0151	<0.0323	<0.0565	<0.0372	<0.0088	<0.0087	<0.0075	<0.0082	<0.0108	<0.0066	<0.0148	<0.0247	<0.0181	<0.0098
Xylene O	mg/kg	<0.0117	<0.0072	<0.0044	<0.0038	<0.0038	<0.0320	<0.0052	<0.0067	<0.0047	<0.0052	<0.0076	<0.0162	<0.0282	<0.0186	<0.0044	<0.0043	<0.0037	<0.0041	<0.0054	<0.0033	<0.0074	<0.0124	<0.0091	<0.0049
Xylene P,M	mg/kg	<0.0235	<0.0144	<0.0087	<0.0075	<0.0077	<0.0641	<0.0104	<0.0134	<0.0094	<0.0104	<0.0151	<0.0323	<0.0565	<0.0372	<0.0088	<0.0087	<0.0075	<0.0082	<0.0108	<0.0066	<0.0148	<0.0247	<0.0181	<0.0098
Xylenes (Total)	mg/kg	<0.0235	<0.0144	<0.0087	<0.0075	<0.0077	<0.0641	<0.0104	<0.0134	<0.0094	<0.0104	<0.0151	<0.0323	<0.0565	<0.0372	<0.0088	<0.0087	<0.0075	<0.0082	<0.0108	<0.0066	<0.0148	<0.0247	<0.0181	<0.0098
Total VOCs (Low Level)	mg/kg	ND	ND	ND	ND	0.008	7.061	0.0423	0.0191	ND	0.0394	0.0201	0.5521	2.0829	1.06	0.0172	ND	0.0141	ND	0.1081	0.0397	0.0798	0.127	0.0629	0.0197
Semi-Volatile Organic Compounds																									
1,2,4-Trichlorobenzene	mg/kg	<4.60	<1.42	<1.09	<2.30	<1.02	<3.50	<1.07	<1.03	<1.13	<0.858	<4.37	<5.03	<5.65	<6.54	<1.04	<1.02	<0.973	<0.898	<1.12	<1.04	<1.71	<2.40	<1.71	<1.11
1,2-Dichlorobenzene	mg/kg	<4.60	<1.42	<1.09	<2.30	<1.02	<3.50	<1.07	<1.03	<1.13	<0.858	<4.37	<5.03	<5.65	<6.54	<1.04	<1.02	<0.973	<0.898	<1.12	<1.04	<1.71	<2.40	<1.71	<1.11
1,3-Dichlorobenzene	mg/kg	<4.60	<1.42	<1.09	<2.30	<1.02	<3.50	<1.07	<1.03	<1.13	<0.858	<4.37	<5.03	<5.65	<6.54	<1.04	<1.02	<0.973	<0.898	<1.12	<1.04	<1.71	<2.40	<1.71	<1.11
1,4-Dichlorobenzene	mg/kg	<2.31	<0.711	<0.547	<1.15	<0.512	<1.75	<0.538	<0.518	<0.565	<0.430	<2.19	<2.52	<2.84	<3.28	<0.523	<0.512	<0.488	<0.450	<0.562	<0.522	<0.858	<1.20	<0.856	<0.558
2,4,5-Trichlorophenol	mg/kg	<4.60	<1.42	<1.09	<2.30	<1.02	<3.50	<1.07	<1.03	<1.13	<0.858	<4.37	<5.03	<5.65	<6.54	<1.04	<1.02	<0.973	<0.898	<1.12	<1.04	<1.71	<2.40	<1.71	<1.11
2,4,6-Trichlorophenol	mg/kg	<4.60	<1.42	<1.09	<2.30	<1.02	<3.50	<1.07	<1.03	<1.13	<0.858	<4.37	<5.03	<5.65	<6.54	<1.04	<1.02	<0.973	<0.898	<1.12	<1.04	<1.71	<2.40	<1.71	<1.11
2,4-Dichlorophenol	mg/kg	<4.60	<1.42	<1.09	<2.30	<1.02	<3.50	<1.07	<1.03	<1.13	<0.858	<4.37	<5.03	<5.65	<6.54	<1.04	<1.02	<0.973	<0.898	<1.12	<1.04	<1.71	<2.40	<1.71	<1.11
2,4-Dimethylphenol	mg/kg	<4.60	<1.42	<1.09	<2.30	<1.02	<3.50	<1.07	<1.03	<1.13	<0.858	<4.37	<5.03	<5.65	<6.54	<1.04	<1.02	<0.973	<0.898	<1.12	<1.04	<1.71	<2.40	<1.71	<1.11
2,4-Dinitrophenol	mg/kg	<23.1	<7.11	<5.47	<11.5	<5.12	<17.5	<5.38	<5.18	<5.65	<4.30	<21.9	<25.2	<28.4	<32.8	<5.23	<5.12	<4.88	<4.50	<5.62	<5.22	<8.58	<12.0	<8.56	<5.58
2,4-Dinitrotoluene	mg/kg	<1.15	<1.42	<1.09	<0.576	<1.02	<0.877	<1.07	<1.03	<1.13	<0.858	<2.19	<2.52	<1.41	<1.63	<1.04	<1.02	<0.973	<0.898	<1.12	<1.04	<0.429	<0.602	<0.428	<1.11
2,6-Dinitrotoluene	mg/kg	<4.60	<1.42	<1.09	<2.30	<1.02	<3.50	<1.07	<1.03	<1.13	<0.858	<4.37	<5.03	<5.65	<6.54	<1.04	<1.02	<0.973	<0.898	<1.12	<1.04	<1.71	<2.40	<1.71	<1.11
2-Chloronaphthalene	mg/kg	<4.60	<1.42	<1.09	<2.30	<1.02	<3.50	<1.07	<1.03	<1.13	<0.858	<4.37	<5.03	<5.65	<6.54	<1.04	<1.02	<0.973	<0.898	<1.12	<1.04	<1.71	<2.40	<1.71	<1.11
2-Chlorophenol	mg/kg	<4.60	<1.42	<1.09	<2.30	<1.02	<3.50	<1.07	<1.03	<1.13	<0.858	<4.37	<5.03	<5.65	<6.54	<1.04	<1.02	<0.973	<0.898	<1.12	<1.04	<1.71	<2.40	<1.71	<1.11
2-Methylnaphthalene	mg/kg	<4.60	<1.42	<1.09	<2.30	<1.02	<3.50	<1.07	<1.03	<1.13	<0.858	<4.37	<5.03	<5.65	<6.54	<1.04	<1.02	<0.973	<0.898	<1.12	<1.04	<1.71	<2.40	<1.71	<1.11
2-Methylphenol	mg/kg	<4.60	<1.42	<1.09	<2.30	<1.02	<3.50	<1.07	<1.03	<1.13	<0.858	<4.37	<5.03	<5.65	<6.54	<1.04	<1.02	<0.973	<0.898	<1.12	<1.04	<1.71	<2.40	<1.71	<1.11
2-Nitrophenol	mg/kg	<4.60	<1.42	<1.09	<2.30	<1.02	<3.50	<1.07	<1.03	<1.13	<0.858	<4.37	<5.03	<5.65	<6.54	<1.04	<1.02	<0.973	<0.898	<1.12	<1.04	<1.71	<2.40	<1.71	<1.11
3,3'-Dichlorobenzidine	mg/kg	<9.22	<2.84	<2.18	<4.60	<2.05	<7.01	<2.15	<2.07	<2.26	<1.72	<8.76	<5.03	<5.65	<6.54	<2.09	<2.04	<1.95	<1.80	<2.24	<2.09	<3.43	<4.81	<3.42	<2.23
3+4-Methylphenol	mg/kg	<9.22	<2.84	<2.18	<4.60	<2.05	76.7	<2.15	<2.07	<2.26	<1.72	<8.76	<10.1	26.2	53.4	<2.09	<2.04	<1.95	<1.80	<2.24	<2.09	<3.43	<4.81	<3.42	<2.23
4-Bromophenyl-phenylether	mg/kg	<4.60	<1.42	<1.09	<2.30	<1.02	<3.50	<1.07	<1.03	<1.13	<0.858	<4.37	<5.03	<5.65	<6.54	<1.04	<1.02	<0.973	<0.898	<1.12	<1.04	<1.71	<2.40	<1.71	<1.11
4-Chloroaniline	mg/kg	<2.31	<2.84	<2.18	<1.15	<2.05	<1.75	<2.15	<2.07	<2.26	<1.72	<2.19	<1.25	<1.41	<1.63	<2.09	<2.04	<1.95	<1.80	<2.24	<2.09	<0.858	<1.20	<0.856	<2.23
4-Nitrophenol	mg/kg	<23.1	<7.11	<5.47	<11.5	<5.12	<17.5	<5.38	<5.18	<5.65	<4.30	<21.9	<25.2	<28.4	<32.8	<5.23	<5.12	<4.88	<4.50	<5.62	<5.22	<8.58	<12.0	<8.56	<5.58
Acenaphthene	mg/kg	<4.60	<1.42	<1.09	<2.30	<1.02	<3.50	<1.07	<1.03	<1.13	<0.858	<4.37	<5.03	<5.65	<6.54	<1.04	<1.02	<0.973	<0.898	<1.12	<1.04	<1.71	<2.40	<1.71	<1.11
Acenaphthylene	mg/kg	<4.60	<1.42	<1.09	<2.30	<1.02	<3.50	<1.07	<1.03	<1.13	<0.858	<4.37	<5.03	<5.65	<6.54	<1.04	<1.02	<0.973	<0.898	<1.12	<1.04	<1.71	<2.40	<1.71	<1.11
Acetophenone	mg/kg	<9.22	<2.84	<2.18	<4.60	<2.05	<7.01	<2.15	<2.07	<2.26	<1.72	<8.76	<10.1	<11.3	<13.1	<2.09	<2.04	<1.95	<1.80	<2.24	<2.09	<3.43	<4.81	<3.42	<2.23
Aniline	mg/kg	<23.1	<7.11	<5.47	<11.5	<5.12	<17.5	<5.38	<5.18	<5.65	<4.30	<21.9	<25.2	<28.4	<32.8	<5.23	<5.12	<4.88	<4.50	<5.62	<5.22	<8.58	<12.0	<8.56	<5.58
Anthracene	mg/kg	<4.60	<1.42	<1.09	<2.30	<1.02	<3.50	<1.07	<1.03	<1.13	<0.858	9.29	<5.03	<5.65	<6.54	<1.04	<1.02	<0.973	<0.898	<1.12	2.31	<1.71	<2.40	<1.71	<1.11
Azobenzene	mg/kg	<4.60	<1.42	<1.09	<2.30	<1.02	<3.50	<1.07	<1.03	<1.13	<0.858	<4.37	<5.03	<5.65	<6.54	<1.04	<1.02	<0.973	<0.898	<1.12	<1.04	<1.71	<2.40	<1.71	<1.11
Benzo(a)anthracene	mg/kg	<4.60	<1.42	<1.09	<2.30	<1.02	<3.50	<1.07	<1.03	<1.13	<0.858	11	<5.03	<5.65	<6.54	<1.04	<1.02	<0.973	<0.898	<1.12	3.52	<1.71	<2.40	<1.71	<1.11
Benzo(a)pyrene	mg/kg	<2.31	<0.711	<0.547	<1.15	<0.512	<1.75	<0.538	<0.518	<0.565	<0.430	9.3	<2.52	<2.84	<3.28	<0.523	<0.512	<0.488	0.557	<0.562	2.79	<0.858	<1.20	<0.856	<0.558
Benzo(b)fluoranthene	mg/kg	<4.60	<1.42	<1.09	<2.30	<1.02	<3.50	<1.07	<1.03	<1.13	<0.858	7.85	<5.03	<5.65	<6.54	<1.04	<1.02	<0.973	<0.898	<1.12	3.48	<1.71	<2.40	<1.71	<1.11
Benzo(g,h,i)perylene	mg/kg	<4.60	<1.42	<1.09	<2.30	<1.02	<3.50	<1.07	<1.03	<1.13	<0.858	<4.37	<5.03	<5.65	<6.54	<1.04	<1.02	<0.973	<0.898	<1.12	1.14	<1.71	<2.40	<1.71	<1.11
Benzo(k)fluoranthene	mg/kg	<4.60	<1.42	<1.09	<2.30	<1.02	<3.50	<1.07	<1.03	<1.13	<0.858	6.55	<5.03	<5.65	<6.54	<1.04	<1.02	<0.973	<0.898	<1.12	1.11	<1.71	<2.40	<1.71	<1.11
bis(2-Chloroethoxy)methane	mg/kg	<4.60	<1.42	<1.09	<2.30	<1.02	<3.50	<1.07	<1.03	<1.13	<0.858	<4.37	<5.03	15.2	<6.54	<1.04	<1.02	<0.973	<0.898	<1.12	<1.04	<1.71	<2.40	<1.71	<1.11
bis(2-Chloroethyl)ether	mg/kg	<0.456	<0.355	<0.547	<0.227	<0.512	<0.347	<0.538	<0.518	<0.565	<0.430	<0.433	<0.499	<0.560	<0.648	<0.523	<0.512	<0.488	<0.450	<0.562	<0.522	<0.170	<0.238	<0.169	<0.558
bis(2-chloroisopropyl)Ether	mg/kg	<0.456	<0.355	<0.547	<0.227	<0.512	<0.347	<0.538	<0.518	<0.565	<0.430	<0.433	<0.499	<0.560	<0.648	<0.523	<0.512	<0.488	<0.450	<0.562	<0.522	<0.170	<0.238	<0.169	<0.558
bis(2-Ethylhexyl)phthalate	mg/kg	<4.60	<1.42	<1.09	<2.30	<1.02	<3.50	<1.07	<1.03	<1.13	<0.858	<4.37	<5.03	<5.65	<6.54	<1.04	<1.02	<0.973	<0.898	<1.12	<1.04	<1.71	<2.40	<1.71	<1.11
Butylbenzylphthalate	mg/kg	<4.60	<1.42	<1.09	<2.30	<1.02	<3.50	<1.07	<1.03	<1.13	<0.858	<4.37	<5.03	<5.65	<6.54	<1.04	<1.02	<0.973	<0.898	<1.12	<1.04	<1.71	<2.40	<1.71	<1.11
Chrysene	mg/kg	<2.31	<0.711	<0.547	1.56	<0.512	<1.75	<0.538	<0.518	<0.565	<0.430	10.4	<2.52	<2.84	<3.28	<0.523	<0.512	<0.488	0.522	<0.562	3.34	<0.858	<1.20	<0.856	<0.558
Dibenzo(a,h)Anthracene	mg/kg	<2.31	<0.711	<0.547	<1.15	<0.512	<1.75	<0.538	<0.518	<0.565	<0.430	<2.19	<2.52	<2.84	<3.28	<0.523	<0.512	<0.488	<0.450	<0.562	<0.522	<0.858	<1.20	<0.856	<0.558
Dibenzofuran	mg/kg	<4.60	<1.42	<1.09	<2.30	<1.02	<3.50	<1.07	<1.03	<1.13	<0.858	<4.37	<5.03	<5.65	<6.54	<1.04	<1.02	<0.973	<0.898	<1.12	<1.04	<1.71	<2.40	<1.71	<1.11
Diethylphthalate	mg/kg	<4.60	<1.42	<1.09	<2.30	<1.02	<3.50	<1.07	<1.03	<1.13	<0.858	<4.37	<5.03	<5.65	<6.54	<1.04	<1.02	<0.973	<0.898	<1.12	<1.04	<1.71	<2.40	<1.71	<1.11
Dimethylphthalate	mg/kg	<4.60	<1.42	<1.09	<2.30	<1.02	<3.50	<1.07	<1.03	<1.13	<0.858	<4.37	<5.03	<5.65	<6.54	<1.04	<1.02	<0.973	<0.898	<1.12	<1.04	<1.71	<2.40	<1.71	<1.11
Di-n-butylphthalate	mg/kg	<4.60	<1.42	<1.09	<2.30	<1.02	<3.50	<1.07	<1.03	<1.13	<0.858	<4.37	<5.03	<5.65	<6.54	<1.04	<1.02	<0.973	<0.898	<1.12	<1.04	<1.71	<2.40	<1.71	<1.11
Di-n-octylphthalate	mg/kg	<4.60	<1.42	<1.09	<2.30	<1.02	<3.50	<1.07	<1.03	<1.13	<0.858	<4.37	<5.03	<5.65	<6.54	<1.04	<1.02	<0.973	<0.898	<1.12	<1.04	<1.71	<2.40	<1.71	<1.11
Fluoranthene	mg/kg	<4.60	<1.42	<1.09	2.51	<1.02	<3.50	<1.07	<1.03	<1.13	<0.858	24.8	<5.03	<5.65	<6.54	<1.04	<1.02	<0.973	<0.898	<1.12	8.31	<1.71	<2.40	<1.71	<1.11
Fluorene	mg/kg	<4.60	<1.42	<1.09	<2.30	<1.02	<3.50	<1.07	<1.03	<1.13	<0.858	<4.37	<5.03	<5.65	<6.54	<1.04	<1.02	<0.973	<0.898	<1.12	<1.04	<1.71	<2.40	<1.71	<1.11
Hexachlorobenzene	mg/kg	<1.15	<0.711	<0.547	<0.576	<0.512	<0.877	<0.538	<0.518	<0.565	<0.430	<2.19	<2.52	<1.41	<1.63	<0.523	<0.512	<0.488	<0.450	<0.562	<0.522	<0.429	<0.602	<0.428	<0.558
Hexachlorobutadiene	mg/kg	<4.60	<1.42	<1.09	<2.30	<1.02	<3.50	<1.07	<1.03	<1.13	<0.858	<4.37	<5.03	<5.65	<6.54	<1.04	<1.02	<0.973	<0.898	<1.12	<1.04	<1.71	<2.40	<1.71	<1.11
Hexachloroethane	mg/kg	<2.31	<1.42	<1.09	<1.15	<1.02	<1.75	<1.07	<1.03	<1.13	<0.858	<2.19	<2.52	<2.84	<1.63	<1.04	<1.02	<0.973	<0.898	<1.12	<1.04	<1.71	<2.40	<1.71	<1.11
Indeno(1,2,3-cd)Pyrene	mg/kg	<4.60	<1.42	<1.09	<2.30	<1.02	<3.50	<1.07	<1.03	<1.13	<0.858	<4.37	<5.03	<5.65	<6.54	<1.04	<1.02	<0.973	<0.898	<1.12	1.2	<1.71	<2.40	<1.71	<1.11
Isophorone	mg/kg	<4.60	<1.42	<1.09	<2.30	<1.02	<3.50	<1.07	<1.03	<1.13	<0.858	<4.37	<5.03	<5.65	<6.54	<1.04	<1.02	<0.973	<0.898	<1.12	<1.04	<1.71	<2.40	<1.71	<1.11
Naphthalene	mg/kg	<4.60	<1.42	<1.09	<2.30	<1.02	<3.50	<1.07	<1.03	<1.13	<0.858	<4.37	<5.03	<5.65	<6.54	<1.04	<1.02	<0.973	<0.898	<1.12	<1.04	<1.71	<2.40	<1.71	<1.11
Nitrobenzene	mg/kg	<4.60	<1.42	<1.09	<2.30	<1.02	<3.50	<1.07	<1.03	<1.13	<0.858	<4.37	<5.03	<5.65	<6.54	<1.04	<1.02	<0.973	<0.898	<1.12	<1.04	<1.71	<2.40	<1.71	<1.11
N-Nitrosodimethylamine	mg/kg	<4.60	<1.42	<1.09	<2.30	<1.02	<3.50	<1.07	<1.03	<1.13	<0.858	<4.37	<5.03	<5.65	<6.54	<1.04	<1.02	<0.973	<0.898	<1.12	<1.04	<1.71	<2.40	<1.71	<1.11
Pentachlorophenol	mg/kg	<4.60	<7.11	<5.47	<2.30	<5.12	<3.50	<5.38	<5.18	<5.65	<4.30	<8.76	<5.03	<5.65	<6.54	<5.23	<5.12	<4.88	<4.50	<5.62	<5.22	<8.58	<2.40	<8.56	<5.58
Phenanthrene	mg/kg	<4.60	<1.42	<1.09	<2.30	<1.02	<3.50	<1.07	<1.03	<1.13	<0.858	24.8	<5.03	<5.65	<6.54	<1.04	<1.02	<0.973	<0.898	<1.12	9.4	<1.71	<2.40	<1.71	<1.11
Phenol	mg/kg	<4.60	<1.42	<1.09	<2.30	<1.02	81.9	<1.07	<1.03	<1.13	<0.858	<4.37	<5.03	<5.65	76.2	<1.04	<1.02	<0.973	<0.898	<1.12	<1.04	<1.71	<2.40	<1.71	<1.11
Pyrene	mg/kg	<4.60	<1.42	<1.09	<2.30	<1.02	<3.50	<1.07	<1.03	<1.13	<0.858	18.9	<5.03	<5.65	<6.54	<1.04	<1.02	<0.973	<0.898	<1.12	6.39	<1.71	<2.40	<1.71	<1.11
Total SVOCs	mg/kg	ND	ND	ND	4.07	ND	158.6	ND	ND	ND	ND	122.89	ND	41.4	129.6	ND	ND	ND	1.079	ND	42.99	ND	ND	ND	ND
Classic Chemistry																									
Corrosivity (pH)	S.U.	8.11	4.06	4.08	5.11	4.2	8.17	8.48	7.5	7.54	9.06	5.23	5.9	7.81	8	7.9	7.67	7.94	7.57	5.33	5.33	6.96	7.55	7.45	7.65
Conductivity	umhos/cm	728	1830	1320	1060	1270	9940	7210	4220	4590	138	797	2150	12000	14700	7650	7160	3040	289	351	143	933	5920	5010	7490
Flashpoint	°F	>200	>200	>200	>200	--	--	--	--	--	>200	>200	--	--	--	--	--	--	>200	>200	>200	--	--	--	--
Reactive Cyanide	mg/kg	<2.0	<2.0	<2.0	<2.0	--	--	--	--	--	<2.0	<2.0	--	--	--	--	--	--	<2.0	<2.0	<2.0	--	--	--	--
Reactive Sulfide	mg/kg	<2.0	<2.0	<2.0	<2.0	--	--	--	--	--	<2.0	<2.0	--	--	--	--	--	--	<2.0	<2.0	<2.0	--	--	--	--

Table 1
Soil Precharacterization Data

Wynn Resort Casino
Everett, Massachusetts

Analyte	Precharacterization Cell	K17	K17	K17	K17	K18	K18	K18	K18	K18	K18	K18	K18	K18	K18	L08	L08	L09	L09	L09	L09	L09	L09	L09	L09
	Sample ID	K17510	K17511	K17512	K17513	K18S01S02	K18S03S04A	K18S04BS05	K18S06	K18S07	K18S08	K18S09	K18S10	K18S11	K18S12	GZ00SS03S04	GZ00SS05S08	L09S01S02A	L09S02BS04A	L09S04BS05	L09S06	L09S07	L09S08	L09S09	L09S10
	Laboratory Work Order	1502333	1502333	1502333	1502333	1501434	1501434	1501434	1501434	1501434	1501434	1501434	1501434	1501434	1501434	1410628	1410628	1502077	1502077	1502077	1502077	1502077	1502077	1502077	1502077
	Soil Distinction	Natural	Natural	Natural	Natural	Fill	Fill	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Fill	Fill	Fill	Natural	Natural	Natural	Natural	Natural
	Soil Type	Organics	Organics	Organics	Sand/Gravel			Organics	Organics	Organics	Organics	Organics	Organics	Organics	Sand/Gravel	Clay	Clay				Organics	Organics	Organics	Clay	Sand/Gravel
	Depth Interval (ft.)	29 - 31	34 - 36	39 - 41	44 - 46	0 - 2.3	4 - 6.2	6.2 - 10	14 - 16	19 - 21	24 - 26	29 - 31	34 - 36	39 - 41	16 - 44	19 - 26	29 - 46	0 - 3.3	3.3 - 6.6	6.6 - 10	10 - 12	14 - 16	19 - 21	24 - 26	29 - 31
	Sampling Date	2/23/2015	2/23/2015	2/23/2015	2/23/2015	1/21/2015	1/21/2015	1/21/2015	1/21/2015	1/21/2015	1/21/2015	1/21/2015	1/21/2015	1/21/2015	1/21/2015	10/24/2014	10/24/2014	2/5/2015	2/5/2015	2/5/2015	2/5/2015	2/5/2015	2/5/2015	2/5/2015	2/5/2015	2/5/2015
Preliminary Disposal Facility Category		MCP Regulated Type B-1	Hazardous Material Type A	MCP Regulated Type B-1	Uncontaminated	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type B-1	Hazardous Material Type A	MCP Regulated Type B-1	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type B-1	Uncontaminated	Uncontaminated	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type A	Uncontaminated	MCP Regulated Type A
RCRA 8 Metals	**Units**																								
Arsenic	mg/kg	<8.91	<9.06	<9.29	<7.52	6.93	218	48.1	<12.0	<12.1	<8.79	<9.71	<11.7	<9.22	<7.19	7.24	10.9	48.5	28.7	18.5	<24.9	<24.0	<7.59	<7.53	<7.02
Barium	mg/kg	28.7	52.4	29.2	13.2	26	183	38.2	33.9	46.7	29.3	30.4	37.8	25.2	10	46.5	70.3	57.9	86.9	38.3	37.9	29.8	62.2	42.2	<7.02
Cadmium	mg/kg	<1.78	<1.81	<1.86	<1.50	<1.37	3.44	<1.69	<2.40	<2.42	<1.76	<1.94	<2.33	<1.84	<1.44	<0.49	<0.54	<1.51	<1.49	<1.34	<4.98	<4.80	<1.52	<1.51	<1.40
Chromium	mg/kg	26.7	40.4	18.4	11.9	19.8	31.7	18.6	29.8	39.5	26.7	26.1	32.3	18.4	9.73	23.8	37.5	17.5	40.3	17.7	26.6	29.6	43.7	26.9	10
Lead	mg/kg	<17.8	<18.1	<18.6	<15.0	51	1790	47.7	<24.0	<24.2	<17.6	<19.4	<23.3	<18.4	<14.4	8.31	12.4	467	98.2	108	242	102	<15.2	<15.1	<14.0
Selenium	mg/kg	<8.91	<9.06	<9.29	<7.52	<6.85	16.3	<16.9	<12.0	<12.1	<17.6	<19.4	<11.7	<18.4	<14.4	<2.43	<2.68	9.74	<7.43	<6.70	<12.4	<12.0	<7.59	<7.53	<7.02
Silver	mg/kg	<1.78	<1.81	<1.86	<1.50	<1.37	4.44	<1.69	<2.40	<2.42	<1.76	<1.94	<2.33	<1.84	<1.44	<0.49	<0.54	2.22	<1.49	<1.34	<4.98	<4.80	<1.52	<1.51	<1.40
Mercury	mg/kg	<0.041	<0.049	<0.046	<0.027	0.118	2.11	0.127	<0.055	<0.057	<0.041	<0.041	<0.053	<0.042	<0.034	<0.037	<0.044	0.992	0.085	0.062	<0.119	<0.113	<0.039	<0.036	<0.034
Metals by Toxicity Characteristic Leaching Procedure (TCLP)																									
Arsenic	mg/L	--	--	--	--	--	<0.050	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead	mg/L	--	--	--	--	--	3.92	--	--	--	--	--	--	--	--	--	--	0.971	--	0.129	0.178	<0.050	--	--	--
Selenium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Herbicides																									
2,4,5-T	mg/kg	--	--	--	--	<0.044	<0.052	--	--	--	--	--	<0.071	--	--	<0.010	<0.013	<0.091	<0.099	<0.042	--	--	--	--	--
2,4-D	mg/kg	--	--	--	--	<0.22	<0.26	--	--	--	--	--	<0.35	--	--	<0.010	<0.013	<0.46	<0.49	<0.21	--	--	--	--	--
2,4-DB	mg/kg	--	--	--	--	<0.017	<0.020	--	--	--	--	--	<0.027	--	--	<0.010	<0.013	<0.034	<0.037	<0.016	--	--	--	--	--
Dalapon	mg/kg	--	--	--	--	<1.3	<1.6	--	--	--	--	--	<2.1	--	--	<0.12	<0.16	<2.7	<3.0	<1.3	--	--	--	--	--
Dicamba	mg/kg	--	--	--	--	<0.067	<0.078	--	--	--	--	--	<0.11	--	--	<0.010	<0.013	<0.14	<0.15	<0.063	--	--	--	--	--
Dichlorprop	mg/kg	--	--	--	--	<0.14	<0.17	--	--	--	--	--	<0.23	--	--	<0.010	<0.013	<0.30	<0.32	<0.14	--	--	--	--	--
Dinoseb	mg/kg	--	--	--	--	<0.22	<0.26	--	--	--	--	--	<0.35	--	--	<0.060	<0.081	<0.46	<0.49	<0.21	--	--	--	--	--
MCPA	mg/kg	--	--	--	--	<56	<65	--	--	--	--	--	<88	--	--	<2.4	<3.2	<110	<120	<52	--	--	--	--	--
MCPP	mg/kg	--	--	--	--	<56	<65	--	--	--	--	--	<88	--	--	<2.4	<3.2	<110	<120	<52	--	--	--	--	--
Silvex (2,4,5-TP)	mg/kg	--	--	--	--	<0.044	<0.052	--	--	--	--	--	<0.071	--	--	<0.010	<0.013	<0.091	<0.099	<0.042	--	--	--	--	--
Pesticides																									
4,4'-DDD	mg/kg	--	--	--	--	<0.0095	<0.0044	--	--	--	--	--	<0.0059	--	--	<0.0021	<0.0027	<0.019	<0.0041	<0.0018	--	--	--	--	--
4,4'-DDE	mg/kg	--	--	--	--	<0.0095	<0.0044	--	--	--	--	--	<0.0059	--	--	<0.0021	<0.0027	<0.019	<0.0041	<0.0018	--	--	--	--	--
4,4'-DDT	mg/kg	--	--	--	--	<0.0095	<0.0044	--	--	--	--	--	<0.0059	--	--	<0.0021	<0.0027	<0.019	<0.0041	<0.0018	--	--	--	--	--
Aldrin	mg/kg	--	--	--	--	<0.0095	<0.0044	--	--	--	--	--	<0.0059	--	--	<0.0021	<0.0027	<0.019	<0.0041	<0.0018	--	--	--	--	--
alpha-BHC	mg/kg	--	--	--	--	<0.0095	<0.0044	--	--	--	--	--	<0.0059	--	--	<0.0021	<0.0027	<0.019	<0.0041	<0.0018	--	--	--	--	--
beta-BHC	mg/kg	--	--	--	--	<0.0095	<0.0044	--	--	--	--	--	<0.0059	--	--	<0.0021	<0.0027	<0.019	<0.0041	<0.0018	--	--	--	--	--
Chlordane (technical)	mg/kg	--	--	--	--	<0.095	<0.044	--	--	--	--	--	<0.059	--	--	<0.021	<0.027	<0.19	<0.041	<0.018	--	--	--	--	--
delta-BHC	mg/kg	--	--	--	--	<0.0095	<0.0044	--	--	--	--	--	<0.0059	--	--	<0.0021	<0.0027	<0.019	<0.0041	<0.0018	--	--	--	--	--
Dieldrin	mg/kg	--	--	--	--	<0.0095	<0.0044	--	--	--	--	--	<0.0059	--	--	<0.0021	<0.0027	<0.019	<0.0041	<0.0018	--	--	--	--	--
Endosulfan I	mg/kg	--	--	--	--	<0.0095	<0.0044	--	--	--	--	--	<0.0059	--	--	<0.0021	<0.0027	<0.019	<0.0041	<0.0018	--	--	--	--	--
Endosulfan II	mg/kg	--	--	--	--	<0.0095	<0.0044	--	--	--	--	--	<0.0059	--	--	<0.0021	<0.0027	<0.019	<0.0041	<0.0018	--	--	--	--	--
Endosulfan sulfate	mg/kg	--	--	--	--	<0.0095	<0.0044	--	--	--	--	--	<0.0059	--	--	<0.0021	<0.0027	<0.019	<0.0041	<0.0018	--	--	--	--	--
Endrin	mg/kg	--	--	--	--	<0.0095	<0.0044	--	--	--	--	--	<0.0059	--	--	<0.0021	<0.0027	<0.019	<0.0041	<0.0018	--	--	--	--	--
Endrin ketone	mg/kg	--	--	--	--	<0.0095	<0.0044	--	--	--	--	--	<0.0059	--	--	<0.0021	<0.0027	<0.019	<0.0041	<0.0018	--	--	--	--	--
gamma-BHC (Lindane)	mg/kg	--	--	--	--	<0.0095	<0.0044	--	--	--	--	--	<0.0059	--	--	<0.0021	<0.0027	<0.019	<0.0041	<0.0018	--	--	--	--	--
Heptachlor	mg/kg	--	--	--	--	<0.0095	<0.0044	--	--	--	--	--	<0.0059	--	--	<0.0021	<0.0027	<0.019	<0.0041	<0.0018	--	--	--	--	--
Heptachlor epoxide	mg/kg	--	--	--	--	<0.0095	<0.0044	--	--	--	--	--	<0.0059	--	--	<0.0021	<0.0027	<0.019	<0.0041	<0.0018	--	--	--	--	--
Hexachlorobenzene	mg/kg	--	--	--	--	<0.0095	<0.0044	--	--	--	--	--	0.0089	--	--	<0.0021	<0.0027	<0.019	<0.0041	<0.0018	--	--	--	--	--
Methoxychlor	mg/kg	--	--	--	--	<0.0095	<0.0044	--	--	--	--	--	<0.0059	--	--	<0.0021	<0.0027	<0.019	<0.0041	<0.0018	--	--	--	--	--
Polychlorinated Biphenyls																									
Aroclor 1016	mg/kg	<0.187	<0.187	<0.165	<0.146	<0.132	<0.154	<0.157	<0.217	<0.245	<0.165	<0.175	<0.216	<0.166	<0.140	<0.225	<0.271	<0.132	<0.152	<0.133	<0.470	<0.473	<0.155	<0.152	<0.142
Aroclor 1221	mg/kg	<0.187	<0.187	<0.165	<0.146	<0.132	<0.154	<0.157	<0.217	<0.245	<0.165	<0.175	<0.216	<0.166	<0.140	<0.225	<0.271	<0.132	<0.152	<0.133	<0.470	<0.473	<0.155	<0.152	<0.142
Aroclor 1232	mg/kg	<0.187	<0.187	<0.165	<0.146	<0.132	<0.154	<0.157	<0.217	<0.245	<0.165	<0.175	<0.216	<0.166	<0.140	<0.225	<0.271	<0.132	<0.152	<0.133	<0.470	<0.473	<0.155	<0.152	<0.142
Aroclor 1242	mg/kg	<0.187	<0.187	<0.165	<0.146	<0.132	<0.154	<0.157	<0.217	<0.245	<0.165	<0.175	<0.216	<0.166	<0.140	<0.225	<0.271	<0.132	<0.152	<0.133	<0.470	<0.473	<0.155	<0.152	<0.142
Aroclor 1248	mg/kg	<0.187	<0.187	<0.165	<0.146	<0.132	<0.154	<0.157	<0.217	<0.245	<0.165	<0.175	<0.216	<0.166	<0.140	<0.225	<0.271	<0.132	<0.152	<0.133	<0.470	<0.473	<0.155	<0.152	<0.142
Aroclor 1254	mg/kg	<0.187	<0.187	<0.165	<0.146	<0.132	<0.154	<0.157	<0.217	<0.245	<0.165	<0.175	<0.216	<0.166	<0.140	<0.225	<0.271	<0.132	<0.152	<0.133	<0.470	<0.473	<0.155	<0.152	<0.142
Aroclor 1260	mg/kg	<0.187	<0.187	<0.165	<0.146	<0.132	<0.154	<0.157	<0.217	<0.245	<0.165	<0.175	<0.216	<0.166	<0.140	<0.225	<0.271	<0.132	<0.152	<0.133	<0.470	<0.473	<0.155	<0.152	<0.142
Aroclor 1262	mg/kg	<0.187	<0.187	<0.165	<0.146	<0.132	<0.154	<0.157	<0.217	<0.245	<0.165	<0.175	<0.216	<0.166	<0.140	<0.225	<0.271	<0.132	<0.152	<0.133	<0.470	<0.473	<0.155	<0.152	<0.142
Aroclor 1268	mg/kg	<0.187	<0.187	<0.165	<0.146	<0.132	<0.154	<0.157	<0.217	<0.245	<0.165	<0.175	<0.216	<0.166	<0.140	<0.225	<0.271	<0.132	<0.152	<0.133	<0.470	<0.473	<0.155	<0.152	<0.142
Total PCBs	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Petroleum Hydrocarbons	mg/kg	<58.9	298	66.1	<45.2	186	226	<48.0	125	483	52.8	<55.4	145	94.6	<43.6	<47.4	<51.8	196	1180	62.5	387	1460	<48.1	<47.8	<45.4
Volatile Organic Compounds (VOCs)																									
1,1,1,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-Chloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane - Screen	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Butanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Isopropyltoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-Pentanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Disulfide	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	K17 K17510 1502333 Natural Organics 29 - 31 2/23/2015	K17 K17511 1502333 Natural Organics 34 - 36 2/23/2015	K17 K17512 1502333 Natural Organics 39 - 41 2/23/2015	K17 K17513 1502333 Natural Sand/Gravel 44 - 46 2/23/2015	K18 K18S01S02 1501434 Fill 0 - 2.3 1/21/2015	K18 K18S03S04A 1501434 Fill 4 - 6.2 1/21/2015	K18 K18S04BS05 1501434 Natural Organics 6.2 - 10 1/21/2015	K18 K18S06 1501434 Natural Organics 14 - 16 1/21/2015	K18 K18S07 1501434 Natural Organics 19 - 21 1/21/2015	K18 K18S08 1501434 Natural Organics 24 - 26 1/21/2015	K18 K18S09 1501434 Natural Organics 29 - 31 1/21/2015	K18 K18S10 1501434 Natural Organics 34 - 36 1/21/2015	K18 K18S11 1501434 Natural Organics 39 - 41 1/21/2015	K18 K18S12 1501434 Natural Sand/Gravel 16 - 44 1/21/2015	L08 GZ00SS03S04 1410628 Natural Clay 19 - 26 10/24/2014	L08 GZ00SS05S08 1410628 Natural Clay 29 - 46 10/24/2014	L09 L09S01S02A 1502077 Fill 0 - 3.3 2/5/2015	L09 L09S02BS04A 1502077 Fill 3.3 - 6.6 2/5/2015	L09 L09S04BS05 1502077 Fill 6.6 - 10 2/5/2015	L09 L09S06 1502077 Natural Organics 10 - 12 2/5/2015	L09 L09S07 1502077 Natural Organics 14 - 16 2/5/2015	L09 L09S08 1502077 Natural Organics 19 - 21 2/5/2015	L09 L09S09 1502077 Natural Clay 24 - 26 2/5/2015	L09 L09S10 1502077 Natural Sand/Gravel 29 - 31 2/5/2015
Preliminary Disposal Facility Category		MCP Regulated Type B-1	Hazardous Material Type A	MCP Regulated Type B-1	Uncontaminated	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type B-1	Hazardous Material Type A	MCP Regulated Type B-1	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type B-1	Uncontaminated	Uncontaminated	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type A	Uncontaminated	MCP Regulated Type A
Chlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Diethyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Di-isopropyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethyl tertiary-butyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
tert-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tertiary-amyl methyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene O	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene P,M	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylenes (Total)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total VOCs	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds - Low Level Analysis																										
1,1,1,2-Tetrachloroethane	mg/kg	<0.0046	<0.0060	<0.0035	<0.0032	<0.0043	<0.0041	<0.0040	<0.0078	<0.0074	<0.0047	<0.0046	<0.0075	<0.0055	<0.0036	<0.0037	<0.0044	<0.0053	<0.0057	<0.0061	<0.0202	<0.0203	<0.0068	<0.0063	<0.0041
1,1,1-Trichloroethane	mg/kg	<0.0046	<0.0060	<0.0035	<0.0032	<0.0043	<0.0041	<0.0040	<0.0078	<0.0074	<0.0047	<0.0046	<0.0075	<0.0055	<0.0036	<0.0037	<0.0044	<0.0053	<0.0057	<0.0061	<0.0202	<0.0203	<0.0068	<0.0063	<0.0041
1,1,2,2-Tetrachloroethane	mg/kg	<0.0018	<0.0024	<0.0014	<0.0013	<0.0017	<0.0016	<0.0016	<0.0031	<0.0030	<0.0019	<0.0019	<0.0030	<0.0022	<0.0014	<0.0015	<0.0018	<0.0021	<0.0023	<0.0025	<0.0081	<0.0081	<0.0027	<0.0025	<0.0016
1,1,2-Trichloroethane	mg/kg	<0.0046	<0.0060	<0.0035	<0.0032	<0.0043	<0.0041	<0.0040	<0.0078	<0.0074	<0.0047	<0.0046	<0.0075	<0.0055	<0.0036	<0.0037	<0.0044	<0.0053	<0.0057	<0.0061	<0.0202	<0.0203	<0.0068	<0.0063	<0.0041
1,1-Dichloroethane	mg/kg	<0.0046	<0.0060	<0.0035	<0.0032	<0.0043	<0.0041	<0.0040	<0.0078	<0.0074	<0.0047	<0.0046	<0.0075	<0.0055	<0.0036	<0.0037	<0.0044	<0.0053	<0.0057	<0.0061	<0.0202	<0.0203	<0.0068	<0.0063	<0.0041
1,1-Dichloroethene	mg/kg	<0.0046	<0.0060	<0.0035	<0.0032	<0.0043	<0.0041	<0.0040	<0.0078	<0.0074	<0.0047	<0.0046	<0.0075	<0.0055	<0.0036	<0.0037	<0.0044	<0.0053	<0.0057	<0.0061	<0.0202	<0.0203	<0.0068	<0.0063	<0.0041
1,1-Dichloropropene	mg/kg	<0.0046	<0.0060	<0.0035	<0.0032	<0.0043	<0.0041	<0.0040	<0.0078	<0.0074	<0.0047	<0.0046	<0.0075	<0.0055	<0.0036	<0.0037	<0.0044	<0.0053	<0.0057	<0.0061	<0.0202	<0.0203	<0.0068	<0.0063	<0.0041
1,2,3-Trichlorobenzene	mg/kg	<0.0046	<0.0060	<0.0035	<0.0032	<0.0043	<0.0041	<0.0040	<0.0078	<0.0074	<0.0047	<0.0046	<0.0075	<0.0055	<0.0036	<0.0037	<0.0044	<0.0053	<0.0057	<0.0061	<0.0202	<0.0203	<0.0068	<0.0063	<0.0041
1,2,3-Trichloropropane	mg/kg	<0.0046	<0.0060	<0.0035	<0.0032	<0.0043	<0.0041	<0.0040	<0.0078	<0.0074	<0.0047	<0.0046	<0.0075	<0.0055	<0.0036	<0.0037	<0.0044	<0.0053	<0.0057	<0.0061	<0.0202	<0.0203	<0.0068	<0.0063	<0.0041
1,2,4-Trichlorobenzene	mg/kg	<0.0046	<0.0060	<0.0035	<0.0032	<0.0043	<0.0041	<0.0040	<0.0078	<0.0074	<0.0047	<0.0046	<0.0075	<0.0055	<0.0036	<0.0037	<0.0044	<0.0053	<0.0057	<0.0061	<0.0202	<0.0203	<0.0068	<0.0063	<0.0041
1,2,4-Trimethylbenzene	mg/kg	<0.0046	<0.0060	<0.0035	<0.0032	<0.0043	<0.0041	<0.0040	<0.0078	<0.0074	<0.0047	<0.0046	<0.0075	<0.0055	<0.0036	<0.0037	<0.0044	<0.0053	<0.0057	<0.0061	<0.0202	<0.0203	<0.0068	<0.0063	<0.0041
1,2-Dibromo-3-Chloropropane	mg/kg	<0.0046	<0.0060	<0.0035	<0.0032	<0.0043	<0.0041	<0.0040	<0.0078	<0.0074	<0.0047	<0.0046	<0.0075	<0.0055	<0.0036	<0.0037	<0.0044	<0.0053	<0.0057	<0.0061	<0.0202	<0.0203	<0.0068	<0.0063	<0.0041
1,2-Dibromoethane	mg/kg	<0.0046	<0.0060	<0.0035	<0.0032	<0.0043	<0.0041	<0.0040	<0.0078	<0.0074	<0.0047	<0.0046	<0.0075	<0.0055	<0.0036	<0.0037	<0.0044	<0.0053	<0.0057	<0.0061	<0.0202	<0.0203	<0.0068	<0.0063	<0.0041
1,2-Dichlorobenzene	mg/kg	<0.0046	<0.0060	<0.0035	<0.0032	<0.0043	<0.0041	<0.0040	<0.0078	<0.0074	<0.0047	<0.0046	<0.0075	<0.0055	<0.0036	<0.0037	<0.0044	<0.0053	<0.0057	<0.0061	<0.0202	<0.0203	<0.0068	<0.0063	<0.0041
1,2-Dichloroethane	mg/kg	<0.0046	<0.0060	<0.0035	<0.0032	<0.0043	<0.0041	<0.0040	<0.0078	<0.0074	<0.0047	<0.0046	<0.0075	<0.0055	<0.0036	<0.0037	<0.0044	<0.0053	<0.0057	<0.0061	<0.0202	<0.0203	<0.0068	<0.0063	<0.0041
1,2-Dichloropropane	mg/kg	<0.0046	<0.0060	<0.0035	<0.0032	<0.0043	<0.0041	<0.0040	<0.0078	<0.0074	<0.0047	<0.0046	<0.0075	<0.0055	<0.0036	<0.0037	<0.0044	<0.0053	<0.0057	<0.0061	<0.0202	<0.0203	<0.0068	<0.0063	<0.0041
1,3,5-Trimethylbenzene	mg/kg	<0.0046	<0.0060	<0.0035	<0.0032	<0.0043	<0.0041	<0.0040	<0.0078	<0.0074	<0.0047	<0.0046	<0.0075	<0.0055	<0.0036	<0.0037	<0.0044	<0.0053	<0.0057	<0.0061	<0.0202	<0.0203	<0.0068	<0.0063	<0.0041
1,3-Dichlorobenzene	mg/kg	<0.0046	<0.0060	<0.0035	<0.0032	<0.0043	<0.0041	<0.0040	<0.0078	<0.0074	<0.0047	<0.0046	<0.0075	<0.0055	<0.0036	<0.0037	<0.0044	<0.0053	<0.0057	<0.0061	<0.0202	<0.0203	<0.0068	<0.0063	<0.0041
1,3-Dichloropropane	mg/kg	<0.0046	<0.0060	<0.0035	<0.0032	<0.0043	<0.0041	<0.0040	<0.0078	<0.0074	<0.0047	<0.0046	<0.0075	<0.0055	<0.0036	<0.0037	<0.0044	<0.0053	<0.0057	<0.0061	<0.0202	<0.0203	<0.0068	<0.0063	<0.0041
1,4-Dichlorobenzene	mg/kg	<0.0046	<0.0060	<0.0035	<0.0032	<0.0043	<0.0041	<0.0040	<0.0078	<0.0074	<0.0047	<0.0046	<0.0075	<0.0055	<0.0036	<0.0037	<0.0044	<0.0053	<0.0057	<0.0061	<0.0202	<0.0203	<0.0068	<0.0063	<0.0041
1,4-Dioxane	mg/kg	<0.0923	<0.120	<0.0704	<0.0637	<0.0856	<0.0824	<0.0801	<0.156	<0.148	<0.0934	<0.0928	<0.149	<0.111	<0.0717	<0.0749	<0.0883	<0.106	<0.113	<0.123	<0.404	<0.405	<0.136	<0.125	<0.0811
2,2-Dichloropropane	mg/kg	<0.0046	<0.0060	<0.0035	<0.0032	<0.0043	<0.0041	<0.0040	<0.0078	<0.0074	<0.0047	<0.0046	<0.0075	<0.0055	<0.0036	<0.0037	<0.0044	<0.0053	<0.0057	<0.0061	<0.0202	<0.0203	<0.0068	<0.0063	<0.0041
2-Butanone	mg/kg	<0.0092	<0.0120	<0.0070	<0.0064	<0.0086	<0.0082	<0.0080	<0.0156	<0.0148	<0.0093	<0.0093	<0.0149	<0.0111	<0.0072	<0.0075	<0.0088	<0.0106	<0.0113	<0.0123	<0.0404	<0.0405	<0.0136	<0.0125	<0.0081
2-Chlorotoluene	mg/kg	<0.0046	<0.0060	<0.0035	<0.0032	<0.0043	<0.0041	<0.0040	<0.0078	<0.0074	<0.0047	<0.0046	<0.0075	<0.0055	<0.0036	<0.0037	<0.0044	<0.0053	<0.0057	<0.0061	<0.0202	<0.0203	<0.0068	<0.0063	<0.0041
2-Hexanone	mg/kg	<0.0092	<0.0120	<0.0070	<0.0064	<0.0086	<0.0082	<0.0080	<0.0156	<0.0148	<0.0093	<0.0093	<0.0149	<0.0111	<0.0072	<0.0075	<0.0088	<0.0106	<0.0113	<0.0123	<0.0404	<0.0405	<0.0136	<0.0125	<0.0081
4-Chlorotoluene	mg/kg	<0.0046	<0.0060	<0.0035	<0.0032	<0.0043	<0.0041	<0.0040	<0.0078	<0.0074	<0.0047	<0.0046	<0.0075	<0.0055	<0.0036	<0.0037	<0.0044	<0.0053	<0.0057	<0.0061	<0.0202	<0.0203	<0.0068	<0.0063	<0.0041
4-Isopropyltoluene	mg/kg	<0.0046	<0.0060	<0.0035	<0.0032	<0.0043	<0.0041	<0.0040	<0.0078	<0.0074	<0.0047	<0.0046	<0.0075	<0.0055	<0.0036	<0.0037	<0.0044	<0.0053	<0.0057	<0.0061	<0.0202	<0.0203	<0.0068	<0.0063	<0.0041
4-Methyl-2-Pentanone	mg/kg	<0.0092	<0.0120	<0.0070	<0.0064	<0.0086	<0.0082	<0.0080	<0.0156	<0.0148	<0.0093	<0.0093	<0.0149	<0.0111	<0.0072	<0.0075	<0.0088	<0.0106	<0.0113	<0.0123	<0.0404	<0.0405	<0.0136	<0.0125	<0.0081
Acetone	mg/kg	0.0119	0.0182	0.0156	<0.0064	<0.0086	<0.0082	0.0199	0.0517	0.0527	<0.0093	0.0139	0.0213	0.0165	<0.0072	<0.0075	<0.0088	0.0311	0.0225	0.0155	0.26	0.302	0.0322	<0.0125	0.0173
Benzene	mg/kg	<0.0046	<0.0060	<0.0035	<0.0032	<0.0043	<0.0041	<0.0040	<0.0078	<0.0074	<0.0047	<0.0046	<0.0075	<0.0055	<0.0036	<0.0037	<0.0044	<0.0053	<0.0057	<0.0061	<0.0202	<0.0203	<0.0068	<0.0063	<0.0041
Bromobenzene	mg/kg	<0.0046	<0.0060	<0.0035	<0.0032	<0.0043	<0.0041	<0.0040	<0.0078	<0.0074	<0.0047	<0.0046	<0.0075	<0.0055	<0.0036	<0.0037	<0.0044	<0.0053	<0.0057	<0.0061	<0.0202	<0.0203	<0.0068	<0.0063	<0.0041
Bromochloromethane	mg/kg	<0.0046	<0.0060	<0.0035	<0.0032	<0.0043	<0.0041	<0.0040	<0.0078	<0.0074	<0.0047	<0.0046	<0.0075	<0.0055	<0.0036	<0.0037	<0.0044	<0.0053	<0.0057	<0.0061	<0.0202	<0.0203	<0.0068	<0.0063	<0.0041
Bromodichloromethane	mg/kg	<0.0046	<0.0060	<0.0035	<0.0032	<0.0043	<0.0041	<0.0040	<0.0078	<0.0074	<0.0047	<0.0046	<0.0075	<0.0055	<0.0036	<0.0037	<0.0044	<0.0053	<0.0057	<0.0061	<0.0202	<0.0203	<0.0068	<0.0063	<0.0041
Bromoform	mg/kg	<0.0046	<0.0060	<0.0035	<0.0032	<0.0043	<0.0041	<0.0040	<0.0078	<0.0074	<0.0047	<0.0046	<0.0075	<0.0055	<0.0036	<0.0037	<0.0044	<0.0053	<0.0057	<0.0061	<0.0202	<0.0203	<0.0068	<0.0063	<0.0041
Bromomethane	mg/kg	<0.0092	<0.0120	<0.0070	<0.0064	<0.0086	<0.0082	<0.0080	<0.0156	<0.0148	<0.0093	<0.0093	<0.0149	<0.0111	<0.0072	<0.0075	<0.0088	<0.0106	<0.0113	<0.0123	<0.0404	<0.0405	<0.0136	<0.0125	<0.0081
Carbon Disulfide	mg/kg	0.0088	0.0125	0.0048	<0.0032	<0.0043	<0.0041	<0.0040	0.0084	0.0261	0.0055	0.0055	0.0138	<0.0055	<0.0036	<0.0037	<0.0044	<0.0053	<0.0057	<0.0061	0.0243	0.027	<0.0068	<0.0063	<0.0041
Carbon Tetrachloride	mg/kg	<0.0046	<0.0060	<0.0035	<0.0032	<0.0043	<0.0041	<0.0040	<0.0078	<0.0074	<0.0047	<0.0046	<0.0075	<0.0055	<0.0036	<0.0037	<0.0044	<0.0053	<0.0057	<0.0061	<0.0202	<0.0203	<0.0068	<0.0063	<0.0041
Chlorobenzene	mg/kg	<0.0046	<0.0060	<0.0035	<0.0032	<0.0043	<0.0041	<0.0040	<0.0078	<0.0074	<0.0047	<0.0046	<0.0075	<0.0055	<0.0036	<0.0037	<0.0044	<0.0053	<0.0057	<0.0061	<0.0202	<0.0203	<0.0068	<0.0063	<0.0041
Chloroethane	mg/kg	<0.0092	<0.0120	<0.0070	<0.0064	<0.0086	<0.0082	<0.0080	<0.0156	<0.0148	<0.0093	<0.0093	<0.0149	<0.0111	<0.0072	<0.0075	<0.0088	<0.0106	<0.0113	<0.0123	<0.0404	<0.0405	<0.0136	<0.0125	<0.0081
Chloroform	mg/kg	<0.0046	<0.0060	<0.0035	<0.0032	<0.0043	<0.0041	<0.0040	<0.0078	<0.0074	<0.0047	<0.0046	<0.0075	<0.0055	<0.0036	<0.0037	<0.0044	<0.0053	<0.0057	<0.0061	<0.0202	<0.0203	<0.0068	<0.0063	<0.0041
Chloromethane	mg/kg	<0.0092	<0.0120	<0.0070	<0.0064	<0.0086	<0.0082	<0.0080	<0.0156	<0.0148	<0.0093	<0.0093	<0.0149	<0.0111	<0.0072	<0.0075	<0.0088	<0.0106	<0.0113	<0.0123	<0.0404	<0.0405	<0.0136	<0.0125	<0.0081
cis-1,2-Dichloroethene	mg/kg	<0.0046	<0.0060	<0.0035	<0.0032	<0.0043	<0.0041	<0.0040	<0.0078	<0.0074	<0.0047	<0.0046	<0.0075	<0.0055	<0.0036	<0.0037	<0.0044	<0.0053	<0.0057	<0.0061	<0.0202	<0.0203	<0.0068	<0.0063	<0.0041
cis-1,3-Dichloropropene	mg/kg	<0.0046	<0.0060	<0.0035	<0.0032	<0.0043	<0.0041	<0.0040	<0.0078	<0.0074	<0.0047	<0.0046	<0.0075	<0.0055	<0.0036	<0.0037	<0.0044	<0.0053	<0.0057	<0.0061	<0.0202	<0.0203	<0.0068	<0.0063	<0.0041
Dibromochloromethane	mg/kg	<0.0018	<0.0024	<0.0014	<0.0013	<0.0017	<0.0016	<0.0016	<0.0031	<0.0030	<0.0019	<0.0019	<0.0030	<0.0022	<0.0014	<0.0015	<0.0018	<0.0021	<0.0023	<0.0025	<0.0081	<0.0081	<0.0027	<0.0025	<0.0016
Dibromomethane	mg/kg	<0.0046	<0.0060	<0.0035	<0.0032	<0.0043	<0.0041	<0.0040	<0.0078	<0.0074	<0.0047	<0.0046	<0.0075	<0.0055	<0.0036	<0.0037	<0.0044	<0.0053	<0.0057	<0.0061	<0.0202	<0.0203	<0.0068	<0.0063	<0.0041
Dichlorodifluoromethane	mg/kg	<0.0092	<0.0120	<0.0070	<0.0064	<0.0086	<0.0082	<0.0080	<0.0156	<0.0148	<0.0093	<0.0093	<0.0149	<0.0111	<0.0072	<0.0075	<0.0088	<0.0106	<0.0113	<0.0123	<0.0404	<0.0405	<0.0136	<0.0125	<0.0081
Diethyl Ether	mg/kg	<0.0046	<0.0060	<0.0035	<0.0032	<0.0043	<0.0041	<0.0040	<0.0078	<0.0074	<0.0047	<0.0046	<0.0075	<0.0055	<0.0036	<0.0037	<0.0044	<0.0053	<0.0057	<0.0061	<0.0202	<0.0203	<0.0068	<0.0063	<0.0041
Di-isopropyl ether	mg/kg	<0.0046	<0.0060	<0.0035	<0.0032	<0.0043	<0.0041	<0.0040	<0.0078	<0.0074	<0.0047	<0.0046	<0.0075	<0.0055	<0.0036	<0.0037	<0.0044	<0.0053	<0.0057	<0.0061	<0.0202	<0.0203	<0.0068	<0.0063	<0.0041
Ethyl tertiary-butyl ether	mg/kg	<0.0046	<0.0060	<0.0035	<0.0032	<0.0043	<0.0041	<0.0040	<0.0078	<0.0074	<0.0047	<0.0046	<0.0075	<0.0055	<0.0036	<0.0037	<0.0044	<0.0053	<0.0057	<0.0061	<0.0202	<0.0203	<0.0068	<0.0063	<0.0041
Ethylbenzene	mg/kg	<0.0046	<0.0060	<0.0035	<0.0032	<0.0043	<0.0041	<0.0040	<0.0078	<0.0074	<0.0047	<0.0046	<0.0075	<0.0055	<0.0036	<0.0037	<0.0044	<0.0053	<0.0057	<0.0061	<0.0202	<0.0203	<0.0068	<0.0063	<0.0041
Hexachlorobutadiene	mg/kg	<0.0046	<0.0060	<0.0035	<0.0032	<0.0043	<0.0041	<0.0040	<0.0078	<0.0074	<0.0047	<0.0046	<0.0075	<0.0055	<0.0036	<0.0037	<0.0044	<0.0053	<0.0057	<0.0061	<0.0202	<0.0203	<0.0068	<0.0063	<0.0041
Isopropylbenzene	mg/kg	<0.0046	<0.0060	<0.0035	<0.0032	<0.0043	<0.0041	<0.0040	<0.0078	<0.0074	<0.0047	<0.0046	<0.0075	<0.0055	<0.0036	<0.0037	<0.0044	<0.0053	<0.0057	<0.0061	<0.0202	<0.0203	<0.0068	<0.0063	<0.0041
Methyl tert-Butyl Ether	mg/kg	<0.0046	<0.0060	<0.0035	<0.0032	<0.0043	<0.0041	<0.0040	<0.0078	<0.0074	<0.0047	<0.0046	<0.0075	<0.0055	<0.0036	<0.0037	<0.0044	<0.0053	<0.0057	<0.0061	<0.0202	<0.0203	<0.0068	<0.0063	<0.0041
Methylene Chloride	mg/kg	<0.0092	<0.0120	<0.0070	<0.0064	<0.0086	<0.0082	<0.0080	<0.0156	<0.0148	<0.0093	<0.0093	<0.0149	<0.0111	<0.0072	<0.0075	<0.0088	<0.0106	<0.0113	<0.0123	<0.0404	<0.0405	<0.0136	<0.0125	<0.0081
Naphthalene	mg/kg	<0.0046	<0.0060	<0.0035	<0.0032	<0.0043	<0.0041	<0.0040	<0.0078	<0.0074	<0.0047	<0.0046	<0.0075	<0.0055	<0.0036	<0.0037	<0.0044	<0.0053	0.226	<0.0061	<0.0202	<0.0203	<0.0068	<0.0063	<0.0041
n-Butylbenzene	mg/kg	<0.0046	<0.0060	<0.0035	<0.0032	<0.0043	<0.0041	<0.0040	<0.0078	<0.0074	<0.0047	<0.0046	<0.0075	<0.0055	<0.0036	<0.0037	<0.0044	<0.0053	<0.0057	<0.0061	<0.0202	<0.0203	<0.0068	<0.0063	<0.0041
n-Propylbenzene	mg/kg	<0.0046	<0.0060	<0.0035	<0.0032	<0.0043	<0.0041	<0.0040	<0.0078	<0.0074	<0.0047	<0.0046	<0.0075	<0.0055	<0.0036	<0.0037	<0.0044	<0.0053	<0.0057	<0.0061	<0.0202	<0.0203	<0.0068	<0.0063	<0.0041
sec-Butylbenzene	mg/kg	<0.0046	<0.0060	<0.0035	<0.0032	<0.0043	<0.0041	<0.0040	<0.0078	<0.0074	<0.0047	<0.0046	<0.0075	<0.0055	<0.0036	<0.0037	<0.0044	<0.0053	<0.0057	<0.0061	<0.0202	<0.0203	<0.0068	<0.0063	<0.0041

J:\170,000-179,999\171521\171521-02.DEL\Supplemental Phase II\Appendices\Appendix H\172521.12 Table

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	K17 K17510 1502333 Natural Organics 29 - 31 2/23/2015	K17 K17511 1502333 Natural Organics 34 - 36 2/23/2015	K17 K17512 1502333 Natural Organics 39 - 41 2/23/2015	K17 K17513 1502333 Natural Sand/Gravel 44 - 46 2/23/2015	K18 K18S01S02 1501434 Fill 0 - 2.3 1/21/2015	K18 K18S03S04A 1501434 Fill 4 - 6.2 1/21/2015	K18 K18S04BS05 1501434 Natural Organics 6.2 - 10 1/21/2015	K18 K18S06 1501434 Natural Organics 14 - 16 1/21/2015	K18 K18S07 1501434 Natural Organics 19 - 21 1/21/2015	K18 K18S08 1501434 Natural Organics 24 - 26 1/21/2015	K18 K18S09 1501434 Natural Organics 29 - 31 1/21/2015	K18 K18S10 1501434 Natural Organics 34 - 36 1/21/2015	K18 K18S11 1501434 Natural Organics 39 - 41 1/21/2015	K18 K18S12 1501434 Natural Sand/Gravel 16 - 44 1/21/2015	L08 GZ00SS03S04 1410628 Natural Clay 19 - 26 10/24/2014	L08 GZ00SS05S08 1410628 Natural Clay 29 - 46 10/24/2014	L09 L09S01S02A 1502077 Fill 0 - 3.3 2/5/2015	L09 L09S02BS04A 1502077 Fill 3.3 - 6.6 2/5/2015	L09 L09S04BS05 1502077 Fill 6.6 - 10 2/5/2015	L09 L09S06 1502077 Natural Organics 10 - 12 2/5/2015	L09 L09S07 1502077 Natural Organics 14 - 16 2/5/2015	L09 L09S08 1502077 Natural Organics 19 - 21 2/5/2015	L09 L09S09 1502077 Natural Clay 24 - 26 2/5/2015	L09 L09S10 1502077 Natural Sand/Gravel 29 - 31 2/5/2015
Preliminary Disposal Facility Category		MCP Regulated Type B-1	Hazardous Material Type A	MCP Regulated Type A	Uncontaminated	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type B-1	Hazardous Material Type A	MCP Regulated Type B-1	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type B-1	Uncontaminated	Uncontaminated	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type A	Uncontaminated	MCP Regulated Type A
Styrene	mg/kg	<0.0046	<0.0060	<0.0035	<0.0032	<0.0043	<0.0041	<0.0040	<0.0078	<0.0074	<0.0047	<0.0046	<0.0075	<0.0055	<0.0036	<0.0037	<0.0044	<0.0053	<0.0057	<0.0061	<0.0202	<0.0203	<0.0068	<0.0063	<0.0041
tert-Butylbenzene	mg/kg	<0.0046	<0.0060	<0.0035	<0.0032	<0.0043	<0.0041	<0.0040	<0.0078	<0.0074	<0.0047	<0.0046	<0.0075	<0.0055	<0.0036	<0.0037	<0.0044	<0.0053	<0.0057	<0.0061	<0.0202	<0.0203	<0.0068	<0.0063	<0.0041
Tertiary-amyl methyl ether	mg/kg	<0.0046	<0.0060	<0.0035	<0.0032	<0.0043	<0.0041	<0.0040	<0.0078	<0.0074	<0.0047	<0.0046	<0.0075	<0.0055	<0.0036	<0.0037	<0.0044	<0.0053	<0.0057	<0.0061	<0.0202	<0.0203	<0.0068	<0.0063	<0.0041
Tetrachloroethene	mg/kg	<0.0046	<0.0060	<0.0035	<0.0032	<0.0043	<0.0041	<0.0040	<0.0078	<0.0074	<0.0047	<0.0046	<0.0075	<0.0055	<0.0036	<0.0037	<0.0044	<0.0053	<0.0057	<0.0061	<0.0202	<0.0203	<0.0068	<0.0063	<0.0041
Tetrahydrofuran	mg/kg	<0.0046	<0.0060	<0.0035	<0.0032	<0.0043	<0.0041	<0.0040	<0.0078	<0.0074	<0.0047	<0.0046	<0.0075	<0.0055	<0.0036	<0.0037	<0.0044	<0.0053	<0.0057	<0.0061	<0.0202	<0.0203	<0.0068	<0.0063	<0.0041
Toluene	mg/kg	<0.0046	<0.0060	<0.0035	<0.0032	<0.0043	<0.0041	<0.0040	<0.0078	<0.0074	<0.0047	<0.0046	<0.0075	<0.0055	<0.0036	<0.0037	<0.0044	<0.0053	<0.0057	<0.0061	<0.0202	<0.0203	<0.0068	<0.0063	<0.0041
trans-1,2-Dichloroethene	mg/kg	<0.0046	<0.0060	<0.0035	<0.0032	<0.0043	<0.0041	<0.0040	<0.0078	<0.0074	<0.0047	<0.0046	<0.0075	<0.0055	<0.0036	<0.0037	<0.0044	<0.0053	<0.0057	<0.0061	<0.0202	<0.0203	<0.0068	<0.0063	<0.0041
trans-1,3-Dichloropropene	mg/kg	<0.0046	<0.0060	<0.0035	<0.0032	<0.0043	<0.0041	<0.0040	<0.0078	<0.0074	<0.0047	<0.0046	<0.0075	<0.0055	<0.0036	<0.0037	<0.0044	<0.0053	<0.0057	<0.0061	<0.0202	<0.0203	<0.0068	<0.0063	<0.0041
Trichloroethene	mg/kg	<0.0046	<0.0060	<0.0035	<0.0032	<0.0043	<0.0041	<0.0040	<0.0078	<0.0074	<0.0047	<0.0046	<0.0075	<0.0055	<0.0036	<0.0037	<0.0044	<0.0053	<0.0057	<0.0061	<0.0202	<0.0203	<0.0068	<0.0063	<0.0041
Trichlorofluoromethane	mg/kg	<0.0046	<0.0060	<0.0035	<0.0032	<0.0043	<0.0041	<0.0040	<0.0078	<0.0074	<0.0047	<0.0046	<0.0075	<0.0055	<0.0036	<0.0037	<0.0044	<0.0053	<0.0057	<0.0061	<0.0202	<0.0203	<0.0068	<0.0063	<0.0041
Vinyl Chloride	mg/kg	<0.0092	<0.0120	<0.0070	<0.0064	<0.0086	<0.0082	<0.0080	<0.0156	<0.0148	<0.0093	<0.0093	<0.0149	<0.0111	<0.0072	<0.0075	<0.0088	<0.0106	<0.0113	<0.0123	<0.0404	<0.0405	<0.0136	<0.0125	<0.0081
Xylene O	mg/kg	<0.0046	<0.0060	<0.0035	<0.0032	<0.0043	<0.0041	<0.0040	<0.0078	<0.0074	<0.0047	<0.0046	<0.0075	<0.0055	<0.0036	<0.0037	<0.0044	<0.0053	<0.0057	<0.0061	<0.0202	<0.0203	<0.0068	<0.0063	<0.0041
Xylene P,M	mg/kg	<0.0092	<0.0120	<0.0070	<0.0064	<0.0086	<0.0082	<0.0080	<0.0156	<0.0148	<0.0093	<0.0093	<0.0149	<0.0111	<0.0072	<0.0075	<0.0088	<0.0106	<0.0113	<0.0123	<0.0404	<0.0405	<0.0136	<0.0125	<0.0081
Xylenes (Total)	mg/kg	<0.0092	<0.0120	<0.0070	<0.0064	<0.0086	<0.0082	<0.0080	<0.0156	<0.0148	<0.0093	<0.0093	<0.0149	<0.0111	<0.0072	<0.0075	<0.0088	<0.0106	<0.0113	<0.0123	<0.0404	<0.0405	<0.0136	<0.0125	<0.0081
Total VOCs (Low Level)	mg/kg	0.0207	0.0307	0.0204	ND	ND	ND	0.0199	0.0601	0.0788	0.0055	0.0194	0.0351	0.0165	ND	ND	ND	0.0311	0.2485	0.0155	0.2843	0.329	0.0322	ND	0.0173
Semi-Volatile Organic Compounds																									
1,2,4-Trichlorobenzene	mg/kg	<1.21	<1.24	<1.14	<0.923	<0.876	<0.999	<1.05	<1.52	<6.39	<1.09	<1.22	<1.46	<1.14	<0.900	<0.991	<1.08	<4.63	<4.99	<0.834	<2.97	<3.23	<1.05	<0.995	<0.971
1,2-Dichlorobenzene	mg/kg	<1.21	<1.24	<1.14	<0.923	<0.876	<0.999	<1.05	<1.52	<6.39	<1.09	<1.22	<1.46	<1.14	<0.900	<0.991	<1.08	<4.63	<4.99	<0.834	<2.97	<3.23	<1.05	<0.995	<0.971
1,3-Dichlorobenzene	mg/kg	<1.21	<1.24	<1.14	<0.923	<0.876	<0.999	<1.05	<1.52	<6.39	<1.09	<1.22	<1.46	<1.14	<0.900	<0.991	<1.08	<4.63	<4.99	<0.834	<2.97	<3.23	<1.05	<0.995	<0.971
1,4-Dichlorobenzene	mg/kg	<0.608	<0.622	<0.571	<0.463	<0.439	<0.501	<0.527	<0.761	<3.21	<0.547	<0.611	<0.732	<0.573	<0.452	<0.497	<0.541	<2.32	<2.50	<0.418	<1.49	<1.62	<0.525	<0.499	<0.487
2,4,5-Trichlorophenol	mg/kg	<1.21	<1.24	<1.14	<0.923	<0.876	<0.999	<1.05	<1.52	<6.39	<1.09	<1.22	<1.46	<1.14	<0.900	<0.991	<1.08	<4.63	<4.99	<0.834	<2.97	<3.23	<1.05	<0.995	<0.971
2,4,6-Trichlorophenol	mg/kg	<1.21	<1.24	<1.14	<0.923	<0.876	<0.999	<1.05	<1.52	<6.39	<1.09	<1.22	<1.46	<1.14	<0.900	<0.991	<1.08	<4.63	<4.99	<0.834	<2.97	<3.23	<1.05	<0.995	<0.971
2,4-Dichlorophenol	mg/kg	<1.21	<1.24	<1.14	<0.923	<0.876	<0.999	<1.05	<1.52	<6.39	<1.09	<1.22	<1.46	<1.14	<0.900	<0.991	<1.08	<4.63	<4.99	<0.834	<2.97	<3.23	<1.05	<0.995	<0.971
2,4-Dimethylphenol	mg/kg	<1.21	<1.24	<1.14	<0.923	<0.876	<0.999	<1.05	<1.52	<6.39	<1.09	<1.22	<1.46	<1.14	<0.900	<0.991	<1.08	<4.63	<4.99	<0.834	<2.97	<3.23	<1.05	<0.995	<0.971
2,4-Dinitrophenol	mg/kg	<6.08	<6.22	<5.71	<4.63	<4.39	<5.01	<5.27	<7.61	<32.1	<5.47	<6.11	<7.32	<5.73	<4.52	<4.97	<5.41	<23.2	<25.0	<4.18	<14.9	<16.2	<5.25	<4.99	<4.87
2,4-Dinitrotoluene	mg/kg	<1.21	<1.24	<1.14	<0.923	<0.876	<0.999	<1.05	<0.380	<1.60	<1.09	<1.22	<1.46	<1.14	<0.900	<0.991	<1.08	<1.16	<1.25	<0.834	<1.49	<1.62	<1.05	<0.995	<0.971
2,6-Dinitrotoluene	mg/kg	<1.21	<1.24	<1.14	<0.923	<0.876	<0.999	<1.05	<1.52	<6.39	<1.09	<1.22	<1.46	<1.14	<0.900	<0.991	<1.08	<4.63	<4.99	<0.834	<2.97	<3.23	<1.05	<0.995	<0.971
2-Chloronaphthalene	mg/kg	<1.21	<1.24	<1.14	<0.923	<0.876	<0.999	<1.05	<1.52	<6.39	<1.09	<1.22	<1.46	<1.14	<0.900	<0.991	<1.08	<4.63	<4.99	<0.834	<2.97	<3.23	<1.05	<0.995	<0.971
2-Chlorophenol	mg/kg	<1.21	<1.24	<1.14	<0.923	<0.876	<0.999	<1.05	<1.52	<6.39	<1.09	<1.22	<1.46	<1.14	<0.900	<0.991	<1.08	<4.63	<4.99	<0.834	<2.97	<3.23	<1.05	<0.995	<0.971
2-Methylnaphthalene	mg/kg	<1.21	<1.24	<1.14	<0.923	<0.876	<0.999	<1.05	<1.52	<6.39	<1.09	<1.22	<1.46	<1.14	<0.900	<0.991	<1.08	<4.63	<4.99	<0.834	<2.97	<3.23	<1.05	<0.995	<0.971
2-Methylphenol	mg/kg	<1.21	<1.24	<1.14	<0.923	<0.876	<0.999	<1.05	<1.52	<6.39	<1.09	<1.22	<1.46	<1.14	<0.900	<0.991	<1.08	<4.63	<4.99	<0.834	<2.97	<3.23	<1.05	<0.995	<0.971
2-Nitrophenol	mg/kg	<1.21	<1.24	<1.14	<0.923	<0.876	<0.999	<1.05	<1.52	<6.39	<1.09	<1.22	<1.46	<1.14	<0.900	<0.991	<1.08	<4.63	<4.99	<0.834	<2.97	<3.23	<1.05	<0.995	<0.971
3,3'-Dichlorobenzidine	mg/kg	<2.43	<2.48	<2.28	<1.85	<1.75	<2.00	<2.10	<3.04	<6.39	<2.18	<2.44	<2.92	<2.29	<1.80	<1.98	<2.16	<9.27	<10.0	<1.67	<5.94	<6.48	<2.10	<1.99	<1.94
3+4-Methylphenol	mg/kg	<2.43	<2.48	<2.28	<1.85	<1.75	<2.00	<2.10	<3.04	<12.8	<2.18	<2.44	<2.92	<2.29	<1.80	<1.98	<2.16	<9.27	<10.0	<1.67	<5.94	<6.48	<2.10	<1.99	<1.94
4-Bromophenyl-phenylether	mg/kg	<1.21	<1.24	<1.14	<0.923	<0.876	<0.999	<1.05	<1.52	<6.39	<1.09	<1.22	<1.46	<1.14	<0.900	<0.991	<1.08	<4.63	<4.99	<0.834	<2.97	<3.23	<1.05	<0.995	<0.971
4-Chloroaniline	mg/kg	<2.43	<2.48	<2.28	<1.85	<1.75	<2.00	<2.10	<0.761	<1.59	<2.18	<2.44	<2.92	<2.29	<1.80	<1.98	<2.16	<2.32	<2.50	<1.67	<1.49	<1.62	<2.10	<1.99	<1.94
4-Nitrophenol	mg/kg	<6.08	<6.22	<5.71	<4.63	<4.39	<5.01	<5.27	<7.61	<32.1	<5.47	<6.11	<7.32	<5.73	<4.52	<4.97	<5.41	<23.2	<25.0	<4.18	<14.9	<16.2	<5.25	<4.99	<4.87
Acenaphthene	mg/kg	<1.21	<1.24	<1.14	<0.923	<0.876	<0.999	<1.05	<1.52	<6.39	<1.09	<1.22	<1.46	<1.14	<0.900	<0.991	<1.08	<4.63	16.2	<0.834	<2.97	<3.23	<1.05	<0.995	<0.971
Acenaphthylene	mg/kg	<1.21	<1.24	<1.14	<0.923	<0.876	<0.999	<1.05	<1.52	<6.39	<1.09	<1.22	<1.46	<1.14	<0.900	<0.991	<1.08	<4.63	<4.99	<0.834	<2.97	<3.23	<1.05	<0.995	<0.971
Acetophenone	mg/kg	<2.43	<2.48	<2.28	<1.85	<1.75	<2.00	<2.10	<3.04	<12.8	<2.18	<2.44	<2.92	<2.29	<1.80	<1.98	<2.16	<9.27	<10.0	<1.67	<5.94	<6.48	<2.10	<1.99	<1.94
Aniline	mg/kg	<6.08	<6.22	<5.71	<4.63	<4.39	<5.01	<5.27	<7.61	<32.1	<5.47	<6.11	<7.32	<5.73	<4.52	<4.97	<5.41	<23.2	<25.0	<4.18	<14.9	<16.2	<5.25	<4.99	<4.87
Anthracene	mg/kg	<1.21	<1.24	<1.14	<0.923	<0.876	1.22	<1.05	<1.52	<6.39	<1.09	<1.22	<1.46	<1.14	<0.900	<0.991	<1.08	<4.63	37.6	<0.834	<2.97	<3.23	<1.05	<0.995	<0.971
Azobenzene	mg/kg	<1.21	<1.24	<1.14	<0.923	<0.876	<0.999	<1.05	<1.52	<6.39	<1.09	<1.22	<1.46	<1.14	<0.900	<0.991	<1.08	<4.63	<4.99	<0.834	<2.97	<3.23	<1.05	<0.995	<0.971
Benzo(a)anthracene	mg/kg	<1.21	<1.24	<1.14	<0.923	<0.876	2.01	<1.05	<1.52	<6.39	<1.09	<1.22	<1.46	<1.14	<0.900	<0.991	<1.08	<4.63	56.9	<0.834	<2.97	<3.23	<1.05	<0.995	<0.971
Benzo(a)pyrene	mg/kg	<0.608	<0.622	<0.571	<0.463	0.753	1.68	<0.527	<0.761	<3.21	<0.547	<0.611	<0.732	<0.573	<0.452	<0.497	<0.541	<2.32	41.6	<0.418	<1.49	<1.62	<0.525	<0.499	<0.487
Benzo(b)fluoranthene	mg/kg	<1.21	<1.24	<1.14	<0.923	1.01	1.89	<1.05	<1.52	<6.39	<1.09	<1.22	<1.46	<1.14	<0.900	<0.991	<1.08	<4.63	56.8	<0.834	<2.97	<3.23	<1.05	<0.995	<0.971
Benzo(g,h,i)perylene	mg/kg	<1.21	<1.24	<1.14	<0.923	<0.876	<0.999	<1.05	<1.52	<6.39	<1.09	<1.22	<1.46	<1.14	<0.900	<0.991	<1.08	<4.63	8.4	<0.834	<2.97	<3.23	<1.05	<0.995	<0.971
Benzo(k)fluoranthene	mg/kg	<1.21	<1.24	<1.14	<0.923	<0.876	<0.999	<1.05	<1.52	<6.39	<1.09	<1.22	<1.46	<1.14	<0.900	<0.991	<1.08	<4.63	22.5	<0.834	<2.97	<3.23	<1.05	<0.995	<0.971
bis(2-Chloroethoxy)methane	mg/kg	<1.21	<1.24	<1.14	<0.923	<0.876	<0.999	<1.05	<1.52	<6.39	<1.09	<1.22	<1.46	<1.14	<0.900	<0.991	<1.08	<4.63	<4.99	<0.834	<2.97	<3.23	<1.05	<0.995	<0.971
bis(2-Chloroethyl)ether	mg/kg	<0.608	<0.622	<0.571	<0.463	<0.439	<0.501	<0.527	<0.150	<0.634	<0.547	<0.611	<0.145	<0.573	<0.452	<0.497	<0.541	<0.459	<0.495	<0.418	<0.294	<0.321	<0.525	<0.499	<0.487
bis(2-chloroisopropyl)Ether	mg/kg	<0.608	<0.622	<0.571	<0.463	<0.439	<0.501	<0.527	<0.150	<0.634	<0.547	<0.611	<0.145	<0.573	<0.452	<0.497	<0.541	<0.459	<0.495	<0.418	<0.294	<0.321	<0.525	<0.499	<0.487
bis(2-Ethylhexyl)phthalate	mg/kg	<1.21	<1.24	<1.14	<0.923	<0.876	<0.999	<1.05	<1.52	<3.21	<1.09	<1.22	<1.46	<1.14	<0.900	<0.991	<1.08	<4.63	<4.99	<0.834	<2.97	<3.23	<1.05	<0.995	<0.971
Butylbenzylphthalate	mg/kg	<1.21	<1.24	<1.14	<0.923	<0.876	<0.999	<1.05	<1.52	<6.39	<1.09	<1.22	<1.46	<1.14	<0.900	<0.991	<1.08	<4.63	<4.99	<0.834	<2.97	<3.23	<1.05	<0.995	<0.971
Chrysene	mg/kg	<0.608	<0.622	<0.571	<0.463	0.765	1.86	<0.527	<0.761	<3.21	<0.547	<0.611	<0.732	<0.573	<0.452	<0.497	<0.541	<2.32	49.3	<0.418	<1.49	<1.62	<0.525	<0.499	<0.487
Dibenzo(a,h)Anthracene	mg/kg	<0.608	<0.622	<0.571	<0.463	<0.439	<0.501	<0.527	<0.761	<3.21	<0.547	<0.611	<0.732	<0.573	<0.452	<0.497	<0.541	<2.32	4.76	<0.418	<1.49	<1.62	<0.525	<0.499	<0.487
Dibenzofuran	mg/kg	<1.21	<1.24	<1.14	<0.923	<0.876	<0.999	<1.05	<1.52	<6.39	<1.09	<1.22	<1.46	<1.14	<0.900	<0.991	<1.08	<4.63	11.5	<0.834	<2.97	<3.23	<1.05	<0.995	<0.971
Diethylphthalate	mg/kg	<1.21	<1.24	<1.14	<0.923	<0.876	<0.999	<1.05	<1.52	<6.39	<1.09	<1.22	<1.46	<1.14	<0.900	<0.991	<1.08	<4.63	<4.99	<0.834	<2.97	<3.23	<1.05	<0.995	<0.971
Dimethylphthalate	mg/kg	<1.21	<1.24	<1.14	<0.923	<0.876	<0.999	<1.05	<1.52	<6.39	<1.09	<1.22	<1.46	<1.14	<0.900	<0.991	<1.08	<4.63	<4.99	<0.834	<2.97	<3.23	<1.05	<0.995	<0.971
Di-n-butylphthalate	mg/kg	<1.21	<1.24	<1.14	<0.923	<0.876	<0.999	<1.05	<1.52	<6.39	<1.09	<1.22	<1.46	<1.14	<0.900	<0.991	<1.08	<4.63	<4.99	<0.834	<2.97	<3.23	<1.05	<0.995	<0.971
Di-n-octylphthalate	mg/kg	<1.21	<1.24	<1.14	<0.923	<0.876	<0.999	<1.05	<1.52	<6.39	<1.09	<1.22	<1.46	<1.14	<0.900	<0.991	<1.08	<4.63	<4.99	<0.834	<2.97	<3.23	<1.05	<0.995	<0.971
Fluoranthene	mg/kg	<1.21	<1.24	<1.14	<0.923	1.78	4.23	<1.05	<1.52	<6.39	<1.09	<1.22	<1.46	<1.14	<0.900	<0.991	<1.08	<4.63	105	<0.834	<2.97	<3.23	<1.05	<0.995	<0.971
Fluorene	mg/kg	<1.21	<1.24	<1.14	<0.923	<0.876	<0.999	<1.05	<1.52	<6.39	<1.09	<1.22	<1.46	<1.14	<0.900	<0.991	<1.08	<4.63	20.3	<0.834	<2.97	<3.23	<1.05	<0.995	<0.971
Hexachlorobenzene	mg/kg	<0.608	<0.622	<0.571	<0.463	<0.439	<0.501	<0.527	<0.380	<1.60	<0.547	<0.611	<0.732	<0.573	<0.452	<0.497	<0.541	<1.16	<1.25	<0.418	<1.49	<1.62	<0.525	<0.499	<0.487
Hexachlorobutadiene	mg/kg	<1.21	<1.24	<1.14	<0.923	<0.876	<0.999	<1.05	<1.52	<6.39	<1.09	<1.22	<1.46	<1.14	<0.900	<0.991	<1.08	<4.63	<4.99	<0.834	<2.97	<3.23	<1.05	<0.995	<0.971
Hexachloroethane	mg/kg	<1.21	<1.24	<1.14	<0.923	<0.876	<0.999	<1.05	<0.761	<6.39	<1.09	<1.22	<1.46	<1.14	<0.900	<0.991	<1.08	<2.32	<2.50	<0.834	<1.49	<1.62	<1.05	<0.995	<0.971
Indeno(1,2,3-cd)Pyrene	mg/kg	<1.21	<1.24	<1.14	<0.923	<0.876	<0.999	<1.05	<1.52	<6.39	<1.09	<1.22	<1.46	<1.14	<0.900	<0.991	<1.08	<4.63	9.35	<0.834	<2.97	<3.23	<1.05	<0.995	<0.971
Isophorone	mg/kg	<1.21	<1.24	<1.14	<0.923	<0.876	<0.999	<1.05	<1.52	<6.39	<1.09	<1.22	<1.46	<1.14	<0.900	<0.991	<1.08	<4.63	<4.99	<0.834	<2.97	<3.23	<1.05	<0.995	<0.971
Naphthalene	mg/kg	<1.21	<1.24	<1.14	<0.923	<0.876	<0.999	<1.05	<1.52	<6.39	<1.09	<1.22	<1.46	<1.14	<0.900	<0.991	<1.08	<4.63	<4.99	<0.834	<2.97	<3.23	<1.05	<0.995	<0.971
Nitrobenzene	mg/kg	<1.21	<1.24	<1.14	<0.923	<0.876	<0.999	<1.05	<1.52	<6.39	<1.09	<1.22	<1.46	<1.14	<0.900	<0.991	<1.08	<4.63	<4.99	<0.834	<2.97	<3.23	<1.05	<0.995	<0.971
N-Nitrosodimethylamine	mg/kg	<1.21	<1.24	<1.14	<0.923	<0.876	<0.999	<1.05	<1.52	<6.39	<1.09	<1.22	<1.46	<1.14	<0.900	<0.991	<1.08	<4.63	<4.99	<0.834	<2.97	<3.23	<1.05	<0.995	<0.971
Pentachlorophenol	mg/kg	<6.08	<6.22	<5.71	<4.63	<4.39	<5.01	<5.27	<1.52	<6.39	<5.47	<6.11	<7.32	<5.73	<4.52	<4.97	<5.41	<4.63	<4.99	<4.18	<2.97	<3.23	<5.25	<4.99	<4.87
Phenanthrene	mg/kg	<1.21	<1.24	<1.14	<0.923	1.13	3.66	<1.05	<1.52	<6.39	<1.09	<1.22	<1.46	<1.14	<0.900	<0.991	<1.08	<4.63	99.6	<0.834	<2.97	<3.23	<1.05	<0.995	<0.971
Phenol	mg/kg	<1.21	<1.24	<1.14	<0.923	<0.876	<0.999	<1.05	3.32	<6.39	<1.09	<1.22	<1.46	<1.14	<0.900	<0.991	<1.08	<4.63	<4.99	<0.834	<2.97	<3.23	<1.05	<0.995	<0.971
Pyrene	mg/kg	<1.21	<1.24	<1.14	<0.923	1.22	3.25	<1.05	<1.52	<6.39	<1.09	<1.22	<1.46	<1.14	<0.900	<0.991	<1.08	<4.63	89.6	<0.834	<2.97	<3.23	<1.05	<0.995	<0.971
Total SVOCs	mg/kg	ND	ND	ND	ND	6.658	19.8	ND	3.32	ND	ND	ND	ND	ND	ND	ND	ND	ND	629.41	ND	ND	ND	ND	ND	ND
Classic Chemistry																									
Corrosivity (pH)	S.U.	7.6	7.52	7.75	7.89	8.66	7.77	7.47	8.34	8.28	8.4	8.44	8.18	8.4	8.31	8.93	8.57	6.12	6.79	8.79	8.06	7.86	7.79	7.63	7
Conductivity	umhos/cm	7840	12300	5680	980	232	164	303	5660	9320	7410	8260	8940	4530	1730	2380	2800	1750	1450	1370	1240	4650	1080	710	1770
Flashpoint	°F	--	--	--	--	>200	>200	--	--	--	--	--	--	--	--	>200	>200	>200	>200	>200	--	--	--	--	--
Reactive Cyanide	mg/kg	--	--	--	--	<2.0	<2.0	--	--	--	--	--	--	--	--	<2.0	<2.0	<2.0	<2.0	<2.0	--	--	--	--	--
Reactive Sulfide	mg/kg	--	--	--	--	<2.0	<2.0	--	--	--	--	--	--	--	--	<2.0	<2.0	<2.0	<2.0	<2.0	--	--	--	--	--

Table 1
Soil Precharacterization Data

Wynn Resort Casino
Everett, Massachusetts

Analyte	Precharacterization Cell	L09	L10	L10	L10	L10	L10	L10	L10	L10	L10	L11	L11	L11	L11	L11	L11	L11	L11	L12	L12	L12	L12	L12
	Sample ID	L09S11S12	L10S01S02A	L10S02BS04A	L10S04BS05	L10S09	L10S10	L10S11	L10S12	L10S13	L10S14	L11S01S02A	L11S02BS03	L11S04	L11S05	L11S06	L11S07	L11S08	L11S09	L11S10S11	L12S01S02A	L12S02BS04A	L12S04B	L12S05S06	L12S07
	Laboratory Work Order	1502077	1501473	1501473	1501473	1501473	1501473	1501473	1501473	1501473	1501473	1501564	1501564	1501564	1501564	1501564	1501564	1501564	1501564	1501564	1501432	1501433	1501433	1501433	1501433
	Soil Distinction	Natural	Fill	Fill	Fill	Natural Organics	Natural Organics	Natural	Natural	Natural Sand/Gravel	Natural Sand/Gravel	Fill	Fill	Natural	Natural Organics	Natural Organics	Natural Organics	Natural	Natural	Natural Sand/Gravel	Fill	Fill	Fill	Fill	Natural
	Soil Type	Clay						Clay	Clay					Clay				Clay	Clay						Organics
	Depth Interval (ft.)	34 - 38	0 - 3.33	3.33 - 6.66	6.66 - 10	16 - 18	19 - 21	24 - 26	29 - 31	34 - 36	36 - 38	0 - 3.3	3.3 - 6	6 - 8	9 - 11	14 - 16	19 - 21	24 - 26	29 - 31	34 - 36	0 - 3.3	3.3 - 6.6	6.6 - 8	8 - 12	14 - 16
	Sampling Date	2/5/2015	1/22/2015	1/22/2015	1/22/2015	1/22/2015	1/22/2015	1/22/2015	1/22/2015	1/22/2015	1/22/2015	1/30/2015	1/30/2015	1/30/2015	1/30/2015	1/30/2015	1/30/2015	1/30/2015	1/30/2015	1/30/2015	1/21/2015	1/21/2015	1/21/2015	1/21/2015	1/21/2015
Preliminary Disposal Facility Category		MCP Restricted	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Uncontaminated	Uncontaminated	MCP Regulated Type A	MCP Regulated Material Type B-2	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A
RCRA 8 Metals	**Units**																								
Arsenic	mg/kg	13.4	7.54	13.9	15.3	<24.6	<7.40	9.08	5.87	<7.25	<6.30	<7.12	23.3	83.1	152	42.3	12.4	<7.42	14.9	<7.28	<6.94	17.3	21.6	266	41.9
Barium	mg/kg	70.3	15	45.6	37.7	25.4	24.3	45.5	59.3	13.2	10.3	20.1	41.3	307	272	60.6	54.4	25.2	59.2	18	23.4	62.9	35.5	107	49.9
Cadmium	mg/kg	<1.42	<1.15	<1.34	<1.30	<4.91	<1.48	<1.47	<1.17	<1.45	<1.26	<1.42	<1.42	<2.33	<2.57	<2.14	<2.26	<1.48	<1.49	<1.46	<1.39	<1.52	<1.56	<2.13	<2.10
Chromium	mg/kg	35.6	18	110	18.7	26.1	26.6	27.3	17.3	13	11.9	16.7	9.29	31.9	36.4	39.6	43.5	22.4	38.9	12.5	18.4	16.3	10.6	49.1	39.9
Lead	mg/kg	<14.2	12.1	111	636	<49.1	<14.8	<14.7	<11.7	<14.5	<12.6	24.5	196	2660	2570	171	<22.6	<14.8	<14.9	14.8	<13.9	286	343	678	286
Selenium	mg/kg	<7.11	<5.77	<13.4	<6.52	<12.3	<7.40	<7.33	<5.83	<7.25	<6.30	<7.12	<7.08	<11.7	<12.8	<10.7	<11.3	<7.42	<7.44	<7.28	<6.94	<15.2	<15.6	11	13.8
Silver	mg/kg	<1.42	<1.15	<1.34	<1.30	<4.91	<1.48	<1.47	<1.17	<1.45	<1.26	<1.42	<1.42	6.07	6.15	<2.14	<2.26	<1.48	<1.49	<1.46	<1.39	<1.52	<1.56	<2.13	<2.10
Mercury	mg/kg	<0.033	<0.031	0.232	0.625	<0.137	<0.043	<0.031	<0.032	<0.024	<0.027	0.05	0.632	0.542	0.779	0.955	<0.053	<0.036	<0.037	<0.033	<0.032	0.528	19.2	3.37	1.26
Metals by Toxicity Characteristic Leaching Procedure (TCLP)																									
Arsenic	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	1.01	--	--	--	--	--	--	--	--	3.74	--
Cadmium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	mg/L	--	--	<0.020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead	mg/L	--	--	<0.050	0.425	--	--	--	--	--	--	--	5.14	0.096	0.123	0.081	--	--	--	--	--	0.763	1.01	2.55	0.145
Selenium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.00050	--	--
Herbicides																									
2,4,5-T	mg/kg	--	<0.046	<0.27	<0.055	--	--	--	--	--	--	<0.059	<0.59	--	--	--	--	--	--	<0.059	<0.087	<0.093	<0.089	<0.069	--
2,4-D	mg/kg	--	<0.046	<0.27	<0.055	--	--	--	--	--	--	<0.059	<0.59	--	--	--	--	--	--	<0.059	<0.44	<0.47	<0.45	<0.34	--
2,4-DB	mg/kg	--	<0.046	<0.27	<0.055	--	--	--	--	--	--	<0.059	<0.59	--	--	--	--	--	--	<0.059	<0.033	<0.035	<0.033	<0.026	--
Dalapon	mg/kg	--	<0.55	<3.3	<0.66	--	--	--	--	--	--	<0.71	<7.1	--	--	--	--	--	--	<0.71	<2.6	<2.8	<2.7	<2.1	--
Dicamba	mg/kg	--	<0.046	<0.27	<0.055	--	--	--	--	--	--	<0.059	<0.59	--	--	--	--	--	--	<0.059	<0.13	<0.14	<0.13	<0.10	--
Dichlorprop	mg/kg	--	<0.046	<0.27	<0.055	--	--	--	--	--	--	<0.059	<0.59	--	--	--	--	--	--	<0.059	<0.28	<0.30	<0.29	<0.22	--
Dinoseb	mg/kg	--	<0.28	<1.7	<0.33	--	--	--	--	--	--	<0.36	<3.5	--	--	--	--	--	--	<0.36	<0.44	<0.47	<0.45	<0.34	--
MCPA	mg/kg	--	<11	<66	<13	--	--	--	--	--	--	<14	<140	--	--	--	--	--	--	<14	<110	<120	<110	<86	--
MCPP	mg/kg	--	<11	<66	<13	--	--	--	--	--	--	<14	<140	--	--	--	--	--	--	<14	<110	<120	<110	<86	--
Silvex (2,4,5-TP)	mg/kg	--	<0.046	<0.27	<0.055	--	--	--	--	--	--	<0.059	<0.59	--	--	--	--	--	--	<0.059	<0.087	<0.093	<0.089	<0.069	--
Pesticides																									
4,4'-DDD	mg/kg	--	<0.0017	<0.034	<0.017	--	--	--	--	--	--	<0.0020	<0.040	--	--	--	--	--	--	<0.0021	<0.0091	<0.040	<0.019	<0.0058	--
4,4'-DDE	mg/kg	--	<0.0017	<0.034	<0.017	--	--	--	--	--	--	<0.0020	<0.040	--	--	--	--	--	--	<0.0021	<0.0091	<0.040	<0.019	<0.0058	--
4,4'-DDT	mg/kg	--	<0.0017	<0.034	<0.017	--	--	--	--	--	--	<0.0020	<0.040	--	--	--	--	--	--	<0.0021	<0.0091	<0.040	<0.019	<0.0058	--
Aldrin	mg/kg	--	<0.0017	<0.034	<0.017	--	--	--	--	--	--	<0.0020	<0.040	--	--	--	--	--	--	<0.0021	<0.0091	<0.040	<0.019	<0.0058	--
alpha-BHC	mg/kg	--	<0.0017	<0.034	<0.017	--	--	--	--	--	--	<0.0020	<0.040	--	--	--	--	--	--	<0.0021	<0.0091	<0.040	<0.019	<0.0058	--
beta-BHC	mg/kg	--	<0.0017	<0.034	<0.017	--	--	--	--	--	--	<0.0020	<0.040	--	--	--	--	--	--	<0.0021	<0.0091	<0.040	<0.019	<0.0058	--
Chlordane (technical)	mg/kg	--	<0.050	<0.99	<0.49	--	--	--	--	--	--	<0.020	<0.40	--	--	--	--	--	--	<0.021	<0.091	<0.40	<0.19	<0.058	--
delta-BHC	mg/kg	--	<0.0017	<0.034	<0.017	--	--	--	--	--	--	<0.0020	<0.040	--	--	--	--	--	--	<0.0021	<0.0091	<0.040	<0.019	<0.0058	--
Dieldrin	mg/kg	--	<0.0017	<0.034	<0.017	--	--	--	--	--	--	<0.0020	<0.040	--	--	--	--	--	--	<0.0021	<0.0091	<0.040	<0.019	<0.0058	--
Endosulfan I	mg/kg	--	<0.0017	<0.034	<0.017	--	--	--	--	--	--	<0.0020	<0.040	--	--	--	--	--	--	<0.0021	<0.0091	<0.040	<0.019	<0.0058	--
Endosulfan II	mg/kg	--	<0.0017	<0.034	<0.017	--	--	--	--	--	--	<0.0020	<0.040	--	--	--	--	--	--	<0.0021	<0.0091	<0.040	<0.019	<0.0058	--
Endosulfan sulfate	mg/kg	--	<0.0017	<0.034	<0.017	--	--	--	--	--	--	<0.0020	<0.040	--	--	--	--	--	--	<0.0021	<0.0091	<0.040	<0.019	<0.0058	--
Endrin	mg/kg	--	<0.0017	<0.034	<0.017	--	--	--	--	--	--	<0.0020	<0.040	--	--	--	--	--	--	<0.0021	<0.0091	<0.040	<0.019	<0.0058	--
Endrin ketone	mg/kg	--	<0.0017	<0.034	<0.017	--	--	--	--	--	--	<0.0020	<0.040	--	--	--	--	--	--	<0.0021	<0.0091	<0.040	<0.019	<0.0058	--
gamma-BHC (Lindane)	mg/kg	--	<0.0017	<0.034	<0.017	--	--	--	--	--	--	<0.0020	<0.040	--	--	--	--	--	--	<0.0021	<0.0091	<0.040	<0.019	<0.0058	--
Heptachlor	mg/kg	--	<0.0017	<0.034	<0.017	--	--	--	--	--	--	<0.0020	<0.040	--	--	--	--	--	--	<0.0021	<0.0091	<0.040	<0.019	<0.0058	--
Heptachlor epoxide	mg/kg	--	<0.0017	<0.034	<0.017	--	--	--	--	--	--	<0.0020	<0.040	--	--	--	--	--	--	<0.0021	<0.0091	<0.040	<0.019	<0.0058	--
Hexachlorobenzene	mg/kg	--	<0.0017	<0.034	<0.017	--	--	--	--	--	--	<0.0020	<0.040	--	--	--	--	--	--	<0.0021	<0.0091	<0.040	<0.019	<0.0058	--
Methoxychlor	mg/kg	--	<0.0033	<0.065	<0.033	--	--	--	--	--	--	<0.0020	<0.040	--	--	--	--	--	--	<0.0021	<0.0091	<0.040	<0.019	<0.0058	--
Polychlorinated Biphenyls																									
Aroclor 1016	mg/kg	<0.139	<0.134	<0.140	<0.131	<0.510	<0.161	<0.149	<0.129	<0.136	<0.129	<0.131	<0.137	<0.221	<0.219	<0.202	<0.216	<0.143	<0.155	<0.146	<0.132	<0.133	<0.135	<0.193	<0.210
Aroclor 1221	mg/kg	<0.139	<0.134	<0.140	<0.131	<0.510	<0.161	<0.149	<0.129	<0.136	<0.129	<0.131	<0.137	<0.221	<0.219	<0.202	<0.216	<0.143	<0.155	<0.146	<0.132	<0.133	<0.135	<0.193	<0.210
Aroclor 1232	mg/kg	<0.139	<0.134	<0.140	<0.131	<0.510	<0.161	<0.149	<0.129	<0.136	<0.129	<0.131	<0.137	<0.221	<0.219	<0.202	<0.216	<0.143	<0.155	<0.146	<0.132	<0.133	<0.135	<0.193	<0.210
Aroclor 1242	mg/kg	<0.139	<0.134	<0.140	<0.131	<0.510	<0.161	<0.149	<0.129	<0.136	<0.129	<0.131	<0.137	<0.221	<0.219	<0.202	<0.216	<0.143	<0.155	<0.146	<0.132	<0.133	<0.135	<0.193	<0.210
Aroclor 1248	mg/kg	<0.139	<0.134	<0.140	<0.131	<0.510	<0.161	<0.149	<0.129	<0.136	<0.129	<0.131	<0.137	<0.221	<0.219	<0.202	<0.216	<0.143	<0.155	<0.146	<0.132	<0.133	<0.135	<0.193	<0.210
Aroclor 1254	mg/kg	<0.139	<0.134	<0.140	<0.131	<0.510	<0.161	<0.149	<0.129	<0.136	<0.129	<0.131	0.182	<0.221	<0.219	<0.202	<0.216	<0.143	<0.155	<0.146	<0.132	1.27	<0.135	<0.193	<0.210
Aroclor 1260	mg/kg	<0.139	<0.134	<0.140	<0.131	<0.510	<0.161	<0.149	<0.129	<0.136	<0.129	<0.131	<0.137	<0.221	<0.219	<0.202	<0.216	<0.143	<0.155	<0.146	<0.132	1.44	<0.135	<0.193	<0.210
Aroclor 1262	mg/kg	<0.139	<0.134	<0.140	<0.131	<0.510	<0.161	<0.149	<0.129	<0.136	<0.129	<0.131	<0.137	<0.221	<0.219	<0.202	<0.216	<0.143	<0.155	<0.146	<0.132	<0.133	<0.135	<0.193	<0.210
Aroclor 1268	mg/kg	<0.139	<0.134	<0.140	<0.131	<0.510	<0.161	<0.149	<0.129	<0.136	<0.129	<0.131	<0.137	<0.221	<0.219	<0.202	<0.216	<0.143	<0.155	<0.146	<0.132	<0.133	<0.135	<0.193	<0.210
Total PCBs	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.182	ND	ND	ND	ND	ND	ND	ND	ND	2.71	ND	ND	ND
Total Petroleum Hydrocarbons	mg/kg	<46.4	<42.8	532	42.9	1740	59.9	<45.7	<43.1	<39.2	<40.8	126	632	282	524	169	<69.0	<46.5	<48.7	<46.7	88.9	544	224	612	155
Volatile Organic Compounds (VOCs)																									
1,1,1,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-Chloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane - Screen	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Butanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Isopropyltoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-Pentanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Disulfide	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Analyte	Precharacterization Cell	L09	L10	L10	L10	L10	L10	L10	L10	L10	L10	L10	L11	L11	L11	L11	L11	L11	L11	L11	L11	L12	L12	L12	L12	L12
	Sample ID	L09S11S12	L10S01S02A	L10S02BS04A	L10S04BS05	L10S09	L10S10	L10S11	L10S12	L10S13	L10S14	L11S01S02A	L11S02BS03	L11S04	L11S05	L11S06	L11S07	L11S08	L11S09	L11S10S11	L12S01S02A	L12S02BS04A	L12S04B	L12S05S06	L12S07
	Laboratory Work Order	1502077	1501473	1501473	1501473	1501473	1501473	1501473	1501473	1501473	1501473	1501564	1501564	1501564	1501564	1501564	1501564	1501564	1501564	1501564	1501432	1501433	1501433	1501433	1501433
	Soil Distinction	Natural	Fill	Fill	Fill	Natural Organics	Natural	Natural	Natural	Natural Sand/Gravel	Natural Sand/Gravel	Fill	Fill	Natural	Natural Organics	Natural Organics	Natural Organics	Natural	Natural	Natural Sand/Gravel	Fill	Fill	Fill	Fill	Natural Organics
	Depth Interval (ft.)	Clay 34 - 38	0 - 3.33	3.33 - 6.66	6.66 - 10	16 - 18	19 - 21	24 - 26	29 - 31	34 - 36	36 - 38	0 - 3.3	3.3 - 6	Clay 6 - 8	9 - 11	14 - 16	19 - 21	Clay 24 - 26	29 - 31	34 - 36	0 - 3.3	3.3 - 6.6	6.6 - 8	8 - 12	14 - 16
	Sampling Date	2/5/2015	1/22/2015	1/22/2015	1/22/2015	1/22/2015	1/22/2015	1/22/2015	1/22/2015	1/22/2015	1/22/2015	1/30/2015	1/30/2015	1/30/2015	1/30/2015	1/30/2015	1/30/2015	1/30/2015	1/30/2015	1/30/2015	1/21/2015	1/21/2015	1/21/2015	1/21/2015	1/21/2015
Preliminary Disposal Facility Category		MCP Restricted	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Uncontaminated	Uncontaminated	MCP Regulated Type A	MCP Regulated Material Type B-2	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A
Chlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Diethyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Di-isopropyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethyl tertiary-butyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
tert-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tertiary-amyl methyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene O	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene P,M	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylenes (Total)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total VOCs	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds - Low Level Analysis																										
1,1,1,2-Tetrachloroethane	mg/kg	<0.0041	<0.0055	<0.0073	<0.0053	<0.0225	<0.0098	<0.0048	<0.0049	<0.0034	<0.0042	<0.0066	<0.0043	<0.0085	<0.0084	<0.0088	<0.0074	<0.0057	<0.0055	<0.0047	<0.0042	<0.0064	<0.0037	<0.0048	<0.0069
1,1,1-Trichloroethane	mg/kg	<0.0041	<0.0055	<0.0073	<0.0053	<0.0225	<0.0098	<0.0048	<0.0049	<0.0034	<0.0042	<0.0066	<0.0043	<0.0085	<0.0084	<0.0088	<0.0074	<0.0057	<0.0055	<0.0047	<0.0042	<0.0064	<0.0037	<0.0048	<0.0069
1,1,2,2-Tetrachloroethane	mg/kg	<0.0016	<0.0022	<0.0029	<0.0021	<0.0090	<0.0039	<0.0019	<0.0020	<0.0014	<0.0017	<0.0026	<0.0017	<0.0034	<0.0034	<0.0035	<0.0030	<0.0023	<0.0022	<0.0019	<0.0017	<0.0026	<0.0015	<0.0019	<0.0028
1,1,2-Trichloroethane	mg/kg	<0.0041	<0.0055	<0.0073	<0.0053	<0.0225	<0.0098	<0.0048	<0.0049	<0.0034	<0.0042	<0.0066	<0.0043	<0.0085	<0.0084	<0.0088	<0.0074	<0.0057	<0.0055	<0.0047	<0.0042	<0.0064	<0.0037	<0.0048	<0.0069
1,1-Dichloroethane	mg/kg	<0.0041	<0.0055	<0.0073	<0.0053	<0.0225	<0.0098	<0.0048	<0.0049	<0.0034	<0.0042	<0.0066	<0.0043	<0.0085	<0.0084	<0.0088	<0.0074	<0.0057	<0.0055	<0.0047	<0.0042	<0.0064	<0.0037	<0.0048	<0.0069
1,1-Dichloroethene	mg/kg	<0.0041	<0.0055	<0.0073	<0.0053	<0.0225	<0.0098	<0.0048	<0.0049	<0.0034	<0.0042	<0.0066	<0.0043	<0.0085	<0.0084	<0.0088	<0.0074	<0.0057	<0.0055	<0.0047	<0.0042	<0.0064	<0.0037	<0.0048	<0.0069
1,1-Dichloropropene	mg/kg	<0.0041	<0.0055	<0.0073	<0.0053	<0.0225	<0.0098	<0.0048	<0.0049	<0.0034	<0.0042	<0.0066	<0.0043	<0.0085	<0.0084	<0.0088	<0.0074	<0.0057	<0.0055	<0.0047	<0.0042	<0.0064	<0.0037	<0.0048	<0.0069
1,2,3-Trichlorobenzene	mg/kg	<0.0041	<0.0055	<0.0073	<0.0053	<0.0225	<0.0098	<0.0048	<0.0049	<0.0034	<0.0042	<0.0066	<0.0043	<0.0085	<0.0084	<0.0088	<0.0074	<0.0057	<0.0055	<0.0047	<0.0042	<0.0064	<0.0037	<0.0048	<0.0069
1,2,3-Trichloropropane	mg/kg	<0.0041	<0.0055	<0.0073	<0.0053	<0.0225	<0.0098	<0.0048	<0.0049	<0.0034	<0.0042	<0.0066	<0.0043	<0.0085	<0.0084	<0.0088	<0.0074	<0.0057	<0.0055	<0.0047	<0.0042	<0.0064	<0.0037	<0.0048	<0.0069
1,2,4-Trichlorobenzene	mg/kg	<0.0041	<0.0055	<0.0073	<0.0053	<0.0225	<0.0098	<0.0048	<0.0049	<0.0034	<0.0042	<0.0066	<0.0043	<0.0085	<0.0084	<0.0088	<0.0074	<0.0057	<0.0055	<0.0047	<0.0042	<0.0064	<0.0037	<0.0048	<0.0069
1,2,4-Trimethylbenzene	mg/kg	<0.0041	<0.0055	<0.0073	<0.0053	<0.0225	<0.0098	<0.0048	<0.0049	<0.0034	<0.0042	<0.0066	<0.0043	<0.0085	<0.0084	<0.0088	<0.0074	<0.0057	<0.0055	<0.0047	<0.0042	<0.0064	<0.0037	<0.0048	<0.0069
1,2-Dibromo-3-Chloropropane	mg/kg	<0.0041	<0.0055	<0.0073	<0.0053	<0.0225	<0.0098	<0.0048	<0.0049	<0.0034	<0.0042	<0.0066	<0.0043	<0.0085	<0.0084	<0.0088	<0.0074	<0.0057	<0.0055	<0.0047	<0.0042	<0.0064	<0.0037	<0.0048	<0.0069
1,2-Dibromoethane	mg/kg	<0.0041	<0.0055	<0.0073	<0.0053	<0.0225	<0.0098	<0.0048	<0.0049	<0.0034	<0.0042	<0.0066	<0.0043	<0.0085	<0.0084	<0.0088	<0.0074	<0.0057	<0.0055	<0.0047	<0.0042	<0.0064	<0.0037	<0.0048	<0.0069
1,2-Dichlorobenzene	mg/kg	<0.0041	<0.0055	<0.0073	<0.0053	<0.0225	<0.0098	<0.0048	<0.0049	<0.0034	<0.0042	<0.0066	<0.0043	<0.0085	<0.0084	<0.0088	<0.0074	<0.0057	<0.0055	<0.0047	<0.0042	<0.0064	<0.0037	<0.0048	<0.0069
1,2-Dichloroethane	mg/kg	<0.0041	<0.0055	<0.0073	<0.0053	<0.0225	<0.0098	<0.0048	<0.0049	<0.0034	<0.0042	<0.0066	<0.0043	<0.0085	<0.0084	<0.0088	<0.0074	<0.0057	<0.0055	<0.0047	<0.0042	<0.0064	<0.0037	<0.0048	<0.0069
1,2-Dichloropropane	mg/kg	<0.0041	<0.0055	<0.0073	<0.0053	<0.0225	<0.0098	<0.0048	<0.0049	<0.0034	<0.0042	<0.0066	<0.0043	<0.0085	<0.0084	<0.0088	<0.0074	<0.0057	<0.0055	<0.0047	<0.0042	<0.0064	<0.0037	<0.0048	<0.0069
1,3,5-Trimethylbenzene	mg/kg	<0.0041	<0.0055	<0.0073	<0.0053	<0.0225	<0.0098	<0.0048	<0.0049	<0.0034	<0.0042	<0.0066	<0.0043	<0.0085	<0.0084	<0.0088	<0.0074	<0.0057	<0.0055	<0.0047	<0.0042	<0.0064	<0.0037	<0.0048	<0.0069
1,3-Dichlorobenzene	mg/kg	<0.0041	<0.0055	<0.0073	<0.0053	<0.0225	<0.0098	<0.0048	<0.0049	<0.0034	<0.0042	<0.0066	<0.0043	<0.0085	<0.0084	<0.0088	<0.0074	<0.0057	<0.0055	<0.0047	<0.0042	<0.0064	<0.0037	<0.0048	<0.0069
1,3-Dichloropropane	mg/kg	<0.0041	<0.0055	<0.0073	<0.0053	<0.0225	<0.0098	<0.0048	<0.0049	<0.0034	<0.0042	<0.0066	<0.0043	<0.0085	<0.0084	<0.0088	<0.0074	<0.0057	<0.0055	<0.0047	<0.0042	<0.0064	<0.0037	<0.0048	<0.0069
1,4-Dichlorobenzene	mg/kg	<0.0041	<0.0055	<0.0073	<0.0053	<0.0225	<0.0098	<0.0048	<0.0049	<0.0034	<0.0042	<0.0066	<0.0043	<0.0085	<0.0084	<0.0088	<0.0074	<0.0057	<0.0055	<0.0047	<0.0042	<0.0064	<0.0037	<0.0048	<0.0069
1,4-Dioxane	mg/kg	<0.0812	<0.110	<0.146	<0.106	<0.450	<0.196	<0.0957	<0.0985	<0.0687	<0.0849	<0.132	<0.0858	<0.169	<0.168	<0.176	<0.149	<0.113	<0.110	<0.0948	<0.0841	<0.128	<0.0739	<0.0962	<0.139
2,2-Dichloropropane	mg/kg	<0.0041	<0.0055	<0.0073	<0.0053	<0.0225	<0.0098	<0.0048	<0.0049	<0.0034	<0.0042	<0.0066	<0.0043	<0.0085	<0.0084	<0.0088	<0.0074	<0.0057	<0.0055	<0.0047	<0.0042	<0.0064	<0.0037	<0.0048	<0.0069
2-Butanone	mg/kg	<0.0081	<0.0110	<0.0146	<0.0106	0.101	0.0315	<0.0096	<0.0099	<0.0069	<0.0085	<0.0132	<0.0086	<0.0169	<0.0168	<0.0176	<0.0149	<0.0113	<0.0110	<0.0095	<0.0084	0.0312	<0.0074	0.0317	0.0311
2-Chlorotoluene	mg/kg	<0.0041	<0.0055	<0.0073	<0.0053	<0.0225	<0.0098	<0.0048	<0.0049	<0.0034	<0.0042	<0.0066	<0.0043	<0.0085	<0.0084	<0.0088	<0.0074	<0.0057	<0.0055	<0.0047	<0.0042	<0.0064	<0.0037	<0.0048	<0.0069
2-Hexanone	mg/kg	<0.0081	<0.0110	<0.0146	<0.0106	<0.0450	<0.0196	<0.0096	<0.0099	<0.0069	<0.0085	<0.0132	<0.0086	<0.0169	<0.0168	<0.0176	<0.0149	<0.0113	<0.0110	<0.0095	<0.0084	<0.0128	<0.0074	<0.0096	<0.0139
4-Chlorotoluene	mg/kg	<0.0041	<0.0055	<0.0073	<0.0053	<0.0225	<0.0098	<0.0048	<0.0049	<0.0034	<0.0042	<0.0066	<0.0043	<0.0085	<0.0084	<0.0088	<0.0074	<0.0057	<0.0055	<0.0047	<0.0042	<0.0064	<0.0037	<0.0048	<0.0069
4-Isopropyltoluene	mg/kg	<0.0041	<0.0055	<0.0073	<0.0053	<0.0225	<0.0098	<0.0048	<0.0049	<0.0034	<0.0042	<0.0066	<0.0043	<0.0085	<0.0084	<0.0088	<0.0074	<0.0057	<0.0055	<0.0047	<0.0042	<0.0064	<0.0037	<0.0048	<0.0069
4-Methyl-2-Pentanone	mg/kg	<0.0081	<0.0110	<0.0146	<0.0106	<0.0450	<0.0196	<0.0096	<0.0099	<0.0069	<0.0085	<0.0132	<0.0086	<0.0169	<0.0168	<0.0176	<0.0149	<0.0113	<0.0110	<0.0095	<0.0084	<0.0128	<0.0074	<0.0096	<0.0139
Acetone	mg/kg	<0.0081	0.0286	0.025	0.0518	1.03	0.288	0.0188	0.0628	<0.0069	<0.0085	0.0234	0.0668	0.0255	0.0512	0.0604	0.0289	0.0196	0.0207	0.0159	<0.0084	0.216	0.0464	0.215	0.201
Benzene	mg/kg	<0.0041	<0.0055	<0.0073	<0.0053	<0.0225	<0.0098	<0.0048	<0.0049	<0.0034	<0.0042	<0.0066	<0.0043	<0.0085	<0.0084	<0.0088	<0.0074	<0.0057	<0.0055	<0.0047	<0.0042	<0.0064	<0.0037	<0.0048	<0.0069
Bromobenzene	mg/kg	<0.0041	<0.0055	<0.0073	<0.0053	<0.0225	<0.0098	<0.0048	<0.0049	<0.0034	<0.0042	<0.0066	<0.0043	<0.0085	<0.0084	<0.0088	<0.0074	<0.0057	<0.0055	<0.0047	<0.0042	<0.0064	<0.0037	<0.0048	<0.0069
Bromochloromethane	mg/kg	<0.0041	<0.0055	<0.0073	<0.0053	<0.0225	<0.0098	<0.0048	<0.0049	<0.0034	<0.0042	<0.0066	<0.0043	<0.0085	<0.0084	<0.0088	<0.0074	<0.0057	<0.0055	<0.0047	<0.0042	<0.0064	<0.0037	<0.0048	<0.0069
Bromodichloromethane	mg/kg	<0.0041	<0.0055	<0.0073	<0.0053	<0.0225	<0.0098	<0.0048	<0.0049	<0.0034	<0.0042	<0.0066	<0.0043	<0.0085	<0.0084	<0.0088	<0.0074	<0.0057	<0.0055	<0.0047	<0.0042	<0.0064	<0.0037	<0.0048	<0.0069
Bromoform	mg/kg	<0.0041	<0.0055	<0.0073	<0.0053	<0.0225	<0.0098	<0.0048	<0.0049	<0.0034	<0.0042	<0.0066	<0.0043	<0.0085	<0.0084	<0.0088	<0.0074	<0.0057	<0.0055	<0.0047	<0.0042	<0.0064	<0.0037	<0.0048	<0.0069
Bromomethane	mg/kg	<0.0081	<0.0110	<0.0146	<0.0106	<0.0450	<0.0196	<0.0096	<0.0099	<0.0069	<0.0085	<0.0132	<0.0086	<0.0169	<0.0168	<0.0176	<0.0149	<0.0113	<0.0110	<0.0095	<0.0084	<0.0128	<0.0074	<0.0096	<0.0139
Carbon Disulfide	mg/kg	<0.0041	0.0068	0.0966	<0.0053	0.0666	0.0285	<0.0048	<0.0049	<0.0034	<0.0042	<0.0066	<0.0043	<0.0085	<0.0084	<0.0088	0.0181	<0.0057	<0.0055	<0.0047	<0.0042	<0.0064	<0.0037	0.007	0.0162
Carbon Tetrachloride	mg/kg	<0.0041	<0.0055	<0.0073	<0.0053	<0.0225	<0.0098	<0.0048	<0.0049	<0.0034	<0.0042	<0.0066	<0.0043	<0.0085	<0.0084	<0.0088	<0.0074	<0.0057	<0.0055	<0.0047	<0.0042	<0.0064	<0.0037	<0.0048	<0.0069
Chlorobenzene	mg/kg	<0.0041	<0.0055	<0.0073	<0.0053	<0.0225	<0.0098	<0.0048	<0.0049	<0.0034	<0.0042	<0.0066	<0.0043	<0.0085	<0.0084	<0.0088	<0.0074	<0.0057	<0.0055	<0.0047	<0.0042	<0.0064	<0.0037	<0.0048	<0.0069
Chloroethane	mg/kg	<0.0081	<0.0110	<0.0146	<0.0106	<0.0450	<0.0196	<0.0096	<0.0099	<0.0069	<0.0085	<0.0132	<0.0086	<0.0169	<0.0168	<0.0176	<0.0149	<0.0113	<0.0110	<0.0095	<0.0084	<0.0128	<0.0074	<0.0096	<0.0139
Chloroform	mg/kg	<0.0041	<0.0055	<0.0073	<0.0053	<0.0225	<0.0098	<0.0048	<0.0049	<0.0034	<0.0042	<0.0066	<0.0043	<0.0085	<0.0084	<0.0088	<0.0074	<0.0057	<0.0055	<0.0047	<0.0042	<0.0064	<0.0037	<0.0048	<0.0069
Chloromethane	mg/kg	<0.0081	<0.0110	<0.0146	<0.0106	<0.0450	<0.0196	<0.0096	<0.0099	<0.0069	<0.0085	<0.0132	<0.0086	<0.0169	<0.0168	<0.0176	<0.0149	<0.0113	<0.0110	<0.0095	<0.0084	<0.0128	<0.0074	<0.0096	<0.0139
cis-1,2-Dichloroethene	mg/kg	<0.0041	<0.0055	<0.0073	<0.0053	<0.0225	<0.0098	<0.0048	<0.0049	<0.0034	<0.0042	<0.0066	<0.0043	<0.0085	<0.0084	<0.0088	<0.0074	<0.0057	<0.0055	<0.0047	<0.0042	<0.0064	<0.0037	<0.0048	<0.0069
cis-1,3-Dichloropropene	mg/kg	<0.0041	<0.0055	<0.0073	<0.0053	<0.0225	<0.0098	<0.0048	<0.0049	<0.0034	<0.0042	<0.0066	<0.0043	<0.0085	<0.0084	<0.0088	<0.0074	<0.0057	<0.0055	<0.0047	<0.0042	<0.0064	<0.0037	<0.0048	<0.0069
Dibromochloromethane	mg/kg	<0.0016	<0.0022	<0.0029	<0.0021	<0.0090	<0.0039	<0.0019	<0.0020	<0.0014	<0.0017	<0.0026	<0.0017	<0.0034	<0.0034	<0.0035	<0.0030	<0.0023	<0.0022	<0.0019	<0.0017	<0.0026	<0.0015	<0.0019	<0.0028
Dibromomethane	mg/kg	<0.0041	<0.0055	<0.0073	<0.0053	<0.0225	<0.0098	<0.0048	<0.0049	<0.0034	<0.0042	<0.0066	<0.0043	<0.0085	<0.0084	<0.0088	<0.0074	<0.0057	<0.0055	<0.0047	<0.0042	<0.0064	<0.0037	<0.0048	<0.0069
Dichlorodifluoromethane	mg/kg	<0.0081	<0.0110	<0.0146	<0.0106	<0.0450	<0.0196	<0.0096	<0.0099	<0.0069	<0.0085	<0.0132	<0.0086	<0.0169	<0.0168	<0.0176	<0.0149	<0.0113	<0.0110	<0.0095	<0.0084	<0.0128	<0.0074	<0.0096	<0.0139
Diethyl Ether	mg/kg	<0.0041	<0.0055	<0.0073	<0.0053	<0.0225	<0.0098	<0.0048	<0.0049	<0.0034	<0.0042	<0.0066	<0.0043	<0.0085	<0.0084	<0.0088	<0.0074	<0.0057	<0.0055	<0.0047	<0.0042	<0.0064	<0.0037	<0.0048	<0.0069
Di-isopropyl ether	mg/kg	<0.0041	<0.0055	<0.0073	<0.0053	<0.0225	<0.0098	<0.0048	<0.0049	<0.0034	<0.0042	<0.0066	<0.0043	<0.0085	<0.0084	<0.0088	<0.0074	<0.0057	<0.0055	<0.0047	<0.0042	<0.0064	<0.0037	<0.0048	<0.0069
Ethyl tertiary-butyl ether	mg/kg	<0.0041	<0.0055	<0.0073	<0.0053	<0.0225	<0.0098	<0.0048	<0.0049	<0.0034	<0.0042	<0.0066	<0.0043	<0.0085	<0.0084	<0.0088	<0.0074	<0.0057	<0.0055	<0.0047	<0.0042	<0.0064	<0.0037	<0.0048	<0.0069
Ethylbenzene	mg/kg	<0.0041	<0.0055	<0.0073	<0.0053	<0.0225	<0.0098	<0.0048	<0.0049	<0.0034	<0.0042	<0.0066	<0.0043	<0.0085	<0.0084	<0.0088	<0.0074	<0.0057	<0.0055	<0.0047	<0.0042	<0.0064	<0.0037	<0.0048	<0.0069
Hexachlorobutadiene	mg/kg	<0.0041	<0.0055	<0.0073	<0.0053	<0.0225	<0.0098	<0.0048	<0.0049	<0.0034	<0.0042	<0.0066	<0.0043	<0.0085	<0.0084	<0.0088	<0.0074	<0.0057	<0.0055	<0.0047	<0.0042	<0.0064	<0.0037	<0.0048	<0.0069
Isopropylbenzene	mg/kg	<0.0041	<0.0055	<0.0073	<0.0053	<0.0225	<0.0098	<0.0048	<0.0049	<0.0034	<0.0042	<0.0066	<0.0043	<0.0085	<0.0084	<0.0088	<0.0074	<0.0057	<0.0055	<0.0047	<0.0042	<0.0064	<0.0037	<0.0048	<0.0069
Methyl tert-Butyl Ether	mg/kg	<0.0041	<0.0055	<0.0073	<0.0053	<0.0225	<0.0098	<0.0048	<0.0049	<0.0034	<0.0042	<0.0066	<0.0043	<0.0085	<0.0084	<0.0088	<0.0074	<0.0057	<0.0055	<0.0047	<0.0042	<0.0064	<0.0037	<0.0048	<0.0069
Methylene Chloride	mg/kg	<0.0081	<0.0110	<0.0146	<0.0106	<0.0450	<0.0196	<0.0096	<0.0099	<0.0069	<0.0085	<0.0132	<0.0086	<0.0169	<0.0168	<0.0176	<0.0149	<0.0113	<0.0110	<0.0095	<0.0084	<0.0128	<0.0074	<0.0096	<0.0139
Naphthalene	mg/kg	<0.0041	<0.0055	<0.0073	0.155	0.0274	<0.0098	<0.0048	<0.0049	<0.0034	<0.0042	<0.0066	<0.0043	<0.0085	<0.0084	<0.0088	<0.0074	<0.0057	<0.0055	<0.0047	<0.0042	<0.0064	<0.0037	<0.0048	<0.0069
n-Butylbenzene	mg/kg	<0.0041	<0.0055	<0.0073	<0.0053	<0.0225	<0.0098	<0.0048	<0.0049	<0.0034	<0.0042	<0.0066	<0.0043	<0.0085	<0.0084	<0.0088	<0.0074	<0.0057	<0.0055	<0.0047	<0.0042	<0.0064	<0.0037	<0.0048	<0.0069
n-Propylbenzene	mg/kg	<0.0041	<0.0055	<0.0073	<0.0053	<0.0225	<0.0098	<0.0048	<0.0049	<0.0034	<0.0042	<0.0066	<0.0043	<0.0085	<0.0084	<0.0088	<0.0074	<0.0057	<0.0055	<0.0047	<0.0042	<0.0064	<0.0037	<0.0048	<0.0069
sec-Butylbenzene	mg/kg	<0.0041	<0.0055	<0.0073	<0.0053	<0.0225	<0.0098	<0.0048	<0.0049	<0.0034	<0.0042	<0.0066	<0.0043	<0.0085	<0.0084	<0.0088	<0.0074	<0.0057	<0.0055	<0.0047	<0.0042	<0.0064	<0.0037	<0.0048	<0.0069

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	L09 L09S11S12 1502077 Natural Clay 34 - 38 2/5/2015	L10 L10S01S02A 1501473 Fill 0 - 3.33 1/22/2015	L10 L10S02BS04A 1501473 Fill 3.33 - 6.66 1/22/2015	L10 L10S04BS05 1501473 Fill 6.66 - 10 1/22/2015	L10 L10S09 1501473 Natural Organics 16 - 18 1/22/2015	L10 L10S10 1501473 Natural Organics 19 - 21 1/22/2015	L10 L10S11 1501473 Natural Clay 24 - 26 1/22/2015	L10 L10S12 1501473 Natural Clay 29 - 31 1/22/2015	L10 L10S13 1501473 Natural Sand/Gravel 34 - 36 1/22/2015	L10 L10S14 1501473 Natural Sand/Gravel 36 - 38 1/22/2015	L11 L11S01S02A 1501564 Fill 0 - 3.3 1/30/2015	L11 L11S02BS03 1501564 Fill 3.3 - 6 1/30/2015	L11 L11S04 1501564 Natural Clay 6 - 8 1/30/2015	L11 L11S05 1501564 Natural Organics 9 - 11 1/30/2015	L11 L11S06 1501564 Natural Organics 14 - 16 1/30/2015	L11 L11S07 1501564 Natural Organics 19 - 21 1/30/2015	L11 L11S08 1501564 Natural Clay 24 - 26 1/30/2015	L11 L11S09 1501564 Natural Clay 29 - 31 1/30/2015	L11 L11S10S11 1501564 Natural Sand/Gravel 34 - 36 1/30/2015	L12 L12S01S02A 1501432 Fill 0 - 3.3 1/21/2015	L12 L12S02BS04A 1501433 Fill 3.3 - 6.6 1/21/2015	L12 L12S04B 1501433 Fill 6.6 - 8 1/21/2015	L12 L12S05S06 1501433 Fill 8 - 12 1/21/2015	L12 L12S07 1501433 Natural Organics 14 - 16 1/21/2015
Preliminary Disposal Facility Category		MCP Restricted	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Uncontaminated	Uncontaminated	MCP Regulated Type A	MCP Regulated Material Type B-2	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A
Styrene	mg/kg	<0.0041	<0.0055	<0.0073	<0.0053	<0.0225	<0.0098	<0.0048	<0.0049	<0.0034	<0.0042	<0.0066	<0.0043	<0.0085	<0.0084	<0.0088	<0.0074	<0.0057	<0.0055	<0.0047	<0.0042	<0.0064	<0.0037	<0.0048	<0.0069
tert-Butylbenzene	mg/kg	<0.0041	<0.0055	<0.0073	<0.0053	<0.0225	<0.0098	<0.0048	<0.0049	<0.0034	<0.0042	<0.0066	<0.0043	<0.0085	<0.0084	<0.0088	<0.0074	<0.0057	<0.0055	<0.0047	<0.0042	<0.0064	<0.0037	<0.0048	<0.0069
Tertiary-amyl methyl ether	mg/kg	<0.0041	<0.0055	<0.0073	<0.0053	<0.0225	<0.0098	<0.0048	<0.0049	<0.0034	<0.0042	<0.0066	<0.0043	<0.0085	<0.0084	<0.0088	<0.0074	<0.0057	<0.0055	<0.0047	<0.0042	<0.0064	<0.0037	<0.0048	<0.0069
Tetrachloroethene	mg/kg	<0.0041	<0.0055	<0.0073	<0.0053	<0.0225	<0.0098	<0.0048	<0.0049	<0.0034	<0.0042	<0.0066	<0.0043	<0.0085	<0.0084	<0.0088	<0.0074	<0.0057	<0.0055	<0.0047	<0.0042	<0.0064	<0.0037	<0.0048	<0.0069
Tetrahydrofuran	mg/kg	<0.0041	<0.0055	<0.0073	<0.0053	<0.0225	<0.0098	<0.0048	<0.0049	<0.0034	<0.0042	<0.0066	<0.0043	<0.0085	<0.0084	<0.0088	<0.0074	<0.0057	<0.0055	<0.0047	<0.0042	<0.0064	<0.0037	<0.0048	<0.0069
Toluene	mg/kg	<0.0041	<0.0055	<0.0073	<0.0053	0.0358	<0.0098	<0.0048	<0.0049	<0.0034	<0.0042	<0.0066	<0.0043	<0.0085	<0.0084	<0.0088	<0.0074	<0.0057	<0.0055	<0.0047	<0.0042	<0.0064	<0.0037	<0.0048	<0.0069
trans-1,2-Dichloroethene	mg/kg	<0.0041	<0.0055	<0.0073	<0.0053	<0.0225	<0.0098	<0.0048	<0.0049	<0.0034	<0.0042	<0.0066	<0.0043	<0.0085	<0.0084	<0.0088	<0.0074	<0.0057	<0.0055	<0.0047	<0.0042	<0.0064	<0.0037	<0.0048	<0.0069
trans-1,3-Dichloropropene	mg/kg	<0.0041	<0.0055	<0.0073	<0.0053	<0.0225	<0.0098	<0.0048	<0.0049	<0.0034	<0.0042	<0.0066	<0.0043	<0.0085	<0.0084	<0.0088	<0.0074	<0.0057	<0.0055	<0.0047	<0.0042	<0.0064	<0.0037	<0.0048	<0.0069
Trichloroethene	mg/kg	<0.0041	<0.0055	<0.0073	<0.0053	<0.0225	<0.0098	<0.0048	<0.0049	<0.0034	<0.0042	<0.0066	<0.0043	<0.0085	<0.0084	<0.0088	<0.0074	<0.0057	<0.0055	<0.0047	<0.0042	<0.0064	<0.0037	<0.0048	<0.0069
Trichlorofluoromethane	mg/kg	<0.0041	<0.0055	<0.0073	<0.0053	<0.0225	<0.0098	<0.0048	<0.0049	<0.0034	<0.0042	<0.0066	<0.0043	<0.0085	<0.0084	<0.0088	<0.0074	<0.0057	<0.0055	<0.0047	<0.0042	<0.0064	<0.0037	<0.0048	<0.0069
Vinyl Chloride	mg/kg	<0.0081	<0.0110	<0.0146	<0.0106	<0.0450	<0.0196	<0.0096	<0.0099	<0.0069	<0.0085	<0.0132	<0.0086	<0.0169	<0.0168	<0.0176	<0.0149	<0.0113	<0.0110	<0.0095	<0.0084	<0.0128	<0.0074	<0.0096	<0.0139
Xylene O	mg/kg	<0.0041	<0.0055	<0.0073	<0.0053	<0.0225	<0.0098	<0.0048	<0.0049	<0.0034	<0.0042	<0.0066	<0.0043	<0.0085	<0.0084	<0.0088	<0.0074	<0.0057	<0.0055	<0.0047	<0.0042	<0.0064	<0.0037	<0.0048	<0.0069
Xylene P,M	mg/kg	<0.0081	<0.0110	<0.0146	<0.0106	<0.0450	<0.0196	<0.0096	<0.0099	<0.0069	<0.0085	<0.0132	<0.0086	<0.0169	<0.0168	<0.0176	<0.0149	<0.0113	<0.0110	<0.0095	<0.0084	<0.0128	<0.0074	<0.0096	<0.0139
Xylenes (Total)	mg/kg	<0.0081	<0.0110	<0.0146	<0.0106	<0.0450	<0.0196	<0.0096	<0.0099	<0.0069	<0.0085	<0.0132	<0.0086	<0.0169	<0.0168	<0.0176	<0.0149	<0.0113	<0.0110	<0.0095	<0.0084	<0.0128	<0.0074	<0.0096	<0.0139
Total VOCs (Low Level)	mg/kg	ND	0.0354	0.1216	0.2068	1.2608	0.348	0.0188	0.0628	ND	ND	0.0234	0.0668	0.0255	0.0512	0.0604	0.047	0.0196	0.0207	0.0159	ND	0.2472	0.0464	0.2537	0.2483
Semi-Volatile Organic Compounds																									
1,2,4-Trichlorobenzene	mg/kg	<0.957	<0.853	<0.956	<0.839	<6.53	<0.967	<0.947	<0.813	<0.901	<0.808	<0.779	<4.30	<1.43	<1.57	<1.24	<1.35	<0.904	<1.02	<0.927	<0.805	<0.832	<0.967	<1.35	<1.43
1,2-Dichlorobenzene	mg/kg	<0.957	<0.853	<0.956	<0.839	<6.53	<0.967	<0.947	<0.813	<0.901	<0.808	<0.779	<4.30	<1.43	<1.57	<1.24	<1.35	<0.904	<1.02	<0.927	<0.805	<0.832	<0.967	<1.35	<1.43
1,3-Dichlorobenzene	mg/kg	<0.957	<0.853	<0.956	<0.839	<6.53	<0.967	<0.947	<0.813	<0.901	<0.808	<0.779	<4.30	<1.43	<1.57	<1.24	<1.35	<0.904	<1.02	<0.927	<0.805	<0.832	<0.967	<1.35	<1.43
1,4-Dichlorobenzene	mg/kg	<0.480	<0.428	<0.480	<0.421	<3.27	<0.485	<0.475	<0.408	<0.452	<0.405	<0.391	<2.16	<0.719	<0.786	<0.624	<0.679	<0.453	<0.513	<0.465	<0.404	<0.417	<0.485	<0.675	<0.719
2,4,5-Trichlorophenol	mg/kg	<0.957	<0.853	<0.956	<0.839	<6.53	<0.967	<0.947	<0.813	<0.901	<0.808	<0.779	<4.30	<1.43	<1.57	<1.24	<1.35	<0.904	<1.02	<0.927	<0.805	<0.832	<0.967	<1.35	<1.43
2,4,6-Trichlorophenol	mg/kg	<0.957	<0.853	<0.956	<0.839	<6.53	<0.967	<0.947	<0.813	<0.901	<0.808	<0.779	<4.30	<1.43	<1.57	<1.24	<1.35	<0.904	<1.02	<0.927	<0.805	<0.832	<0.967	<1.35	<1.43
2,4-Dichlorophenol	mg/kg	<0.957	<0.853	<0.956	<0.839	<6.53	<0.967	<0.947	<0.813	<0.901	<0.808	<0.779	<4.30	<1.43	<1.57	<1.24	<1.35	<0.904	<1.02	<0.927	<0.805	<0.832	<0.967	<1.35	<1.43
2,4-Dimethylphenol	mg/kg	<0.957	<0.853	<0.956	<0.839	<6.53	<0.967	<0.947	<0.813	<0.901	<0.808	<0.779	<4.30	<1.43	<1.57	<1.24	<1.35	<0.904	<1.02	<0.927	<0.805	<0.832	<0.967	<1.35	<1.43
2,4-Dinitrophenol	mg/kg	<4.80	<4.28	<4.80	<4.21	<32.7	<4.85	<4.75	<4.08	<4.52	<4.05	<3.91	<21.6	<7.19	<7.86	<6.24	<6.79	<4.53	<5.13	<4.65	<4.04	<4.17	<4.85	<6.75	<7.19
2,4-Dinitrotoluene	mg/kg	<0.957	<0.853	<0.956	<0.839	<1.64	<0.967	<0.947	<0.813	<0.901	<0.808	<0.779	<4.30	<1.43	<1.57	<1.24	<1.35	<0.904	<1.02	<0.927	<0.805	<0.832	<0.967	<1.35	<1.43
2,6-Dinitrotoluene	mg/kg	<0.957	<0.853	<0.956	<0.839	<6.53	<0.967	<0.947	<0.813	<0.901	<0.808	<0.779	<4.30	<1.43	<1.57	<1.24	<1.35	<0.904	<1.02	<0.927	<0.805	<0.832	<0.967	<1.35	<1.43
2-Chloronaphthalene	mg/kg	<0.957	<0.853	<0.956	<0.839	<6.53	<0.967	<0.947	<0.813	<0.901	<0.808	<0.779	<4.30	<1.43	<1.57	<1.24	<1.35	<0.904	<1.02	<0.927	<0.805	<0.832	<0.967	<1.35	<1.43
2-Chlorophenol	mg/kg	<0.957	<0.853	<0.956	<0.839	<6.53	<0.967	<0.947	<0.813	<0.901	<0.808	<0.779	<4.30	<1.43	<1.57	<1.24	<1.35	<0.904	<1.02	<0.927	<0.805	<0.832	<0.967	<1.35	<1.43
2-Methylnaphthalene	mg/kg	<0.957	<0.853	<0.956	<0.839	<6.53	<0.967	<0.947	<0.813	<0.901	<0.808	<0.779	<4.30	<1.43	<1.57	<1.24	<1.35	<0.904	<1.02	<0.927	<0.805	<0.832	<0.967	<1.35	<1.43
2-Methylphenol	mg/kg	<0.957	<0.853	<0.956	<0.839	<6.53	<0.967	<0.947	<0.813	<0.901	<0.808	<0.779	<4.30	<1.43	<1.57	<1.24	<1.35	<0.904	<1.02	<0.927	<0.805	<0.832	<0.967	<1.35	<1.43
2-Nitrophenol	mg/kg	<0.957	<0.853	<0.956	<0.839	<6.53	<0.967	<0.947	<0.813	<0.901	<0.808	<0.779	<4.30	<1.43	<1.57	<1.24	<1.35	<0.904	<1.02	<0.927	<0.805	<0.832	<0.967	<1.35	<1.43
3,3´-Dichlorobenzidine	mg/kg	<1.92	<1.71	<1.92	<1.68	<13.1	<1.94	<1.90	<1.63	<1.81	<1.62	<1.56	<8.61	<2.87	<3.14	<2.49	<2.71	<1.81	<2.05	<1.86	<1.61	<1.67	<1.94	<2.70	<2.87
3+4-Methylphenol	mg/kg	<1.92	<1.71	<1.92	<1.68	<13.1	<1.94	<1.90	<1.63	<1.81	<1.62	<1.56	<8.61	<2.87	<3.14	<2.49	<2.71	<1.81	<2.05	<1.86	<1.61	<1.67	<1.94	<2.70	<2.87
4-Bromophenyl-phenylether	mg/kg	<0.957	<0.853	<0.956	<0.839	<6.53	<0.967	<0.947	<0.813	<0.901	<0.808	<0.779	<4.30	<1.43	<1.57	<1.24	<1.35	<0.904	<1.02	<0.927	<0.805	<0.832	<0.967	<1.35	<1.43
4-Chloroaniline	mg/kg	<1.92	<1.71	<1.92	<1.68	<3.27	<1.94	<1.90	<1.63	<1.81	<1.62	<0.391	<2.16	<2.87	<3.14	<2.49	<2.71	<1.81	<2.05	<1.86	<1.61	<1.67	<1.94	<2.70	<2.87
4-Nitrophenol	mg/kg	<4.80	<4.28	<4.80	<4.21	<32.7	<4.85	<4.75	<4.08	<4.52	<4.05	<3.91	<21.6	<7.19	<7.86	<6.24	<6.79	<4.53	<5.13	<4.65	<4.04	<4.17	<4.85	<6.75	<7.19
Acenaphthene	mg/kg	<0.957	<0.853	<0.956	<0.839	<6.53	<0.967	<0.947	<0.813	<0.901	<0.808	<0.779	<4.30	<1.43	<1.57	<1.24	<1.35	<0.904	<1.02	<0.927	<0.805	<0.832	<0.967	<1.35	<1.43
Acenaphthylene	mg/kg	<0.957	<0.853	1.22	<0.839	<6.53	<0.967	<0.947	<0.813	<0.901	<0.808	<0.779	<4.30	<1.43	<1.57	<1.24	<1.35	<0.904	<1.02	<0.927	<0.805	<0.832	<0.967	<1.35	<1.43
Acetophenone	mg/kg	<1.92	<1.71	<1.92	<1.68	<13.1	<1.94	<1.90	<1.63	<1.81	<1.62	<1.56	<8.61	<2.87	<3.14	<2.49	<2.71	<1.81	<2.05	<1.86	<1.61	<1.67	<1.94	<2.70	<2.87
Aniline	mg/kg	<4.80	<4.28	<4.80	<4.21	<32.7	<4.85	<4.75	<4.08	<4.52	<4.05	<3.91	<21.6	<7.19	<7.86	<6.24	<6.79	<4.53	<5.13	<4.65	<4.04	<4.17	<4.85	<6.75	<7.19
Anthracene	mg/kg	<0.957	<0.853	<0.956	<0.839	<6.53	<0.967	<0.947	<0.813	<0.901	<0.808	<0.779	<4.30	<1.43	<1.57	<1.24	<1.35	<0.904	<1.02	<0.927	<0.805	<0.832	<0.967	<1.35	<1.43
Azobenzene	mg/kg	<0.957	<0.853	<0.956	<0.839	<6.53	<0.967	<0.947	<0.813	<0.901	<0.808	<0.779	<4.30	<1.43	<1.57	<1.24	<1.35	<0.904	<1.02	<0.927	<0.805	<0.832	<0.967	<1.35	<1.43
Benzo(a)anthracene	mg/kg	<0.957	<0.853	3.14	<0.839	<6.53	<0.967	<0.947	<0.813	<0.901	<0.808	<0.779	<4.30	<1.43	<1.57	<1.24	<1.35	<0.904	<1.02	<0.927	<0.805	1.01	<0.967	<1.35	<1.43
Benzo(a)pyrene	mg/kg	<0.480	<0.428	3.19	<0.421	<3.27	<0.485	<0.475	<0.408	<0.452	<0.405	<0.391	<2.16	<0.719	<0.786	0.638	<0.679	<0.453	<0.513	<0.465	<0.404	0.962	<0.485	<0.675	<0.719
Benzo(b)fluoranthene	mg/kg	<0.957	<0.853	5.16	<0.839	<6.53	<0.967	<0.947	<0.813	<0.901	<0.808	<0.779	<4.30	<1.43	<1.57	<1.24	<1.35	<0.904	<1.02	<0.927	<0.805	1.77	<0.967	<1.35	<1.43
Benzo(g,h,i)perylene	mg/kg	<0.957	<0.853	1.15	<0.839	<6.53	<0.967	<0.947	<0.813	<0.901	<0.808	<0.779	<4.30	<1.43	<1.57	<1.24	<1.35	<0.904	<1.02	<0.927	<0.805	<0.832	<0.967	<1.35	<1.43
Benzo(k)fluoranthene	mg/kg	<0.957	<0.853	2.98	<0.839	<6.53	<0.967	<0.947	<0.813	<0.901	<0.808	<0.779	<4.30	<1.43	<1.57	<1.24	<1.35	<0.904	<1.02	<0.927	<0.805	<0.832	<0.967	<1.35	<1.43
bis(2-Chloroethoxy)methane	mg/kg	<0.957	<0.853	<0.956	<0.839	<6.53	<0.967	<0.947	<0.813	<0.901	<0.808	<0.779	<4.30	<1.43	<1.57	<1.24	<1.35	<0.904	<1.02	<0.927	<0.805	<0.832	<0.967	<1.35	<1.43
bis(2-Chloroethyl)ether	mg/kg	<0.480	<0.428	<0.480	<0.421	<0.647	<0.485	<0.475	<0.408	<0.452	<0.405	<0.077	<0.426	<0.360	<0.393	<0.624	<0.679	<0.453	<0.513	<0.465	<0.404	<0.417	<0.485	<0.675	<0.719
bis(2-chloroisopropyl)Ether	mg/kg	<0.480	<0.428	<0.480	<0.421	<0.647	<0.485	<0.475	<0.408	<0.452	<0.405	<0.077	<0.426	<0.360	<0.393	<0.624	<0.679	<0.453	<0.513	<0.465	<0.404	<0.417	<0.485	<0.675	<0.719
bis(2-Ethylhexyl)phthalate	mg/kg	<0.957	<0.853	<0.956	<0.839	<6.53	<0.967	<0.947	<0.813	<0.901	<0.808	<0.779	<4.30	<1.43	<1.57	<1.24	<1.35	<0.904	<1.02	<0.927	<0.805	<0.832	<0.967	<1.35	<1.43
Butylbenzylphthalate	mg/kg	<0.957	<0.853	<0.956	<0.839	<6.53	<0.967	<0.947	<0.813	<0.901	<0.808	<0.779	<4.30	<1.43	<1.57	<1.24	<1.35	<0.904	<1.02	<0.927	<0.805	<0.832	<0.967	<1.35	<1.43
Chrysene	mg/kg	<0.480	<0.428	3.59	<0.421	<3.27	<0.485	<0.475	<0.408	<0.452	<0.405	<0.391	<2.16	<0.719	<0.786	0.72	<0.679	<0.453	<0.513	<0.465	<0.404	1	<0.485	0.822	<0.719
Dibenzo(a,h)Anthracene	mg/kg	<0.480	<0.428	0.614	<0.421	<3.27	<0.485	<0.475	<0.408	<0.452	<0.405	<0.391	<2.16	<0.719	<0.786	<0.624	<0.679	<0.453	<0.513	<0.465	<0.404	<0.417	<0.485	<0.675	<0.719
Dibenzofuran	mg/kg	<0.957	<0.853	<0.956	<0.839	<6.53	<0.967	<0.947	<0.813	<0.901	<0.808	<0.779	<4.30	<1.43	<1.57	<1.24	<1.35	<0.904	<1.02	<0.927	<0.805	<0.832	<0.967	<1.35	<1.43
Diethylphthalate	mg/kg	<0.957	<0.853	<0.956	<0.839	<6.53	<0.967	<0.947	<0.813	<0.901	<0.808	<0.779	<4.30	<1.43	<1.57	<1.24	<1.35	<0.904	<1.02	<0.927	<0.805	<0.832	<0.967	<1.35	<1.43
Dimethylphthalate	mg/kg	<0.957	<0.853	<0.956	<0.839	<6.53	<0.967	<0.947	<0.813	<0.901	<0.808	<0.779	<4.30	<1.43	<1.57	<1.24	<1.35	<0.904	<1.02	<0.927	<0.805	<0.832	<0.967	<1.35	<1.43
Di-n-butylphthalate	mg/kg	<0.957	<0.853	<0.956	<0.839	<6.53	<0.967	<0.947	<0.813	<0.901	<0.808	<0.779	<4.30	<1.43	<1.57	<1.24	<1.35	<0.904	<1.02	<0.927	<0.805	<0.832	<0.967	<1.35	<1.43
Di-n-octylphthalate	mg/kg	<0.957	<0.853	<0.956	<0.839	<6.53	<0.967	<0.947	<0.813	<0.901	<0.808	<0.779	<4.30	<1.43	<1.57	<1.24	<1.35	<0.904	<1.02	<0.927	<0.805	<0.832	<0.967	<1.35	<1.43
Fluoranthene	mg/kg	<0.957	<0.853	4.83	<0.839	<6.53	<0.967	<0.947	<0.813	<0.901	<0.808	<0.779	<4.30	<1.43	<1.57	1.83	<1.35	<0.904	<1.02	<0.927	<0.805	1.91	<0.967	1.5	<1.43
Fluorene	mg/kg	<0.957	<0.853	<0.956	<0.839	<6.53	<0.967	<0.947	<0.813	<0.901	<0.808	<0.779	<4.30	<1.43	<1.57	<1.24	<1.35	<0.904	<1.02	<0.927	<0.805	<0.832	<0.967	<1.35	<1.43
Hexachlorobenzene	mg/kg	<0.480	<0.428	<0.480	<0.421	<1.64	<0.485	<0.475	<0.408	<0.452	<0.405	<0.391	<2.16	<0.719	<0.786	<0.624	<0.679	<0.453	<0.513	<0.465	<0.404	<0.417	<0.485	<0.675	<0.719
Hexachlorobutadiene	mg/kg	<0.957	<0.853	<0.956	<0.839	<6.53	<0.967	<0.947	<0.813	<0.901	<0.808	<0.779	<4.30	<1.43	<1.57	<1.24	<1.35	<0.904	<1.02	<0.927	<0.805	<0.832	<0.967	<1.35	<1.43
Hexachloroethane	mg/kg	<0.957	<0.853	<0.956	<0.839	<3.27	<0.967	<0.947	<0.813	<0.901	<0.808	<0.391	<2.16	<1.43	<1.57	<1.24	<1.35	<0.904	<1.02	<0.927	<0.805	<0.832	<0.967	<1.35	<1.43
Indeno(1,2,3-cd)Pyrene	mg/kg	<0.957	<0.853	1.08	<0.839	<6.53	<0.967	<0.947	<0.813	<0.901	<0.808	<0.779	<4.30	<1.43	<1.57	<1.24	<1.35	<0.904	<1.02	<0.927	<0.805	<0.832	<0.967	<1.35	<1.43
Isophorone	mg/kg	<0.957	<0.853	<0.956	<0.839	<6.53	<0.967	<0.947	<0.813	<0.901	<0.808	<0.779	<4.30	<1.43	<1.57	<1.24	<1.35	<0.904	<1.02	<0.927	<0.805	<0.832	<0.967	<1.35	<1.43
Naphthalene	mg/kg	<0.957	<0.853	<0.956	<0.839	<6.53	<0.967	<0.947	<0.813	<0.901	<0.808	<0.779	<4.30	<1.43	<1.57	<1.24	<1.35	<0.904	<1.02	<0.927	<0.805	<0.832	<0.967	<1.35	<1.43
Nitrobenzene	mg/kg	<0.957	<0.853	<0.956	<0.839	<6.53	<0.967	<0.947	<0.813	<0.901	<0.808	<0.779	<4.30	<1.43	<1.57	<1.24	<1.35	<0.904	<1.02	<0.927	<0.805	<0.832	<0.967	<1.35	<1.43
N-Nitrosodimethylamine	mg/kg	<0.957	<0.853	<0.956	<0.839	<6.53	<0.967	<0.947	<0.813	<0.901	<0.808	<0.779	<4.30	<1.43	<1.57	<1.24	<1.35	<0.904	<1.02	<0.927	<0.805	<0.832	<0.967	<1.35	<1.43
Pentachlorophenol	mg/kg	<4.80	<4.28	<4.80	<4.21	<6.53	<4.85	<4.75	<4.08	<4.52	<4.05	<0.779	<4.30	<7.19	<7.86	<6.24	<6.79	<4.53	<5.13	<4.65	<4.04	<4.17	<4.85	<6.75	<7.19
Phenanthrene	mg/kg	<0.957	<0.853	1.35	<0.839	<6.53	<0.967	<0.947	<0.813	<0.901	<0.808	<0.779	<4.30	<1.43	<1.57	1.77	<1.35	<0.904	<1.02	<0.927	<0.805	1.19	<0.967	<1.35	<1.43
Phenol	mg/kg	<0.957	<0.853	<0.956	<0.839	8.03	<0.967	<0.947	<0.813	<0.901	<0.808	<0.779	<4.30	<1.43	<1.57	<1.24	<1.35	<0.904	<1.02	<0.927	<0.805	<0.832	<0.967	<1.35	<1.43
Pyrene	mg/kg	<0.957	<0.853	4.07	<0.839	<6.53	<0.967	<0.947	<0.813	<0.901	<0.808	<0.779	<4.30	<1.43	<1.57	1.51	<1.35	<0.904	<1.02	<0.927	<0.805	1.59	<0.967	1.35	<1.43
Total SVOCs	mg/kg	ND	ND	32.374	ND	8.03	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.468	ND	ND	ND	ND	ND	9.432	ND	3.672	ND
Classic Chemistry																									
Corrosivity (pH)	S.U.	6.99	7.45	6.78	7.38	7.72	7.71	7.74	7.18	7.09	6.91	8.45	7.79	4.14	6.62	8.27	8.39	8.31	7.92	7.04	8.44	8.11	7.54	5.25	7.23
Conductivity	umhos/cm	1640	1620	1130	1890	8530	3040	3180	2060	1580	2160	931	935	1100	797	1280	8400	3420	2470	1820	718	1450	4870	2810	4890
Flashpoint	°F	--	>200	>200	>200	--	--	--	--	--	--	>200	>200	--	--	--	--	--	--	--	>200	>200	>200	--	--
Reactive Cyanide	mg/kg	--	<2.0	<2.0	<2.0	--	--	--	--	--	--	<2.0	<2.0	--	--	--	--	--	--	--	<2.0	<2.0	<2.0	--	--
Reactive Sulfide	mg/kg	--	<2.0	<2.0	<2.0	--	--	--	--	--	--	<2.0	<2.0	--	--	--	--	--	--	--	<2.0	<2.0	<2.0	--	--

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	L12 L12S08 1501433 Natural Organics 19 - 21 1/21/2015	L12 L12S09 1501433 Natural Organics 24 - 26 1/21/2015	L12 L12S10 1501433 Natural Clay 29 - 31 1/21/2015	L12 L12S11S12 1501433 Natural Clay 34 - 38 1/21/2015	L13 L13S01S02A 1501547 Fill 0 - 3.3 1/29/2015	L13 L13S02BS04A 1501547 Fill 3.3 - 6.6 1/29/2015	L13 L13S04BS05 1501547 Fill 6.6 - 10 1/29/2015	L13 L13S06 1501547 Natural Clay 10 - 12 1/29/2015	L13 L13S07S08 1501547 Natural Organics 12 - 16 1/29/2015	L13 L13S09 1501547 Natural Organics 19 - 21 1/29/2015	L13 L13S10 1501547 Natural Organics 24 - 26 1/29/2015	L13 L13S11 1501547 Natural Sand/Gravel 29 - 31 1/29/2015	L13 L13S12S13 1501547 Natural Clay 34 - 38 1/29/2015	L14 L14S01S02A 1501432 Fill 0 - 3.3 1/21/2015	L14 L14S02BS04A 1501432 Fill 3.3 - 6.6 1/21/2015	L14 L14S04B 1501432 Fill 6.6 - 8 1/21/2015	L14 L14S07 1501432 Natural Organics 12 - 14 1/21/2015	L14 L14S08 1501432 Natural Organics 14 - 16 1/21/2015	L14 L14S09 1501432 Natural Organics 19 - 21 1/21/2015	L14 L14S10 1501432 Natural Sand/Gravel 24 - 26 1/21/2015	L14 L14S11 1501432 Natural Sand/Gravel 29 - 31 1/21/2015	L14 L14S12S13 1501432 Natural Clay 38 - 39 1/21/2015	L15 GZ004S01S02 1410530 Fill 0 - 4 10/21/2014	L15 GZ004S03S06 1410530 Fill 4 - 11 10/21/2014
Preliminary Disposal Facility Category		Hazardous Material Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type B-1	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type B-1	Uncontaminated	Uncontaminated	MCP Regulated Type B-1	MCP Regulated Type A	Hazardous Material Type B
RCRA 8 Metals	**Units**																								
Arsenic	mg/kg	19.4	11.1	10.1	9.97	5.68	36	<6.84	136	1140	<16.0	<7.56	<7.16	9.11	9.09	8.33	<6.77	195	208	<13.4	<7.91	<7.21	20.7	9.83	24.6
Barium	mg/kg	61.5	31.9	45.3	92.2	25.6	86.2	23.8	189	55.4	30.6	22.5	16.4	65.5	31.5	66.4	27	52.6	55	38.7	14.1	11.2	124	65.3	207
Cadmium	mg/kg	<2.47	<1.70	<1.54	<1.68	<1.11	<1.27	<1.37	1.9	8.99	<3.20	<1.51	<1.43	<1.36	<1.39	<1.35	<1.35	<3.40	<3.78	<2.68	<1.58	<1.44	<1.64	<0.34	1.05
Chromium	mg/kg	52.7	27.5	31.1	43.1	19.1	21.5	5.18	27.3	59.9	27.1	22.4	8.85	38.8	25.6	15.6	17.2	44.4	47.6	24.9	14.8	11.1	69.4	17.7	15.4
Lead	mg/kg	<24.7	<17.0	<15.4	<16.8	261	853	60.9	1800	1490	<32.0	<15.1	<14.3	<13.6	41.1	91.8	<13.5	262	279	<26.8	<15.8	<14.4	20.5	184	826
Selenium	mg/kg	<12.4	<8.49	<7.70	<8.41	<5.55	24.9	<13.7	<18.1	17.4	<16.0	<7.56	<14.3	<6.79	<6.94	<6.76	<13.5	<17.0	<18.9	<13.4	<15.8	<14.4	<8.19	<10.3	<18.2
Silver	mg/kg	<2.47	<1.70	<1.54	<1.68	<1.11	1.49	<1.37	2.39	<5.48	<3.20	<1.51	<1.43	<1.36	<1.39	<1.35	<1.35	<3.40	<3.78	<2.68	<1.58	<1.44	<1.64	<0.34	<0.91
Mercury	mg/kg	<0.061	0.052	<0.036	<0.037	<0.035	2.26	0.36	1	2.41	<0.085	<0.033	<0.023	<0.027	0.199	0.159	<0.031	0.591	0.819	<0.060	<0.040	<0.033	<0.044	3.25	1.45
Metals by Toxicity Characteristic Leaching Procedure (TCLP)																									
Arsenic	mg/L	--	--	--	--	--	--	--	0.072	0.311	--	--	--	--	--	--	--	0.236	0.4	--	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead	mg/L	--	--	--	--	<0.050	4.17	--	0.054	0.364	--	--	--	--	--	--	--	0.814	2.46	--	--	--	--	<5.00	15.2
Selenium	mg/L	--	--	--	--	--	<0.050	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Herbicides																									
2,4,5-T	mg/kg	--	--	--	--	<0.28	<0.059	<0.54	--	--	--	--	--	--	<0.40	<0.54	<0.28	<0.11	<0.13	--	--	--	--	<0.053	<0.070
2,4-D	mg/kg	--	--	--	--	<0.28	<0.059	<0.54	--	--	--	--	--	--	<2.0	<2.7	<1.4	<0.55	<0.63	--	--	--	--	<0.053	<0.070
2,4-DB	mg/kg	--	--	--	--	<0.28	<0.059	<0.54	--	--	--	--	--	--	<0.15	<0.20	<0.11	<0.041	<0.047	--	--	--	--	<0.053	<0.070
Dalapon	mg/kg	--	--	--	--	<3.4	<0.71	<6.5	--	--	--	--	--	--	<12	<16	<8.5	<3.3	<3.8	--	--	--	--	<0.64	<0.85
Dicamba	mg/kg	--	--	--	--	<0.28	<0.059	<0.54	--	--	--	--	--	--	<0.60	<0.81	<0.42	<0.16	<0.19	--	--	--	--	<0.053	<0.070
Dichlorprop	mg/kg	--	--	--	--	<0.28	<0.059	<0.54	--	--	--	--	--	--	<1.3	<1.8	<0.92	<0.36	<0.41	--	--	--	--	<0.053	<0.070
Dinoseb	mg/kg	--	--	--	--	<1.7	<0.36	<3.3	--	--	--	--	--	--	<2.0	<2.7	<1.4	<0.55	<0.63	--	--	--	--	<0.32	<0.42
MCPA	mg/kg	--	--	--	--	<68	<14	<130	--	--	--	--	--	--	<500	<670	<350	<140	<160	--	--	--	--	<13	<17
MCPP	mg/kg	--	--	--	--	<68	<14	<130	--	--	--	--	--	--	<500	<670	<350	<140	<160	--	--	--	--	<13	<17
Silvex (2,4,5-TP)	mg/kg	--	--	--	--	<0.28	<0.059	<0.54	--	--	--	--	--	--	<0.40	<0.54	<0.28	<0.11	<0.13	--	--	--	--	<0.053	<0.070
Pesticides																									
4,4'-DDD	mg/kg	--	--	--	--	<0.019	<0.010	<0.018	--	--	--	--	--	--	<0.034	<0.045	<0.012	<0.0091	<0.011	--	--	--	--	<0.042	<0.028
4,4'-DDE	mg/kg	--	--	--	--	<0.019	<0.010	<0.018	--	--	--	--	--	--	<0.034	<0.045	<0.012	<0.0091	<0.011	--	--	--	--	<0.042	<0.028
4,4'-DDT	mg/kg	--	--	--	--	<0.019	<0.010	<0.018	--	--	--	--	--	--	<0.034	<0.045	<0.012	<0.0091	<0.011	--	--	--	--	<0.042	<0.028
Aldrin	mg/kg	--	--	--	--	<0.019	<0.010	<0.018	--	--	--	--	--	--	<0.034	<0.045	<0.012	<0.0091	<0.011	--	--	--	--	<0.042	<0.028
alpha-BHC	mg/kg	--	--	--	--	<0.019	<0.010	<0.018	--	--	--	--	--	--	<0.034	<0.045	<0.012	<0.0091	0.011	--	--	--	--	<0.042	<0.028
beta-BHC	mg/kg	--	--	--	--	<0.019	<0.010	<0.018	--	--	--	--	--	--	<0.034	<0.045	<0.012	<0.0091	<0.011	--	--	--	--	<0.042	<0.028
Chlordane (technical)	mg/kg	--	--	--	--	<0.19	<0.10	<0.18	--	--	--	--	--	--	<0.34	<0.45	<0.12	<0.091	<0.11	--	--	--	--	<0.42	<0.28
delta-BHC	mg/kg	--	--	--	--	<0.019	<0.010	<0.018	--	--	--	--	--	--	<0.034	<0.045	<0.012	<0.0091	<0.011	--	--	--	--	<0.042	<0.028
Dieldrin	mg/kg	--	--	--	--	<0.019	<0.010	<0.018	--	--	--	--	--	--	<0.034	<0.045	<0.012	<0.0091	<0.011	--	--	--	--	<0.042	<0.028
Endosulfan I	mg/kg	--	--	--	--	<0.019	<0.010	<0.018	--	--	--	--	--	--	<0.034	<0.045	<0.012	<0.0091	<0.011	--	--	--	--	<0.042	<0.028
Endosulfan II	mg/kg	--	--	--	--	<0.019	<0.010	<0.018	--	--	--	--	--	--	<0.034	<0.045	<0.012	<0.0091	<0.011	--	--	--	--	<0.042	<0.028
Endosulfan sulfate	mg/kg	--	--	--	--	<0.019	<0.010	<0.018	--	--	--	--	--	--	<0.034	<0.045	<0.012	<0.0091	<0.011	--	--	--	--	<0.042	<0.028
Endrin	mg/kg	--	--	--	--	<0.019	<0.010	<0.018	--	--	--	--	--	--	<0.034	<0.045	<0.012	<0.0091	<0.011	--	--	--	--	<0.042	<0.028
Endrin ketone	mg/kg	--	--	--	--	<0.019	<0.010	<0.018	--	--	--	--	--	--	<0.034	<0.045	<0.012	<0.0091	<0.011	--	--	--	--	<0.042	<0.028
gamma-BHC (Lindane)	mg/kg	--	--	--	--	<0.019	<0.010	<0.018	--	--	--	--	--	--	<0.034	<0.045	<0.012	<0.0091	<0.011	--	--	--	--	<0.042	<0.028
Heptachlor	mg/kg	--	--	--	--	<0.019	<0.010	<0.018	--	--	--	--	--	--	<0.034	<0.045	<0.012	<0.0091	<0.011	--	--	--	--	<0.042	<0.028
Heptachlor epoxide	mg/kg	--	--	--	--	<0.019	<0.010	<0.018	--	--	--	--	--	--	<0.034	<0.045	<0.012	<0.0091	<0.011	--	--	--	--	<0.042	<0.028
Hexachlorobenzene	mg/kg	--	--	--	--	<0.019	<0.010	<0.018	--	--	--	--	--	--	<0.034	<0.045	<0.012	<0.0091	<0.011	--	--	--	--	<0.042	<0.028
Methoxychlor	mg/kg	--	--	--	--	<0.019	<0.010	<0.018	--	--	--	--	--	--	<0.034	<0.045	<0.012	<0.0091	<0.011	--	--	--	--	<0.042	<0.028
Polychlorinated Biphenyls																									
Aroclor 1016	mg/kg	<0.230	<0.172	<0.150	<0.159	<0.133	<0.150	<0.134	<0.220	<0.538	<0.332	<0.141	<0.138	<0.151	<0.129	<0.131	<0.131	<0.347	<0.375	<0.243	<0.134	<0.142	<0.155	<0.196	<0.264
Aroclor 1221	mg/kg	<0.230	<0.172	<0.150	<0.159	<0.133	<0.150	<0.134	<0.220	<0.538	<0.332	<0.141	<0.138	<0.151	<0.129	<0.131	<0.131	<0.347	<0.375	<0.243	<0.134	<0.142	<0.155	<0.196	<0.264
Aroclor 1232	mg/kg	<0.230	<0.172	<0.150	<0.159	<0.133	<0.150	<0.134	<0.220	<0.538	<0.332	<0.141	<0.138	<0.151	<0.129	<0.131	<0.131	<0.347	<0.375	<0.243	<0.134	<0.142	<0.155	<0.196	<0.264
Aroclor 1242	mg/kg	<0.230	<0.172	<0.150	<0.159	<0.133	<0.150	<0.134	<0.220	<0.538	<0.332	<0.141	<0.138	<0.151	<0.129	<0.131	<0.131	<0.347	<0.375	<0.243	<0.134	<0.142	<0.155	<0.196	<0.264
Aroclor 1248	mg/kg	<0.230	<0.172	<0.150	<0.159	<0.133	<0.150	<0.134	<0.220	<0.538	<0.332	<0.141	<0.138	<0.151	<0.129	<0.131	<0.131	<0.347	<0.375	<0.243	<0.134	<0.142	<0.155	<0.196	<0.264
Aroclor 1254	mg/kg	<0.230	<0.172	<0.150	<0.159	<0.133	1.65	<0.134	<0.220	<0.538	<0.332	<0.141	<0.138	<0.151	<0.129	<0.131	<0.131	<0.347	<0.375	<0.243	<0.134	<0.142	<0.155	<0.196	<0.264
Aroclor 1260	mg/kg	<0.230	<0.172	<0.150	<0.159	<0.133	1.58	<0.134	<0.220	<0.538	<0.332	<0.141	<0.138	<0.151	<0.129	<0.131	<0.131	<0.347	<0.375	<0.243	<0.134	<0.142	<0.155	<0.196	<0.264
Aroclor 1262	mg/kg	<0.230	<0.172	<0.150	<0.159	<0.133	<0.150	<0.134	<0.220	<0.538	<0.332	<0.141	<0.138	<0.151	<0.129	0.312	<0.131	<0.347	<0.375	<0.243	<0.134	<0.142	<0.155	<0.196	<0.264
Aroclor 1268	mg/kg	<0.230	<0.172	<0.150	<0.159	<0.133	<0.150	<0.134	<0.220	<0.538	<0.332	<0.141	<0.138	<0.151	<0.129	<0.131	<0.131	<0.347	<0.375	<0.243	<0.134	<0.142	<0.155	<0.196	<0.264
Total PCBs	mg/kg	ND	ND	ND	ND	ND	3.23	ND	ND	ND	ND	ND	ND	ND	ND	0.312	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Petroleum Hydrocarbons	mg/kg	202	<54.4	<47.5	<51.2	522	1090	2870	1050	2040	789	46.4	<43.8	<46.0	822	674	3610	374	279	208	<45.1	<44.8	<48.9	329	1100
Volatile Organic Compounds (VOCs)																									
1,1,1,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-Chloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane - Screen	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Butanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Isopropyltoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-Pentanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Disulfide	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	L12 L12S08 1501433 Natural Organics 19 - 21 1/21/2015	L12 L12S09 1501433 Natural Organics 24 - 26 1/21/2015	L12 L12S10 1501433 Natural Clay 29 - 31 1/21/2015	L12 L12S11S12 1501433 Natural Clay 34 - 38 1/21/2015	L13 L13S01S02A 1501547 Fill 0 - 3.3 1/29/2015	L13 L13S02BS04A 1501547 Fill 3.3 - 6.6 1/29/2015	L13 L13S04BS05 1501547 Fill 6.6 - 10 1/29/2015	L13 L13S06 1501547 Natural Clay 10 - 12 1/29/2015	L13 L13S07S08 1501547 Natural Organics 12 - 16 1/29/2015	L13 L13S09 1501547 Natural Organics 19 - 21 1/29/2015	L13 L13S10 1501547 Natural Organics 24 - 26 1/29/2015	L13 L13S11 1501547 Natural Sand/Gravel 29 - 31 1/29/2015	L13 L13S12S13 1501547 Natural Clay 34 - 38 1/29/2015	L14 L14S01S02A 1501432 Fill 0 - 3.3 1/21/2015	L14 L14S02BS04A 1501432 Fill 3.3 - 6.6 1/21/2015	L14 L14S04B 1501432 Fill 6.6 - 8 1/21/2015	L14 L14S07 1501432 Natural Organics 12 - 14 1/21/2015	L14 L14S08 1501432 Natural Organics 14 - 16 1/21/2015	L14 L14S09 1501432 Natural Organics 19 - 21 1/21/2015	L14 L14S10 1501432 Natural Sand/Gravel 24 - 26 1/21/2015	L14 L14S11 1501432 Natural Sand/Gravel 29 - 31 1/21/2015	L14 L14S12S13 1501432 Natural Clay 38 - 39 1/21/2015	L15 GZ004S01S02 1410530 Fill 0 - 4 10/21/2014	L15 GZ004S03S06 1410530 Fill 4 - 11 10/21/2014
Preliminary Disposal Facility Category		Hazardous Material Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type B-1	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type B-1	Uncontaminated	Uncontaminated	MCP Regulated Type B-1	MCP Regulated Type A	Hazardous Material Type B
Chlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Diethyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Di-isopropyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethyl tertiary-butyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
tert-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tertiary-amyl methyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene O	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene P,M	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylenes (Total)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total VOCs	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds - Low Level Analysis																											
1,1,1,2-Tetrachloroethane	mg/kg	<0.0080	<0.0036	<0.0040	<0.0026	<0.0043	<0.0075	<0.0039	<0.0068	<0.0347	<0.0145	<0.0026	<0.0043	<0.0039	<0.0059	<0.0047	<0.0050	<0.0106	<0.0157	<0.0088	<0.0031	<0.0039	<0.0042	<0.0056	<0.0063
1,1,1-Trichloroethane	mg/kg	<0.0080	<0.0036	<0.0040	<0.0026	<0.0043	<0.0075	<0.0039	<0.0068	<0.0347	<0.0145	<0.0026	<0.0043	<0.0039	<0.0059	<0.0047	<0.0050	<0.0106	<0.0157	<0.0088	<0.0031	<0.0039	<0.0042	<0.0056	<0.0063
1,1,2,2-Tetrachloroethane	mg/kg	<0.0032	<0.0014	<0.0016	<0.0010	<0.0017	<0.0030	<0.0016	<0.0027	<0.0139	<0.0058	<0.0011	<0.0017	<0.0015	<0.0024	<0.0019	<0.0020	<0.0043	<0.0063	<0.0035	<0.0012	<0.0016	<0.0017	<0.0022	<0.0025
1,1,2-Trichloroethane	mg/kg	<0.0080	<0.0036	<0.0040	<0.0026	<0.0043	<0.0075	<0.0039	<0.0068	<0.0347	<0.0145	<0.0026	<0.0043	<0.0039	<0.0059	<0.0047	<0.0050	<0.0106	<0.0157	<0.0088	<0.0031	<0.0039	<0.0042	<0.0056	<0.0063
1,1-Dichloroethane	mg/kg	<0.0080	<0.0036	<0.0040	<0.0026	<0.0043	<0.0075	<0.0039	<0.0068	<0.0347	<0.0145	<0.0026	<0.0043	<0.0039	<0.0059	<0.0047	<0.0050	<0.0106	<0.0157	<0.0088	<0.0031	<0.0039	<0.0042	<0.0056	<0.0063
1,1-Dichloroethene	mg/kg	<0.0080	<0.0036	<0.0040	<0.0026	<0.0043	<0.0075	<0.0039	<0.0068	<0.0347	<0.0145	<0.0026	<0.0043	<0.0039	<0.0059	<0.0047	<0.0050	<0.0106	<0.0157	<0.0088	<0.0031	<0.0039	<0.0042	<0.0056	<0.0063
1,1-Dichloropropene	mg/kg	<0.0080	<0.0036	<0.0040	<0.0026	<0.0043	<0.0075	<0.0039	<0.0068	<0.0347	<0.0145	<0.0026	<0.0043	<0.0039	<0.0059	<0.0047	<0.0050	<0.0106	<0.0157	<0.0088	<0.0031	<0.0039	<0.0042	<0.0056	<0.0063
1,2,3-Trichlorobenzene	mg/kg	<0.0080	<0.0036	<0.0040	<0.0026	<0.0043	<0.0075	<0.0039	<0.0068	<0.0347	<0.0145	<0.0026	<0.0043	<0.0039	<0.0059	<0.0047	<0.0050	<0.0106	<0.0157	<0.0088	<0.0031	<0.0039	<0.0042	<0.0056	<0.0063
1,2,3-Trichloropropane	mg/kg	<0.0080	<0.0036	<0.0040	<0.0026	<0.0043	<0.0075	<0.0039	<0.0068	<0.0347	<0.0145	<0.0026	<0.0043	<0.0039	<0.0059	<0.0047	<0.0050	<0.0106	<0.0157	<0.0088	<0.0031	<0.0039	<0.0042	<0.0056	<0.0063
1,2,4-Trichlorobenzene	mg/kg	<0.0080	<0.0036	<0.0040	<0.0026	<0.0043	<0.0075	<0.0039	<0.0068	<0.0347	<0.0145	<0.0026	<0.0043	<0.0039	<0.0059	<0.0047	<0.0050	<0.0106	<0.0157	<0.0088	<0.0031	<0.0039	<0.0042	<0.0056	<0.0063
1,2,4-Trimethylbenzene	mg/kg	<0.0080	<0.0036	<0.0040	<0.0026	<0.0043	<0.0075	<0.0039	<0.0068	<0.0347	<0.0145	<0.0026	<0.0043	<0.0039	<0.0059	<0.0047	<0.0050	<0.0106	<0.0157	<0.0088	<0.0031	<0.0039	<0.0042	<0.0056	<0.0063
1,2-Dibromo-3-Chloropropane	mg/kg	<0.0080	<0.0036	<0.0040	<0.0026	<0.0043	<0.0075	<0.0039	<0.0068	<0.0347	<0.0145	<0.0026	<0.0043	<0.0039	<0.0059	<0.0047	<0.0050	<0.0106	<0.0157	<0.0088	<0.0031	<0.0039	<0.0042	<0.0056	<0.0063
1,2-Dibromoethane	mg/kg	<0.0080	<0.0036	<0.0040	<0.0026	<0.0043	<0.0075	<0.0039	<0.0068	<0.0347	<0.0145	<0.0026	<0.0043	<0.0039	<0.0059	<0.0047	<0.0050	<0.0106	<0.0157	<0.0088	<0.0031	<0.0039	<0.0042	<0.0056	<0.0063
1,2-Dichlorobenzene	mg/kg	<0.0080	<0.0036	<0.0040	<0.0026	<0.0043	<0.0075	<0.0039	<0.0068	<0.0347	<0.0145	<0.0026	<0.0043	<0.0039	<0.0059	<0.0047	<0.0050	<0.0106	<0.0157	<0.0088	<0.0031	<0.0039	<0.0042	<0.0056	<0.0063
1,2-Dichloroethane	mg/kg	<0.0080	<0.0036	<0.0040	<0.0026	<0.0043	<0.0075	<0.0039	<0.0068	<0.0347	<0.0145	<0.0026	<0.0043	<0.0039	<0.0059	<0.0047	<0.0050	<0.0106	<0.0157	<0.0088	<0.0031	<0.0039	<0.0042	<0.0056	<0.0063
1,2-Dichloropropane	mg/kg	<0.0080	<0.0036	<0.0040	<0.0026	<0.0043	<0.0075	<0.0039	<0.0068	<0.0347	<0.0145	<0.0026	<0.0043	<0.0039	<0.0059	<0.0047	<0.0050	<0.0106	<0.0157	<0.0088	<0.0031	<0.0039	<0.0042	<0.0056	<0.0063
1,3,5-Trimethylbenzene	mg/kg	<0.0080	<0.0036	<0.0040	<0.0026	<0.0043	<0.0075	<0.0039	<0.0068	<0.0347	<0.0145	<0.0026	<0.0043	<0.0039	<0.0059	<0.0047	<0.0050	<0.0106	<0.0157	<0.0088	<0.0031	<0.0039	<0.0042	<0.0056	<0.0063
1,3-Dichlorobenzene	mg/kg	<0.0080	<0.0036	<0.0040	<0.0026	<0.0043	<0.0075	<0.0039	<0.0068	<0.0347	<0.0145	<0.0026	<0.0043	<0.0039	<0.0059	<0.0047	<0.0050	<0.0106	<0.0157	<0.0088	<0.0031	<0.0039	<0.0042	<0.0056	<0.0063
1,3-Dichloropropane	mg/kg	<0.0080	<0.0036	<0.0040	<0.0026	<0.0043	<0.0075	<0.0039	<0.0068	<0.0347	<0.0145	<0.0026	<0.0043	<0.0039	<0.0059	<0.0047	<0.0050	<0.0106	<0.0157	<0.0088	<0.0031	<0.0039	<0.0042	<0.0056	<0.0063
1,4-Dichlorobenzene	mg/kg	<0.0080	<0.0036	<0.0040	<0.0026	<0.0043	<0.0075	<0.0039	<0.0068	<0.0347	<0.0145	<0.0026	<0.0043	<0.0039	<0.0059	<0.0047	<0.0050	<0.0106	<0.0157	<0.0088	<0.0031	<0.0039	<0.0042	<0.0056	<0.0063
1,4-Dioxane	mg/kg	<0.160	<0.0713	<0.0796	<0.0521	<0.0865	<0.150	<0.0779	<0.136	<0.694	<0.290	<0.0527	<0.0852	<0.0774	<0.118	<0.0941	<0.101	<0.213	<0.315	<0.176	<0.0612	<0.0778	<0.0839	<0.111	<0.126
2,2-Dichloropropane	mg/kg	<0.0080	<0.0036	<0.0040	<0.0026	<0.0043	<0.0075	<0.0039	<0.0068	<0.0347	<0.0145	<0.0026	<0.0043	<0.0039	<0.0059	<0.0047	<0.0050	<0.0106	<0.0157	<0.0088	<0.0031	<0.0039	<0.0042	<0.0056	<0.0063
2-Butanone	mg/kg	<0.0160	0.0087	<0.0080	<0.0052	<0.0087	<0.0150	<0.0078	<0.0136	0.139	<0.0290	<0.0053	<0.0085	<0.0077	<0.0118	<0.0094	<0.0101	0.0568	0.0832	<0.0176	<0.0061	<0.0078	<0.0084	<0.0111	<0.0126
2-Chlorotoluene	mg/kg	<0.0080	<0.0036	<0.0040	<0.0026	<0.0043	<0.0075	<0.0039	<0.0068	<0.0347	<0.0145	<0.0026	<0.0043	<0.0039	<0.0059	<0.0047	<0.0050	<0.0106	<0.0157	<0.0088	<0.0031	<0.0039	<0.0042	<0.0056	<0.0063
2-Hexanone	mg/kg	<0.0160	<0.0071	<0.0080	<0.0052	<0.0087	<0.0150	<0.0078	<0.0136	<0.0694	<0.0290	<0.0053	<0.0085	<0.0077	<0.0118	<0.0094	<0.0101	<0.0213	<0.0315	<0.0176	<0.0061	<0.0078	<0.0084	<0.0111	<0.0126
4-Chlorotoluene	mg/kg	<0.0080	<0.0036	<0.0040	<0.0026	<0.0043	<0.0075	<0.0039	<0.0068	<0.0347	<0.0145	<0.0026	<0.0043	<0.0039	<0.0059	<0.0047	<0.0050	<0.0106	<0.0157	<0.0088	<0.0031	<0.0039	<0.0042	<0.0056	<0.0063
4-Isopropyltoluene	mg/kg	<0.0080	<0.0036	<0.0040	<0.0026	<0.0043	<0.0075	<0.0039	<0.0068	<0.0347	<0.0145	<0.0026	<0.0043	<0.0039	<0.0059	<0.0047	<0.0050	<0.0106	<0.0157	<0.0088	<0.0031	<0.0039	<0.0042	<0.0056	<0.0063
4-Methyl-2-Pentanone	mg/kg	<0.0160	<0.0071	<0.0080	<0.0052	<0.0087	<0.0150	<0.0078	<0.0136	<0.0694	<0.0290	<0.0053	<0.0085	<0.0077	<0.0118	<0.0094	<0.0101	<0.0213	<0.0315	<0.0176	<0.0061	<0.0078	<0.0084	<0.0111	<0.0126
Acetone	mg/kg	0.0681	0.0685	0.0135	0.012	0.0116	0.116	0.0322	0.0437	1.21	0.0818	0.0108	0.0147	0.0315	<0.0118	0.0134	0.0313	0.358	0.564	0.0493	<0.0061	<0.0078	<0.0084	0.0433	<0.0126
Benzene	mg/kg	<0.0080	<0.0036	<0.0040	<0.0026	<0.0043	<0.0075	<0.0039	<0.0068	<0.0347	<0.0145	<0.0026	<0.0043	<0.0039	<0.0059	<0.0047	<0.0050	<0.0106	<0.0157	<0.0088	<0.0031	<0.0039	<0.0042	<0.0056	<0.0063
Bromobenzene	mg/kg	<0.0080	<0.0036	<0.0040	<0.0026	<0.0043	<0.0075	<0.0039	<0.0068	<0.0347	<0.0145	<0.0026	<0.0043	<0.0039	<0.0059	<0.0047	<0.0050	<0.0106	<0.0157	<0.0088	<0.0031	<0.0039	<0.0042	<0.0056	<0.0063
Bromochloromethane	mg/kg	<0.0080	<0.0036	<0.0040	<0.0026	<0.0043	<0.0075	<0.0039	<0.0068	<0.0347	<0.0145	<0.0026	<0.0043	<0.0039	<0.0059	<0.0047	<0.0050	<0.0106	<0.0157	<0.0088	<0.0031	<0.0039	<0.0042	<0.0056	<0.0063
Bromodichloromethane	mg/kg	<0.0080	<0.0036	<0.0040	<0.0026	<0.0043	<0.0075	<0.0039	<0.0068	<0.0347	<0.0145	<0.0026	<0.0043	<0.0039	<0.0059	<0.0047	<0.0050	<0.0106	<0.0157	<0.0088	<0.0031	<0.0039	<0.0042	<0.0056	<0.0063
Bromoform	mg/kg	<0.0080	<0.0036	<0.0040	<0.0026	<0.0043	<0.0075	<0.0039	<0.0068	<0.0347	<0.0145	<0.0026	<0.0043	<0.0039	<0.0059	<0.0047	<0.0050	<0.0106	<0.0157	<0.0088	<0.0031	<0.0039	<0.0042	<0.0056	<0.0063
Bromomethane	mg/kg	<0.0160	<0.0071	<0.0080	<0.0052	<0.0087	<0.0150	<0.0078	<0.0136	<0.0694	<0.0290	<0.0053	<0.0085	<0.0077	<0.0118	<0.0094	<0.0101	<0.0213	<0.0315	<0.0176	<0.0061	<0.0078	<0.0084	<0.0111	<0.0126
Carbon Disulfide	mg/kg	0.0266	0.0038	<0.0040	<0.0026	<0.0043	<0.0075	<0.0039	<0.0068	0.0508	0.0463	<0.0026	<0.0043	<0.0039	<0.0059	<0.0047	<0.0050	0.112	0.16	0.0139	<0.0031	<0.0039	<0.0042	<0.0056	<0.0063
Carbon Tetrachloride	mg/kg	<0.0080	<0.0036	<0.0040	<0.0026	<0.0043	<0.0075	<0.0039	<0.0068	<0.0347	<0.0145	<0.0026	<0.0043	<0.0039	<0.0059	<0.0047	<0.0050	<0.0106	<0.0157	<0.0088	<0.0031	<0.0039	<0.0042	<0.0056	<0.0063
Chlorobenzene	mg/kg	<0.0080	<0.0036	<0.0040	<0.0026	<0.0043	<0.0075	<0.0039	<0.0068	<0.0347	<0.0145	<0.0026	<0.0043	<0.0039	<0.0059	<0.0047	<0.0050	<0.0106	<0.0157	<0.0088	<0.0031	<0.0039	<0.0042	<0.0056	<0.0063
Chloroethane	mg/kg	<0.0160	<0.0071	<0.0080	<0.0052	<0.0087	<0.0150	<0.0078	<0.0136	<0.0694	<0.0290	<0.0053	<0.0085	<0.0077	<0.0118	<0.0094	<0.0101	<0.0213	<0.0315	<0.0176	<0.0061	<0.0078	<0.0084	<0.0111	<0.0126
Chloroform	mg/kg	<0.0080	<0.0036	<0.0040	<0.0026	<0.0043	<0.0075	<0.0039	<0.0068	<0.0347	<0.0145	<0.0026	<0.0043	<0.0039	<0.0059	<0.0047	<0.0050	<0.0106	<0.0157	<0.0088	<0.0031	<0.0039	<0.0042	<0.0056	<0.0063
Chloromethane	mg/kg	<0.0160	<0.0071	<0.0080	<0.0052	<0.0087	<0.0150	<0.0078	<0.0136	<0.0694	<0.0290	<0.0053	<0.0085	<0.0077	<0.0118	<0.0094	<0.0101	<0.0213	<0.0315	<0.0176	<0.0061	<0.0078	<0.0084	<0.0111	<0.0126
cis-1,2-Dichloroethene	mg/kg	<0.0080	<0.0036	<0.0040	<0.0026	<0.0043	<0.0075	<0.0039	<0.0068	<0.0347	<0.0145	<0.0026	<0.0043	<0.0039	<0.0059	<0.0047	<0.0050	<0.0106	<0.0157	<0.0088	<0.0031	<0.0039	<0.0042	<0.0056	<0.0063
cis-1,3-Dichloropropene	mg/kg	<0.0080	<0.0036	<0.0040	<0.0026	<0.0043	<0.0075	<0.0039	<0.0068	<0.0347	<0.0145	<0.0026	<0.0043	<0.0039	<0.0059	<0.0047	<0.0050	<0.0106	<0.0157	<0.0088	<0.0031	<0.0039	<0.0042	<0.0056	<0.0063
Dibromochloromethane	mg/kg	<0.0032	<0.0014	<0.0016	<0.0010	<0.0017	<0.0030	<0.0016	<0.0027	<0.0139	<0.0058	<0.0011	<0.0017	<0.0015	<0.0024	<0.0019	<0.0020	<0.0043	<0.0063	<0.0035	<0.0012	<0.0016	<0.0017	<0.0022	<0.0025
Dibromomethane	mg/kg	<0.0080	<0.0036	<0.0040	<0.0026	<0.0043	<0.0075	<0.0039	<0.0068	<0.0347	<0.0145	<0.0026	<0.0043	<0.0039	<0.0059	<0.0047	<0.0050	<0.0106	<0.0157	<0.0088	<0.0031	<0.0039	<0.0042	<0.0056	<0.0063
Dichlorodifluoromethane	mg/kg	<0.0160	<0.0071	<0.0080	<0.0052	<0.0087	<0.0150	<0.0078	<0.0136	<0.0694	<0.0290	<0.0053	<0.0085	<0.0077	<0.0118	<0.0094	<0.0101	<0.0213	<0.0315	<0.0176	<0.0061	<0.0078	<0.0084	<0.0111	<0.0126
Diethyl Ether	mg/kg	<0.0080	<0.0036	<0.0040	<0.0026	<0.0043	<0.0075	<0.0039	<0.0068	<0.0347	<0.0145	<0.0026	<0.0043	<0.0039	<0.0059	<0.0047	<0.0050	<0.0106	<0.0157	<0.0088	<0.0031	<0.0039	<0.0042	<0.0056	<0.0063
Di-isopropyl ether	mg/kg	<0.0080	<0.0036	<0.0040	<0.0026	<0.0043	<0.0075	<0.0039	<0.0068	<0.0347	<0.0145	<0.0026	<0.0043	<0.0039	<0.0059	<0.0047	<0.0050	<0.0106	<0.0157	<0.0088	<0.0031	<0.0039	<0.0042	<0.0056	<0.0063
Ethyl tertiary-butyl ether	mg/kg	<0.0080	<0.0036	<0.0040	<0.0026	<0.0043	<0.0075	<0.0039	<0.0068	<0.0347	<0.0145	<0.0026	<0.0043	<0.0039	<0.0059	<0.0047	<0.0050	<0.0106	<0.0157	<0.0088	<0.0031	<0.0039	<0.0042	<0.0056	<0.0063
Ethylbenzene	mg/kg	<0.0080	<0.0036	<0.0040	<0.0026	<0.0043	<0.0075	<0.0039	<0.0068	<0.0347	<0.0145	<0.0026	<0.0043	<0.0039	<0.0059	<0.0047	<0.0050	<0.0106	<0.0157	<0.0088	<0.0031	<0.0039	<0.0042	<0.0056	<0.0063
Hexachlorobutadiene	mg/kg	<0.0080	<0.0036	<0.0040	<0.0026	<0.0043	<0.0075	<0.0039	<0.0068	<0.0347	<0.0145	<0.0026	<0.0043	<0.0039	<0.0059	<0.0047	<0.0050	<0.0106	<0.0157	<0.0088	<0.0031	<0.0039	<0.0042	<0.0056	<0.0063
Isopropylbenzene	mg/kg	<0.0080	<0.0036	<0.0040	<0.0026	<0.0043	<0.0075	<0.0039	<0.0068	<0.0347	<0.0145	<0.0026	<0.0043	<0.0039	<0.0059	<0.0047	<0.0050	<0.0106	<0.0157	<0.0088	<0.0031	<0.0039	<0.0042	<0.0056	<0.0063
Methyl tert-Butyl Ether	mg/kg	<0.0080	<0.0036	<0.0040	<0.0026	<0.0043	<0.0075	<0.0039	<0.0068	<0.0347	<0.0145	<0.0026	<0.0043	<0.0039	<0.0059	<0.0047	<0.0050	<0.0106	<0.0157	<0.0088	<0.0031	<0.0039	<0.0042	<0.0056	<0.0063
Methylene Chloride	mg/kg	<0.0160	<0.0071	<0.0080	<0.0052	<0.0087	<0.0150	<0.0078	<0.0136	<0.0694	<0.0290	<0.0053	<0.0085	<0.0077	<0.0118	<0.0094	<0.0101	<0.0213	<0.0315	<0.0176	<0.0061	<0.0078	<0.0084	<0.0111	<0.0126
Naphthalene	mg/kg	<0.0080	<0.0036	<0.0040	<0.0026	<0.0043	<0.0075	<0.0039	<0.0068	<0.0347	<0.0145	<0.0026	<0.0043	<0.0039	<0.0059	<0.0047	<0.0050	<0.0106	<0.0157	<0.0088	<0.0031	<0.0039	<0.0042	<0.0056	0.0727
n-Butylbenzene	mg/kg	<0.0080	<0.0036	<0.0040	<0.0026	<0.0043	<0.0075	<0.0039	<0.0068	<0.0347	<0.0145	<0.0026	<0.0043	<0.0039	<0.0059	<0.0047	<0.0050	<0.0106	<0.0157	<0.0088	<0.0031	<0.0039	<0.0042	<0.0056	<0.0063
n-Propylbenzene	mg/kg	<0.0080	<0.0036	<0.0040	<0.0026	<0.0043	<0.0075	<0.0039	<0.0068	<0.0347	<0.0145	<0.0026	<0.0043	<0.0039	<0.0059	<0.0047	<0.0050	<0.0106	<0.0157	<0.0088	<0.0031	<0.0039	<0.0042	<0.0056	<0.0063
sec-Butylbenzene	mg/kg	<0.0080	<0.0036	<0.0040	<0.0026	<0.0043	<0.0075	<0.0039	<0.0068	<0.0347	<0.0145	<0.0026	<0.0043	<0.0039	<0.0059	<0.0047	<0.0050	<0.0106	<0.0157

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	L12 L12S08 1501433 Natural Organics 19 - 21 1/21/2015	L12 L12S09 1501433 Natural Organics 24 - 26 1/21/2015	L12 L12S10 1501433 Natural Clay 29 - 31 1/21/2015	L12 L12S11S12 1501433 Natural Clay 34 - 38 1/21/2015	L13 L13S01S02A 1501547 Fill 0 - 3.3 1/29/2015	L13 L13S02BS04A 1501547 Fill 3.3 - 6.6 1/29/2015	L13 L13S04BS05 1501547 Fill 6.6 - 10 1/29/2015	L13 L13S06 1501547 Natural Clay 10 - 12 1/29/2015	L13 L13S07S08 1501547 Natural Organics 12 - 16 1/29/2015	L13 L13S09 1501547 Natural Organics 19 - 21 1/29/2015	L13 L13S10 1501547 Natural Organics 24 - 26 1/29/2015	L13 L13S11 1501547 Natural Sand/Gravel 29 - 31 1/29/2015	L13 L13S12S13 1501547 Natural Clay 34 - 38 1/29/2015	L14 L14S01S02A 1501432 Fill 0 - 3.3 1/21/2015	L14 L14S02BS04A 1501432 Fill 3.3 - 6.6 1/21/2015	L14 L14S04B 1501432 Fill 6.6 - 8 1/21/2015	L14 L14S07 1501432 Natural Organics 12 - 14 1/21/2015	L14 L14S08 1501432 Natural Organics 14 - 16 1/21/2015	L14 L14S09 1501432 Natural Organics 19 - 21 1/21/2015	L14 L14S10 1501432 Natural Sand/Gravel 24 - 26 1/21/2015	L14 L14S11 1501432 Natural Sand/Gravel 29 - 31 1/21/2015	L14 L14S12S13 1501432 Natural Clay 38 - 39 1/21/2015	L15 GZ004S01S02 1410530 Fill 0 - 4 10/21/2014	L15 GZ004S03S06 1410530 Fill 4 - 11 10/21/2014
Preliminary Disposal Facility Category		Hazardous Material Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type B-1	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type B-1	Uncontaminated	Uncontaminated	MCP Regulated Type B-1	MCP Regulated Type A	Hazardous Material Type B
Styrene	mg/kg	<0.0080	<0.0036	<0.0040	<0.0026	<0.0043	<0.0075	<0.0039	<0.0068	<0.0347	<0.0145	<0.0026	<0.0043	<0.0039	<0.0059	<0.0047	<0.0050	<0.0106	<0.0157	<0.0088	<0.0031	<0.0039	<0.0042	<0.0056	<0.0063
tert-Butylbenzene	mg/kg	<0.0080	<0.0036	<0.0040	<0.0026	<0.0043	<0.0075	<0.0039	<0.0068	<0.0347	<0.0145	<0.0026	<0.0043	<0.0039	<0.0059	<0.0047	<0.0050	<0.0106	<0.0157	<0.0088	<0.0031	<0.0039	<0.0042	<0.0056	<0.0063
Tertiary-amyl methyl ether	mg/kg	<0.0080	<0.0036	<0.0040	<0.0026	<0.0043	<0.0075	<0.0039	<0.0068	<0.0347	<0.0145	<0.0026	<0.0043	<0.0039	<0.0059	<0.0047	<0.0050	<0.0106	<0.0157	<0.0088	<0.0031	<0.0039	<0.0042	<0.0056	<0.0063
Tetrachloroethene	mg/kg	<0.0080	<0.0036	<0.0040	<0.0026	<0.0043	<0.0075	<0.0039	<0.0068	<0.0347	<0.0145	<0.0026	<0.0043	<0.0039	0.0182	<0.0047	<0.0050	<0.0106	<0.0157	<0.0088	<0.0031	<0.0039	<0.0042	<0.0056	<0.0063
Tetrahydrofuran	mg/kg	<0.0080	<0.0036	<0.0040	<0.0026	<0.0043	<0.0075	<0.0039	<0.0068	<0.0347	<0.0145	<0.0026	<0.0043	<0.0039	<0.0059	<0.0047	<0.0050	<0.0106	<0.0157	<0.0088	<0.0031	<0.0039	<0.0042	<0.0056	<0.0063
Toluene	mg/kg	<0.0080	<0.0036	<0.0040	<0.0026	<0.0043	<0.0075	<0.0039	<0.0068	<0.0347	<0.0145	<0.0026	<0.0043	<0.0039	<0.0059	<0.0047	<0.0050	<0.0106	<0.0157	<0.0088	<0.0031	<0.0039	<0.0042	<0.0056	<0.0063
trans-1,2-Dichloroethene	mg/kg	<0.0080	<0.0036	<0.0040	<0.0026	<0.0043	<0.0075	<0.0039	<0.0068	<0.0347	<0.0145	<0.0026	<0.0043	<0.0039	<0.0059	<0.0047	<0.0050	<0.0106	<0.0157	<0.0088	<0.0031	<0.0039	<0.0042	<0.0056	<0.0063
trans-1,3-Dichloropropene	mg/kg	<0.0080	<0.0036	<0.0040	<0.0026	<0.0043	<0.0075	<0.0039	<0.0068	<0.0347	<0.0145	<0.0026	<0.0043	<0.0039	<0.0059	<0.0047	<0.0050	<0.0106	<0.0157	<0.0088	<0.0031	<0.0039	<0.0042	<0.0056	<0.0063
Trichloroethene	mg/kg	<0.0080	<0.0036	<0.0040	<0.0026	<0.0043	<0.0075	<0.0039	<0.0068	<0.0347	<0.0145	<0.0026	<0.0043	<0.0039	<0.0059	<0.0047	<0.0050	<0.0106	<0.0157	<0.0088	<0.0031	<0.0039	<0.0042	<0.0056	<0.0063
Trichlorofluoromethane	mg/kg	<0.0080	<0.0036	<0.0040	<0.0026	<0.0043	<0.0075	<0.0039	<0.0068	<0.0347	<0.0145	<0.0026	<0.0043	<0.0039	<0.0059	<0.0047	<0.0050	<0.0106	<0.0157	<0.0088	<0.0031	<0.0039	<0.0042	<0.0056	<0.0063
Vinyl Chloride	mg/kg	<0.0160	<0.0071	<0.0080	<0.0052	<0.0087	<0.0150	<0.0078	<0.0136	<0.0694	<0.0290	<0.0053	<0.0085	<0.0077	<0.0118	<0.0094	<0.0101	<0.0213	<0.0315	<0.0176	<0.0061	<0.0078	<0.0084	<0.0111	<0.0126
Xylene O	mg/kg	<0.0080	<0.0036	<0.0040	<0.0026	<0.0043	<0.0075	<0.0039	<0.0068	<0.0347	<0.0145	<0.0026	<0.0043	<0.0039	<0.0059	<0.0047	<0.0050	<0.0106	<0.0157	<0.0088	<0.0031	<0.0039	<0.0042	<0.0056	<0.0063
Xylene P,M	mg/kg	<0.0160	<0.0071	<0.0080	<0.0052	<0.0087	<0.0150	<0.0078	<0.0136	<0.0694	<0.0290	<0.0053	<0.0085	<0.0077	<0.0118	<0.0094	<0.0101	<0.0213	<0.0315	<0.0176	<0.0061	<0.0078	<0.0084	<0.0111	<0.0126
Xylenes (Total)	mg/kg	<0.0160	<0.0071	<0.0080	<0.0052	<0.0087	<0.0150	<0.0078	<0.0136	<0.0694	<0.0290	<0.0053	<0.0085	<0.0077	<0.0118	<0.0094	<0.0101	<0.0213	<0.0315	<0.0176	<0.0061	<0.0078	<0.0084	<0.0111	<0.0126
Total VOCs (Low Level)	mg/kg	0.0947	0.081	0.0135	0.012	0.0116	0.116	0.0322	0.0437	1.3998	0.1281	0.0108	0.0147	0.0315	0.0182	0.0134	0.0313	0.5268	0.8072	0.0632	ND	ND	ND	0.0433	0.0727
Semi-Volatile Organic Compounds																									
1,2,4-Trichlorobenzene	mg/kg	<1.69	<1.12	<1.02	<1.00	<4.38	<4.73	<3.57	<6.96	<3.51	<2.16	<0.948	<0.945	<0.968	<1.79	<0.940	<4.03	<2.23	<2.41	<1.60	<0.895	<0.884	<1.12	<0.845	<1.31
1,2-Dichlorobenzene	mg/kg	<1.69	<1.12	<1.02	<1.00	<4.38	<4.73	<3.57	<6.96	<3.51	<2.16	<0.948	<0.945	<0.968	<1.79	<0.940	<4.03	<2.23	<2.41	<1.60	<0.895	<0.884	<1.12	<0.845	<1.31
1,3-Dichlorobenzene	mg/kg	<1.69	<1.12	<1.02	<1.00	<4.38	<4.73	<3.57	<6.96	<3.51	<2.16	<0.948	<0.945	<0.968	<1.79	<0.940	<4.03	<2.23	<2.41	<1.60	<0.895	<0.884	<1.12	<0.845	<1.31
1,4-Dichlorobenzene	mg/kg	<0.847	<0.560	<0.512	<0.502	<2.19	<2.37	<1.79	<3.49	<1.76	<1.08	<0.476	<0.474	<0.485	<0.898	<0.471	<2.02	<1.12	<1.21	<0.804	<0.449	<0.443	<0.560	<0.424	<0.659
2,4,5-Trichlorophenol	mg/kg	<1.69	<1.12	<1.02	<1.00	<4.38	<4.73	<3.57	<6.96	<3.51	<2.16	<0.948	<0.945	<0.968	<1.79	<0.940	<4.03	<2.23	<2.41	<1.60	<0.895	<0.884	<1.12	<0.845	<1.31
2,4,6-Trichlorophenol	mg/kg	<1.69	<1.12	<1.02	<1.00	<4.38	<4.73	<3.57	<6.96	<3.51	<2.16	<0.948	<0.945	<0.968	<1.79	<0.940	<4.03	<2.23	<2.41	<1.60	<0.895	<0.884	<1.12	<0.845	<1.31
2,4-Dichlorophenol	mg/kg	<1.69	<1.12	<1.02	<1.00	<4.38	<4.73	<3.57	<6.96	<3.51	<2.16	<0.948	<0.945	<0.968	<1.79	<0.940	<4.03	<2.23	<2.41	<1.60	<0.895	<0.884	<1.12	<0.845	<1.31
2,4-Dimethylphenol	mg/kg	<1.69	<1.12	<1.02	<1.00	<4.38	<4.73	<3.57	<6.96	<3.51	<2.16	<0.948	<0.945	<0.968	<1.79	<0.940	<4.03	<2.23	<2.41	<1.60	<0.895	<0.884	<1.12	<0.845	<1.31
2,4-Dinitrophenol	mg/kg	<8.47	<5.60	<5.12	<5.02	<21.9	<23.7	<17.9	<34.9	<17.6	<10.8	<4.76	<4.74	<4.85	<8.98	<4.71	<20.2	<11.2	<12.1	<8.04	<4.49	<4.43	<5.60	<4.24	<6.59
2,4-Dinitrotoluene	mg/kg	<1.69	<1.12	<1.02	<1.00	<1.10	<1.19	<0.896	<1.74	<1.76	<2.16	<0.948	<0.945	<0.968	<1.79	<0.940	<4.03	<2.23	<2.41	<1.60	<0.895	<0.884	<1.12	<0.845	<1.31
2,6-Dinitrotoluene	mg/kg	<1.69	<1.12	<1.02	<1.00	<4.38	<4.73	<3.57	<6.96	<3.51	<2.16	<0.948	<0.945	<0.968	<1.79	<0.940	<4.03	<2.23	<2.41	<1.60	<0.895	<0.884	<1.12	<0.845	<1.31
2-Chloronaphthalene	mg/kg	<1.69	<1.12	<1.02	<1.00	<4.38	<4.73	<3.57	<6.96	<3.51	<2.16	<0.948	<0.945	<0.968	<1.79	<0.940	<4.03	<2.23	<2.41	<1.60	<0.895	<0.884	<1.12	<0.845	<1.31
2-Chlorophenol	mg/kg	<1.69	<1.12	<1.02	<1.00	<4.38	<4.73	<3.57	<6.96	<3.51	<2.16	<0.948	<0.945	<0.968	<1.79	<0.940	<4.03	<2.23	<2.41	<1.60	<0.895	<0.884	<1.12	<0.845	<1.31
2-Methylnaphthalene	mg/kg	<1.69	<1.12	<1.02	<1.00	<4.38	<4.73	<3.57	<6.96	<3.51	<2.16	<0.948	<0.945	<0.968	<1.79	<0.940	<4.03	<2.23	<2.41	<1.60	<0.895	<0.884	<1.12	<0.845	<1.31
2-Methylphenol	mg/kg	<1.69	<1.12	<1.02	<1.00	<4.38	<4.73	<3.57	<6.96	<3.51	<2.16	<0.948	<0.945	<0.968	<1.79	<0.940	<4.03	<2.23	<2.41	<1.60	<0.895	<0.884	<1.12	<0.845	<1.31
2-Nitrophenol	mg/kg	<1.69	<1.12	<1.02	<1.00	<4.38	<4.73	<3.57	<6.96	<3.51	<2.16	<0.948	<0.945	<0.968	<1.79	<0.940	<4.03	<2.23	<2.41	<1.60	<0.895	<0.884	<1.12	<0.845	<1.31
3,3´-Dichlorobenzidine	mg/kg	<3.38	<2.24	<2.05	<2.00	<8.77	<9.48	<7.16	<13.9	<7.02	<4.32	<1.90	<1.89	<1.94	<3.59	<1.88	<8.06	<4.47	<4.83	<3.21	<1.79	<1.77	<2.24	<1.69	<2.63
3+4-Methylphenol	mg/kg	<3.38	<2.24	<2.05	<2.00	<8.77	<9.48	<7.16	<13.9	<7.02	<4.32	<1.90	<1.89	<1.94	<3.59	<1.88	<8.06	<4.47	<4.83	<3.21	<1.79	<1.77	<2.24	<1.69	<2.63
4-Bromophenyl-phenylether	mg/kg	<1.69	<1.12	<1.02	<1.00	<4.38	<4.73	<3.57	<6.96	<3.51	<2.16	<0.948	<0.945	<0.968	<1.79	<0.940	<4.03	<2.23	<2.41	<1.60	<0.895	<0.884	<1.12	<0.845	<1.31
4-Chloroaniline	mg/kg	<3.38	<2.24	<2.05	<2.00	<2.19	<2.37	<1.79	<3.49	<1.76	<1.08	<1.90	<1.89	<1.94	<3.59	<1.88	<8.06	<4.47	<4.83	<3.21	<1.79	<1.77	<2.24	<1.69	<2.63
4-Nitrophenol	mg/kg	<8.47	<5.60	<5.12	<5.02	<21.9	<23.7	<17.9	<34.9	<17.6	<10.8	<4.76	<4.74	<4.85	<8.98	<4.71	<20.2	<11.2	<12.1	<8.04	<4.49	<4.43	<5.60	<4.24	<6.59
Acenaphthene	mg/kg	<1.69	<1.12	<1.02	<1.00	<4.38	<4.73	<3.57	<6.96	<3.51	<2.16	<0.948	<0.945	<0.968	<1.79	<0.940	4.46	<2.23	<2.41	<1.60	<0.895	<0.884	<1.12	<0.845	3.18
Acenaphthylene	mg/kg	<1.69	<1.12	<1.02	<1.00	<4.38	<4.73	<3.57	<6.96	<3.51	<2.16	<0.948	<0.945	<0.968	<1.79	<0.940	5.62	<2.23	<2.41	<1.60	<0.895	<0.884	<1.12	<0.845	1.6
Acetophenone	mg/kg	<3.38	<2.24	<2.05	<2.00	<8.77	<9.48	<7.16	<13.9	<7.02	<4.32	<1.90	<1.89	<1.94	<3.59	<1.88	<8.06	<4.47	<4.83	<3.21	<1.79	<1.77	<2.24	<1.69	<2.63
Aniline	mg/kg	<8.47	<5.60	<5.12	<5.02	<21.9	<23.7	<17.9	<34.9	<17.6	<10.8	<4.76	<4.74	<4.85	<8.98	<4.71	<20.2	<11.2	<12.1	<8.04	<4.49	<4.43	<5.60	<4.24	<6.59
Anthracene	mg/kg	<1.69	<1.12	<1.02	<1.00	<4.38	<4.73	<3.57	<6.96	<3.51	<2.16	<0.948	<0.945	<0.968	<1.79	<0.940	7.82	<2.23	<2.41	<1.60	<0.895	<0.884	<1.12	<0.845	7.62
Azobenzene	mg/kg	<1.69	<1.12	<1.02	<1.00	<4.38	<4.73	<3.57	<6.96	<3.51	<2.16	<0.948	<0.945	<0.968	<1.79	<0.940	<4.03	<2.23	<2.41	<1.60	<0.895	<0.884	<1.12	<0.845	<1.31
Benzo(a)anthracene	mg/kg	<1.69	<1.12	<1.02	<1.00	<4.38	13.6	3.77	<6.96	<3.51	<2.16	<0.948	<0.945	<0.968	<1.79	1.3	15.8	<2.23	<2.41	<1.60	<0.895	<0.884	<1.12	<0.845	13.1
Benzo(a)pyrene	mg/kg	<0.847	<0.560	<0.512	<0.502	<2.19	9.8	3.46	<3.49	<1.76	<1.08	<0.476	<0.474	<0.485	1.17	1.13	13.8	<1.12	<1.21	<0.804	<0.449	<0.443	<0.560	0.667	10.9
Benzo(b)fluoranthene	mg/kg	<1.69	<1.12	<1.02	<1.00	<4.38	17.6	4.69	<6.96	<3.51	<2.16	<0.948	<0.945	<0.968	<1.79	2.11	18.4	<2.23	<2.41	<1.60	<0.895	<0.884	<1.12	1.02	15.2
Benzo(g,h,i)perylene	mg/kg	<1.69	<1.12	<1.02	<1.00	<4.38	<4.73	<3.57	<6.96	<3.51	<2.16	<0.948	<0.945	<0.968	<1.79	<0.940	<4.03	<2.23	<2.41	<1.60	<0.895	<0.884	<1.12	<0.845	3.87
Benzo(k)fluoranthene	mg/kg	<1.69	<1.12	<1.02	<1.00	<4.38	5.96	<3.57	<6.96	<3.51	<2.16	<0.948	<0.945	<0.968	<1.79	<0.940	8	<2.23	<2.41	<1.60	<0.895	<0.884	<1.12	<0.845	5.43
bis(2-Chloroethoxy)methane	mg/kg	<1.69	<1.12	<1.02	<1.00	<4.38	<4.73	<3.57	<6.96	<3.51	<2.16	<0.948	<0.945	<0.968	<1.79	<0.940	<4.03	<2.23	<2.41	<1.60	<0.895	<0.884	<1.12	<0.845	<1.31
bis(2-Chloroethyl)ether	mg/kg	<0.847	<0.560	<0.512	<0.502	<0.434	<0.469	<0.354	<0.689	<0.348	<0.540	<0.476	<0.474	<0.485	<0.898	<0.471	<2.02	<1.12	<1.21	<0.804	<0.449	<0.443	<0.560	<0.424	<0.659
bis(2-chloroisopropyl)Ether	mg/kg	<0.847	<0.560	<0.512	<0.502	<0.434	<0.469	<0.354	<0.689	<0.348	<0.540	<0.476	<0.474	<0.485	<0.898	<0.471	<2.02	<1.12	<1.21	<0.804	<0.449	<0.443	<0.560	<0.424	<0.659
bis(2-Ethylhexyl)phthalate	mg/kg	<1.69	<1.12	<1.02	<1.00	<4.38	<4.73	<3.57	<6.96	<3.51	<2.16	<0.948	<0.945	<0.968	<1.79	<0.940	<4.03	<2.23	<2.41	<1.60	<0.895	<0.884	<1.12	<0.845	<1.31
Butylbenzylphthalate	mg/kg	<1.69	<1.12	<1.02	<1.00	<4.38	<4.73	<3.57	<6.96	<3.51	<2.16	<0.948	<0.945	<0.968	<1.79	<0.940	<4.03	<2.23	<2.41	<1.60	<0.895	<0.884	<1.12	<0.845	<1.31
Chrysene	mg/kg	<0.847	<0.560	<0.512	<0.502	<2.19	11.8	3.76	<3.49	<1.76	<1.08	<0.476	<0.474	<0.485	1.35	1.27	14.8	<1.12	<1.21	0.903	<0.449	<0.443	<0.560	0.816	12.5
Dibenzo(a,h)Anthracene	mg/kg	<0.847	<0.560	<0.512	<0.502	<2.19	<2.37	<1.79	<3.49	<1.76	<1.08	<0.476	<0.474	<0.485	<0.898	<0.471	2.05	<1.12	<1.21	<0.804	<0.449	<0.443	<0.560	<0.424	2.04
Dibenzofuran	mg/kg	<1.69	<1.12	<1.02	<1.00	<4.38	<4.73	<3.57	<6.96	<3.51	<2.16	<0.948	<0.945	<0.968	<1.79	<0.940	<4.03	<2.23	<2.41	<1.60	<0.895	<0.884	<1.12	<0.845	2.71
Diethylphthalate	mg/kg	<1.69	<1.12	<1.02	<1.00	<4.38	<4.73	<3.57	<6.96	<3.51	<2.16	<0.948	<0.945	<0.968	<1.79	<0.940	<4.03	<2.23	<2.41	<1.60	<0.895	<0.884	<1.12	<0.845	<1.31
Dimethylphthalate	mg/kg	<1.69	<1.12	<1.02	<1.00	<4.38	<4.73	<3.57	<6.96	<3.51	<2.16	<0.948	<0.945	<0.968	<1.79	<0.940	<4.03	<2.23	<2.41	<1.60	<0.895	<0.884	<1.12	<0.845	<1.31
Di-n-butylphthalate	mg/kg	<1.69	<1.12	<1.02	<1.00	<4.38	<4.73	<3.57	<6.96	<3.51	<2.16	<0.948	<0.945	<0.968	<1.79	<0.940	<4.03	<2.23	<2.41	<1.60	<0.895	<0.884	<1.12	<0.845	<1.31
Di-n-octylphthalate	mg/kg	<1.69	<1.12	<1.02	<1.00	<4.38	<4.73	<3.57	<6.96	<3.51	<2.16	<0.948	<0.945	<0.968	<1.79	<0.940	<4.03	<2.23	<2.41	<1.60	<0.895	<0.884	<1.12	<0.845	<1.31
Fluoranthene	mg/kg	<1.69	<1.12	<1.02	<1.00	<4.38	33.5	7.1	<6.96	<3.51	<2.16	<0.948	<0.945	<0.968	2.8	2.12	39.5	<2.23	<2.41	2.64	<0.895	<0.884	<1.12	1.34	29.6
Fluorene	mg/kg	<1.69	<1.12	<1.02	<1.00	<4.38	<4.73	<3.57	<6.96	<3.51	<2.16	<0.948	<0.945	<0.968	<1.79	<0.940	7.92	<2.23	<2.41	<1.60	<0.895	<0.884	<1.12	<0.845	3.7
Hexachlorobenzene	mg/kg	<0.847	<0.560	<0.512	<0.502	<1.10	<1.19	<0.896	<1.74	<1.76	<1.08	<0.476	<0.474	<0.485	<0.898	<0.471	<2.02	<1.12	<1.21	<0.804	<0.449	<0.443	<0.560	<0.424	<0.659
Hexachlorobutadiene	mg/kg	<1.69	<1.12	<1.02	<1.00	<4.38	<4.73	<3.57	<6.96	<3.51	<2.16	<0.948	<0.945	<0.968	<1.79	<0.940	<4.03	<2.23	<2.41	<1.60	<0.895	<0.884	<1.12	<0.845	<1.31
Hexachloroethane	mg/kg	<1.69	<1.12	<1.02	<1.00	<2.19	<2.37	<1.79	<3.49	<1.76	<2.16	<0.948	<0.945	<0.968	<1.79	<0.940	<4.03	<2.23	<2.41	<1.60	<0.895	<0.884	<1.12	<0.845	<1.31
Indeno(1,2,3-cd)Pyrene	mg/kg	<1.69	<1.12	<1.02	<1.00	<4.38	<4.73	<3.57	<6.96	<3.51	<2.16	<0.948	<0.945	<0.968	<1.79	<0.940	<4.03	<2.23	<2.41	<1.60	<0.895	<0.884	<1.12	<0.845	3.57
Isophorone	mg/kg	<1.69	<1.12	<1.02	<1.00	<4.38	<4.73	<3.57	<6.96	<3.51	<2.16	<0.948	<0.945	<0.968	<1.79	<0.940	<4.03	<2.23	<2.41	<1.60	<0.895	<0.884	<1.12	<0.845	<1.31
Naphthalene	mg/kg	<1.69	<1.12	<1.02	<1.00	<4.38	<4.73	<3.57	<6.96	<3.51	<2.16	<0.948	<0.945	<0.968	<1.79	<0.940	<4.03	<2.23	<2.41	<1.60	<0.895	<0.884	<1.12	<0.845	2.25
Nitrobenzene	mg/kg	<1.69	<1.12	<1.02	<1.00	<4.38	<4.73	<3.57	<6.96	<3.51	<2.16	<0.948	<0.945	<0.968	<1.79	<0.940	<4.03	<2.23	<2.41	<1.60	<0.895	<0.884	<1.12	<0.845	<1.31
N-Nitrosodimethylamine	mg/kg	<1.69	<1.12	<1.02	<1.00	<4.38	<4.73	<3.57	<6.96	<3.51	<2.16	<0.948	<0.945	<0.968	<1.79	<0.940	<4.03	<2.23	<2.41	<1.60	<0.895	<0.884	<1.12	<0.845	<1.31
Pentachlorophenol	mg/kg	<8.47	<5.60	<5.12	<5.02	<4.38	<4.73	<3.57	<6.96	<3.51	<2.16	<4.76	<4.74	<4.85	<8.98	<4.71	<20.2	<11.2	<12.1	<8.04	<4.49	<4.43	<5.60	<4.24	<6.59
Phenanthrene	mg/kg	<1.69	<1.12	<1.02	<1.00	<4.38	24.4	6.88	<6.96	<3.51	<2.16	<0.948	<0.945	<0.968	1.94	1.06	32.2	<2.23	<2.41	3.03	<0.895	<0.884	<1.12	<0.845	24.3
Phenol	mg/kg	<1.69	<1.12	<1.02	<1.00	<4.38	<4.73	<3.57	<6.96	<3.51	<2.16	<0.948	<0.945	<0.968	<1.79	<0.940	<4.03	<2.23	<2.41	<1.60	<0.895	<0.884	<1.12	<0.845	<1.31
Pyrene	mg/kg	<1.69	<1.12	<1.02	<1.00	<4.38	23.3	10	<6.96	<3.51	<2.16	<0.948	<0.945	<0.968	3.2	2.39	31.6	<2.23	<2.41	2.03	<0.895	<0.884	<1.12	0.977	20.6
Total SVOCs	mg/kg	ND	ND	ND	ND	ND	139.96	39.66	ND	ND	ND	ND	ND	ND	10.46	11.38	201.97	ND	ND	8.603	ND	ND	ND	4.82	162.17
Classic Chemistry																									
Corrosivity (pH)	S.U.	7.85	4.27	5.29	5.21	8.49	7.91	6.92	4.91	4.26	7.53	7.4	4.35	3.78	8.67	7.44	6.31	4.02	4.05	6.83	7.02	4.09	7.1	8.77	7.72
Conductivity	umhos/cm	8960	7960	4870	3060	287	310	270	3060	7180	10500	4070	4290	10600	282	657	496	5380	4920	6490	970	8100	4230	262	974
Flashpoint	°F	--	--	--	--	>200	>200	>200	--	--	--	--	--	--	>200	>200	>200	--	--	--	--	--	--	>200	>200
Reactive Cyanide	mg/kg	--	--	--	--	<2.0	<2.0	<2.0	--	--	--	--	--	--	<2.0	<2.0	<2.0	--	--	--	--	--	--	<2.0	<2.0
Reactive Sulfide	mg/kg	--	--	--	--	<2.0	<2.0	<2.0	--	--	--	--	--	--	<2.0	<2.0	<2.0	--	--	--	--	--	--	<2.0	<2.0

Table 1
Soil Precharacterization Data

Wynn Resort Casino
Everett, Massachusetts

Analyte	Precharacterization Cell	L15	L15	L15	L15	L16	L16	L16	L16	L16	L16	L16	L16	L16	L17	L17	L17	L17	L17	L17	L17	L17	L17	L17	L18
	Sample ID	GZ004S07S09	GZ004S10S12	GZ004S13S14	GZ004S15S16	L16S01S02A	L16S02BS04A	L16S04BS05	L16S06	L16S07	L16S08	L16S09	L16S10S11	L17S01S02A	L17S02BS04A	L17S04BS05	L17S06	L17S07	L17S08	L17S09	L17S10	L17S11	L17S12	L17S13	GZ014S01
	Laboratory Work Order	1410530	1410580	1410580	1410580	1501357	1501357	1501357	1501357	1501357	1501357	1501357	1501357	1501329	1501329	1501329	1501329	1501329	1501329	1501329	1501357	1501357	1501357	1501357	1411608
	Soil Distinction	Fill	Fill	Natural	Natural	Fill	Fill	Fill	Natural	Natural	Natural	Natural	Natural	Fill	Fill	Fill	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Fill
	Soil Type			Clay	Clay				Organics	Organics	Organics	Organics	Sand/Gravel				Organics	Organics	Organics	Organics	Organics	Organics	Sand/Gravel	Sand/Gravel	
	Depth Interval (ft.)	11 - 19	19 - 28	28 - 36	39 - 46	0 - 3.3	3.3 - 6.6	6.6 - 10	14 - 16	19 - 21	24 - 26	29 - 31	34 - 38	0 - 3.3	3.3 - 6.6	6.6 - 10	10 - 12	14 - 16	19 - 21	29 - 31	34 - 36	39 - 41	44 - 46	2 - 4
	Sampling Date	10/21/2014	10/21/2014	10/22/2014	10/22/2014	1/19/2015	1/19/2015	1/19/2015	1/19/2015	1/19/2015	1/19/2015	1/19/2015	1/19/2015	1/16/2015	1/16/2015	1/16/2015	1/16/2015	1/16/2015	1/16/2015	1/16/2015	1/19/2015	1/19/2015	1/19/2015	1/19/2015	11/25/2014
Preliminary Disposal Facility Category		MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type B-1	Hazardous Material Type A	MCP Regulated Type B-1	MCP Regulated Type A	Uncontaminated	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	Uncontaminated	Hazardous Material Type A	Uncontaminated	MCP Regulated Type B-1	MCP Regulated Type B-1	Hazardous Material Type A
RCRA 8 Metals	**Units**																								
Arsenic	mg/kg	14.1	12.3	12.3	10.9	<6.72	103	49.9	<11.4	<10.0	<9.18	<6.90	<7.53	<6.45	26.5	57.7	<9.51	<14.3	<9.95	<9.31	<9.70	<8.06	<7.58	<8.42	73.2
Barium	mg/kg	60	48.6	66.1	73.6	28.3	118	32.5	41.3	39.7	30.6	50	20.6	18.9	55.4	66.5	55.1	32.9	34.9	30.5	28.7	15.5	<7.58	41.2	38
Cadmium	mg/kg	<1.10	<0.84	<0.48	<0.45	<1.34	1.73	<1.61	<2.28	<2.00	<1.84	<1.38	<1.51	<1.29	<1.53	<1.56	<1.90	<2.86	<1.99	<1.86	<1.94	<1.61	<1.52	<1.68	1.43
Chromium	mg/kg	37.6	39.7	45.7	37.4	16.4	11.6	10.2	35.8	35.7	27.5	34.9	12.2	11	7.29	5.97	29.1	30	32.3	28	27.7	14.5	7.66	26	18.1
Lead	mg/kg	127	13.7	15.7	13.9	25.7	302	41	<22.8	<20.0	<18.4	<13.8	<15.1	17.8	271	68.1	20.7	<28.6	<19.9	<18.6	<19.4	<16.1	<15.2	<16.8	52.6
Selenium	mg/kg	<5.48	<16.9	<14.5	<13.6	<13.4	141	<8.06	<11.4	<10.0	<9.18	<6.90	<15.1	<6.45	<7.66	<7.78	<9.51	<14.3	<9.95	<9.31	<19.4	<16.1	<15.2	<16.8	<2.64
Silver	mg/kg	<1.10	<0.84	<0.48	<0.45	<1.34	7.18	2.21	<2.28	<2.00	<1.84	<1.38	<1.51	<1.29	1.88	6.65	<1.90	<2.86	<1.99	<1.86	<1.94	<1.61	<1.52	<1.68	0.96
Mercury	mg/kg	0.07	<0.042	<0.040	<0.041	<0.032	3.12	0.191	<0.053	<0.049	<0.043	<0.034	<0.034	0.336	1.59	0.124	<0.045	<0.070	<0.050	<0.040	<0.047	<0.040	<0.041	<0.039	0.078
Metals by Toxicity Characteristic Leaching Procedure (TCLP)																									
Arsenic	mg/L	--	--	--	--	--	<0.050	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead	mg/L	<5.00	--	--	--	--	<0.050	--	--	--	--	--	--	--	0.142	--	--	--	--	--	--	--	--	--	--
Selenium	mg/L	--	--	--	--	--	<0.050	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Herbicides																									
2,4,5-T	mg/kg	<0.050	<0.085	<0.053	<0.037	<0.42	<0.052	<0.052	--	--	--	--	--	<0.52	<0.29	<0.067	--	--	--	<0.070	--	--	--	--	<0.058
2,4-D	mg/kg	<0.050	<0.085	<0.053	<0.037	<2.1	<0.26	<0.26	--	--	--	--	--	<0.52	<0.29	<0.067	--	--	--	<0.070	--	--	--	--	<0.058
2,4-DB	mg/kg	<0.050	<0.085	<0.053	<0.037	<0.16	<0.019	<0.019	--	--	--	--	--	<0.52	<0.29	<0.067	--	--	--	<0.070	--	--	--	--	<0.058
Dalapon	mg/kg	<0.60	<1.0	<0.64	<0.45	<13	<1.6	<1.6	--	--	--	--	--	<6.2	<3.4	<0.80	--	--	--	<0.85	--	--	--	--	<0.70
Dicamba	mg/kg	<0.050	<0.085	<0.053	<0.037	<0.63	<0.078	<0.078	--	--	--	--	--	<0.52	<0.29	<0.067	--	--	--	<0.070	--	--	--	--	<0.058
Dichlorprop	mg/kg	<0.050	<0.085	<0.053	<0.037	<1.4	<0.17	<0.17	--	--	--	--	--	<0.52	<0.29	<0.067	--	--	--	<0.070	--	--	--	--	<0.058
Dinoseb	mg/kg	<0.30	<0.51	<0.32	<0.23	<2.1	<0.26	<0.26	--	--	--	--	--	<3.1	<1.7	<0.40	--	--	--	<0.42	--	--	--	--	<0.35
MCPA	mg/kg	<12	<21	<13	<9.0	<520	<65	<65	--	--	--	--	--	<120	<69	<16	--	--	--	<17	--	--	--	--	<14
MCPP	mg/kg	<12	<21	<13	<9.0	<520	<65	<65	--	--	--	--	--	<120	<69	<16	--	--	--	<17	--	--	--	--	<14
Silvex (2,4,5-TP)	mg/kg	<0.050	<0.085	<0.053	<0.037	<0.42	<0.052	<0.052	--	--	--	--	--	<0.52	<0.29	<0.067	--	--	--	<0.070	--	--	--	--	<0.058
Pesticides																									
4,4'-DDD	mg/kg	<0.0031	<0.0030	<0.0022	<0.0021	<0.035	<0.011	<0.0043	--	--	--	--	--	<0.035	<0.0019	<0.0046	--	--	--	<0.0048	--	--	--	--	<0.0021
4,4'-DDE	mg/kg	<0.0031	<0.0030	<0.0022	<0.0021	<0.035	<0.011	<0.0043	--	--	--	--	--	<0.035	<0.0019	<0.0046	--	--	--	<0.0048	--	--	--	--	<0.0021
4,4'-DDT	mg/kg	<0.0031	<0.0030	<0.0022	<0.0021	<0.035	<0.011	<0.0043	--	--	--	--	--	<0.035	<0.0019	<0.0046	--	--	--	<0.0048	--	--	--	--	<0.0021
Aldrin	mg/kg	<0.0031	<0.0030	<0.0022	<0.0021	<0.035	<0.011	<0.0043	--	--	--	--	--	<0.035	<0.0019	<0.0046	--	--	--	<0.0048	--	--	--	--	<0.0021
alpha-BHC	mg/kg	<0.0031	<0.0030	<0.0022	<0.0021	<0.035	<0.011	<0.0043	--	--	--	--	--	<0.035	<0.0019	<0.0046	--	--	--	<0.0048	--	--	--	--	<0.0021
beta-BHC	mg/kg	<0.0031	<0.0030	<0.0022	<0.0021	<0.035	<0.011	<0.0043	--	--	--	--	--	<0.035	<0.0019	<0.0046	--	--	--	<0.0048	--	--	--	--	<0.0021
Chlordane (technical)	mg/kg	<0.031	<0.030	<0.022	<0.021	<0.35	<0.11	<0.043	--	--	--	--	--	<0.35	<0.019	<0.046	--	--	--	<0.048	--	--	--	--	<0.021
delta-BHC	mg/kg	<0.0031	<0.0030	<0.0022	<0.0021	<0.035	<0.011	<0.0043	--	--	--	--	--	<0.035	<0.0019	<0.0046	--	--	--	<0.0048	--	--	--	--	<0.0021
Dieldrin	mg/kg	<0.0031	<0.0030	<0.0022	<0.0021	<0.035	<0.011	<0.0043	--	--	--	--	--	<0.035	<0.0019	<0.0046	--	--	--	<0.0048	--	--	--	--	<0.0021
Endosulfan I	mg/kg	<0.0031	<0.0030	<0.0022	<0.0021	<0.035	<0.011	<0.0043	--	--	--	--	--	<0.035	<0.0019	<0.0046	--	--	--	<0.0048	--	--	--	--	<0.0021
Endosulfan II	mg/kg	<0.0031	<0.0030	<0.0022	<0.0021	<0.035	<0.011	<0.0043	--	--	--	--	--	<0.035	<0.0019	<0.0046	--	--	--	<0.0048	--	--	--	--	<0.0021
Endosulfan sulfate	mg/kg	<0.0031	<0.0030	<0.0022	<0.0021	<0.035	<0.011	<0.0043	--	--	--	--	--	<0.035	<0.0019	<0.0046	--	--	--	<0.0048	--	--	--	--	<0.0021
Endrin	mg/kg	<0.0031	<0.0030	<0.0022	<0.0021	<0.035	<0.011	<0.0043	--	--	--	--	--	<0.035	<0.0019	<0.0046	--	--	--	<0.0048	--	--	--	--	<0.0021
Endrin ketone	mg/kg	<0.0031	<0.0030	<0.0022	<0.0021	<0.035	<0.011	<0.0043	--	--	--	--	--	<0.035	<0.0019	<0.0046	--	--	--	<0.0048	--	--	--	--	<0.0021
gamma-BHC (Lindane)	mg/kg	<0.0031	<0.0030	<0.0022	<0.0021	<0.035	<0.011	<0.0043	--	--	--	--	--	<0.035	<0.0019	<0.0046	--	--	--	<0.0048	--	--	--	--	<0.0021
Heptachlor	mg/kg	<0.0031	<0.0030	<0.0022	<0.0021	<0.035	<0.011	<0.0043	--	--	--	--	--	<0.035	<0.0019	<0.0046	--	--	--	<0.0048	--	--	--	--	<0.0021
Heptachlor epoxide	mg/kg	<0.0031	<0.0030	<0.0022	<0.0021	<0.035	<0.011	<0.0043	--	--	--	--	--	<0.035	<0.0019	<0.0046	--	--	--	<0.0048	--	--	--	--	<0.0021
Hexachlorobenzene	mg/kg	<0.0031	<0.0030	<0.0022	<0.0021	<0.035	<0.011	<0.0043	--	--	--	--	--	<0.035	<0.0019	<0.0046	--	--	--	<0.0048	--	--	--	--	<0.0021
Methoxychlor	mg/kg	<0.0031	<0.0030	<0.0022	<0.0021	<0.035	<0.011	<0.0043	--	--	--	--	--	<0.035	<0.0019	<0.0046	--	--	--	<0.0048	--	--	--	--	<0.0021
Polychlorinated Biphenyls																									
Aroclor 1016	mg/kg	<0.358	<0.0851	<0.0635	<0.0621	<0.127	<0.160	<0.158	<0.225	<0.197	<0.180	<0.141	<0.138	<0.126	<0.144	<0.161	<0.174	<0.273	<0.191	<0.179	<0.183	<0.164	<0.144	<0.159	<0.234
Aroclor 1221	mg/kg	<0.358	<0.0851	<0.0635	<0.0621	<0.127	<0.160	<0.158	<0.225	<0.197	<0.180	<0.141	<0.138	<0.126	<0.144	<0.161	<0.174	<0.273	<0.191	<0.179	<0.183	<0.164	<0.144	<0.159	<0.234
Aroclor 1232	mg/kg	<0.358	<0.0851	<0.0635	<0.0621	<0.127	<0.160	<0.158	<0.225	<0.197	<0.180	<0.141	<0.138	<0.126	<0.144	<0.161	<0.174	<0.273	<0.191	<0.179	<0.183	<0.164	<0.144	<0.159	<0.234
Aroclor 1242	mg/kg	<0.358	<0.0851	<0.0635	<0.0621	<0.127	<0.160	<0.158	<0.225	<0.197	<0.180	<0.141	<0.138	<0.126	<0.144	<0.161	<0.174	<0.273	<0.191	<0.179	<0.183	<0.164	<0.144	<0.159	<0.234
Aroclor 1248	mg/kg	<0.358	<0.0851	<0.0635	<0.0621	<0.127	<0.160	<0.158	<0.225	<0.197	<0.180	<0.141	<0.138	<0.126	<0.144	<0.161	<0.174	<0.273	<0.191	<0.179	<0.183	<0.164	<0.144	<0.159	<0.234
Aroclor 1254	mg/kg	<0.358	<0.0851	<0.0635	<0.0621	0.175	<0.160	<0.158	<0.225	<0.197	<0.180	<0.141	<0.138	<0.126	<0.144	<0.161	<0.174	<0.273	<0.191	<0.179	<0.183	<0.164	<0.144	<0.159	<0.234
Aroclor 1260	mg/kg	<0.358	<0.0851	<0.0635	<0.0621	<0.127	<0.160	<0.158	<0.225	<0.197	<0.180	<0.141	<0.138	0.164	<0.144	<0.161	<0.174	<0.273	<0.191	<0.179	<0.183	<0.164	<0.144	<0.159	<0.234
Aroclor 1262	mg/kg	<0.358	<0.0851	<0.0635	<0.0621	<0.127	<0.160	<0.158	<0.225	<0.197	<0.180	<0.141	<0.138	<0.126	<0.144	<0.161	<0.174	<0.273	<0.191	<0.179	<0.183	<0.164	<0.144	<0.159	<0.234
Aroclor 1268	mg/kg	<0.358	<0.0851	<0.0635	<0.0621	<0.127	<0.160	<0.158	<0.225	<0.197	<0.180	<0.141	<0.138	<0.126	<0.144	<0.161	<0.174	<0.273	<0.191	<0.179	<0.183	<0.164	<0.144	<0.159	<0.234
Total PCBs	mg/kg	ND	ND	ND	ND	0.175	ND	ND	ND	ND	ND	ND	ND	0.164	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Petroleum Hydrocarbons	mg/kg	274	150	<50.3	<45.8	487	158	129	152	83	58.4	<43.8	<43.3	2250	229	<49.5	<56.7	558	<60.2	<56.1	112	<50.0	<48.8	60.5	274
Volatile Organic Compounds (VOCs)																									
1,1,1,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-Chloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane - Screen	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Butanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Isopropyltoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-Pentanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Disulfide	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	L15 GZ004S07S09 1410530 Fill 11 - 19 10/21/2014	L15 GZ004S10S12 1410580 Fill 19 - 28 10/21/2014	L15 GZ004S13S14 1410580 Natural Clay 28 - 36 10/22/2014	L15 GZ004S15S16 1410580 Natural Clay 39 - 46 10/22/2014	L16 L16S01S02A 1501357 Fill 0 - 3.3 1/19/2015	L16 L16S02BS04A 1501357 Fill 3.3 - 6.6 1/19/2015	L16 L16S04BS05 1501357 Fill 6.6 - 10 1/19/2015	L16 L16S06 1501357 Natural Organics 14 - 16 1/19/2015	L16 L16S07 1501357 Natural Organics 19 - 21 1/19/2015	L16 L16S08 1501357 Natural Organics 24 - 26 1/19/2015	L16 L16S09 1501357 Natural Organics 29 - 31 1/19/2015	L16 L16S10S11 1501357 Natural Sand/Gravel 34 - 38 1/19/2015	L17 L17S01S02A 1501329 Fill 0 - 3.3 1/16/2015	L17 L17S02BS04A 1501329 Fill 3.3 - 6.6 1/16/2015	L17 L17S04BS05 1501329 Fill 6.6 - 10 1/16/2015	L17 L17S06 1501329 Natural Organics 10 - 12 1/16/2015	L17 L17S07 1501329 Natural Organics 14 - 16 1/16/2015	L17 L17S08 1501329 Natural Organics 19 - 21 1/16/2015	L17 L17S09 1501329 Natural Organics 29 - 31 1/16/2015	L17 L17S10 1501357 Natural Organics 29 - 31 1/19/2015	L17 L17S11 1501357 Natural Organics 34 - 36 1/19/2015	L17 L17S12 1501357 Natural Sand/Gravel 39 - 41 1/19/2015	L17 L17S13 1501357 Natural Sand/Gravel 44 - 46 1/19/2015	L18 GZ014S01 1411608 Fill 2 - 4 11/25/2014
Preliminary Disposal Facility Category		MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type B-1	Hazardous Material Type A	MCP Regulated Type B-1	MCP Regulated Type A	Uncontaminated	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	Uncontaminated	Hazardous Material Type A	Uncontaminated	MCP Regulated Type B-1	MCP Regulated Type B-1	Hazardous Material Type A
Chlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Diethyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Di-isopropyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethyl tertiary-butyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
tert-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tertiary-amyl methyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene O	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene P,M	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylenes (Total)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total VOCs	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds - Low Level Analysis																									
1,1,1,2-Tetrachloroethane	mg/kg	<0.0105	<0.0055	<0.0043	<0.0040	<0.0049	<0.0063	<0.0041	<0.0090	<0.0072	<0.0054	<0.0036	<0.0036	<0.0044	<0.0046	<0.0041	<0.0050	<0.0103	<0.0063	<0.0050	<0.0057	<0.0037	<0.0042	<0.0046	<0.0035
1,1,1-Trichloroethane	mg/kg	<0.0105	<0.0055	<0.0043	<0.0040	<0.0049	<0.0063	<0.0041	<0.0090	<0.0072	<0.0054	<0.0036	<0.0036	<0.0044	<0.0046	<0.0041	<0.0050	<0.0103	<0.0063	<0.0050	<0.0057	<0.0037	<0.0042	<0.0046	<0.0035
1,1,2,2-Tetrachloroethane	mg/kg	<0.0042	<0.0022	<0.0017	<0.0016	<0.0019	<0.0025	<0.0016	<0.0036	<0.0029	<0.0022	<0.0015	<0.0014	<0.0018	<0.0018	<0.0016	<0.0020	<0.0041	<0.0025	<0.0020	<0.0023	<0.0015	<0.0017	<0.0018	<0.0014
1,1,2-Trichloroethane	mg/kg	<0.0105	<0.0055	<0.0043	<0.0040	<0.0049	<0.0063	<0.0041	<0.0090	<0.0072	<0.0054	<0.0036	<0.0036	<0.0044	<0.0046	<0.0041	<0.0050	<0.0103	<0.0063	<0.0050	<0.0057	<0.0037	<0.0042	<0.0046	<0.0035
1,1-Dichloroethane	mg/kg	<0.0105	<0.0055	<0.0043	<0.0040	<0.0049	<0.0063	<0.0041	<0.0090	<0.0072	<0.0054	<0.0036	<0.0036	<0.0044	<0.0046	<0.0041	<0.0050	<0.0103	<0.0063	<0.0050	<0.0057	<0.0037	<0.0042	<0.0046	<0.0035
1,1-Dichloroethene	mg/kg	<0.0105	<0.0055	<0.0043	<0.0040	<0.0049	<0.0063	<0.0041	<0.0090	<0.0072	<0.0054	<0.0036	<0.0036	<0.0044	<0.0046	<0.0041	<0.0050	<0.0103	<0.0063	<0.0050	<0.0057	<0.0037	<0.0042	<0.0046	<0.0035
1,1-Dichloropropene	mg/kg	<0.0105	<0.0055	<0.0043	<0.0040	<0.0049	<0.0063	<0.0041	<0.0090	<0.0072	<0.0054	<0.0036	<0.0036	<0.0044	<0.0046	<0.0041	<0.0050	<0.0103	<0.0063	<0.0050	<0.0057	<0.0037	<0.0042	<0.0046	<0.0035
1,2,3-Trichlorobenzene	mg/kg	<0.0105	<0.0055	<0.0043	<0.0040	<0.0049	<0.0063	<0.0041	<0.0090	<0.0072	<0.0054	<0.0036	<0.0036	<0.0044	<0.0046	<0.0041	<0.0050	<0.0103	<0.0063	<0.0050	<0.0057	<0.0037	<0.0042	<0.0046	<0.0035
1,2,3-Trichloropropane	mg/kg	<0.0105	<0.0055	<0.0043	<0.0040	<0.0049	<0.0063	<0.0041	<0.0090	<0.0072	<0.0054	<0.0036	<0.0036	<0.0044	<0.0046	<0.0041	<0.0050	<0.0103	<0.0063	<0.0050	<0.0057	<0.0037	<0.0042	<0.0046	<0.0035
1,2,4-Trichlorobenzene	mg/kg	<0.0105	<0.0055	<0.0043	<0.0040	<0.0049	<0.0063	<0.0041	<0.0090	<0.0072	<0.0054	<0.0036	<0.0036	<0.0044	<0.0046	<0.0041	<0.0050	<0.0103	<0.0063	<0.0050	<0.0057	<0.0037	<0.0042	<0.0046	<0.0035
1,2,4-Trimethylbenzene	mg/kg	<0.0105	<0.0055	<0.0043	<0.0040	<0.0049	<0.0063	<0.0041	<0.0090	<0.0072	<0.0054	<0.0036	<0.0036	<0.0044	<0.0046	<0.0041	<0.0050	<0.0103	<0.0063	<0.0050	<0.0057	<0.0037	<0.0042	<0.0046	<0.0035
1,2-Dibromo-3-Chloropropane	mg/kg	<0.0105	<0.0055	<0.0043	<0.0040	<0.0049	<0.0063	<0.0041	<0.0090	<0.0072	<0.0054	<0.0036	<0.0036	<0.0044	<0.0046	<0.0041	<0.0050	<0.0103	<0.0063	<0.0050	<0.0057	<0.0037	<0.0042	<0.0046	<0.0035
1,2-Dibromoethane	mg/kg	<0.0105	<0.0055	<0.0043	<0.0040	<0.0049	<0.0063	<0.0041	<0.0090	<0.0072	<0.0054	<0.0036	<0.0036	<0.0044	<0.0046	<0.0041	<0.0050	<0.0103	<0.0063	<0.0050	<0.0057	<0.0037	<0.0042	<0.0046	<0.0035
1,2-Dichlorobenzene	mg/kg	<0.0105	<0.0055	<0.0043	<0.0040	<0.0049	<0.0063	<0.0041	<0.0090	<0.0072	<0.0054	<0.0036	<0.0036	<0.0044	<0.0046	<0.0041	<0.0050	<0.0103	<0.0063	<0.0050	<0.0057	<0.0037	<0.0042	<0.0046	<0.0035
1,2-Dichloroethane	mg/kg	<0.0105	<0.0055	<0.0043	<0.0040	<0.0049	<0.0063	<0.0041	<0.0090	<0.0072	<0.0054	<0.0036	<0.0036	<0.0044	<0.0046	<0.0041	<0.0050	<0.0103	<0.0063	<0.0050	<0.0057	<0.0037	<0.0042	<0.0046	<0.0035
1,2-Dichloropropane	mg/kg	<0.0105	<0.0055	<0.0043	<0.0040	<0.0049	<0.0063	<0.0041	<0.0090	<0.0072	<0.0054	<0.0036	<0.0036	<0.0044	<0.0046	<0.0041	<0.0050	<0.0103	<0.0063	<0.0050	<0.0057	<0.0037	<0.0042	<0.0046	<0.0035
1,3,5-Trimethylbenzene	mg/kg	<0.0105	<0.0055	<0.0043	<0.0040	<0.0049	<0.0063	<0.0041	<0.0090	<0.0072	<0.0054	<0.0036	<0.0036	<0.0044	<0.0046	<0.0041	<0.0050	<0.0103	<0.0063	<0.0050	<0.0057	<0.0037	<0.0042	<0.0046	<0.0035
1,3-Dichlorobenzene	mg/kg	<0.0105	<0.0055	<0.0043	<0.0040	<0.0049	<0.0063	<0.0041	<0.0090	<0.0072	<0.0054	<0.0036	<0.0036	<0.0044	<0.0046	<0.0041	<0.0050	<0.0103	<0.0063	<0.0050	<0.0057	<0.0037	<0.0042	<0.0046	<0.0035
1,3-Dichloropropane	mg/kg	<0.0105	<0.0055	<0.0043	<0.0040	<0.0049	<0.0063	<0.0041	<0.0090	<0.0072	<0.0054	<0.0036	<0.0036	<0.0044	<0.0046	<0.0041	<0.0050	<0.0103	<0.0063	<0.0050	<0.0057	<0.0037	<0.0042	<0.0046	<0.0035
1,4-Dichlorobenzene	mg/kg	<0.0105	<0.0055	<0.0043	<0.0040	<0.0049	<0.0063	<0.0041	<0.0090	<0.0072	<0.0054	<0.0036	<0.0036	<0.0044	<0.0046	<0.0041	<0.0050	<0.0103	<0.0063	<0.0050	<0.0057	<0.0037	<0.0042	<0.0046	<0.0035
1,4-Dioxane	mg/kg	<0.210	<0.110	<0.0858	<0.0794	<0.0971	<0.125	<0.0824	<0.180	<0.145	<0.109	<0.0730	<0.0724	<0.0888	<0.0916	<0.0820	<0.100	<0.207	<0.126	<0.0991	<0.113	<0.0745	<0.0836	<0.0911	<0.0694
2,2-Dichloropropane	mg/kg	<0.0105	<0.0055	<0.0043	<0.0040	<0.0049	<0.0063	<0.0041	<0.0090	<0.0072	<0.0054	<0.0036	<0.0036	<0.0044	<0.0046	<0.0041	<0.0050	<0.0103	<0.0063	<0.0050	<0.0057	<0.0037	<0.0042	<0.0046	<0.0035
2-Butanone	mg/kg	<0.0210	<0.0110	<0.0086	<0.0079	<0.0097	<0.0125	<0.0082	<0.0180	<0.0145	<0.0109	<0.0073	<0.0072	<0.0089	<0.0092	<0.0082	<0.0100	<0.0207	<0.0126	<0.0099	<0.0113	<0.0074	<0.0084	<0.0091	<0.0069
2-Chlorotoluene	mg/kg	<0.0105	<0.0055	<0.0043	<0.0040	<0.0049	<0.0063	<0.0041	<0.0090	<0.0072	<0.0054	<0.0036	<0.0036	<0.0044	<0.0046	<0.0041	<0.0050	<0.0103	<0.0063	<0.0050	<0.0057	<0.0037	<0.0042	<0.0046	<0.0035
2-Hexanone	mg/kg	<0.0210	<0.0110	<0.0086	<0.0079	<0.0097	<0.0125	<0.0082	<0.0180	<0.0145	<0.0109	<0.0073	<0.0072	<0.0089	<0.0092	<0.0082	<0.0100	<0.0207	<0.0126	<0.0099	<0.0113	<0.0074	<0.0084	<0.0091	<0.0069
4-Chlorotoluene	mg/kg	<0.0105	<0.0055	<0.0043	<0.0040	<0.0049	<0.0063	<0.0041	<0.0090	<0.0072	<0.0054	<0.0036	<0.0036	<0.0044	<0.0046	<0.0041	<0.0050	<0.0103	<0.0063	<0.0050	<0.0057	<0.0037	<0.0042	<0.0046	<0.0035
4-Isopropyltoluene	mg/kg	<0.0105	<0.0055	<0.0043	<0.0040	<0.0049	<0.0063	<0.0041	<0.0090	<0.0072	<0.0054	<0.0036	<0.0036	<0.0044	<0.0046	<0.0041	<0.0050	<0.0103	<0.0063	<0.0050	<0.0057	<0.0037	<0.0042	<0.0046	<0.0035
4-Methyl-2-Pentanone	mg/kg	<0.0210	<0.0110	<0.0086	<0.0079	<0.0097	<0.0125	<0.0082	<0.0180	<0.0145	<0.0109	<0.0073	<0.0072	<0.0089	<0.0092	<0.0082	<0.0100	<0.0207	<0.0126	<0.0099	<0.0113	<0.0074	<0.0084	<0.0091	<0.0069
Acetone	mg/kg	<0.0210	<0.0110	<0.0086	<0.0079	0.0236	<0.0125	0.0085	<0.0180	<0.0145	<0.0109	<0.0073	<0.0072	0.0101	0.0325	<0.0082	0.0267	0.096	<0.0126	<0.0099	<0.0113	<0.0074	0.0209	<0.0091	<0.0069
Benzene	mg/kg	<0.0105	<0.0055	<0.0043	<0.0040	<0.0049	<0.0063	<0.0041	<0.0090	<0.0072	<0.0054	<0.0036	<0.0036	<0.0044	<0.0046	<0.0041	<0.0050	<0.0103	<0.0063	<0.0050	<0.0057	<0.0037	<0.0042	<0.0046	<0.0035
Bromobenzene	mg/kg	<0.0105	<0.0055	<0.0043	<0.0040	<0.0049	<0.0063	<0.0041	<0.0090	<0.0072	<0.0054	<0.0036	<0.0036	<0.0044	<0.0046	<0.0041	<0.0050	<0.0103	<0.0063	<0.0050	<0.0057	<0.0037	<0.0042	<0.0046	<0.0035
Bromochloromethane	mg/kg	<0.0105	<0.0055	<0.0043	<0.0040	<0.0049	<0.0063	<0.0041	<0.0090	<0.0072	<0.0054	<0.0036	<0.0036	<0.0044	<0.0046	<0.0041	<0.0050	<0.0103	<0.0063	<0.0050	<0.0057	<0.0037	<0.0042	<0.0046	<0.0035
Bromodichloromethane	mg/kg	<0.0105	<0.0055	<0.0043	<0.0040	<0.0049	<0.0063	<0.0041	<0.0090	<0.0072	<0.0054	<0.0036	<0.0036	<0.0044	<0.0046	<0.0041	<0.0050	<0.0103	<0.0063	<0.0050	<0.0057	<0.0037	<0.0042	<0.0046	<0.0035
Bromoform	mg/kg	<0.0105	<0.0055	<0.0043	<0.0040	<0.0049	<0.0063	<0.0041	<0.0090	<0.0072	<0.0054	<0.0036	<0.0036	<0.0044	<0.0046	<0.0041	<0.0050	<0.0103	<0.0063	<0.0050	<0.0057	<0.0037	<0.0042	<0.0046	<0.0035
Bromomethane	mg/kg	<0.0210	<0.0110	<0.0086	<0.0079	<0.0097	<0.0125	<0.0082	<0.0180	<0.0145	<0.0109	<0.0073	<0.0072	<0.0089	<0.0092	<0.0082	<0.0100	<0.0207	<0.0126	<0.0099	<0.0113	<0.0074	<0.0084	<0.0091	<0.0069
Carbon Disulfide	mg/kg	<0.0105	0.0178	<0.0043	<0.0040	<0.0049	<0.0063	0.0042	0.032	0.0136	0.0201	0.0057	<0.0036	<0.0044	<0.0046	0.0041	<0.0050	0.023	<0.0063	<0.0050	0.009	<0.0037	0.005	0.0048	<0.0035
Carbon Tetrachloride	mg/kg	<0.0105	<0.0055	<0.0043	<0.0040	<0.0049	<0.0063	<0.0041	<0.0090	<0.0072	<0.0054	<0.0036	<0.0036	<0.0044	<0.0046	<0.0041	<0.0050	<0.0103	<0.0063	<0.0050	<0.0057	<0.0037	<0.0042	<0.0046	<0.0035
Chlorobenzene	mg/kg	<0.0105	<0.0055	<0.0043	<0.0040	<0.0049	<0.0063	<0.0041	<0.0090	<0.0072	<0.0054	<0.0036	<0.0036	<0.0044	<0.0046	<0.0041	<0.0050	<0.0103	<0.0063	<0.0050	<0.0057	<0.0037	<0.0042	<0.0046	<0.0035
Chloroethane	mg/kg	<0.0210	<0.0110	<0.0086	<0.0079	<0.0097	<0.0125	<0.0082	<0.0180	<0.0145	<0.0109	<0.0073	<0.0072	<0.0089	<0.0092	<0.0082	<0.0100	<0.0207	<0.0126	<0.0099	<0.0113	<0.0074	<0.0084	<0.0091	<0.0069
Chloroform	mg/kg	<0.0105	<0.0055	<0.0043	<0.0040	<0.0049	<0.0063	<0.0041	<0.0090	<0.0072	<0.0054	<0.0036	<0.0036	<0.0044	<0.0046	<0.0041	<0.0050	<0.0103	<0.0063	<0.0050	<0.0057	<0.0037	<0.0042	<0.0046	<0.0035
Chloromethane	mg/kg	<0.0210	<0.0110	<0.0086	<0.0079	<0.0097	<0.0125	<0.0082	<0.0180	<0.0145	<0.0109	<0.0073	<0.0072	<0.0089	<0.0092	<0.0082	<0.0100	<0.0207	<0.0126	<0.0099	<0.0113	<0.0074	<0.0084	<0.0091	<0.0069
cis-1,2-Dichloroethene	mg/kg	<0.0105	<0.0055	<0.0043	<0.0040	<0.0049	<0.0063	<0.0041	<0.0090	<0.0072	<0.0054	<0.0036	<0.0036	<0.0044	<0.0046	<0.0041	<0.0050	<0.0103	<0.0063	<0.0050	<0.0057	<0.0037	<0.0042	<0.0046	<0.0035
cis-1,3-Dichloropropene	mg/kg	<0.0105	<0.0055	<0.0043	<0.0040	<0.0049	<0.0063	<0.0041	<0.0090	<0.0072	<0.0054	<0.0036	<0.0036	<0.0044	<0.0046	<0.0041	<0.0050	<0.0103	<0.0063	<0.0050	<0.0057	<0.0037	<0.0042	<0.0046	<0.0035
Dibromochloromethane	mg/kg	<0.0042	<0.0022	<0.0017	<0.0016	<0.0019	<0.0025	<0.0016	<0.0036	<0.0029	<0.0022	<0.0015	<0.0014	<0.0018	<0.0018	<0.0016	<0.0020	<0.0041	<0.0025	<0.0020	<0.0023	<0.0015	<0.0017	<0.0018	<0.0014
Dibromomethane	mg/kg	<0.0105	<0.0055	<0.0043	<0.0040	<0.0049	<0.0063	<0.0041	<0.0090	<0.0072	<0.0054	<0.0036	<0.0036	<0.0044	<0.0046	<0.0041	<0.0050	<0.0103	<0.0063	<0.0050	<0.0057	<0.0037	<0.0042	<0.0046	<0.0035
Dichlorodifluoromethane	mg/kg	<0.0210	<0.0110	<0.0086	<0.0079	<0.0097	<0.0125	<0.0082	<0.0180	<0.0145	<0.0109	<0.0073	<0.0072	<0.0089	<0.0092	<0.0082	<0.0100	<0.0207	<0.0126	<0.0099	<0.0113	<0.0074	<0.0084	<0.0091	<0.0069
Diethyl Ether	mg/kg	<0.0105	<0.0055	<0.0043	<0.0040	<0.0049	<0.0063	<0.0041	<0.0090	<0.0072	<0.0054	<0.0036	<0.0036	<0.0044	<0.0046	<0.0041	<0.0050	<0.0103	<0.0063	<0.0050	<0.0057	<0.0037	<0.0042	<0.0046	<0.0035
Di-isopropyl ether	mg/kg	<0.0105	<0.0055	<0.0043	<0.0040	<0.0049	<0.0063	<0.0041	<0.0090	<0.0072	<0.0054	<0.0036	<0.0036	<0.0044	<0.0046	<0.0041	<0.0050	<0.0103	<0.0063	<0.0050	<0.0057	<0.0037	<0.0042	<0.0046	<0.0035
Ethyl tertiary-butyl ether	mg/kg	<0.0105	<0.0055	<0.0043	<0.0040	<0.0049	<0.0063	<0.0041	<0.0090	<0.0072	<0.0054	<0.0036	<0.0036	<0.0044	<0.0046	<0.0041	<0.0050	<0.0103	<0.0063	<0.0050	<0.0057	<0.0037	<0.0042	<0.0046	<0.0035
Ethylbenzene	mg/kg	<0.0105	<0.0055	<0.0043	<0.0040	<0.0049	<0.0063	<0.0041	<0.0090	<0.0072	<0.0054	<0.0036	<0.0036	<0.0044	<0.0046	<0.0041	<0.0050	<0.0103	<0.0063	<0.0050	<0.0057	<0.0037	<0.0042	<0.0046	<0.0035
Hexachlorobutadiene	mg/kg	<0.0105	<0.0055	<0.0043	<0.0040	<0.0049	<0.0063	<0.0041	<0.0090	<0.0072	<0.0054	<0.0036	<0.0036	<0.0044	<0.0046	<0.0041	<0.0050	<0.0103	<0.0063	<0.0050	<0.0057	<0.0037	<0.0042	<0.0046	<0.0035
Isopropylbenzene	mg/kg	<0.0105	<0.0055	<0.0043	<0.0040	<0.0049	<0.0063	<0.0041	<0.0090	<0.0072	<0.0054	<0.0036	<0.0036	<0.0044	<0.0046	<0.0041	<0.0050	<0.0103	<0.0063	<0.0050	<0.0057	<0.0037	<0.0042	<0.0046	<0.0035
Methyl tert-Butyl Ether	mg/kg	<0.0105	<0.0055	<0.0043	<0.0040	<0.0049	<0.0063	<0.0041	<0.0090	<0.0072	<0.0054	<0.0036	<0.0036	<0.0044	<0.0046	<0.0041	<0.0050	<0.0103	<0.0063	<0.0050	<0.0057	<0.0037	<0.0042	<0.0046	<0.0035
Methylene Chloride	mg/kg	<0.0210	<0.0110	<0.0086	<0.0079	<0.0097	<0.0125	<0.0082	<0.0180	<0.0145	<0.0109	<0.0073	<0.0072	<0.0089	<0.0092	<0.0082	<0.0100	<0.0207	<0.0126	<0.0099	<0.0113	<0.0074	<0.0084	<0.0091	<0.0069
Naphthalene	mg/kg	<0.0105	<0.0055	<0.0043	<0.0040	<0.0049	<0.0063	<0.0041	<0.0090	<0.0072	<0.0054	<0.0036	<0.0036	<0.0044	<0.0046	<0.0041	<0.0050	<0.0103	<0.0063	<0.0050	<0.0057	<0.0037	<0.0042	<0.0046	<0.0035
n-Butylbenzene	mg/kg	<0.0105	<0.0055	<0.0043	<0.0040	<0.0049	<0.0063	<0.0041	<0.0090	<0.0072	<0.0054	<0.0036	<0.0036	<0.0044	<0.0046	<0.0041	<0.0050	<0.0103	<0.0063	<0.0050	<0.0057	<0.0037	<0.0042	<0.0046	<0.0035
n-Propylbenzene	mg/kg	<0.0105	<0.0055	<0.0043	<0.0040	<0.0049	<0.0063	<0.0041	<0.0090	<0.0072	<0.0054	<0.0036	<0.0036	<0.0044	<0.0046	<0.0041	<0.0050	<0.0103	<0.0063	<0.0050	<0.0057	<0.0037	<0.0042	<0.0046	<0.0035
sec-Butylbenzene	mg/kg	<0.0105	<0.0055	<0.0043	<0.0040	<0.0049	<0.0063	<0.0041	<0.0090	<0.0072	<0.0054	<0.0036	<0.0036	<0.0044	<0.0046	<0.0041	<0.0050	<0.0103	<0.0063	<0.0050	<0.0057	<0.0037	<0.0042	<0.0046	<0.0035

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	L15 GZ004S07S09 1410530 Fill 11 - 19 10/21/2014	L15 GZ004S10S12 1410580 Fill 19 - 28 10/21/2014	L15 GZ004S13S14 1410580 Natural Clay 28 - 36 10/22/2014	L15 GZ004S15S16 1410580 Natural Clay 39 - 46 10/22/2014	L16 L16S01S02A 1501357 Fill 0 - 3.3 1/19/2015	L16 L16S02BS04A 1501357 Fill 3.3 - 6.6 1/19/2015	L16 L16S04BS05 1501357 Fill 6.6 - 10 1/19/2015	L16 L16S06 1501357 Natural Organics 14 - 16 1/19/2015	L16 L16S07 1501357 Natural Organics 19 - 21 1/19/2015	L16 L16S08 1501357 Natural Organics 24 - 26 1/19/2015	L16 L16S09 1501357 Natural Organics 29 - 31 1/19/2015	L16 L16S10S11 1501357 Natural Sand/Gravel 34 - 38 1/19/2015	L17 L17S01S02A 1501329 Fill 0 - 3.3 1/16/2015	L17 L17S02BS04A 1501329 Fill 3.3 - 6.6 1/16/2015	L17 L17S04BS05 1501329 Fill 6.6 - 10 1/16/2015	L17 L17S06 1501329 Natural Organics 10 - 12 1/16/2015	L17 L17S07 1501329 Natural Organics 14 - 16 1/16/2015	L17 L17S08 1501329 Natural Organics 19 - 21 1/16/2015	L17 L17S09 1501329 Natural Organics 29 - 31 1/16/2015	L17 L17S10 1501357 Natural Organics 29 - 31 1/19/2015	L17 L17S11 1501357 Natural Organics 34 - 36 1/19/2015	L17 L17S12 1501357 Natural Sand/Gravel 39 - 41 1/19/2015	L17 L17S13 1501357 Natural Sand/Gravel 44 - 46 1/19/2015	L18 GZ014S01 1411608 Fill 2 - 4 11/25/2014
Preliminary Disposal Facility Category		MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type B-1	Hazardous Material Type A	MCP Regulated Type B-1	MCP Regulated Type A	Uncontaminated	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	Uncontaminated	Hazardous Material Type A	Uncontaminated	MCP Regulated Type B-1	MCP Regulated Type B-1	Hazardous Material Type A
Styrene	mg/kg	<0.0105	<0.0055	<0.0043	<0.0040	<0.0049	<0.0063	<0.0041	<0.0090	<0.0072	<0.0054	<0.0036	<0.0036	<0.0044	<0.0046	<0.0041	<0.0050	<0.0103	<0.0063	<0.0050	<0.0057	<0.0037	<0.0042	<0.0046	<0.0035
tert-Butylbenzene	mg/kg	<0.0105	<0.0055	<0.0043	<0.0040	<0.0049	<0.0063	<0.0041	<0.0090	<0.0072	<0.0054	<0.0036	<0.0036	<0.0044	<0.0046	<0.0041	<0.0050	<0.0103	<0.0063	<0.0050	<0.0057	<0.0037	<0.0042	<0.0046	<0.0035
Tertiary-amyl methyl ether	mg/kg	<0.0105	<0.0055	<0.0043	<0.0040	<0.0049	<0.0063	<0.0041	<0.0090	<0.0072	<0.0054	<0.0036	<0.0036	<0.0044	<0.0046	<0.0041	<0.0050	<0.0103	<0.0063	<0.0050	<0.0057	<0.0037	<0.0042	<0.0046	<0.0035
Tetrachloroethene	mg/kg	<0.0105	<0.0055	<0.0043	<0.0040	<0.0049	<0.0063	<0.0041	<0.0090	<0.0072	<0.0054	<0.0036	<0.0036	<0.0044	<0.0046	<0.0041	<0.0050	<0.0103	<0.0063	<0.0050	<0.0057	<0.0037	<0.0042	<0.0046	<0.0035
Tetrahydrofuran	mg/kg	<0.0105	<0.0055	<0.0043	<0.0040	<0.0049	<0.0063	<0.0041	<0.0090	<0.0072	<0.0054	<0.0036	<0.0036	<0.0044	<0.0046	<0.0041	<0.0050	<0.0103	<0.0063	<0.0050	<0.0057	<0.0037	<0.0042	<0.0046	<0.0035
Toluene	mg/kg	<0.0105	<0.0055	<0.0043	<0.0040	<0.0049	<0.0063	<0.0041	<0.0090	<0.0072	<0.0054	<0.0036	<0.0036	<0.0044	<0.0046	<0.0041	<0.0050	<0.0103	<0.0063	<0.0050	<0.0057	<0.0037	<0.0042	<0.0046	<0.0035
trans-1,2-Dichloroethene	mg/kg	<0.0105	<0.0055	<0.0043	<0.0040	<0.0049	<0.0063	<0.0041	<0.0090	<0.0072	<0.0054	<0.0036	<0.0036	<0.0044	<0.0046	<0.0041	<0.0050	<0.0103	<0.0063	<0.0050	<0.0057	<0.0037	<0.0042	<0.0046	<0.0035
trans-1,3-Dichloropropene	mg/kg	<0.0105	<0.0055	<0.0043	<0.0040	<0.0049	<0.0063	<0.0041	<0.0090	<0.0072	<0.0054	<0.0036	<0.0036	<0.0044	<0.0046	<0.0041	<0.0050	<0.0103	<0.0063	<0.0050	<0.0057	<0.0037	<0.0042	<0.0046	<0.0035
Trichloroethene	mg/kg	<0.0105	<0.0055	<0.0043	<0.0040	<0.0049	<0.0063	<0.0041	<0.0090	<0.0072	<0.0054	<0.0036	<0.0036	<0.0044	<0.0046	<0.0041	<0.0050	<0.0103	<0.0063	<0.0050	<0.0057	<0.0037	<0.0042	<0.0046	<0.0035
Trichlorofluoromethane	mg/kg	<0.0105	<0.0055	<0.0043	<0.0040	<0.0049	<0.0063	<0.0041	<0.0090	<0.0072	<0.0054	<0.0036	<0.0036	<0.0044	<0.0046	<0.0041	<0.0050	<0.0103	<0.0063	<0.0050	<0.0057	<0.0037	<0.0042	<0.0046	<0.0035
Vinyl Chloride	mg/kg	<0.0210	<0.0110	<0.0086	<0.0079	<0.0097	<0.0125	<0.0082	<0.0180	<0.0145	<0.0109	<0.0073	<0.0072	<0.0089	<0.0092	<0.0082	<0.0100	<0.0207	<0.0126	<0.0099	<0.0113	<0.0074	<0.0084	<0.0091	<0.0069
Xylene O	mg/kg	<0.0105	<0.0055	<0.0043	<0.0040	<0.0049	<0.0063	<0.0041	<0.0090	<0.0072	<0.0054	<0.0036	<0.0036	<0.0044	<0.0046	<0.0041	<0.0050	<0.0103	<0.0063	<0.0050	<0.0057	<0.0037	<0.0042	<0.0046	<0.0035
Xylene P,M	mg/kg	<0.0210	<0.0110	<0.0086	<0.0079	<0.0097	<0.0125	<0.0082	<0.0180	<0.0145	<0.0109	<0.0073	<0.0072	<0.0089	<0.0092	<0.0082	<0.0100	<0.0207	<0.0126	<0.0099	<0.0113	<0.0074	<0.0084	<0.0091	<0.0069
Xylenes (Total)	mg/kg	<0.0210	<0.0110	<0.0086	<0.0079	<0.0097	<0.0125	<0.0082	<0.0180	<0.0145	<0.0109	<0.0073	<0.0072	<0.0089	<0.0092	<0.0082	<0.0100	<0.0207	<0.0126	<0.0099	<0.0113	<0.0074	<0.0084	<0.0091	<0.0069
Total VOCs (Low Level)	mg/kg	ND	0.0178	ND	ND	0.0236	ND	0.0127	0.032	0.0136	0.0201	0.0057	ND	0.0101	0.0325	0.0041	0.0267	0.119	ND	ND	0.009	ND	0.0259	0.0048	ND
Semi-Volatile Organic Compounds																									
1,2,4-Trichlorobenzene	mg/kg	<1.63	<1.39	<1.04	<0.984	<0.828	<1.03	<1.08	<1.48	<1.31	<1.16	<0.912	<0.852	<1.72	<0.920	<1.06	<1.19	<1.76	<1.23	<1.18	<1.24	<1.01	<0.982	<0.991	<0.921
1,2-Dichlorobenzene	mg/kg	<1.63	<1.39	<1.04	<0.984	<0.828	<1.03	<1.08	<1.48	<1.31	<1.16	<0.912	<0.852	<1.72	<0.920	<1.06	<1.19	<1.76	<1.23	<1.18	<1.24	<1.01	<0.982	<0.991	<0.921
1,3-Dichlorobenzene	mg/kg	<1.63	<1.39	<1.04	<0.984	<0.828	<1.03	<1.08	<1.48	<1.31	<1.16	<0.912	<0.852	<1.72	<0.920	<1.06	<1.19	<1.76	<1.23	<1.18	<1.24	<1.01	<0.982	<0.991	<0.921
1,4-Dichlorobenzene	mg/kg	<0.817	<0.699	<0.523	<0.493	<0.415	<0.517	<0.541	<0.744	<0.657	<0.584	<0.458	<0.427	<0.865	<0.461	<0.529	<0.598	<0.884	<0.619	<0.593	<0.624	<0.507	<0.493	<0.497	<0.462
2,4,5-Trichlorophenol	mg/kg	<1.63	<1.39	<1.04	<0.984	<0.828	<1.03	<1.08	<1.48	<1.31	<1.16	<0.912	<0.852	<1.72	<0.920	<1.06	<1.19	<1.76	<1.23	<1.18	<1.24	<1.01	<0.982	<0.991	<0.921
2,4,6-Trichlorophenol	mg/kg	<1.63	<1.39	<1.04	<0.984	<0.828	<1.03	<1.08	<1.48	<1.31	<1.16	<0.912	<0.852	<1.72	<0.920	<1.06	<1.19	<1.76	<1.23	<1.18	<1.24	<1.01	<0.982	<0.991	<0.921
2,4-Dichlorophenol	mg/kg	<1.63	<1.39	<1.04	<0.984	<0.828	<1.03	<1.08	<1.48	<1.31	<1.16	<0.912	<0.852	<1.72	<0.920	<1.06	<1.19	<1.76	<1.23	<1.18	<1.24	<1.01	<0.982	<0.991	<0.921
2,4-Dimethylphenol	mg/kg	<1.63	<1.39	<1.04	<0.984	<0.828	<1.03	<1.08	<1.48	<1.31	<1.16	<0.912	<0.852	<1.72	<0.920	<1.06	<1.19	<1.76	<1.23	<1.18	<1.24	<1.01	<0.982	<0.991	<0.921
2,4-Dinitrophenol	mg/kg	<8.17	<6.99	<5.23	<4.93	<4.15	<5.17	<5.41	<7.44	<6.57	<5.84	<4.58	<4.27	<8.65	<4.61	<5.29	<5.98	<8.84	<6.19	<5.93	<6.24	<5.07	<4.93	<4.97	<4.62
2,4-Dinitrotoluene	mg/kg	<1.63	<1.39	<1.04	<0.984	<0.828	<1.03	<1.08	<1.48	<1.31	<1.16	<0.912	<0.852	<1.72	<0.920	<1.06	<1.19	<1.76	<1.23	<1.18	<1.24	<1.01	<0.982	<0.991	<0.921
2,6-Dinitrotoluene	mg/kg	<1.63	<1.39	<1.04	<0.984	<0.828	<1.03	<1.08	<1.48	<1.31	<1.16	<0.912	<0.852	<1.72	<0.920	<1.06	<1.19	<1.76	<1.23	<1.18	<1.24	<1.01	<0.982	<0.991	<0.921
2-Chloronaphthalene	mg/kg	<1.63	<1.39	<1.04	<0.984	<0.828	<1.03	<1.08	<1.48	<1.31	<1.16	<0.912	<0.852	<1.72	<0.920	<1.06	<1.19	<1.76	<1.23	<1.18	<1.24	<1.01	<0.982	<0.991	<0.921
2-Chlorophenol	mg/kg	<1.63	<1.39	<1.04	<0.984	<0.828	<1.03	<1.08	<1.48	<1.31	<1.16	<0.912	<0.852	<1.72	<0.920	<1.06	<1.19	<1.76	<1.23	<1.18	<1.24	<1.01	<0.982	<0.991	<0.921
2-Methylnaphthalene	mg/kg	<1.63	<1.39	<1.04	<0.984	<0.828	<1.03	<1.08	<1.48	<1.31	<1.16	<0.912	<0.852	<1.72	<0.920	<1.06	<1.19	<1.76	<1.23	<1.18	<1.24	<1.01	<0.982	<0.991	<0.921
2-Methylphenol	mg/kg	<1.63	<1.39	<1.04	<0.984	<0.828	<1.03	<1.08	<1.48	<1.31	<1.16	<0.912	<0.852	<1.72	<0.920	<1.06	<1.19	<1.76	<1.23	<1.18	<1.24	<1.01	<0.982	<0.991	<0.921
2-Nitrophenol	mg/kg	<1.63	<1.39	<1.04	<0.984	<0.828	<1.03	<1.08	<1.48	<1.31	<1.16	<0.912	<0.852	<1.72	<0.920	<1.06	<1.19	<1.76	<1.23	<1.18	<1.24	<1.01	<0.982	<0.991	<0.921
3,3´-Dichlorobenzidine	mg/kg	<3.26	<2.79	<2.09	<1.97	<1.66	<2.07	<2.16	<2.97	<2.62	<2.33	<1.83	<1.71	<3.45	<1.84	<2.11	<2.39	<3.53	<2.47	<2.37	<2.49	<2.03	<1.97	<1.99	<1.85
3+4-Methylphenol	mg/kg	<3.26	<2.79	<2.09	<1.97	<1.66	<2.07	<2.16	<2.97	<2.62	<2.33	<1.83	<1.71	<3.45	<1.84	<2.11	<2.39	<3.53	<2.47	<2.37	<2.49	<2.03	<1.97	<1.99	<1.85
4-Bromophenyl-phenylether	mg/kg	<1.63	<1.39	<1.04	<0.984	<0.828	<1.03	<1.08	<1.48	<1.31	<1.16	<0.912	<0.852	<1.72	<0.920	<1.06	<1.19	<1.76	<1.23	<1.18	<1.24	<1.01	<0.982	<0.991	<0.921
4-Chloroaniline	mg/kg	<3.26	<2.79	<2.09	<1.97	<1.66	<2.07	<2.16	<2.97	<2.62	<2.33	<1.83	<1.71	<3.45	<1.84	<2.11	<2.39	<3.53	<2.47	<2.37	<2.49	<2.03	<1.97	<1.99	<1.85
4-Nitrophenol	mg/kg	<8.17	<6.99	<5.23	<4.93	<4.15	<5.17	<5.41	<7.44	<6.57	<5.84	<4.58	<4.27	<8.65	<4.61	<5.29	<5.98	<8.84	<6.19	<5.93	<6.24	<5.07	<4.93	<4.97	<4.62
Acenaphthene	mg/kg	<1.63	<1.39	<1.04	<0.984	<0.828	<1.03	<1.08	<1.48	<1.31	<1.16	<0.912	<0.852	<1.72	<0.920	<1.06	<1.19	<1.76	<1.23	<1.18	<1.24	<1.01	<0.982	<0.991	<0.921
Acenaphthylene	mg/kg	<1.63	<1.39	<1.04	<0.984	<0.828	<1.03	<1.08	<1.48	<1.31	<1.16	<0.912	<0.852	<1.72	<0.920	<1.06	<1.19	<1.76	<1.23	<1.18	<1.24	<1.01	<0.982	<0.991	<0.921
Acetophenone	mg/kg	<3.26	<2.79	<2.09	<1.97	<1.66	<2.07	<2.16	<2.97	<2.62	<2.33	<1.83	<1.71	<3.45	<1.84	<2.11	<2.39	<3.53	<2.47	<2.37	<2.49	<2.03	<1.97	<1.99	<1.85
Aniline	mg/kg	<8.17	<6.99	<5.23	<4.93	<4.15	<5.17	<5.41	<7.44	<6.57	<5.84	<4.58	<4.27	<8.65	<4.61	<5.29	<5.98	<8.84	<6.19	<5.93	<6.24	<5.07	<4.93	<4.97	<4.62
Anthracene	mg/kg	<1.63	<1.39	<1.04	<0.984	<0.828	<1.03	<1.08	<1.48	<1.31	<1.16	<0.912	<0.852	<1.72	<0.920	<1.06	<1.19	<1.76	<1.23	<1.18	<1.24	<1.01	<0.982	<0.991	<0.921
Azobenzene	mg/kg	<1.63	<1.39	<1.04	<0.984	<0.828	<1.03	<1.08	<1.48	<1.31	<1.16	<0.912	<0.852	<1.72	<0.920	<1.06	<1.19	<1.76	<1.23	<1.18	<1.24	<1.01	<0.982	<0.991	<0.921
Benzo(a)anthracene	mg/kg	<1.63	<1.39	<1.04	<0.984	<0.828	<1.03	<1.08	<1.48	<1.31	<1.16	<0.912	<0.852	<1.72	<0.920	<1.06	<1.19	<1.76	<1.23	<1.18	<1.24	<1.01	<0.982	<0.991	1.11
Benzo(a)pyrene	mg/kg	<0.817	<0.699	<0.523	<0.493	<0.415	0.697	<0.541	<0.744	<0.657	<0.584	<0.458	<0.427	<0.865	<0.461	<0.529	<0.598	<0.884	<0.619	<0.593	<0.624	<0.507	<0.493	<0.497	0.973
Benzo(b)fluoranthene	mg/kg	<1.63	<1.39	<1.04	<0.984	<0.828	1.15	<1.08	<1.48	<1.31	<1.16	<0.912	<0.852	<1.72	<0.920	<1.06	<1.19	<1.76	<1.23	<1.18	<1.24	<1.01	<0.982	<0.991	1.46
Benzo(g,h,i)perylene	mg/kg	<1.63	<1.39	<1.04	<0.984	<0.828	<1.03	<1.08	<1.48	<1.31	<1.16	<0.912	<0.852	<1.72	<0.920	<1.06	<1.19	<1.76	<1.23	<1.18	<1.24	<1.01	<0.982	<0.991	<0.921
Benzo(k)fluoranthene	mg/kg	<1.63	<1.39	<1.04	<0.984	<0.828	<1.03	<1.08	<1.48	<1.31	<1.16	<0.912	<0.852	<1.72	<0.920	<1.06	<1.19	<1.76	<1.23	<1.18	<1.24	<1.01	<0.982	<0.991	<0.921
bis(2-Chloroethoxy)methane	mg/kg	<1.63	<1.39	<1.04	<0.984	<0.828	<1.03	<1.08	<1.48	<1.31	<1.16	<0.912	<0.852	<1.72	<0.920	<1.06	<1.19	<1.76	<1.23	<1.18	<1.24	<1.01	<0.982	<0.991	<0.921
bis(2-Chloroethyl)ether	mg/kg	<0.817	<0.699	<0.523	<0.493	<0.415	<0.517	<0.541	<0.744	<0.657	<0.584	<0.458	<0.427	<0.865	<0.461	<0.529	<0.598	<0.884	<0.619	<0.593	<0.624	<0.507	<0.493	<0.497	<0.462
bis(2-chloroisopropyl)Ether	mg/kg	<0.817	<0.699	<0.523	<0.493	<0.415	<0.517	<0.541	<0.744	<0.657	<0.584	<0.458	<0.427	<0.865	<0.461	<0.529	<0.598	<0.884	<0.619	<0.593	<0.624	<0.507	<0.493	<0.497	<0.462
bis(2-Ethylhexyl)phthalate	mg/kg	<1.63	<1.39	<1.04	<0.984	<0.828	<1.03	<1.08	<1.48	<1.31	<1.16	<0.912	<0.852	<1.72	<0.920	<1.06	<1.19	<1.76	<1.23	<1.18	<1.24	<1.01	<0.982	<0.991	1.38
Butylbenzylphthalate	mg/kg	<1.63	<1.39	<1.04	<0.984	<0.828	<1.03	<1.08	<1.48	<1.31	<1.16	<0.912	<0.852	<1.72	<0.920	<1.06	<1.19	<1.76	<1.23	<1.18	<1.24	<1.01	<0.982	<0.991	<0.921
Chrysene	mg/kg	<0.817	<0.699	<0.523	<0.493	<0.415	0.78	<0.541	<0.744	<0.657	<0.584	<0.458	<0.427	<0.865	0.511	<0.529	<0.598	<0.884	<0.619	<0.593	<0.624	<0.507	<0.493	<0.497	1.08
Dibenzo(a,h)Anthracene	mg/kg	<0.817	<0.699	<0.523	<0.493	<0.415	<0.517	<0.541	<0.744	<0.657	<0.584	<0.458	<0.427	<0.865	<0.461	<0.529	<0.598	<0.884	<0.619	<0.593	<0.624	<0.507	<0.493	<0.497	<0.462
Dibenzofuran	mg/kg	<1.63	<1.39	<1.04	<0.984	<0.828	<1.03	<1.08	<1.48	<1.31	<1.16	<0.912	<0.852	<1.72	<0.920	<1.06	<1.19	<1.76	<1.23	<1.18	<1.24	<1.01	<0.982	<0.991	<0.921
Diethylphthalate	mg/kg	<1.63	<1.39	<1.04	<0.984	<0.828	<1.03	<1.08	<1.48	<1.31	<1.16	<0.912	<0.852	<1.72	<0.920	<1.06	<1.19	<1.76	<1.23	<1.18	<1.24	<1.01	<0.982	<0.991	<0.921
Dimethylphthalate	mg/kg	<1.63	<1.39	<1.04	<0.984	<0.828	<1.03	<1.08	<1.48	<1.31	<1.16	<0.912	<0.852	<1.72	<0.920	<1.06	<1.19	<1.76	<1.23	<1.18	<1.24	<1.01	<0.982	<0.991	<0.921
Di-n-butylphthalate	mg/kg	<1.63	<1.39	<1.04	<0.984	<0.828	<1.03	<1.08	<1.48	<1.31	<1.16	<0.912	<0.852	<1.72	<0.920	<1.06	<1.19	<1.76	<1.23	<1.18	<1.24	<1.01	<0.982	<0.991	<0.921
Di-n-octylphthalate	mg/kg	<1.63	<1.39	<1.04	<0.984	<0.828	<1.03	<1.08	<1.48	<1.31	<1.16	<0.912	<0.852	<1.72	<0.920	<1.06	<1.19	<1.76	<1.23	<1.18	<1.24	<1.01	<0.982	<0.991	<0.921
Fluoranthene	mg/kg	<1.63	<1.39	<1.04	<0.984	<0.828	1.9	<1.08	<1.48	<1.31	<1.16	<0.912	<0.852	<1.72	1.11	<1.06	<1.19	<1.76	<1.23	<1.18	<1.24	<1.01	<0.982	<0.991	2.42
Fluorene	mg/kg	<1.63	<1.39	<1.04	<0.984	<0.828	<1.03	<1.08	<1.48	<1.31	<1.16	<0.912	<0.852	<1.72	<0.920	<1.06	<1.19	<1.76	<1.23	<1.18	<1.24	<1.01	<0.982	<0.991	<0.921
Hexachlorobenzene	mg/kg	<0.817	<0.699	<0.523	<0.493	<0.415	<0.517	<0.541	<0.744	<0.657	<0.584	<0.458	<0.427	<0.865	<0.461	<0.529	<0.598	<0.884	<0.619	<0.593	<0.624	<0.507	<0.493	<0.497	<0.462
Hexachlorobutadiene	mg/kg	<1.63	<1.39	<1.04	<0.984	<0.828	<1.03	<1.08	<1.48	<1.31	<1.16	<0.912	<0.852	<1.72	<0.920	<1.06	<1.19	<1.76	<1.23	<1.18	<1.24	<1.01	<0.982	<0.991	<0.921
Hexachloroethane	mg/kg	<1.63	<1.39	<1.04	<0.984	<0.828	<1.03	<1.08	<1.48	<1.31	<1.16	<0.912	<0.852	<1.72	<0.920	<1.06	<1.19	<1.76	<1.23	<1.18	<1.24	<1.01	<0.982	<0.991	<0.921
Indeno(1,2,3-cd)Pyrene	mg/kg	<1.63	<1.39	<1.04	<0.984	<0.828	<1.03	<1.08	<1.48	<1.31	<1.16	<0.912	<0.852	<1.72	<0.920	<1.06	<1.19	<1.76	<1.23	<1.18	<1.24	<1.01	<0.982	<0.991	<0.921
Isophorone	mg/kg	<1.63	<1.39	<1.04	<0.984	<0.828	<1.03	<1.08	<1.48	<1.31	<1.16	<0.912	<0.852	<1.72	<0.920	<1.06	<1.19	<1.76	<1.23	<1.18	<1.24	<1.01	<0.982	<0.991	<0.921
Naphthalene	mg/kg	<1.63	<1.39	<1.04	<0.984	<0.828	<1.03	<1.08	<1.48	<1.31	<1.16	<0.912	<0.852	<1.72	<0.920	<1.06	<1.19	<1.76	<1.23	<1.18	<1.24	<1.01	<0.982	<0.991	<0.921
Nitrobenzene	mg/kg	<1.63	<1.39	<1.04	<0.984	<0.828	<1.03	<1.08	<1.48	<1.31	<1.16	<0.912	<0.852	<1.72	<0.920	<1.06	<1.19	<1.76	<1.23	<1.18	<1.24	<1.01	<0.982	<0.991	<0.921
N-Nitrosodimethylamine	mg/kg	<1.63	<1.39	<1.04	<0.984	<0.828	<1.03	<1.08	<1.48	<1.31	<1.16	<0.912	<0.852	<1.72	<0.920	<1.06	<1.19	<1.76	<1.23	<1.18	<1.24	<1.01	<0.982	<0.991	<0.921
Pentachlorophenol	mg/kg	<8.17	<6.99	<5.23	<4.93	<4.15	<5.17	<5.41	<7.44	<6.57	<5.84	<4.58	<4.27	<8.65	<4.61	<5.29	<5.98	<8.84	<6.19	<5.93	<6.24	<5.07	<4.93	<4.97	<4.62
Phenanthrene	mg/kg	<1.63	<1.39	<1.04	<0.984	<0.828	<1.03	<1.08	<1.48	<1.31	<1.16	<0.912	<0.852	<1.72	<0.920	<1.06	<1.19	<1.76	<1.23	<1.18	<1.24	<1.01	<0.982	<0.991	2.61
Phenol	mg/kg	<1.63	<1.39	<1.04	<0.984	<0.828	<1.03	<1.08	<1.48	<1.31	<1.16	<0.912	<0.852	<1.72	<0.920	<1.06	<1.19	3.09	<1.23	<1.18	<1.24	<1.01	<0.982	<0.991	<0.921
Pyrene	mg/kg	<1.63	<1.39	<1.04	<0.984	<0.828	1.22	<1.08	<1.48	<1.31	<1.16	<0.912	<0.852	<1.72	<0.920	<1.06	<1.19	<1.76	<1.23	<1.18	<1.24	<1.01	<0.982	<0.991	1.77
Total SVOCs	mg/kg	ND	ND	ND	ND	ND	5.747	ND	ND	ND	ND	ND	ND	ND	1.621	ND	ND	3.09	ND	ND	ND	ND	ND	ND	12.803
Classic Chemistry																									
Corrosivity (pH)	S.U.	8.22	8.84	7.74	7.51	8.73	5.2	6.43	8.28	8.18	8.36	8.53	8.76	8.12	4.57	5.22	7.89	7.66	7.18	7.94	8.46	8.19	8.61	8.49	7.44
Conductivity	umhos/cm	5160	7500	5490	2480	221	1150	1070	7520	9780	7150	2930	1730	456	1290	377	414	11100	15700	15000	10600	4890	6020	4110	2930
Flashpoint	°F	>200	>200	>200	>200	>200	>200	>200	>200	--	--	--	--	--	>200	>200	>200	--	--	--	--	--	--	--	>200
Reactive Cyanide	mg/kg	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--	--	--	--	--	<2.0	<2.0	<2.0	--	--	--	--	--	--	--	<2.0
Reactive Sulfide	mg/kg	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--	--	--	--	--	<2.0	<2.0	<2.0	--	--	--	--	--	--	--	--	<2.0

Table 1
Soil Precharacterization Data

Wynn Resort Casino
Everett, Massachusetts

Analyte	Precharacterization Cell	L18	L18	L18	L18	L18	L18	L18	L18	L18	L18	L18	L18	L18	L18	L18	M09	M09	M09	M09	M09	M09	M09	M09	M09
	Sample ID	GZ014S03S04	GZ014S05S07	GZ014S08S10	GZ014S11S13	GZ014S14S15	GZ014S16S19	L18S01S02A	L18S02BS04A	L18S04BS05	L18S06	L18S07	L18S08	L18S09	L18S10	L18S11	M09S01S02A	M09S02BS04A	M09S04BS05	M09S06	M09S07S08	M09S09	M09S10	M09S11	M09S12
	Laboratory Work Order	1411608	1411595	1411595	1411595	1411595	1412001	1501303	1501303	1501303	1501303	1501303	1501303	1501329	1501329	1501329	1501434	1501434	1501434	1501471	1501471	1501471	1501471	1501471	1501471
	Soil Distinction	Fill	Natural	Natural	Natural	Natural	Fill	Fill	Fill	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Fill	Fill	Fill	Fill	Natural	Natural	Natural	Natural	Natural
	Soil Type		Organics	Organics	Organics	Organics				Sand/Gravel	Organics	Organics	Organics	Organics	Organics	Organics					Organics	Clay	Sand/Gravel	Clay	Clay
	Depth Interval (ft.)	4 - 11	11 - 18	18 - 26	26 - 32	32 - 36	36 - 46	0 - 3.3	3.3 - 6.6	6.6 - 10	14 - 16	19 - 21	24 - 26	29 - 31	34 - 36	39 - 41	0 - 3.3	3.3 - 6.6	6.6 - 10	10 - 12	12 - 16	16 - 19	19 - 21	24 - 26	29 - 31	34 - 36
	Sampling Date	11/25/2014	11/26/2014	11/26/2014	11/26/2014	11/26/2014	12/1/2014	1/15/2015	1/15/2015	1/15/2015	1/15/2015	1/15/2015	1/15/2015	1/16/2015	1/16/2015	1/16/2015	1/21/2015	1/21/2015	1/21/2015	1/22/2015	1/22/2015	1/22/2015	1/22/2015	1/22/2015	1/22/2015	1/22/2015
Preliminary Disposal Facility Category		Hazardous Material Type A	Uncontaminated	Hazardous Material Type A	Uncontaminated	Uncontaminated	Hazardous Material Type A	MCP Regulated Type A	Hazardous Material Type B	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type B	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A
RCRA 8 Metals	**Units**																								
Arsenic	mg/kg	107	16	8.55	8.04	6.52	6.31	8.21	950	524	<13.6	<9.48	<7.34	<9.46	<10.1	<10.7	18.8	120	26.2	46.6	<23.3	<7.80	<7.46	10.7	10.6
Barium	mg/kg	66	26.8	35.2	30.2	46.5	75.7	38.6	127	18.2	31.8	32.2	23.2	26.9	59.1	30.2	36	166	560	497	49.4	33.8	13.8	79.3	78.4
Cadmium	mg/kg	2.24	<0.78	<0.61	<0.61	<0.68	<0.68	<1.40	13.2	6.74	<2.72	<1.90	<1.47	<1.89	<2.03	<2.14	<1.30	<1.49	<2.41	<1.79	<4.66	<1.56	<1.49	<1.51	<1.39
Chromium	mg/kg	39.8	22.1	30.6	25	28.1	33.9	30.4	12.3	30.1	28.7	30.1	21.8	24.1	28.4	20.8	22.2	15.4	15.6	16.4	10.3	25	12.2	48.3	40.9
Lead	mg/kg	405	20.8	7.86	6.16	11	12.1	78.5	31800	140	29.4	<19.0	<14.7	<18.9	<20.3	<21.4	173	1310	130	119	<46.6	<15.6	<14.9	<15.1	<13.9
Selenium	mg/kg	15.7	<15.6	<12.2	<12.2	<13.6	--	<7.00	1880	<16.4	<13.6	<9.48	<7.34	<9.46	<1.01	<1.07	<6.50	13.2	<12.0	<8.93	<11.7	<15.6	<14.9	<7.56	<6.95
Silver	mg/kg	1.03	<0.78	<0.61	<0.61	<0.68	<0.68	<1.40	17.1	<1.64	<2.72	<1.90	<1.47	<1.89	<2.03	<2.14	<1.30	3.88	<2.41	<1.79	<4.66	<1.56	<1.49	<1.51	<1.39
Mercury	mg/kg	3.12	0.087	<0.036	<0.028	<0.024	<0.055	0.147	877	0.754	0.443	0.154	0.193	<0.044	<0.052	<0.051	0.466	1.02	0.171	0.203	<0.121	<0.034	<0.035	<0.035	<0.036
Metals by Toxicity Characteristic Leaching Procedure (TCLP)																									
Arsenic	mg/L	<0.050	--	--	--	--	--	--	0.511	0.066	--	--	--	--	--	--	--	<0.050	--	--	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead	mg/L	0.051	--	--	--	--	--	--	88.5	0.056	--	--	--	--	--	--	0.093	0.221	5.87	1.12	--	--	--	--	--
Selenium	mg/L	--	--	--	--	--	--	--	<0.050	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--	--	--	<0.00050	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Herbicides																									
2,4,5-T	mg/kg	<0.064	<0.12	<0.083	<0.082	<0.081	<0.086	<0.27	<0.31	<0.060	--	--	--	--	--	--	<0.045	<0.26	<0.074	<0.32	--	--	--	--	--
2,4-D	mg/kg	<0.064	<0.12	<0.083	<0.082	<0.081	<0.086	<0.27	<0.31	<0.060	--	--	--	--	--	--	<0.22	<1.3	<0.37	<0.32	--	--	--	--	--
2,4-DB	mg/kg	<0.064	<0.12	<0.083	<0.082	<0.081	<0.086	<0.27	<0.31	<0.060	--	--	--	--	--	--	<0.017	<0.096	<0.028	<0.32	--	--	--	--	--
Dalapon	mg/kg	<0.77	<1.5	<0.99	<0.99	<0.98	<1.0	<3.3	<3.8	<0.72	--	--	--	--	--	--	<1.3	<7.7	<2.2	<3.9	--	--	--	--	--
Dicamba	mg/kg	<0.064	<0.12	<0.083	<0.082	<0.081	<0.086	<0.27	<0.31	<0.060	--	--	--	--	--	--	<0.067	<0.39	<0.11	<0.32	--	--	--	--	--
Dichlorprop	mg/kg	<0.064	<0.12	<0.083	<0.082	<0.081	<0.086	<0.27	<0.31	<0.060	--	--	--	--	--	--	<0.15	<0.83	<0.24	<0.32	--	--	--	--	--
Dinoseb	mg/kg	<0.38	<0.73	<0.50	<0.50	<0.49	<0.52	<1.6	<1.9	<0.36	--	--	--	--	--	--	<0.22	<1.3	<0.37	<1.9	--	--	--	--	--
MCPA	mg/kg	<15	<29	<20	<20	<20	<21	<66	<75	<14	--	--	--	--	--	--	<56	<320	<93	<78	--	--	--	--	--
MCPP	mg/kg	<15	<29	<20	<20	<20	<21	<66	<75	<14	--	--	--	--	--	--	<56	<320	<93	<78	--	--	--	--	--
Silvex (2,4,5-TP)	mg/kg	<0.064	<0.12	<0.083	<0.082	<0.081	<0.086	<0.27	<0.31	<0.060	--	--	--	--	--	--	<0.045	<0.26	<0.074	<0.32	--	--	--	--	--
Pesticides																									
4,4'-DDD	mg/kg	<0.0047	<0.0083	<0.0058	<0.0059	<0.0056	<0.0029	<0.036	<0.0043	<0.0022	--	--	--	--	--	--	<0.0096	<0.011	<0.0062	<0.0017	--	--	--	--	--
4,4'-DDE	mg/kg	<0.0047	<0.0083	<0.0058	<0.0059	<0.0056	<0.0029	<0.036	<0.0043	<0.0022	--	--	--	--	--	--	<0.0096	<0.011	<0.0062	<0.0017	--	--	--	--	--
4,4'-DDT	mg/kg	<0.0047	<0.0083	<0.0058	<0.0059	<0.0056	<0.0029	<0.036	<0.0043	<0.0022	--	--	--	--	--	--	<0.0096	<0.011	<0.0062	<0.0017	--	--	--	--	--
Aldrin	mg/kg	<0.0047	<0.0083	<0.0058	<0.0059	<0.0056	<0.0029	<0.036	<0.0043	<0.0022	--	--	--	--	--	--	<0.0096	<0.011	<0.0062	<0.0017	--	--	--	--	--
alpha-BHC	mg/kg	<0.0047	<0.0083	<0.0058	<0.0059	<0.0056	<0.0029	<0.036	<0.0043	<0.0022	--	--	--	--	--	--	<0.0096	<0.011	<0.0062	<0.0017	--	--	--	--	--
beta-BHC	mg/kg	<0.0047	<0.0083	<0.0058	<0.0059	<0.0056	<0.0029	<0.036	<0.0043	<0.0022	--	--	--	--	--	--	<0.0096	<0.011	<0.0062	<0.0017	--	--	--	--	--
Chlordane (technical)	mg/kg	<0.047	<0.083	<0.058	<0.059	<0.056	<0.029	<0.36	<0.043	<0.022	--	--	--	--	--	--	<0.096	<0.11	<0.062	<0.049	--	--	--	--	--
delta-BHC	mg/kg	<0.0047	<0.0083	<0.0058	<0.0059	<0.0056	<0.0029	<0.036	<0.0043	<0.0022	--	--	--	--	--	--	<0.0096	<0.011	<0.0062	<0.0017	--	--	--	--	--
Dieldrin	mg/kg	<0.0047	<0.0083	<0.0058	<0.0059	<0.0056	<0.0029	<0.036	<0.0043	<0.0022	--	--	--	--	--	--	<0.0096	<0.011	<0.0062	<0.0017	--	--	--	--	--
Endosulfan I	mg/kg	<0.0047	<0.0083	<0.0058	<0.0059	<0.0056	<0.0029	<0.036	<0.0043	<0.0022	--	--	--	--	--	--	<0.0096	<0.011	<0.0062	<0.0017	--	--	--	--	--
Endosulfan II	mg/kg	<0.0047	<0.0083	<0.0058	<0.0059	<0.0056	<0.0029	<0.036	<0.0043	<0.0022	--	--	--	--	--	--	<0.0096	<0.011	<0.0062	<0.0017	--	--	--	--	--
Endosulfan sulfate	mg/kg	<0.0047	<0.0083	<0.0058	<0.0059	<0.0056	<0.0029	<0.036	<0.0043	<0.0022	--	--	--	--	--	--	<0.0096	<0.011	<0.0062	<0.0017	--	--	--	--	--
Endrin	mg/kg	<0.0047	<0.0083	<0.0058	<0.0059	<0.0056	<0.0029	<0.036	<0.0043	<0.0022	--	--	--	--	--	--	<0.0096	<0.011	<0.0062	<0.0017	--	--	--	--	--
Endrin ketone	mg/kg	<0.0047	<0.0083	<0.0058	<0.0059	<0.0056	<0.0029	<0.036	<0.0043	<0.0022	--	--	--	--	--	--	<0.0096	<0.011	<0.0062	<0.0017	--	--	--	--	--
gamma-BHC (Lindane)	mg/kg	<0.0047	<0.0083	0.0076	<0.0059	<0.0056	<0.0029	<0.036	<0.0043	<0.0022	--	--	--	--	--	--	<0.0096	<0.011	<0.0062	<0.0017	--	--	--	--	--
Heptachlor	mg/kg	<0.0047	<0.0083	<0.0058	<0.0059	<0.0056	<0.0029	<0.036	<0.0043	<0.0022	--	--	--	--	--	--	<0.0096	<0.011	<0.0062	<0.0017	--	--	--	--	--
Heptachlor epoxide	mg/kg	<0.0047	<0.0083	<0.0058	<0.0059	<0.0056	<0.0029	<0.036	<0.0043	<0.0022	--	--	--	--	--	--	<0.0096	<0.011	<0.0062	<0.0017	--	--	--	--	--
Hexachlorobenzene	mg/kg	<0.0047	<0.0083	<0.0058	<0.0059	<0.0056	<0.0029	<0.036	<0.0043	0.0024	--	--	--	--	--	--	<0.0096	<0.011	<0.0062	<0.0017	--	--	--	--	--
Methoxychlor	mg/kg	<0.0047	<0.0083	<0.0058	<0.0059	<0.0056	<0.0029	<0.036	<0.0043	<0.0022	--	--	--	--	--	--	<0.0096	<0.011	<0.0062	<0.0033	--	--	--	--	--
Polychlorinated Biphenyls																									
Aroclor 1016	mg/kg	<0.230	<0.372	<0.307	<0.290	<0.290	<0.299	<0.133	<0.169	<0.161	<0.251	<0.188	<0.169	<0.180	<0.199	<0.204	<0.131	<0.140	<0.231	<0.162	<0.466	<0.141	<0.146	<0.147	<0.139
Aroclor 1221	mg/kg	<0.230	<0.372	<0.307	<0.290	<0.290	<0.299	<0.133	<0.169	<0.161	<0.251	<0.188	<0.169	<0.180	<0.199	<0.204	<0.131	<0.140	<0.231	<0.162	<0.466	<0.141	<0.146	<0.147	<0.139
Aroclor 1232	mg/kg	<0.230	<0.372	<0.307	<0.290	<0.290	<0.299	<0.133	<0.169	<0.161	<0.251	<0.188	<0.169	<0.180	<0.199	<0.204	<0.131	<0.140	<0.231	<0.162	<0.466	<0.141	<0.146	<0.147	<0.139
Aroclor 1242	mg/kg	<0.230	<0.372	<0.307	<0.290	<0.290	<0.299	<0.133	<0.169	<0.161	<0.251	<0.188	<0.169	<0.180	<0.199	<0.204	<0.131	0.581	<0.231	<0.162	<0.466	<0.141	<0.146	<0.147	<0.139
Aroclor 1248	mg/kg	<0.230	<0.372	<0.307	<0.290	<0.290	<0.299	<0.133	<0.169	<0.161	<0.251	<0.188	<0.169	<0.180	<0.199	<0.204	<0.131	<0.140	<0.231	<0.162	<0.466	<0.141	<0.146	<0.147	<0.139
Aroclor 1254	mg/kg	<0.230	<0.372	<0.307	<0.290	<0.290	<0.299	<0.133	<0.169	<0.161	<0.251	<0.188	<0.169	<0.180	<0.199	<0.204	0.286	0.399	<0.231	<0.162	<0.466	<0.141	<0.146	<0.147	<0.139
Aroclor 1260	mg/kg	<0.230	<0.372	<0.307	<0.290	<0.290	<0.299	<0.133	<0.169	<0.161	<0.251	<0.188	<0.169	<0.180	<0.199	<0.204	0.168	<0.140	<0.231	<0.162	<0.466	<0.141	<0.146	<0.147	<0.139
Aroclor 1262	mg/kg	<0.230	<0.372	<0.307	<0.290	<0.290	<0.299	<0.133	<0.169	<0.161	<0.251	<0.188	<0.169	<0.180	<0.199	<0.204	<0.131	<0.140	<0.231	<0.162	<0.466	<0.141	<0.146	<0.147	<0.139
Aroclor 1268	mg/kg	<0.230	<0.372	<0.307	<0.290	<0.290	<0.299	<0.133	<0.169	<0.161	<0.251	<0.188	<0.169	<0.180	<0.199	<0.204	<0.131	<0.140	<0.231	<0.162	<0.466	<0.141	<0.146	<0.147	<0.139
Total PCBs	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.454	0.98	ND	ND	ND	ND	ND	ND	ND
Total Petroleum Hydrocarbons	mg/kg	117	<74.3	<60.3	<55.0	<55.8	<68.1	465	191	<43.6	317	<52.6	<50.6	<56.6	<61.8	176	221	1230	12600	4320	1010	<47.2	<39.5	<45.3	<44.0
Volatile Organic Compounds (VOCs)																									
1,1,1,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-Chloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane - Screen	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Butanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Isopropyltoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-Pentanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Disulfide	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	L18 GZ014S03S04 1411608 Fill 4 - 11 11/25/2014	L18 GZ014S05S07 1411595 Natural Organics 11 - 18 11/26/2014	L18 GZ014S08S10 1411595 Natural Organics 18 - 26 11/26/2014	L18 GZ014S11S13 1411595 Natural Organics 26 - 32 11/26/2014	L18 GZ014S14S15 1411595 Natural Organics 32 - 36 11/26/2014	L18 GZ014S16S19 1412001 Fill 36 - 46 12/1/2014	L18 L18S01S02A 1501303 Fill 0 - 3.3 1/15/2015	L18 L18S02BS04A 1501303 Fill 3.3 - 6.6 1/15/2015	L18 L18S04BS05 1501303 Natural Sand/Gravel 6.6 - 10 1/15/2015	L18 L18S06 1501303 Natural Organics 14 - 16 1/15/2015	L18 L18S07 1501303 Natural Organics 19 - 21 1/15/2015	L18 L18S08 1501303 Natural Organics 24 - 26 1/15/2015	L18 L18S09 1501329 Natural Organics 29 - 31 1/16/2015	L18 L18S10 1501329 Natural Organics 34 - 36 1/16/2015	L18 L18S11 1501329 Natural Organics 39 - 41 1/16/2015	M09 M09S01S02A 1501434 Fill 0 - 3.3 1/21/2015	M09 M09S02BS04A 1501434 Fill 3.3 - 6.6 1/21/2015	M09 M09S04BS05 1501434 Fill 6.6 - 10 1/21/2015	M09 M09S06 1501471 Fill 10 - 12 1/22/2015	M09 M09S07S08 1501471 Natural Organics 12 - 16 1/22/2015	M09 M09S09 1501471 Natural Clay 19 - 21 1/22/2015	M09 M09S10 1501471 Natural Sand/Gravel 24 - 26 1/22/2015	M09 M09S11 1501471 Natural Clay 29 - 31 1/22/2015	M09 M09S12 1501471 Natural Clay 34 - 36 1/22/2015
Preliminary Disposal Facility Category		Hazardous Material Type A	Uncontaminated	Hazardous Material Type A	Uncontaminated	Uncontaminated	Hazardous Material Type A	MCP Regulated Type A	Hazardous Material Type B	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type B	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A
Chlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Diethyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Di-isopropyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethyl tertiary-butyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
tert-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tertiary-amyl methyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene O	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene P,M	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylenes (Total)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total VOCs	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds - Low Level Analysis																												
1,1,1,2-Tetrachloroethane	mg/kg	<0.0029	<0.0049	<0.0080	<0.0056	<0.0051	<0.0042	<0.0034	<0.0063	<0.0042	<0.0093	<0.0053	<0.0044	<0.0043	<0.0054	<0.0076	<0.0043	<0.0044	<0.0076	<0.0053	<0.0215	<0.0036	<0.0035	<0.0033	<0.0032
1,1,1-Trichloroethane	mg/kg	<0.0029	<0.0049	<0.0080	<0.0056	<0.0051	<0.0042	<0.0034	<0.0063	<0.0042	<0.0093	<0.0053	<0.0044	<0.0043	<0.0054	<0.0076	<0.0043	<0.0044	<0.0076	<0.0053	<0.0215	<0.0036	<0.0035	<0.0033	<0.0032
1,1,2,2-Tetrachloroethane	mg/kg	<0.0012	<0.0020	<0.0032	<0.0022	<0.0020	<0.0017	<0.0014	<0.0025	<0.0017	<0.0037	<0.0021	<0.0018	<0.0017	<0.0022	<0.0031	<0.0017	<0.0018	<0.0031	<0.0021	<0.0086	<0.0015	<0.0014	<0.0013	<0.0013
1,1,2-Trichloroethane	mg/kg	<0.0029	<0.0049	<0.0080	<0.0056	<0.0051	<0.0042	<0.0034	<0.0063	<0.0042	<0.0093	<0.0053	<0.0044	<0.0043	<0.0054	<0.0076	<0.0043	<0.0044	<0.0076	<0.0053	<0.0215	<0.0036	<0.0035	<0.0033	<0.0032
1,1-Dichloroethane	mg/kg	<0.0029	<0.0049	<0.0080	<0.0056	<0.0051	<0.0042	<0.0034	<0.0063	<0.0042	<0.0093	<0.0053	<0.0044	<0.0043	<0.0054	<0.0076	<0.0043	<0.0044	<0.0076	<0.0053	<0.0215	<0.0036	<0.0035	<0.0033	<0.0032
1,1-Dichloroethene	mg/kg	<0.0029	<0.0049	<0.0080	<0.0056	<0.0051	<0.0042	<0.0034	<0.0063	<0.0042	<0.0093	<0.0053	<0.0044	<0.0043	<0.0054	<0.0076	<0.0043	<0.0044	<0.0076	<0.0053	<0.0215	<0.0036	<0.0035	<0.0033	<0.0032
1,1-Dichloropropene	mg/kg	<0.0029	<0.0049	<0.0080	<0.0056	<0.0051	<0.0042	<0.0034	<0.0063	<0.0042	<0.0093	<0.0053	<0.0044	<0.0043	<0.0054	<0.0076	<0.0043	<0.0044	<0.0076	<0.0053	<0.0215	<0.0036	<0.0035	<0.0033	<0.0032
1,2,3-Trichlorobenzene	mg/kg	<0.0029	<0.0049	<0.0080	<0.0056	<0.0051	<0.0042	<0.0034	<0.0063	<0.0042	<0.0093	<0.0053	<0.0044	<0.0043	<0.0054	<0.0076	<0.0043	<0.0044	<0.0076	<0.0053	<0.0215	<0.0036	<0.0035	<0.0033	<0.0032
1,2,3-Trichloropropane	mg/kg	<0.0029	<0.0049	<0.0080	<0.0056	<0.0051	<0.0042	<0.0034	<0.0063	<0.0042	<0.0093	<0.0053	<0.0044	<0.0043	<0.0054	<0.0076	<0.0043	<0.0044	<0.0076	<0.0053	<0.0215	<0.0036	<0.0035	<0.0033	<0.0032
1,2,4-Trichlorobenzene	mg/kg	<0.0029	<0.0049	<0.0080	<0.0056	<0.0051	<0.0042	<0.0034	<0.0063	<0.0042	<0.0093	<0.0053	<0.0044	<0.0043	<0.0054	<0.0076	<0.0043	<0.0044	<0.0076	<0.0053	<0.0215	<0.0036	<0.0035	<0.0033	<0.0032
1,2,4-Trimethylbenzene	mg/kg	<0.0029	<0.0049	<0.0080	<0.0056	<0.0051	<0.0042	<0.0034	<0.0063	<0.0042	<0.0093	<0.0053	<0.0044	<0.0043	<0.0054	<0.0076	<0.0043	<0.0044	<0.0076	<0.0053	<0.0215	<0.0036	<0.0035	<0.0033	<0.0032
1,2-Dibromo-3-Chloropropane	mg/kg	<0.0029	<0.0049	<0.0080	<0.0056	<0.0051	<0.0042	<0.0034	<0.0063	<0.0042	<0.0093	<0.0053	<0.0044	<0.0043	<0.0054	<0.0076	<0.0043	<0.0044	<0.0076	<0.0053	<0.0215	<0.0036	<0.0035	<0.0033	<0.0032
1,2-Dibromoethane	mg/kg	<0.0029	<0.0049	<0.0080	<0.0056	<0.0051	<0.0042	<0.0034	<0.0063	<0.0042	<0.0093	<0.0053	<0.0044	<0.0043	<0.0054	<0.0076	<0.0043	<0.0044	<0.0076	<0.0053	<0.0215	<0.0036	<0.0035	<0.0033	<0.0032
1,2-Dichlorobenzene	mg/kg	<0.0029	<0.0049	<0.0080	<0.0056	<0.0051	<0.0042	<0.0034	<0.0063	<0.0042	<0.0093	<0.0053	<0.0044	<0.0043	<0.0054	<0.0076	<0.0043	<0.0044	<0.0076	<0.0053	<0.0215	<0.0036	<0.0035	<0.0033	<0.0032
1,2-Dichloroethane	mg/kg	<0.0029	<0.0049	<0.0080	<0.0056	<0.0051	<0.0042	<0.0034	<0.0063	<0.0042	<0.0093	<0.0053	<0.0044	<0.0043	<0.0054	<0.0076	<0.0043	<0.0044	<0.0076	<0.0053	<0.0215	<0.0036	<0.0035	<0.0033	<0.0032
1,2-Dichloropropane	mg/kg	<0.0029	<0.0049	<0.0080	<0.0056	<0.0051	<0.0042	<0.0034	<0.0063	<0.0042	<0.0093	<0.0053	<0.0044	<0.0043	<0.0054	<0.0076	<0.0043	<0.0044	<0.0076	<0.0053	<0.0215	<0.0036	<0.0035	<0.0033	<0.0032
1,3,5-Trimethylbenzene	mg/kg	<0.0029	<0.0049	<0.0080	<0.0056	<0.0051	<0.0042	<0.0034	<0.0063	<0.0042	<0.0093	<0.0053	<0.0044	<0.0043	<0.0054	<0.0076	<0.0043	<0.0044	<0.0076	<0.0053	<0.0215	<0.0036	<0.0035	<0.0033	<0.0032
1,3-Dichlorobenzene	mg/kg	<0.0029	<0.0049	<0.0080	<0.0056	<0.0051	<0.0042	<0.0034	<0.0063	<0.0042	<0.0093	<0.0053	<0.0044	<0.0043	<0.0054	<0.0076	<0.0043	<0.0044	<0.0076	<0.0053	<0.0215	<0.0036	<0.0035	<0.0033	<0.0032
1,3-Dichloropropane	mg/kg	<0.0029	<0.0049	<0.0080	<0.0056	<0.0051	<0.0042	<0.0034	<0.0063	<0.0042	<0.0093	<0.0053	<0.0044	<0.0043	<0.0054	<0.0076	<0.0043	<0.0044	<0.0076	<0.0053	<0.0215	<0.0036	<0.0035	<0.0033	<0.0032
1,4-Dichlorobenzene	mg/kg	<0.0029	<0.0049	<0.0080	<0.0056	<0.0051	<0.0042	<0.0034	<0.0063	<0.0042	<0.0093	<0.0053	<0.0044	<0.0043	<0.0054	<0.0076	<0.0043	<0.0044	<0.0076	<0.0053	<0.0215	<0.0036	<0.0035	<0.0033	<0.0032
1,4-Dioxane	mg/kg	<0.0587	<0.0977	<0.159	<0.112	<0.101	<0.0842	<0.0689	<0.125	<0.0838	<0.186	<0.107	<0.0879	<0.0854	<0.108	<0.153	<0.0861	<0.0881	<0.153	<0.105	<0.430	<0.0725	<0.0707	<0.0652	<0.0646
2,2-Dichloropropane	mg/kg	<0.0029	<0.0049	<0.0080	<0.0056	<0.0051	<0.0042	<0.0034	<0.0063	<0.0042	<0.0093	<0.0053	<0.0044	<0.0043	<0.0054	<0.0076	<0.0043	<0.0044	<0.0076	<0.0053	<0.0215	<0.0036	<0.0035	<0.0033	<0.0032
2-Butanone	mg/kg	<0.0059	<0.0098	<0.0159	<0.0112	<0.0101	<0.0084	<0.0069	<0.0125	<0.0084	<0.0186	<0.0107	<0.0088	<0.0085	<0.0108	<0.0153	<0.0086	<0.0088	<0.0153	<0.0105	<0.0430	<0.0073	<0.0071	<0.0065	<0.0065
2-Chlorotoluene	mg/kg	<0.0029	<0.0049	<0.0080	<0.0056	<0.0051	<0.0042	<0.0034	<0.0063	<0.0042	<0.0093	<0.0053	<0.0044	<0.0043	<0.0054	<0.0076	<0.0043	<0.0044	<0.0076	<0.0053	<0.0215	<0.0036	<0.0035	<0.0033	<0.0032
2-Hexanone	mg/kg	<0.0059	<0.0098	<0.0159	<0.0112	<0.0101	<0.0084	<0.0069	<0.0125	<0.0084	<0.0186	<0.0107	<0.0088	<0.0085	<0.0108	<0.0153	<0.0086	<0.0088	<0.0153	<0.0105	<0.0430	<0.0073	<0.0071	<0.0065	<0.0065
4-Chlorotoluene	mg/kg	<0.0029	<0.0049	<0.0080	<0.0056	<0.0051	<0.0042	<0.0034	<0.0063	<0.0042	<0.0093	<0.0053	<0.0044	<0.0043	<0.0054	<0.0076	<0.0043	<0.0044	<0.0076	<0.0053	<0.0215	<0.0036	<0.0035	<0.0033	<0.0032
4-Isopropyltoluene	mg/kg	<0.0029	<0.0049	<0.0080	<0.0056	<0.0051	<0.0042	<0.0034	<0.0063	<0.0042	<0.0093	<0.0053	<0.0044	<0.0043	<0.0054	<0.0076	<0.0043	<0.0044	<0.0076	<0.0053	<0.0215	<0.0036	<0.0035	<0.0033	<0.0032
4-Methyl-2-Pentanone	mg/kg	<0.0059	<0.0098	<0.0159	<0.0112	<0.0101	<0.0084	<0.0069	<0.0125	<0.0084	<0.0186	<0.0107	<0.0088	<0.0085	<0.0108	<0.0153	<0.0086	<0.0088	<0.0153	<0.0105	<0.0430	<0.0073	<0.0071	<0.0065	<0.0065
Acetone	mg/kg	0.0122	<0.0098	0.024	<0.0112	<0.0101	<0.0084	0.0227	0.0395	0.0789	0.0968	0.0206	<0.0088	0.0181	0.0149	0.0346	<0.0086	0.0538	<0.0153	<0.0105	0.246	0.0156	0.0089	0.0073	0.0084
Benzene	mg/kg	<0.0029	<0.0049	<0.0080	<0.0056	<0.0051	<0.0042	<0.0034	<0.0063	<0.0042	<0.0093	<0.0053	<0.0044	<0.0043	<0.0054	<0.0076	<0.0043	<0.0044	<0.0076	<0.0053	<0.0215	<0.0036	<0.0035	<0.0033	<0.0032
Bromobenzene	mg/kg	<0.0029	<0.0049	<0.0080	<0.0056	<0.0051	<0.0042	<0.0034	<0.0063	<0.0042	<0.0093	<0.0053	<0.0044	<0.0043	<0.0054	<0.0076	<0.0043	<0.0044	<0.0076	<0.0053	<0.0215	<0.0036	<0.0035	<0.0033	<0.0032
Bromochloromethane	mg/kg	<0.0029	<0.0049	<0.0080	<0.0056	<0.0051	<0.0042	<0.0034	<0.0063	<0.0042	<0.0093	<0.0053	<0.0044	<0.0043	<0.0054	<0.0076	<0.0043	<0.0044	<0.0076	<0.0053	<0.0215	<0.0036	<0.0035	<0.0033	<0.0032
Bromodichloromethane	mg/kg	<0.0029	<0.0049	<0.0080	<0.0056	<0.0051	<0.0042	<0.0034	<0.0063	<0.0042	<0.0093	<0.0053	<0.0044	<0.0043	<0.0054	<0.0076	<0.0043	<0.0044	<0.0076	<0.0053	<0.0215	<0.0036	<0.0035	<0.0033	<0.0032
Bromoform	mg/kg	<0.0029	<0.0049	<0.0080	<0.0056	<0.0051	<0.0042	<0.0034	<0.0063	<0.0042	<0.0093	<0.0053	<0.0044	<0.0043	<0.0054	<0.0076	<0.0043	<0.0044	<0.0076	<0.0053	<0.0215	<0.0036	<0.0035	<0.0033	<0.0032
Bromomethane	mg/kg	<0.0059	<0.0098	<0.0159	<0.0112	<0.0101	<0.0084	<0.0069	<0.0125	<0.0084	<0.0186	<0.0107	<0.0088	<0.0085	<0.0108	<0.0153	<0.0086	<0.0088	<0.0153	<0.0105	<0.0430	<0.0073	<0.0071	<0.0065	<0.0065
Carbon Disulfide	mg/kg	<0.0029	<0.0049	0.015	<0.0056	<0.0051	0.0061	<0.0034	<0.0063	<0.0042	0.0798	0.0538	0.0093	0.0084	<0.0054	0.0134	<0.0043	<0.0044	<0.0076	<0.0053	0.0473	<0.0036	<0.0035	<0.0033	<0.0032
Carbon Tetrachloride	mg/kg	<0.0029	<0.0049	<0.0080	<0.0056	<0.0051	<0.0042	<0.0034	<0.0063	<0.0042	<0.0093	<0.0053	<0.0044	<0.0043	<0.0054	<0.0076	<0.0043	<0.0044	<0.0076	<0.0053	<0.0215	<0.0036	<0.0035	<0.0033	<0.0032
Chlorobenzene	mg/kg	<0.0029	<0.0049	<0.0080	<0.0056	<0.0051	<0.0042	<0.0034	<0.0063	<0.0042	<0.0093	<0.0053	<0.0044	<0.0043	<0.0054	<0.0076	<0.0043	<0.0044	<0.0076	<0.0053	<0.0215	<0.0036	<0.0035	<0.0033	<0.0032
Chloroethane	mg/kg	<0.0059	<0.0098	<0.0159	<0.0112	<0.0101	<0.0084	<0.0069	<0.0125	<0.0084	<0.0186	<0.0107	<0.0088	<0.0085	<0.0108	<0.0153	<0.0086	<0.0088	<0.0153	<0.0105	<0.0430	<0.0073	<0.0071	<0.0065	<0.0065
Chloroform	mg/kg	<0.0029	<0.0049	<0.0080	<0.0056	<0.0051	<0.0042	<0.0034	<0.0063	<0.0042	<0.0093	<0.0053	<0.0044	<0.0043	<0.0054	<0.0076	<0.0043	<0.0044	<0.0076	<0.0053	<0.0215	<0.0036	<0.0035	<0.0033	<0.0032
Chloromethane	mg/kg	<0.0059	<0.0098	<0.0159	<0.0112	<0.0101	<0.0084	<0.0069	<0.0125	<0.0084	<0.0186	<0.0107	<0.0088	<0.0085	<0.0108	<0.0153	<0.0086	<0.0088	<0.0153	<0.0105	<0.0430	<0.0073	<0.0071	<0.0065	<0.0065
cis-1,2-Dichloroethene	mg/kg	<0.0029	<0.0049	<0.0080	<0.0056	<0.0051	<0.0042	<0.0034	<0.0063	<0.0042	<0.0093	<0.0053	<0.0044	<0.0043	<0.0054	<0.0076	<0.0043	<0.0044	<0.0076	<0.0053	<0.0215	<0.0036	<0.0035	<0.0033	<0.0032
cis-1,3-Dichloropropene	mg/kg	<0.0029	<0.0049	<0.0080	<0.0056	<0.0051	<0.0042	<0.0034	<0.0063	<0.0042	<0.0093	<0.0053	<0.0044	<0.0043	<0.0054	<0.0076	<0.0043	<0.0044	<0.0076	<0.0053	<0.0215	<0.0036	<0.0035	<0.0033	<0.0032
Dibromochloromethane	mg/kg	<0.0012	<0.0020	<0.0032	<0.0022	<0.0020	<0.0017	<0.0014	<0.0025	<0.0017	<0.0037	<0.0021	<0.0018	<0.0017	<0.0022	<0.0031	<0.0017	<0.0018	<0.0031	<0.0021	<0.0086	<0.0015	<0.0014	<0.0013	<0.0013
Dibromomethane	mg/kg	<0.0029	<0.0049	<0.0080	<0.0056	<0.0051	<0.0042	<0.0034	<0.0063	<0.0042	<0.0093	<0.0053	<0.0044	<0.0043	<0.0054	<0.0076	<0.0043	<0.0044	<0.0076	<0.0053	<0.0215	<0.0036	<0.0035	<0.0033	<0.0032
Dichlorodifluoromethane	mg/kg	<0.0059	<0.0098	<0.0159	<0.0112	<0.0101	<0.0084	<0.0069	<0.0125	<0.0084	<0.0186	<0.0107	<0.0088	<0.0085	<0.0108	<0.0153	<0.0086	<0.0088	<0.0153	<0.0105	<0.0430	<0.0073	<0.0071	<0.0065	<0.0065
Diethyl Ether	mg/kg	<0.0029	<0.0049	<0.0080	<0.0056	<0.0051	<0.0042	<0.0034	<0.0063	<0.0042	<0.0093	<0.0053	<0.0044	<0.0043	<0.0054	<0.0076	<0.0043	<0.0044	<0.0076	<0.0053	<0.0215	<0.0036	<0.0035	<0.0033	<0.0032
Di-isopropyl ether	mg/kg	<0.0029	<0.0049	<0.0080	<0.0056	<0.0051	<0.0042	<0.0034	<0.0063	<0.0042	<0.0093	<0.0053	<0.0044	<0.0043	<0.0054	<0.0076	<0.0043	<0.0044	<0.0076	<0.0053	<0.0215	<0.0036	<0.0035	<0.0033	<0.0032
Ethyl tertiary-butyl ether	mg/kg	<0.0029	<0.0049	<0.0080	<0.0056	<0.0051	<0.0042	<0.0034	<0.0063	<0.0042	<0.0093	<0.0053	<0.0044	<0.0043	<0.0054	<0.0076	<0.0043	<0.0044	<0.0076	<0.0053	<0.0215	<0.0036	<0.0035	<0.0033	<0.0032
Ethylbenzene	mg/kg	<0.0029	<0.0049	<0.0080	<0.0056	<0.0051	<0.0042	<0.0034	<0.0063	<0.0042	<0.0093	<0.0053	<0.0044	<0.0043	<0.0054	<0.0076	<0.0043	<0.0044	<0.0076	<0.0053	<0.0215	<0.0036	<0.0035	<0.0033	<0.0032
Hexachlorobutadiene	mg/kg	<0.0029	<0.0049	<0.0080	<0.0056	<0.0051	<0.0042	<0.0034	<0.0063	<0.0042	<0.0093	<0.0053	<0.0044	<0.0043	<0.0054	<0.0076	<0.0043	<0.0044	<0.0076	<0.0053	<0.0215	<0.0036	<0.0035	<0.0033	<0.0032
Isopropylbenzene	mg/kg	<0.0029	<0.0049	<0.0080	<0.0056	<0.0051	<0.0042	<0.0034	<0.0063	<0.0042	<0.0093	<0.0053	<0.0044	<0.0043	<0.0054	<0.0076	<0.0043	<0.0044	<0.0076	<0.0053	<0.0215	<0.0036	<0.0035	<0.0033	<0.0032
Methyl tert-Butyl Ether	mg/kg	<0.0029	<0.0049	<0.0080	<0.0056	<0.0051	<0.0042	<0.0034	<0.0063	<0.0042	<0.0093	<0.0053	<0.0044	<0.0043	<0.0054	<0.0076	<0.0043	<0.0044	<0.0076	<0.0053	<0.0215	<0.0036	<0.0035	<0.0033	<0.0032
Methylene Chloride	mg/kg	<0.0059	<0.0098	<0.0159	<0.0112	<0.0101	<0.0084	<0.0069	<0.0125	<0.0084	<0.0186	<0.0107	<0.0088	<0.0085	<0.0108	<0.0153	<0.0086	<0.0088	<0.0153	<0.0105	<0.0430	<0.0073	<0.0071	<0.0065	<0.0065
Naphthalene	mg/kg	<0.0029	<0.0049	<0.0080	<0.0056	<0.0051	<0.0042	<0.0034	<0.0063	<0.0042	<0.0093	<0.0053	<0.0044	<0.0043	<0.0054	<0.0076	<0.0043	<0.0044	<0.0076	<0.0053	<0.0215	<0.0036	<0.0035	<0.0033	<0.0032
n-Butylbenzene	mg/kg	<0.0029	<0.0049	<0.0080	<0.0056	<0.0051	<0.0042	<0.0034	<0.0063	<0.0042	<0.0093	<0.0053	<0.0044	<0.0043	<0.0054	<0.0076	<0.0043	<0.0044	<0.0076	<0.0053	<0.0215	<0.0036	<0.0035	<0.0033	<0.0032
n-Propylbenzene	mg/kg	<0.0029	<0.0049	<0.0080	<0.0056	<0.0051	<0.0042	<0.0034	<0.0063	<0.0042	<0.0093	<0.0053	<0.0044	<0.0043	<0.0054	<0.0076	<0.0043	<0.0044	<0.0076	<0.0053	<0.0215	<0.0036	<0.0035	<0.0033	<0.0032
sec-Butylbenzene	mg/kg	<0.0029	<0.0049	<0.0080

Table 1
Soil Precharacterization Data

Wynn Resort Casino
Everett, Massachusetts

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	L18 GZ014S03S04 1411608 Fill 4 - 11 11/25/2014	L18 GZ014S05S07 1411595 Natural Organics 11 - 18 11/26/2014	L18 GZ014S08S10 1411595 Natural Organics 18 - 26 11/26/2014	L18 GZ014S11S13 1411595 Natural Organics 26 - 32 11/26/2014	L18 GZ014S14S15 1411595 Natural Organics 32 - 36 11/26/2014	L18 GZ014S16S19 1412001 Fill 36 - 46 12/1/2014	L18 L18S01S02A 1501303 Fill 0 - 3.3 1/15/2015	L18 L18S02BS04A 1501303 Fill 3.3 - 6.6 1/15/2015	L18 L18S04BS05 1501303 Natural Sand/Gravel 6.6 - 10 1/15/2015	L18 L18S06 1501303 Natural Organics 14 - 16 1/15/2015	L18 L18S07 1501303 Natural Organics 19 - 21 1/15/2015	L18 L18S08 1501303 Natural Organics 24 - 26 1/15/2015	L18 L18S09 1501329 Natural Organics 29 - 31 1/16/2015	L18 L18S10 1501329 Natural Organics 34 - 36 1/16/2015	L18 L18S11 1501329 Natural Organics 39 - 41 1/16/2015	M09 M09S01S02A 1501434 Fill 0 - 3.3 1/21/2015	M09 M09S02BS04A 1501434 Fill 3.3 - 6.6 1/21/2015	M09 M09S04BS05 1501434 Fill 6.6 - 10 1/21/2015	M09 M09S06 1501471 Fill 10 - 12 1/22/2015	M09 M09S07S08 1501471 Natural Organics 12 - 16 1/22/2015	M09 M09S09 1501471 Natural Clay 19 - 21 1/22/2015	M09 M09S10 1501471 Natural Sand/Gravel 24 - 26 1/22/2015	M09 M09S11 1501471 Natural Clay 29 - 31 1/22/2015	M09 M09S12 1501471 Natural Clay 34 - 36 1/22/2015
Preliminary Disposal Facility Category		Hazardous Material Type A	Uncontaminated	Hazardous Material Type A	Uncontaminated	Uncontaminated	Hazardous Material Type A	MCP Regulated Type A	Hazardous Material Type B	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type B	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A
Styrene	mg/kg	<0.0029	<0.0049	<0.0080	<0.0056	<0.0051	<0.0042	<0.0034	<0.0063	<0.0042	<0.0093	<0.0053	<0.0044	<0.0043	<0.0054	<0.0076	<0.0043	<0.0044	<0.0076	<0.0053	<0.0215	<0.0036	<0.0035	<0.0033	<0.0032
tert-Butylbenzene	mg/kg	<0.0029	<0.0049	<0.0080	<0.0056	<0.0051	<0.0042	<0.0034	<0.0063	<0.0042	<0.0093	<0.0053	<0.0044	<0.0043	<0.0054	<0.0076	<0.0043	<0.0044	<0.0076	<0.0053	<0.0215	<0.0036	<0.0035	<0.0033	<0.0032
Tertiary-amyl methyl ether	mg/kg	<0.0029	<0.0049	<0.0080	<0.0056	<0.0051	<0.0042	<0.0034	<0.0063	<0.0042	<0.0093	<0.0053	<0.0044	<0.0043	<0.0054	<0.0076	<0.0043	<0.0044	<0.0076	<0.0053	<0.0215	<0.0036	<0.0035	<0.0033	<0.0032
Tetrachloroethene	mg/kg	<0.0029	<0.0049	<0.0080	<0.0056	<0.0051	<0.0042	<0.0034	<0.0063	<0.0042	<0.0093	<0.0053	<0.0044	<0.0043	<0.0054	<0.0076	<0.0043	<0.0044	<0.0076	<0.0053	<0.0215	<0.0036	<0.0035	<0.0033	<0.0032
Tetrahydrofuran	mg/kg	<0.0029	<0.0049	<0.0080	<0.0056	<0.0051	<0.0042	<0.0034	<0.0063	<0.0042	<0.0093	<0.0053	<0.0044	<0.0043	<0.0054	<0.0076	<0.0043	<0.0044	<0.0076	<0.0053	<0.0215	<0.0036	<0.0035	<0.0033	<0.0032
Toluene	mg/kg	<0.0029	<0.0049	<0.0080	<0.0056	<0.0051	<0.0042	<0.0034	<0.0063	<0.0042	<0.0093	<0.0053	<0.0044	<0.0043	<0.0054	<0.0076	<0.0043	<0.0044	<0.0076	<0.0053	<0.0215	<0.0036	<0.0035	<0.0033	<0.0032
trans-1,2-Dichloroethene	mg/kg	<0.0029	<0.0049	<0.0080	<0.0056	<0.0051	<0.0042	<0.0034	<0.0063	<0.0042	<0.0093	<0.0053	<0.0044	<0.0043	<0.0054	<0.0076	<0.0043	<0.0044	<0.0076	<0.0053	<0.0215	<0.0036	<0.0035	<0.0033	<0.0032
trans-1,3-Dichloropropene	mg/kg	<0.0029	<0.0049	<0.0080	<0.0056	<0.0051	<0.0042	<0.0034	<0.0063	<0.0042	<0.0093	<0.0053	<0.0044	<0.0043	<0.0054	<0.0076	<0.0043	<0.0044	<0.0076	<0.0053	<0.0215	<0.0036	<0.0035	<0.0033	<0.0032
Trichloroethene	mg/kg	<0.0029	<0.0049	<0.0080	<0.0056	<0.0051	<0.0042	<0.0034	<0.0063	<0.0042	<0.0093	<0.0053	<0.0044	<0.0043	<0.0054	<0.0076	<0.0043	<0.0044	<0.0076	<0.0053	<0.0215	<0.0036	<0.0035	<0.0033	<0.0032
Trichlorofluoromethane	mg/kg	<0.0029	<0.0049	<0.0080	<0.0056	<0.0051	<0.0042	<0.0034	<0.0063	<0.0042	<0.0093	<0.0053	<0.0044	<0.0043	<0.0054	<0.0076	<0.0043	<0.0044	<0.0076	<0.0053	<0.0215	<0.0036	<0.0035	<0.0033	<0.0032
Vinyl Chloride	mg/kg	<0.0059	<0.0098	<0.0159	<0.0112	<0.0101	<0.0084	<0.0069	<0.0125	<0.0084	<0.0186	<0.0107	<0.0088	<0.0085	<0.0108	<0.0153	<0.0086	<0.0088	<0.0153	<0.0105	<0.0430	<0.0073	<0.0071	<0.0065	<0.0065
Xylene O	mg/kg	<0.0029	<0.0049	<0.0080	<0.0056	<0.0051	<0.0042	<0.0034	<0.0063	<0.0042	<0.0093	<0.0053	<0.0044	<0.0043	<0.0054	<0.0076	<0.0043	<0.0044	<0.0076	<0.0053	<0.0215	<0.0036	<0.0035	<0.0033	<0.0032
Xylene P,M	mg/kg	<0.0059	<0.0098	<0.0159	<0.0112	<0.0101	<0.0084	<0.0069	<0.0125	<0.0084	<0.0186	<0.0107	<0.0088	<0.0085	<0.0108	<0.0153	<0.0086	<0.0088	<0.0153	<0.0105	<0.0430	<0.0073	<0.0071	<0.0065	<0.0065
Xylenes (Total)	mg/kg	<0.0059	<0.0098	<0.0159	<0.0112	<0.0101	<0.0084	<0.0069	<0.0125	<0.0084	<0.0186	<0.0107	<0.0088	<0.0085	<0.0108	<0.0153	<0.0086	<0.0088	<0.0153	<0.0105	<0.0430	<0.0073	<0.0071	<0.0065	<0.0065
Total VOCs (Low Level)	mg/kg	0.0122	ND	0.039	ND	ND	0.0061	0.0227	0.0395	0.0789	0.1766	0.0744	0.0093	0.0265	0.0149	0.048	ND	0.0538	ND	ND	0.2933	0.0156	0.0089	0.0073	0.0084
Semi-Volatile Organic Compounds																									
1,2,4-Trichlorobenzene	mg/kg	<0.992	<1.53	<1.38	<1.18	<1.15	<0.571	<0.813	<1.02	<0.961	<1.58	<1.14	<1.14	<1.13	<1.26	<1.34	<0.861	<0.963	<1.51	<1.02	<3.00	<0.914	<0.858	<0.878	<0.861
1,2-Dichlorobenzene	mg/kg	<0.992	<1.53	<1.38	<1.18	<1.15	<0.571	<0.813	<1.02	<0.961	<1.58	<1.14	<1.14	<1.13	<1.26	<1.34	<0.861	<0.963	<1.51	<1.02	<3.00	<0.914	<0.858	<0.878	<0.861
1,3-Dichlorobenzene	mg/kg	<0.992	<1.53	<1.38	<1.18	<1.15	<0.571	<0.813	<1.02	<0.961	<1.58	<1.14	<1.14	<1.13	<1.26	<1.34	<0.861	<0.963	<1.51	<1.02	<3.00	<0.914	<0.858	<0.878	<0.861
1,4-Dichlorobenzene	mg/kg	<0.497	<0.766	<0.692	<0.593	<0.579	<0.286	<0.408	<0.514	<0.482	<0.791	<0.570	<0.570	<0.569	<0.632	<0.671	<0.432	<0.483	<0.757	<0.512	<1.50	<0.459	<0.430	<0.441	<0.432
2,4,5-Trichlorophenol	mg/kg	<0.992	<1.53	<1.38	<1.18	<1.15	<0.571	<0.813	<1.02	<0.961	<1.58	<1.14	<1.14	<1.13	<1.26	<1.34	<0.861	<0.963	<1.51	<1.02	<3.00	<0.914	<0.858	<0.878	<0.861
2,4,6-Trichlorophenol	mg/kg	<0.992	<1.53	<1.38	<1.18	<1.15	<0.571	<0.813	<1.02	<0.961	<1.58	<1.14	<1.14	<1.13	<1.26	<1.34	<0.861	<0.963	<1.51	<1.02	<3.00	<0.914	<0.858	<0.878	<0.861
2,4-Dichlorophenol	mg/kg	<0.992	<1.53	<1.38	<1.18	<1.15	<0.571	<0.813	<1.02	<0.961	<1.58	<1.14	<1.14	<1.13	<1.26	<1.34	<0.861	<0.963	<1.51	<1.02	<3.00	<0.914	<0.858	<0.878	<0.861
2,4-Dimethylphenol	mg/kg	<0.992	<1.53	<1.38	<1.18	<1.15	<0.571	<0.813	<1.02	<0.961	<1.58	<1.14	<1.14	<1.13	<1.26	<1.34	<0.861	<0.963	<1.51	<1.02	<3.00	<0.914	<0.858	<0.878	<0.861
2,4-Dinitrophenol	mg/kg	<4.97	<7.66	<6.92	<5.93	<5.79	<2.86	<4.08	<5.14	<4.82	<7.91	<5.70	<5.70	<5.69	<6.32	<6.71	<4.32	<4.83	<7.57	<5.12	<15.0	<4.59	<4.30	<4.41	<4.32
2,4-Dinitrotoluene	mg/kg	<0.992	<1.53	<1.38	<1.18	<1.15	<0.571	<0.813	<1.02	<0.961	<1.58	<1.14	<1.14	<1.13	<1.26	<1.34	<0.861	<0.963	<1.51	<1.02	<0.752	<0.914	<0.858	<0.878	<0.861
2,6-Dinitrotoluene	mg/kg	<0.992	<1.53	<1.38	<1.18	<1.15	<0.571	<0.813	<1.02	<0.961	<1.58	<1.14	<1.14	<1.13	<1.26	<1.34	<0.861	<0.963	<1.51	<1.02	<3.00	<0.914	<0.858	<0.878	<0.861
2-Chloronaphthalene	mg/kg	<0.992	<1.53	<1.38	<1.18	<1.15	<0.571	<0.813	<1.02	<0.961	<1.58	<1.14	<1.14	<1.13	<1.26	<1.34	<0.861	<0.963	<1.51	<1.02	<3.00	<0.914	<0.858	<0.878	<0.861
2-Chlorophenol	mg/kg	<0.992	<1.53	<1.38	<1.18	<1.15	<0.571	<0.813	<1.02	<0.961	<1.58	<1.14	<1.14	<1.13	<1.26	<1.34	<0.861	<0.963	<1.51	<1.02	<3.00	<0.914	<0.858	<0.878	<0.861
2-Methylnaphthalene	mg/kg	<0.992	<1.53	<1.38	<1.18	<1.15	<0.571	<0.813	<1.02	<0.961	<1.58	<1.14	<1.14	<1.13	<1.26	<1.34	<0.861	<0.963	<1.51	<1.02	<3.00	<0.914	<0.858	<0.878	<0.861
2-Methylphenol	mg/kg	<0.992	<1.53	<1.38	<1.18	<1.15	<0.571	<0.813	<1.02	<0.961	<1.58	<1.14	<1.14	<1.13	<1.26	<1.34	<0.861	<0.963	<1.51	<1.02	<3.00	<0.914	<0.858	<0.878	<0.861
2-Nitrophenol	mg/kg	<0.992	<1.53	<1.38	<1.18	<1.15	<0.571	<0.813	<1.02	<0.961	<1.58	<1.14	<1.14	<1.13	<1.26	<1.34	<0.861	<0.963	<1.51	<1.02	<3.00	<0.914	<0.858	<0.878	<0.861
3,3'-Dichlorobenzidine	mg/kg	<1.99	<3.06	<2.77	<2.37	<2.31	<1.14	<1.63	<2.05	<1.93	<3.16	<2.28	<2.28	<2.27	<2.52	<2.68	<1.72	<1.93	<3.02	<2.04	<6.01	<1.83	<1.72	<1.76	<1.72
3+4-Methylphenol	mg/kg	<1.99	<3.06	<2.77	<2.37	<2.31	<1.14	<1.63	<2.05	<1.93	<3.16	<2.28	<2.28	<2.27	<2.52	<2.68	<1.72	<1.93	<3.02	<2.04	<6.01	<1.83	<1.72	<1.76	<1.72
4-Bromophenyl-phenylether	mg/kg	<0.992	<1.53	<1.38	<1.18	<1.15	<0.571	<0.813	<1.02	<0.961	<1.58	<1.14	<1.14	<1.13	<1.26	<1.34	<0.861	<0.963	<1.51	<1.02	<3.00	<0.914	<0.858	<0.878	<0.861
4-Chloroaniline	mg/kg	<1.99	<3.06	<2.77	<2.37	<2.31	<1.14	<1.63	<2.05	<1.93	<3.16	<2.28	<2.28	<2.27	<2.52	<2.68	<1.72	<1.93	<3.02	<2.04	<1.50	<1.83	<1.72	<1.76	<1.72
4-Nitrophenol	mg/kg	<4.97	<7.66	<6.92	<5.93	<5.79	<2.86	<4.08	<5.14	<4.82	<7.91	<5.70	<5.70	<5.69	<6.32	<6.71	<4.32	<4.83	<7.57	<5.12	<15.0	<4.59	<4.30	<4.41	<4.32
Acenaphthene	mg/kg	<0.992	<1.53	<1.38	<1.18	<1.15	<0.571	<0.813	<1.02	<0.961	<1.58	<1.14	<1.14	<1.13	<1.26	<1.34	<0.861	2.17	<1.51	<1.02	<3.00	<0.914	<0.858	<0.878	<0.861
Acenaphthylene	mg/kg	<0.992	<1.53	<1.38	<1.18	<1.15	<0.571	<0.813	<1.02	<0.961	<1.58	<1.14	<1.14	<1.13	<1.26	<1.34	<0.861	<0.963	<1.51	<1.02	<3.00	<0.914	<0.858	<0.878	<0.861
Acetophenone	mg/kg	<1.99	<3.06	<2.77	<2.37	<2.31	<1.14	<1.63	<2.05	<1.93	<3.16	<2.28	<2.28	<2.27	<2.52	<2.68	<1.72	<1.93	<3.02	<2.04	<6.01	<1.83	<1.72	<1.76	<1.72
Aniline	mg/kg	<4.97	<7.66	<6.92	<5.93	<5.79	<2.86	<4.08	<5.14	<4.82	<7.91	<5.70	<5.70	<5.69	<6.32	<6.71	<4.32	<4.83	<7.57	<5.12	<15.0	<4.59	<4.30	<4.41	<4.32
Anthracene	mg/kg	<0.992	<1.53	<1.38	<1.18	<1.15	<0.571	<0.813	<1.02	<0.961	<1.58	<1.14	<1.14	<1.13	<1.26	<1.34	<0.861	3.55	<1.51	<1.02	<3.00	<0.914	<0.858	<0.878	<0.861
Azobenzene	mg/kg	<0.992	<1.53	<1.38	<1.18	<1.15	<0.571	<0.813	<1.02	<0.961	<1.58	<1.14	<1.14	<1.13	<1.26	<1.34	<0.861	<0.963	<1.51	<1.02	<3.00	<0.914	<0.858	<0.878	<0.861
Benzo(a)anthracene	mg/kg	<0.992	<1.53	<1.38	<1.18	<1.15	<0.571	<0.813	<1.02	<0.961	<1.58	<1.14	<1.14	<1.13	<1.26	<1.34	0.978	7.18	<1.51	<1.02	<3.00	<0.914	<0.858	<0.878	<0.861
Benzo(a)pyrene	mg/kg	0.907	<0.766	<0.692	<0.593	<0.579	<0.286	0.478	<0.514	<0.482	<0.791	<0.570	<0.570	<0.569	<0.632	<0.671	0.833	5.73	<0.757	<0.512	<1.50	<0.459	<0.430	<0.441	<0.432
Benzo(b)fluoranthene	mg/kg	1.23	<1.53	<1.38	<1.18	<1.15	<0.571	<0.813	<1.02	<0.961	<1.58	<1.14	<1.14	<1.13	<1.26	<1.34	1.3	8.1	<1.51	<1.02	<3.00	<0.914	<0.858	<0.878	<0.861
Benzo(g,h,i)perylene	mg/kg	<0.992	<1.53	<1.38	<1.18	<1.15	<0.571	<0.813	<1.02	<0.961	<1.58	<1.14	<1.14	<1.13	<1.26	<1.34	<0.861	1.59	<1.51	<1.02	<3.00	<0.914	<0.858	<0.878	<0.861
Benzo(k)fluoranthene	mg/kg	<0.992	<1.53	<1.38	<1.18	<1.15	<0.571	<0.813	<1.02	<0.961	<1.58	<1.14	<1.14	<1.13	<1.26	<1.34	<0.861	3.04	<1.51	<1.02	<3.00	<0.914	<0.858	<0.878	<0.861
bis(2-Chloroethoxy)methane	mg/kg	<0.992	<1.53	<1.38	<1.18	<1.15	<0.571	<0.813	<1.02	<0.961	<1.58	<1.14	<1.14	<1.13	<1.26	<1.34	<0.861	<0.963	<1.51	<1.02	<3.00	<0.914	<0.858	<0.878	<0.861
bis(2-Chloroethyl)ether	mg/kg	<0.497	<0.383	<0.692	<0.593	<0.579	<0.286	<0.408	<0.514	<0.482	<0.791	<0.570	<0.570	<0.569	<0.632	<0.671	<0.432	<0.483	<0.149	<0.512	<0.297	<0.459	<0.430	<0.441	<0.432
bis(2-chloroisopropyl)Ether	mg/kg	<0.497	<0.383	<0.692	<0.593	<0.579	<0.286	<0.408	<0.514	<0.482	<0.791	<0.570	<0.570	<0.569	<0.632	<0.671	<0.432	<0.483	<0.149	<0.512	<0.297	<0.459	<0.430	<0.441	<0.432
bis(2-Ethylhexyl)phthalate	mg/kg	<0.992	<1.53	<1.38	<1.18	<1.15	<0.571	<0.813	<1.02	<0.961	<1.58	<1.14	<1.14	<1.13	<1.26	<1.34	<0.861	2.23	<1.51	<1.02	<3.00	<0.914	<0.858	<0.878	<0.861
Butylbenzylphthalate	mg/kg	<0.992	<1.53	<1.38	<1.18	<1.15	<0.571	<0.813	<1.02	<0.961	<1.58	<1.14	<1.14	<1.13	<1.26	<1.34	<0.861	<0.963	<1.51	<1.02	<3.00	<0.914	<0.858	<0.878	<0.861
Chrysene	mg/kg	1.01	<0.766	<0.692	<0.593	<0.579	<0.286	0.561	<0.514	<0.482	<0.791	<0.570	<0.570	<0.569	<0.632	<0.671	0.914	6.36	<0.757	<0.512	<1.50	<0.459	<0.430	<0.441	<0.432
Dibenzo(a,h)Anthracene	mg/kg	<0.497	<0.766	<0.692	<0.593	<0.579	<0.286	<0.408	<0.514	<0.482	<0.791	<0.570	<0.570	<0.569	<0.632	<0.671	<0.432	0.916	<0.757	<0.512	<1.50	<0.459	<0.430	<0.441	<0.432
Dibenzofuran	mg/kg	<0.992	<1.53	<1.38	<1.18	<1.15	<0.571	<0.813	<1.02	<0.961	<1.58	<1.14	<1.14	<1.13	<1.26	<1.34	<0.861	<0.963	<1.51	<1.02	<3.00	<0.914	<0.858	<0.878	<0.861
Diethylphthalate	mg/kg	<0.992	<1.53	<1.38	<1.18	<1.15	<0.571	<0.813	<1.02	<0.961	<1.58	<1.14	<1.14	<1.13	<1.26	<1.34	<0.861	<0.963	<1.51	<1.02	<3.00	<0.914	<0.858	<0.878	<0.861
Dimethylphthalate	mg/kg	<0.992	<1.53	<1.38	<1.18	<1.15	<0.571	<0.813	<1.02	<0.961	<1.58	<1.14	<1.14	<1.13	<1.26	<1.34	<0.861	<0.963	<1.51	<1.02	<3.00	<0.914	<0.858	<0.878	<0.861
Di-n-butylphthalate	mg/kg	<0.992	<1.53	<1.38	<1.18	<1.15	<0.571	<0.813	<1.02	<0.961	<1.58	<1.14	<1.14	<1.13	<1.26	<1.34	<0.861	<0.963	<1.51	<1.02	<3.00	<0.914	<0.858	<0.878	<0.861
Di-n-octylphthalate	mg/kg	<0.992	<1.53	<1.38	<1.18	<1.15	<0.571	<0.813	<1.02	<0.961	<1.58	<1.14	<1.14	<1.13	<1.26	<1.34	<0.861	<0.963	<1.51	<1.02	<3.00	<0.914	<0.858	<0.878	<0.861
Fluoranthene	mg/kg	2.27	<1.53	<1.38	<1.18	<1.15	<0.571	1.22	<1.02	<0.961	<1.58	<1.14	<1.14	<1.13	<1.26	<1.34	2.38	18.1	<1.51	<1.02	<3.00	<0.914	<0.858	<0.878	<0.861
Fluorene	mg/kg	<0.992	<1.53	<1.38	<1.18	<1.15	<0.571	<0.813	<1.02	<0.961	<1.58	<1.14	<1.14	<1.13	<1.26	<1.34	<0.861	1.81	<1.51	<1.02	<3.00	<0.914	<0.858	<0.878	<0.861
Hexachlorobenzene	mg/kg	<0.497	<0.766	<0.692	<0.593	<0.579	<0.286	<0.408	<0.514	<0.482	<0.791	<0.570	<0.570	<0.569	<0.632	<0.671	<0.432	<0.483	<0.757	<0.512	<1.50	<0.459	<0.430	<0.441	<0.432
Hexachlorobutadiene	mg/kg	<0.992	<1.53	<1.38	<1.18	<1.15	<0.571	<0.813	<1.02	<0.961	<1.58	<1.14	<1.14	<1.13	<1.26	<1.34	<0.861	<0.963	<1.51	<1.02	<3.00	<0.914	<0.858	<0.878	<0.861
Hexachloroethane	mg/kg	<0.992	<1.53	<1.38	<1.18	<1.15	<0.571	<0.813	<1.02	<0.961	<1.58	<1.14	<1.14	<1.13	<1.26	<1.34	<0.861	<0.963	<1.51	<1.02	<3.00	<0.914	<0.858	<0.878	<0.861
Indeno(1,2,3-cd)Pyrene	mg/kg	<0.992	<1.53	<1.38	<1.18	<1.15	<0.571	<0.813	<1.02	<0.961	<1.58	<1.14	<1.14	<1.13	<1.26	<1.34	<0.861	1.57	<1.51	<1.02	<3.00	<0.914	<0.858	<0.878	<0.861
Isophorone	mg/kg	<0.992	<1.53	<1.38	<1.18	<1.15	<0.571	<0.813	<1.02	<0.961	<1.58	<1.14	<1.14	<1.13	<1.26	<1.34	<0.861	<0.963	<1.51	<1.02	<3.00	<0.914	<0.858	<0.878	<0.861
Naphthalene	mg/kg	<0.992	<1.53	<1.38	<1.18	<1.15	<0.571	<0.813	<1.02	<0.961	<1.58	<1.14	<1.14	<1.13	<1.26	<1.34	<0.861	<0.963	<1.51	<1.02	<3.00	<0.914	<0.858	<0.878	<0.861
Nitrobenzene	mg/kg	<0.992	<1.53	<1.38	<1.18	<1.15	<0.571	<0.813	<1.02	<0.961	<1.58	<1.14	<1.14	<1.13	<1.26	<1.34	<0.861	<0.963	<1.51	<1.02	<3.00	<0.914	<0.858	<0.878	<0.861
N-Nitrosodimethylamine	mg/kg	<0.992	<1.53	<1.38	<1.18	<1.15	<0.571	<0.813	<1.02	<0.961	<1.58	<1.14	<1.14	<1.13	<1.26	<1.34	<0.861	<0.963	<1.51	<1.02	<3.00	<0.914	<0.858	<0.878	<0.861
Pentachlorophenol	mg/kg	<4.97	<7.66	<6.92	<5.93	<5.79	<2.86	<4.08	<5.14	<4.82	<7.91	<5.70	<5.70	<5.69	<6.32	<6.71	<4.32	<4.83	<7.57	<5.12	<3.00	<4.59	<4.30	<4.41	<4.32
Phenanthrene	mg/kg	2.03	<1.53	<1.38	<1.18	<1.15	<0.571	<0.813	<1.02	<0.961	<1.58	<1.14	<1.14	<1.13	<1.26	<1.34	1.4	8.77	<1.51	<1.02	<3.00	<0.914	<0.858	<0.878	<0.861
Phenol	mg/kg	<0.992	<1.53	<1.38	<1.18	<1.15	<0.571	<0.813	<1.02	<0.961	<1.58	<1.14	<1.14	<1.13	<1.26	<1.34	<0.861	<0.963	<1.51	<1.02	<3.00	<0.914	<0.858	<0.878	<0.861
Pyrene	mg/kg	1.53	<1.53	<1.38	<1.18	<1.15	<0.571	<0.813	<1.02	<0.961	<1.58	<1.14	<1.14	<1.13	<1.26	<1.34	1.3	11.4	<1.51	<1.02	<3.00	<0.914	<0.858	<0.878	<0.861
Total SVOCs	mg/kg	8.977	ND	ND	ND	ND	ND	2.259	ND	ND	ND	ND	ND	ND	ND	ND	9.105	82.516	ND	ND	ND	ND	ND	ND	ND
Classic Chemistry																									
Corrosivity (pH)	S.U.	5.54	7.31	7.56	7.48	7.56	7.87	8.71	6.66	6.3	7.73	8.17	8.1	7.66	7.65	7.89	8.75	7.8	8.28	7.87	7.84	8.47	8.02	7.43	7.57
Conductivity	umhos/cm	1480	9040	14600	14800	12400	10500	259	1810	346	682	6110	7950	14800	12200	11900	190	1550	894	1480	1640	1060	497	1530	1570
Flashpoint	°F	>200	>200	>200	>200	>200	>200	>200	>200	--	--	--	--	--	--	--	>200	>200	>200	>200	--	--	--	--	--
Reactive Cyanide	mg/kg	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--	--	--	--	--	--	--	<2.0	<2.0	<2.0	<2.0	--	--	--	--	--
Reactive Sulfide	mg/kg	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--	--	--	--	--	--	--	<2.0	<2.0	<2.0	<2.0	--	--	--	--	--

Table 1
Soil Precharacterization Data

Wynn Resort Casino
Everett, Massachusetts

Analyte	Precharacterization Cell	M09	M10	M10	M10	M10	M10	M10	M10	M10	M10	M11	M11	M11	M11	M11	M11	M11	M11	M11	M12	M12	M12	M12	M12
	Sample ID	M09S13	M10S01S02A	M10S02BS04A	M10S04BS05	M10S06S07A	M10S08	M10S09	M10S10	M10S11	M10S12S13	M11S01S02A	M11S02BS04A	M11S04B	M11S05S06	M11S07	M11S08	M11S09	M11S10	M11S11S12	M12	GZ019S01S02A	GZ019S02BS04A	GZ019S04BS05	GZ019S06S07A	GZ019S07BS08
	Laboratory Work Order	1501471	1502101	1502101	1502101	1502101	1502101	1502101	1502101	1502101	1502101	1501395	1501395	1501395	1501395	1501395	1501395	1501395	1501395	1501395	1502187	1502187	1502187	1502187	1502187
	Soil Distinction	Natural	Fill	Fill	Fill	Fill	Natural	Natural	Natural	Natural	Natural	Fill	Fill	Fill	Fill	Fill	Natural	Natural	Natural	Natural	Fill	Fill	Fill	Fill	Natural
	Soil Type	Clay					Organics	Organics	Clay	Clay	Sand/Gravel						Clay	Clay	Clay	Clay					Organics
	Depth Interval (ft.)	36 - 38	0 - 3.3	3.3 - 6.6	6.6 - 10	10 - 13.3	14 - 16	19 - 21	24 - 26	29 - 31	34 - 38	0 - 3.3	3.3 - 6.6	6.6 - 8	8 - 12	14 - 16	19 -21	24 - 26	29 - 31	34 - 38	0.5 - 3.3	3.3 - 6.6	6.6 - 10	10 - 13.3	13.3 - 16
	Sampling Date	1/22/2015	2/6/2015	2/6/2015	2/6/2015	2/6/2015	2/6/2015	2/6/2015	2/6/2015	2/6/2015	2/6/2015	1/20/2015	1/20/2015	1/20/2015	1/20/2015	1/20/2015	1/20/2015	1/20/2015	1/20/2015	1/20/2015	2/12/2015	2/12/2015	2/12/2015	2/12/2015	2/12/2015
Preliminary Disposal Facility Category		MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type B-1	Hazardous Material Type A	MCP Regulated Type B-1	Uncontaminated	Uncontaminated	TSCA Material	TSCA Material	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A
RCRA 8 Metals	**Units**																								
Arsenic	mg/kg	<7.73	7.18	<6.76	9.35	<6.30	27.2	<10.8	13.1	<7.62	<6.77	9.75	8.97	29.4	315	160	11.5	18.8	9.91	10.4	<7.03	10.3	23.3	348	259
Barium	mg/kg	52	28.5	36.7	40.7	40.8	<24.3	<10.8	94.5	37.2	12.1	30.8	44.5	43	273	207	40.5	85.6	84.2	50.9	24.6	33.2	62.7	214	93.9
Cadmium	mg/kg	<1.55	<1.42	<1.35	<1.37	<1.26	<4.85	<2.16	<1.61	<1.52	<1.35	<1.38	<1.47	<1.39	3.28	<2.73	<1.98	<1.66	<1.56	<1.61	<1.41	<1.43	<1.76	5.65	4.6
Chromium	mg/kg	25.9	29.1	8.1	8.58	16	25.9	11.1	52.7	24.9	16.4	22.6	16	11.8	44.1	30.9	34.4	52.9	51.8	33.4	23.8	11.3	11.5	44.9	34.7
Lead	mg/kg	<15.5	<14.2	41.5	26.9	51	60.2	<21.6	<16.1	<15.2	<13.5	25.8	195	101	2850	2070	22.3	21	24.4	16.5	<14.1	91.9	450	2110	1230
Selenium	mg/kg	<7.73	<7.08	<6.76	<6.84	<6.30	<12.1	<10.8	<8.04	<7.62	<6.77	<6.89	<14.7	<6.97	<11.2	<13.7	<9.89	<8.28	<7.81	<8.05	<7.03	<7.16	<14.1	<18.7	<19.4
Silver	mg/kg	<1.55	<1.42	<1.35	<1.37	<1.26	<4.85	<2.16	<1.61	<1.52	<1.35	<1.38	<1.47	<1.39	4.45	3.61	<1.98	<1.66	<1.56	<1.61	<1.41	<1.43	<1.76	2.47	<2.43
Mercury	mg/kg	<0.036	<0.028	0.082	0.086	0.123	<0.106	<0.058	<0.033	<0.039	<0.033	0.977	1.51	0.153	0.872	0.519	<0.048	<0.040	<0.034	<0.039	<0.033	0.231	0.722	0.785	5.46
Metals by Toxicity Characteristic Leaching Procedure (TCLP)																									
Arsenic	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	0.192	0.112	--	--	--	--	--	--	--	0.312	0.718
Cadmium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead	mg/L	--	--	--	--	--	--	--	--	--	--	--	0.938	0.798	<0.050	1.02	--	--	--	--	--	--	0.146	<0.050	4.78
Selenium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.00050
Herbicides																									
2,4,5-T	mg/kg	--	<0.056	<0.053	<0.051	<0.055	--	--	--	--	--	<0.046	<0.24	<0.21	<0.073	--	--	--	--	--	<0.055	<0.27	<0.33	<0.093	--
2,4-D	mg/kg	--	<0.056	<0.053	<0.051	<0.055	--	--	--	--	--	<0.23	<1.2	<1.1	<0.36	--	--	--	--	--	<0.055	<0.27	<0.33	<0.093	--
2,4-DB	mg/kg	--	<0.056	<0.053	<0.051	<0.055	--	--	--	--	--	<0.017	<0.091	<0.080	<0.027	--	--	--	--	--	<0.055	<0.27	<0.33	<0.093	--
Dalapon	mg/kg	--	<0.67	<0.64	<0.62	<0.66	--	--	--	--	--	<1.4	<7.3	<6.4	<2.2	--	--	--	--	--	<0.66	<3.3	<3.9	<1.1	--
Dicamba	mg/kg	--	<0.056	<0.053	<0.051	<0.055	--	--	--	--	--	<0.069	<0.36	<0.32	<0.11	--	--	--	--	--	<0.055	<0.27	<0.33	<0.093	--
Dichlorprop	mg/kg	--	<0.056	<0.053	<0.051	<0.055	--	--	--	--	--	<0.15	<0.79	<0.69	<0.24	--	--	--	--	--	<0.055	<0.27	<0.33	<0.093	--
Dinoseb	mg/kg	--	<0.34	<0.32	<0.31	<0.33	--	--	--	--	--	<0.23	<1.2	<1.1	<0.36	--	--	--	--	--	<0.33	<1.7	<2.0	<0.56	--
MCPA	mg/kg	--	<13	<13	<12	<13	--	--	--	--	--	<58	<300	<270	<91	--	--	--	--	--	<13	<66	<79	<22	--
MCPP	mg/kg	--	<13	<13	<12	<13	--	--	--	--	--	<58	<300	<270	<91	--	--	--	--	--	<13	<66	<79	<22	--
Silvex (2,4,5-TP)	mg/kg	--	<0.056	<0.053	<0.051	<0.055	--	--	--	--	--	<0.046	<0.24	<0.21	<0.073	--	--	--	--	--	<0.055	<0.27	<0.33	<0.093	--
Pesticides																									
4,4'-DDD	mg/kg	--	<0.0038	<0.0091	<0.0036	<0.0019	--	--	--	--	--	<0.20	<0.038	<0.018	<0.0031	--	--	--	--	--	<0.0092	<0.0093	<0.011	<0.0033	--
4,4'-DDE	mg/kg	--	<0.0038	<0.0091	<0.0036	<0.0019	--	--	--	--	--	<0.20	0.15	<0.018	<0.0031	--	--	--	--	--	<0.0092	<0.0093	<0.011	<0.0033	--
4,4'-DDT	mg/kg	--	<0.0038	<0.0091	<0.0036	<0.0019	--	--	--	--	--	7.6	0.52	0.34	<0.0031	--	--	--	--	--	<0.0092	<0.0093	<0.011	<0.0033	--
Aldrin	mg/kg	--	<0.0038	<0.0091	<0.0036	<0.0019	--	--	--	--	--	<0.20	<0.038	<0.018	<0.0031	--	--	--	--	--	<0.0092	<0.0093	<0.011	<0.0033	--
alpha-BHC	mg/kg	--	<0.0038	<0.0091	<0.0036	<0.0019	--	--	--	--	--	<0.20	<0.038	<0.018	<0.0031	--	--	--	--	--	<0.0092	<0.0093	<0.011	<0.0033	--
beta-BHC	mg/kg	--	<0.0038	<0.0091	<0.0036	<0.0019	--	--	--	--	--	<0.20	<0.038	<0.018	<0.0031	--	--	--	--	--	<0.0092	<0.0093	<0.011	<0.0033	--
Chlordane (technical)	mg/kg	--	<0.038	<0.091	<0.036	<0.019	--	--	--	--	--	<5.7	<1.1	<0.53	<0.091	--	--	--	--	--	<0.092	<0.093	<0.11	<0.033	--
delta-BHC	mg/kg	--	<0.0038	<0.0091	<0.0036	<0.0019	--	--	--	--	--	<0.20	<0.038	<0.018	<0.0031	--	--	--	--	--	<0.0092	<0.0093	<0.011	<0.0033	--
Dieldrin	mg/kg	--	<0.0038	<0.0091	<0.0036	<0.0019	--	--	--	--	--	5.4	0.49	0.37	<0.0031	--	--	--	--	--	<0.0092	<0.0093	<0.011	<0.0033	--
Endosulfan I	mg/kg	--	<0.0038	<0.0091	<0.0036	<0.0019	--	--	--	--	--	<0.20	<0.038	<0.018	<0.0031	--	--	--	--	--	<0.0092	<0.0093	<0.011	<0.0033	--
Endosulfan II	mg/kg	--	<0.0038	<0.0091	<0.0036	<0.0019	--	--	--	--	--	<0.20	<0.038	<0.018	<0.0031	--	--	--	--	--	<0.0092	<0.0093	<0.011	<0.0033	--
Endosulfan sulfate	mg/kg	--	<0.0038	<0.0091	<0.0036	<0.0019	--	--	--	--	--	<0.20	<0.038	<0.018	<0.0031	--	--	--	--	--	<0.0092	<0.0093	<0.011	<0.0033	--
Endrin	mg/kg	--	<0.0038	<0.0091	<0.0036	<0.0019	--	--	--	--	--	<0.20	<0.19	<0.018	<0.0031	--	--	--	--	--	<0.0092	<0.0093	<0.011	<0.0033	--
Endrin ketone	mg/kg	--	<0.0038	<0.0091	<0.0036	<0.0019	--	--	--	--	--	<0.20	<0.038	<0.018	<0.0031	--	--	--	--	--	<0.0092	<0.0093	<0.011	<0.0033	--
gamma-BHC (Lindane)	mg/kg	--	<0.0038	<0.0091	<0.0036	<0.0019	--	--	--	--	--	<0.20	<0.038	<0.018	<0.0031	--	--	--	--	--	<0.0092	<0.0093	<0.011	<0.0033	--
Heptachlor	mg/kg	--	<0.0038	<0.0091	<0.0036	<0.0019	--	--	--	--	--	<0.20	<0.038	<0.018	<0.0031	--	--	--	--	--	<0.0092	<0.0093	<0.011	<0.0033	--
Heptachlor epoxide	mg/kg	--	<0.0038	<0.0091	<0.0036	<0.0019	--	--	--	--	--	1.3	0.22	0.11	<0.0031	--	--	--	--	--	<0.0092	<0.0093	<0.011	<0.0033	--
Hexachlorobenzene	mg/kg	--	<0.0038	<0.0091	<0.0036	<0.0019	--	--	--	--	--	<0.20	<0.038	<0.018	<0.0031	--	--	--	--	--	<0.0092	<0.0093	<0.011	<0.0033	--
Methoxychlor	mg/kg	--	<0.0038	<0.0091	<0.0036	<0.0019	--	--	--	--	--	0.97	0.13	0.042	<0.0060	--	--	--	--	--	<0.0092	<0.0093	<0.011	<0.0033	--
Polychlorinated Biphenyls																									
Aroclor 1016	mg/kg	<0.133	<0.135	<0.129	<0.127	<0.134	<0.474	<0.213	<0.149	<0.145	<0.134	<6.86	<13.0	<0.131	<0.226	<0.250	<0.192	<0.151	<0.135	<0.162	<0.130	<0.142	<0.131	<0.189	<0.227
Aroclor 1221	mg/kg	<0.133	<0.135	<0.129	<0.127	<0.134	<0.474	<0.213	<0.149	<0.145	<0.134	<6.86	<13.0	<0.131	<0.226	<0.250	<0.192	<0.151	<0.135	<0.162	<0.130	<0.142	<0.131	<0.189	<0.227
Aroclor 1232	mg/kg	<0.133	<0.135	<0.129	<0.127	<0.134	<0.474	<0.213	<0.149	<0.145	<0.134	<6.86	<13.0	<0.131	<0.226	<0.250	<0.192	<0.151	<0.135	<0.162	<0.130	<0.142	<0.131	<0.189	<0.227
Aroclor 1242	mg/kg	<0.133	<0.135	<0.129	<0.127	<0.134	<0.474	<0.213	<0.149	<0.145	<0.134	<6.86	<13.0	<0.131	<0.226	<0.250	<0.192	<0.151	<0.135	<0.162	<0.130	<0.142	<0.131	<0.189	<0.227
Aroclor 1248	mg/kg	<0.133	<0.135	<0.129	<0.127	<0.134	<0.474	<0.213	<0.149	<0.145	<0.134	<6.86	<13.0	<0.131	<0.226	<0.250	<0.192	<0.151	<0.135	<0.162	<0.130	<0.142	<0.131	<0.189	<0.227
Aroclor 1254	mg/kg	<0.133	<0.135	<0.129	<0.127	<0.134	<0.474	<0.213	<0.149	<0.145	<0.134	<6.86	<13.0	<0.131	<0.226	<0.250	<0.192	<0.151	<0.135	<0.162	<0.130	<0.142	<0.131	<0.189	<0.227
Aroclor 1260	mg/kg	<0.133	<0.135	<0.129	<0.127	<0.134	<0.474	<0.213	<0.149	<0.145	<0.134	71.5	99.5	2.45	<0.226	<0.250	<0.192	<0.151	<0.135	<0.162	<0.130	0.161	<0.131	<0.189	<0.227
Aroclor 1262	mg/kg	<0.133	<0.135	<0.129	<0.127	<0.134	<0.474	<0.213	<0.149	<0.145	<0.134	<6.86	<13.0	<0.131	<0.226	<0.250	<0.192	<0.151	<0.135	<0.162	<0.130	<0.142	<0.131	<0.189	<0.227
Aroclor 1268	mg/kg	<0.133	<0.135	<0.129	<0.127	<0.134	<0.474	<0.213	<0.149	<0.145	<0.134	<6.86	<13.0	<0.131	<0.226	<0.250	<0.192	<0.151	<0.135	<0.162	<0.130	<0.142	<0.131	<0.189	<0.227
Total PCBs	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	71.5	99.5	2.45	ND	ND	ND	ND	ND	ND	ND	0.161	ND	ND	ND
Total Petroleum Hydrocarbons	mg/kg	<43.8	71	127	169	219	1860	612	<43.0	<44.2	<42.6	279	758	199	467	384	<60.2	<47.5	<45.0	<49.0	238	778	596	541	606
Volatile Organic Compounds (VOCs)																									
1,1,1,2-Tetrachloroethane	mg/kg	--	--	--	--	<0.103	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	mg/kg	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	mg/kg	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	mg/kg	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	mg/kg	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloropropene	mg/kg	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	mg/kg	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	mg/kg	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	mg/kg	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	mg/kg	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-Chloropropane	mg/kg	--	--	--	--	<0.206	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	mg/kg	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	mg/kg	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	mg/kg	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	mg/kg	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	mg/kg	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	mg/kg	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichloropropane	mg/kg	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane - Screen	mg/kg	--	--	--	--	<5.15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,2-Dichloropropane	mg/kg	--	--	--	--	<0.103	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Butanone	mg/kg	--	--	--	--	<0.206	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chlorotoluene	mg/kg	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	mg/kg	--	--	--	--	<0.206	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Chlorotoluene	mg/kg	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Isopropyltoluene	mg/kg	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-Pentanone	mg/kg	--	--	--	--	<0.206	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	mg/kg	--	--	--	--	<0.206	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzene	mg/kg	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromobenzene	mg/kg	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	mg/kg	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	mg/kg	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	mg/kg	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	mg/kg	--	--	--	--	<0.103	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Disulfide	mg/kg	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	mg/kg	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	M09 M09S13 1501471 Natural Clay 36 - 38 1/22/2015	M10 M10S01S02A 1502101 Fill 0 - 3.3 2/6/2015	M10 M10S02BS04A 1502101 Fill 3.3 - 6.6 2/6/2015	M10 M10S04BS05 1502101 Fill 6.6 - 10 2/6/2015	M10 M10S06S07A 1502101 Fill 10 - 13.3 2/6/2015	M10 M10S08 1502101 Natural Organics 14 - 16 2/6/2015	M10 M10S09 1502101 Natural Organics 19 - 21 2/6/2015	M10 M10S10 1502101 Natural Clay 24 - 26 2/6/2015	M10 M10S11 1502101 Natural Clay 29 - 31 2/6/2015	M10 M10S12S13 1502101 Natural Sand/Gravel 34 - 38 2/6/2015	M11 M11S01S02A 1501395 Fill 0 - 3.3 1/20/2015	M11 M11S02BS04A 1501395 Fill 3.3 - 6.6 1/20/2015	M11 M11S04B 1501395 Fill 6.6 - 8 1/20/2015	M11 M11S05S06 1501395 Fill 8 - 12 1/20/2015	M11 M11S07 1501395 Fill 14 - 16 1/20/2015	M11 M11S08 1501395 Natural Clay 19 - 21 1/20/2015	M11 M11S09 1501395 Natural Clay 24 - 26 1/20/2015	M11 M11S10 1501395 Natural Clay 29 - 31 1/20/2015	M11 M11S11S12 1501395 Natural Clay 34 - 38 1/20/2015	M12 GZ019S01S02A 1502187 Fill 0.5 - 3.3 2/12/2015	M12 GZ019S02BS04A 1502187 Fill 3.3 - 6.6 2/12/2015	M12 GZ019S04BS05 1502187 Fill 6.6 - 10 2/12/2015	M12 GZ019S06S07A 1502187 Fill 10 - 13.3 2/12/2015	M12 GZ019S07BS08 1502187 Natural Organics 13.3 - 16 2/12/2015
Preliminary Disposal Facility Category		MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type B-1	Hazardous Material Type A	MCP Regulated Type B-1	Uncontaminated	Uncontaminated	TSCA Material	TSCA Material	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A
Chlorobenzene	mg/kg	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	mg/kg	--	--	--	--	<0.103	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	mg/kg	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	mg/kg	--	--	--	--	<0.103	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	mg/kg	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	mg/kg	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	mg/kg	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromomethane	mg/kg	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	mg/kg	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Diethyl Ether	mg/kg	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Di-isopropyl ether	mg/kg	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethyl tertiary-butyl ether	mg/kg	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	mg/kg	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	mg/kg	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene	mg/kg	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	mg/kg	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride	mg/kg	--	--	--	--	<0.206	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	mg/kg	--	--	--	--	1.48	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	mg/kg	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	mg/kg	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	mg/kg	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	mg/kg	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
tert-Butylbenzene	mg/kg	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tertiary-amyl methyl ether	mg/kg	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	mg/kg	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	mg/kg	--	--	--	--	<0.206	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	mg/kg	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	mg/kg	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	mg/kg	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene	mg/kg	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane	mg/kg	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	mg/kg	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene O	mg/kg	--	--	--	--	<0.0515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene P,M	mg/kg	--	--	--	--	<0.103	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylenes (Total)	mg/kg	--	--	--	--	<0.103	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total VOCs	mg/kg	--	--	--	--	1.48	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds - Low Level Analysis																									
1,1,1,2-Tetrachloroethane	mg/kg	<0.0031	<0.0072	<0.0040	<0.0042	<0.0045	<0.0279	<0.0056	<0.0054	<0.0042	<0.0053	<0.0041	<0.0045	<0.0123	<0.0083	<0.0060	<0.0058	<0.0047	<0.0039	<0.0037	<0.0039	<0.0034	<0.0054	<0.0074	<0.0082
1,1,1-Trichloroethane	mg/kg	<0.0031	<0.0072	<0.0040	<0.0042	<0.0045	<0.0279	<0.0056	<0.0054	<0.0042	<0.0053	<0.0041	<0.0045	<0.0123	<0.0083	<0.0060	<0.0058	<0.0047	<0.0039	<0.0037	<0.0039	<0.0034	<0.0054	<0.0074	<0.0082
1,1,2,2-Tetrachloroethane	mg/kg	<0.0012	<0.0029	<0.0016	<0.0017	<0.0018	<0.0112	<0.0022	<0.0022	<0.0017	<0.0021	<0.0017	<0.0018	<0.0049	<0.0033	<0.0024	<0.0023	<0.0019	<0.0016	<0.0015	<0.0016	<0.0013	<0.0022	<0.0030	<0.0033
1,1,2-Trichloroethane	mg/kg	<0.0031	<0.0072	<0.0040	<0.0042	<0.0045	<0.0279	<0.0056	<0.0054	<0.0042	<0.0053	<0.0041	<0.0045	<0.0123	<0.0083	<0.0060	<0.0058	<0.0047	<0.0039	<0.0037	<0.0039	<0.0034	<0.0054	<0.0074	<0.0082
1,1-Dichloroethane	mg/kg	<0.0031	<0.0072	<0.0040	<0.0042	<0.0045	<0.0279	<0.0056	<0.0054	<0.0042	<0.0053	<0.0041	<0.0045	<0.0123	<0.0083	<0.0060	<0.0058	<0.0047	<0.0039	<0.0037	<0.0039	<0.0034	<0.0054	<0.0074	<0.0082
1,1-Dichloroethene	mg/kg	<0.0031	<0.0072	<0.0040	<0.0042	<0.0045	<0.0279	<0.0056	<0.0054	<0.0042	<0.0053	<0.0041	<0.0045	<0.0123	<0.0083	<0.0060	<0.0058	<0.0047	<0.0039	<0.0037	<0.0039	<0.0034	<0.0054	<0.0074	<0.0082
1,1-Dichloropropene	mg/kg	<0.0031	<0.0072	<0.0040	<0.0042	<0.0045	<0.0279	<0.0056	<0.0054	<0.0042	<0.0053	<0.0041	<0.0045	<0.0123	<0.0083	<0.0060	<0.0058	<0.0047	<0.0039	<0.0037	<0.0039	<0.0034	<0.0054	<0.0074	<0.0082
1,2,3-Trichlorobenzene	mg/kg	<0.0031	<0.0072	<0.0040	<0.0042	<0.0045	<0.0279	<0.0056	<0.0054	<0.0042	<0.0053	<0.0041	<0.0045	<0.0123	<0.0083	<0.0060	<0.0058	<0.0047	<0.0039	<0.0037	<0.0039	<0.0034	<0.0054	<0.0074	<0.0082
1,2,3-Trichloropropane	mg/kg	<0.0031	<0.0072	<0.0040	<0.0042	<0.0045	<0.0279	<0.0056	<0.0054	<0.0042	<0.0053	<0.0041	<0.0045	<0.0123	<0.0083	<0.0060	<0.0058	<0.0047	<0.0039	<0.0037	<0.0039	<0.0034	<0.0054	<0.0074	<0.0082
1,2,4-Trichlorobenzene	mg/kg	<0.0031	<0.0072	<0.0040	<0.0042	<0.0045	<0.0279	<0.0056	<0.0054	<0.0042	<0.0053	<0.0041	<0.0045	<0.0123	<0.0083	<0.0060	<0.0058	<0.0047	<0.0039	<0.0037	<0.0039	<0.0034	<0.0054	<0.0074	<0.0082
1,2,4-Trimethylbenzene	mg/kg	<0.0031	<0.0072	<0.0040	<0.0042	<0.0045	<0.0279	<0.0056	<0.0054	<0.0042	<0.0053	<0.0041	<0.0045	<0.0123	<0.0083	<0.0060	<0.0058	<0.0047	<0.0039	<0.0037	<0.0039	<0.0034	<0.0054	<0.0074	<0.0082
1,2-Dibromo-3-Chloropropane	mg/kg	<0.0031	<0.0072	<0.0040	<0.0042	<0.0045	<0.0279	<0.0056	<0.0054	<0.0042	<0.0053	<0.0041	<0.0045	<0.0123	<0.0083	<0.0060	<0.0058	<0.0047	<0.0039	<0.0037	<0.0039	<0.0034	<0.0054	<0.0074	<0.0082
1,2-Dibromoethane	mg/kg	<0.0031	<0.0072	<0.0040	<0.0042	<0.0045	<0.0279	<0.0056	<0.0054	<0.0042	<0.0053	<0.0041	<0.0045	<0.0123	<0.0083	<0.0060	<0.0058	<0.0047	<0.0039	<0.0037	<0.0039	<0.0034	<0.0054	<0.0074	<0.0082
1,2-Dichlorobenzene	mg/kg	<0.0031	<0.0072	<0.0040	<0.0042	<0.0045	<0.0279	<0.0056	<0.0054	<0.0042	<0.0053	<0.0041	<0.0045	<0.0123	<0.0083	<0.0060	<0.0058	<0.0047	<0.0039	<0.0037	<0.0039	<0.0034	<0.0054	<0.0074	<0.0082
1,2-Dichloroethane	mg/kg	<0.0031	<0.0072	<0.0040	<0.0042	<0.0045	<0.0279	<0.0056	<0.0054	<0.0042	<0.0053	<0.0041	<0.0045	<0.0123	<0.0083	<0.0060	<0.0058	<0.0047	<0.0039	<0.0037	<0.0039	<0.0034	<0.0054	<0.0074	<0.0082
1,2-Dichloropropane	mg/kg	<0.0031	<0.0072	<0.0040	<0.0042	<0.0045	<0.0279	<0.0056	<0.0054	<0.0042	<0.0053	<0.0041	<0.0045	<0.0123	<0.0083	<0.0060	<0.0058	<0.0047	<0.0039	<0.0037	<0.0039	<0.0034	<0.0054	<0.0074	<0.0082
1,3,5-Trimethylbenzene	mg/kg	<0.0031	<0.0072	<0.0040	<0.0042	<0.0045	<0.0279	<0.0056	<0.0054	<0.0042	<0.0053	<0.0041	<0.0045	<0.0123	<0.0083	<0.0060	<0.0058	<0.0047	<0.0039	<0.0037	<0.0039	<0.0034	<0.0054	<0.0074	<0.0082
1,3-Dichlorobenzene	mg/kg	<0.0031	<0.0072	<0.0040	<0.0042	<0.0045	<0.0279	<0.0056	<0.0054	<0.0042	<0.0053	<0.0041	<0.0045	<0.0123	<0.0083	<0.0060	<0.0058	<0.0047	<0.0039	<0.0037	<0.0039	<0.0034	<0.0054	<0.0074	<0.0082
1,3-Dichloropropane	mg/kg	<0.0031	<0.0072	<0.0040	<0.0042	<0.0045	<0.0279	<0.0056	<0.0054	<0.0042	<0.0053	<0.0041	<0.0045	<0.0123	<0.0083	<0.0060	<0.0058	<0.0047	<0.0039	<0.0037	<0.0039	<0.0034	<0.0054	<0.0074	<0.0082
1,4-Dichlorobenzene	mg/kg	<0.0031	<0.0072	<0.0040	<0.0042	<0.0045	<0.0279	<0.0056	<0.0054	<0.0042	<0.0053	<0.0041	<0.0045	<0.0123	<0.0083	<0.0060	<0.0058	<0.0047	<0.0039	<0.0037	<0.0039	<0.0034	<0.0054	<0.0074	<0.0082
1,4-Dioxane	mg/kg	<0.0618	<0.145	<0.0805	<0.0847	<0.0894	<0.558	<0.111	<0.108	<0.0843	<0.105	<0.0826	<0.0892	<0.246	<0.167	<0.120	<0.116	<0.0941	<0.0781	<0.0750	<0.0787	<0.0674	<0.109	<0.149	<0.164
2,2-Dichloropropane	mg/kg	<0.0031	<0.0072	<0.0040	<0.0042	<0.0045	<0.0279	<0.0056	<0.0054	<0.0042	<0.0053	<0.0041	<0.0045	<0.0123	<0.0083	<0.0060	<0.0058	<0.0047	<0.0039	<0.0037	<0.0039	<0.0034	<0.0054	<0.0074	<0.0082
2-Butanone	mg/kg	<0.0062	<0.0145	<0.0080	<0.0085	<0.0089	<0.0558	0.0119	<0.0108	<0.0084	<0.0105	<0.0083	0.0108	<0.0246	<0.0167	<0.0120	<0.0116	<0.0094	<0.0078	<0.0075	<0.0079	<0.0067	<0.0109	<0.0149	0.0299
2-Chlorotoluene	mg/kg	<0.0031	<0.0072	<0.0040	<0.0042	<0.0045	<0.0279	<0.0056	<0.0054	<0.0042	<0.0053	<0.0041	<0.0045	<0.0123	<0.0083	<0.0060	<0.0058	<0.0047	<0.0039	<0.0037	<0.0039	<0.0034	<0.0054	<0.0074	<0.0082
2-Hexanone	mg/kg	<0.0062	<0.0145	<0.0080	<0.0085	<0.0089	<0.0558	<0.0111	<0.0108	<0.0084	<0.0105	<0.0083	<0.0089	<0.0246	<0.0167	<0.0120	<0.0116	<0.0094	<0.0078	<0.0075	<0.0079	<0.0067	<0.0109	<0.0149	<0.0164
4-Chlorotoluene	mg/kg	<0.0031	<0.0072	<0.0040	<0.0042	<0.0045	<0.0279	<0.0056	<0.0054	<0.0042	<0.0053	<0.0041	<0.0045	<0.0123	<0.0083	<0.0060	<0.0058	<0.0047	<0.0039	<0.0037	<0.0039	<0.0034	<0.0054	<0.0074	<0.0082
4-Isopropyltoluene	mg/kg	<0.0031	<0.0072	<0.0040	<0.0042	<0.0045	<0.0279	<0.0056	<0.0054	<0.0042	<0.0053	<0.0041	<0.0045	<0.0123	<0.0083	<0.0060	<0.0058	<0.0047	<0.0039	<0.0037	<0.0039	<0.0034	<0.0054	<0.0074	<0.0082
4-Methyl-2-Pentanone	mg/kg	<0.0062	<0.0145	<0.0080	<0.0085	<0.0089	<0.0558	<0.0111	<0.0108	<0.0084	<0.0105	<0.0083	<0.0089	<0.0246	<0.0167	<0.0120	<0.0116	<0.0094	<0.0078	<0.0075	<0.0079	<0.0067	<0.0109	<0.0149	<0.0164
Acetone	mg/kg	0.0087	0.0163	<0.0080	<0.0085	0.0319	0.268	0.12	0.0257	<0.0084	<0.0105	0.0115	0.0746	0.0327	<0.0167	0.0422	0.0273	0.0108	<0.0078	<0.0075	<0.0079	0.0218	0.0267	0.0188	0.264
Benzene	mg/kg	<0.0031	<0.0072	<0.0040	<0.0042	<0.0045	<0.0279	<0.0056	<0.0054	<0.0042	<0.0053	<0.0041	<0.0045	<0.0123	<0.0083	<0.0060	<0.0058	<0.0047	<0.0039	<0.0037	<0.0039	<0.0034	<0.0054	<0.0074	<0.0082
Bromobenzene	mg/kg	<0.0031	<0.0072	<0.0040	<0.0042	<0.0045	<0.0279	<0.0056	<0.0054	<0.0042	<0.0053	<0.0041	<0.0045	<0.0123	<0.0083	<0.0060	<0.0058	<0.0047	<0.0039	<0.0037	<0.0039	<0.0034	<0.0054	<0.0074	<0.0082
Bromochloromethane	mg/kg	<0.0031	<0.0072	<0.0040	<0.0042	<0.0045	<0.0279	<0.0056	<0.0054	<0.0042	<0.0053	<0.0041	<0.0045	<0.0123	<0.0083	<0.0060	<0.0058	<0.0047	<0.0039	<0.0037	<0.0039	<0.0034	<0.0054	<0.0074	<0.0082
Bromodichloromethane	mg/kg	<0.0031	<0.0072	<0.0040	<0.0042	<0.0045	<0.0279	<0.0056	<0.0054	<0.0042	<0.0053	<0.0041	<0.0045	<0.0123	<0.0083	<0.0060	<0.0058	<0.0047	<0.0039	<0.0037	<0.0039	<0.0034	<0.0054	<0.0074	<0.0082
Bromoform	mg/kg	<0.0031	<0.0072	<0.0040	<0.0042	<0.0045	<0.0279	<0.0056	<0.0054	<0.0042	<0.0053	<0.0041	<0.0045	<0.0123	<0.0083	<0.0060	<0.0058	<0.0047	<0.0039	<0.0037	<0.0039	<0.0034	<0.0054	<0.0074	<0.0082
Bromomethane	mg/kg	<0.0062	<0.0145	<0.0080	<0.0085	<0.0089	<0.0558	<0.0111	<0.0108	<0.0084	<0.0105	<0.0083	<0.0089	<0.0246	<0.0167	<0.0120	<0.0116	<0.0094	<0.0078	<0.0075	<0.0079	<0.0067	<0.0109	<0.0149	<0.0164
Carbon Disulfide	mg/kg	<0.0031	<0.0072	<0.0040	<0.0042	<0.0045	0.0395	0.0076	<0.0054	<0.0042	<0.0053	<0.0041	<0.0045	<0.0123	<0.0083	<0.0060	0.0131	<0.0047	<0.0039	<0.0037	<0.0039	<0.0034	<0.0054	<0.0074	0.184
Carbon Tetrachloride	mg/kg	<0.0031	<0.0072	<0.0040	<0.0042	<0.0045	<0.0279	<0.0056	<0.0054	<0.0042	<0.0053	<0.0041	<0.0045	<0.0123	<0.0083	<0.0060	<0.0058	<0.0047	<0.0039	<0.0037	<0.0039	<0.0034	<0.0054	<0.0074	<0.0082
Chlorobenzene	mg/kg	<0.0031	<0.0072	<0.0040	<0.0042	<0.0045	<0.0279	<0.0056	<0.0054	<0.0042	<0.0053	<0.0041	<0.0045	<0.0123	<0.0083	<0.0060	<0.0058	<0.0047	<0.0039	<0.0037	<0.0039	<0.0034	<0.0054	<0.0074	<0.0082
Chloroethane	mg/kg	<0.0062	<0.0145	<0.0080	<0.0085	<0.0089	<0.0558	<0.0111	<0.0108	<0.0084	<0.0105	<0.0083	<0.0089	<0.0246	<0.0167	<0.0120	<0.0116	<0.0094	<0.0078	<0.0075	<0.0079	<0.0067	<0.0109	<0.0149	<0.0164
Chloroform	mg/kg	<0.0031	<0.0072	<0.0040	<0.0042	<0.0045	<0.0279	<0.0056	<0.0054	<0.0042	<0.0053	<0.0041	<0.0045	<0.0123	<0.0083	<0.0060	<0.0058	<0.0047	<0.0039	<0.0037	<0.0039	<0.0034	<0.0054	<0.0074	<0.0082
Chloromethane	mg/kg	<0.0062	<0.0145	<0.0080	<0.0085	<0.0089	<0.0558	<0.0111	<0.0108	<0.0084	<0.0105	<0.0083	<0.0089	<0.0246	<0.0167	<0.0120	<0.0116	<0.0094	<0.0078	<0.0075	<0.0079	<0.0067	<0.0109	<0.0149	<0.0164
cis-1,2-Dichloroethene	mg/kg	<0.0031	<0.0072	<0.0040	<0.0042	<0.0045	<0.0279	<0.0056	<0.0054	<0.0042	<0.0053	<0.0041	<0.0045	<0.0123	<0.0083	<0.0060	<0.0058	<0.0047	<0.0039	<0.0037	<0.0039	<0.0034	<0.0054	<0.0074	<0.0082
cis-1,3-Dichloropropene	mg/kg	<0.0031	<0.0072	<0.0040	<0.0042	<0.0045	<0.0279	<0.0056	<0.0054	<0.0042	<0.0053	<0.0041	<0.0045	<0.0123	<0.0083	<0.0060	<0.0058	<0.0047	<0.0039	<0.0037	<0.0039	<0.0034	<0.0054	<0.0074	<0.0082
Dibromochloromethane	mg/kg	<0.0012	<0.0029	<0.0016	<0.0017	<0.0018	<0.0112	<0.0022	<0.0022	<0.0017	<0.0021	<0.0017	<0.0018	<0.0049	<0.0033	<0.0024	<0.0023	<0.0019	<0.0016	<0.0015	<0.0016	<0.0013	<0.0022	<0.0030	<0.0033
Dibromomethane	mg/kg	<0.0031	<0.0072	<0.0040	<0.0042	<0.0045	<0.0279	<0.0056	<0.0054	<0.0042	<0.0053	<0.0041	<0.0045	<0.0123	<0.0083	<0.0060	<0.0058	<0.0047	<0.0039	<0.0037	<0.0039	<0.0034	<0.0054	<0.0074	<0.0082
Dichlorodifluoromethane	mg/kg	<0.0062	<0.0145	<0.0080	<0.0085	<0.0089	<0.0558	<0.0111	<0.0108	<0.0084	<0.0105	<0.0083	<0.0089	<0.0246	<0.0167	<0.0120	<0.0116	<0.0094	<0.0078	<0.0075	<0.0079	<0.0067	<0.0109	<0.0149	<0.0164
Diethyl Ether	mg/kg	<0.0031	<0.0072	<0.0040	<0.0042	<0.0045	<0.0279	<0.0056	<0.0054	<0.0042	<0.0053	<0.0041	<0.0045	<0.0123	<0.0083	<0.0060	<0.0058	<0.0047	<0.0039	<0.0037	<0.0039	<0.0034	<0.0054	<0.0074	<0.0082
Di-isopropyl ether	mg/kg	<0.0031	<0.0072	<0.0040	<0.0042	<0.0045	<0.0279	<0.0056	<0.0054	<0.0042	<0.0053	<0.0041	<0.0045	<0.0123	<0.0083	<0.0060	<0.0058	<0.0047	<0.0039	<0.0037	<0.0039	<0.0034	<0.0054	<0.0074	<0.0082
Ethyl tertiary-butyl ether	mg/kg	<0.0031	<0.0072	<0.0040	<0.0042	<0.0045	<0.0279	<0.0056	<0.0054	<0.0042	<0.0053	<0.0041	<0.0045	<0.0123	<0.0083	<0.0060	<0.0058	<0.0047	<0.0039	<0.0037	<0.0039	<0.0034	<0.0054	<0.0074	<0.0082
Ethylbenzene	mg/kg	<0.0031	<0.0072	<0.0040	<0.0042	<0.0045	<0.0279	<0.0056	<0.0054	<0.0042	<0.0053	<0.0041	<0.0045	<0.0123	<0.0083	<0.0060	<0.0058	<0.0047	<0.0039	<0.0037	<0.0039	<0.0034	<0.0054	<0.0074	<0.0082
Hexachlorobutadiene	mg/kg	<0.0031	<0.0072	<0.0040	<0.0042	<0.0045	<0.0279	<0.0056	<0.0054	<0.0042	<0.0053	<0.0041	<0.0045	<0.0123	<0.0083	<0.0060	<0.0058	<0.0047	<0.0039	<0.0037	<0.0039	<0.0034	<0.0054	<0.0074	<0.0082
Isopropylbenzene	mg/kg	<0.0031	<0.0072	<0.0040	<0.0042	<0.0045	<0.0279	<0.0056	<0.0054	<0.0042	<0.0053	<0.0041	<0.0045	<0.0123	<0.0083	<0.0060	<0.0058	<0.0047	<0.0039	<0.0037	<0.0039	<0.0034	<0.0054	<0.0074	<0.0082
Methyl tert-Butyl Ether	mg/kg	<0.0031	<0.0072	<0.0040	<0.0042	<0.0045	<0.0279	<0.0056	<0.0054	<0.0042	<0.0053	<0.0041	<0.0045	<0.0123	<0.0083	<0.0060	<0.0058	<0.0047	<0.0039	<0.0037	<0.0039	<0.0034	<0.0054	<0.0074	<0.0082
Methylene Chloride	mg/kg	<0.0062	<0.0145	<0.0080	<0.0085	<0.0089	<0.0558	<0.0111	<0.0108	<0.0084	<0.0105	<0.0083	<0.0089	<0.0246	<0.0167	<0.0120	<0.0116	<0.0094	<0.0078	<0.0075	<0.0079	<0.0067	<0.0109	<0.0149	<0.0164
Naphthalene	mg/kg	<0.0031	<0.0072	<0.0040	<0.0042	0.434	<0.0279	<0.0056	<0.0054	<0.0042	<0.0053	<0.0041	<0.0045	<0.0123	<0.0083	0.0652	<0.0058	<0.0047	<0.0039	<0.0037	<0.0039	<0.0034	0.0096	<0.0074	<0.0082
n-Butylbenzene	mg/kg	<0.0031	<0.0072	<0.0040	<0.0042	<0.0045	<0.0279	<0.0056	<0.0054	<0.0042	<0.0053	<0.0041	<0.0045	<0.0123	<0.0083	<0.0060	<0.0058	<0.0047	<0.0039	<0.0037	<0.0039	<0.0034	<0.0054	<0.0074	<0.0082
n-Propylbenzene	mg/kg	<0.0031	<0.0072	<0.0040	<0.0042	<0.0045	<0.0279	<0.0056	<0.0054	<0.0042	<0.0053	<0.0041	<0.0045	<0.0123	<0.0083	<0.0060	<0.0058	<0.0047	<0.0039	<0.0037	<0.0039	<0.0034	<0.0054	<0.0074	<0.0082
sec-Butylbenzene	mg/kg	<0.0031	<0.0072	<0.0040	<0.0042	<0.0045	<0.0279	<0.0056	<0.0054	<0.0042	<0.0053	<0.0041	<0.0045	<0.0123	<0.0083	<0.0060	<0.0058	<0.0047	<0.0039	<0.0037	<0.0039	<0.0034	<0.0054	<0.0074	<0.0082

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Table 1
Soil Precharacterization Data

Wynn Resort Casino
Everett, Massachusetts

Analyte	Precharacterization Cell	M09	M10	M10	M10	M10	M10	M10	M10	M10	M10	M11	M11	M11	M11	M11	M11	M11	M11	M12	M12	M12	M12	M12
	Sample ID	M09S13	M10S01S02A	M10S02BS04A	M10S04BS05	M10S06S07A	M10S08	M10S09	M10S10	M10S11	M10S12S13	M11S01S02A	M11S02BS04A	M11S04B	M11S05S06	M11S07	M11S08	M11S09	M11S10	M11S11S12	GZ01S01S02A	GZ01S02BS04A	GZ01S04BS05	GZ01S06S07A	GZ01S07BS08
	Laboratory Work Order	1501471	1502101	1502101	1502101	1502101	1502101	1502101	1502101	1502101	1502101	1501395	1501395	1501395	1501395	1501395	1501395	1501395	1501395	1501395	1502187	1502187	1502187	1502187
	Soil Distinction	Natural	Fill	Fill	Fill	Fill	Natural	Natural	Natural	Natural	Natural	Fill	Fill	Fill	Fill	Fill	Natural	Natural	Natural	Natural	Fill	Fill	Fill	Fill
	Soil Type	Clay					Organics	Organics	Clay	Clay	Sand/Gravel						Clay	Clay	Clay	Clay					Organics
	Depth Interval (ft.)	36 - 38	0 - 3.3	3.3 - 6.6	6.6 - 10	10 - 13.3	14 - 16	19 - 21	24 - 26	29 - 31	34 - 38	0 - 3.3	3.3 - 6.6	6.6 - 8	8 - 12	14 - 16	19 -21	24 - 26	29 - 31	34 - 38	0.5 - 3.3	3.3 - 6.6	6.6 - 10	10 - 13.3	13.3 - 16
	Sampling Date	1/22/2015	2/6/2015	2/6/2015	2/6/2015	2/6/2015	2/6/2015	2/6/2015	2/6/2015	2/6/2015	2/6/2015	1/20/2015	1/20/2015	1/20/2015	1/20/2015	1/20/2015	1/20/2015	1/20/2015	1/20/2015	1/20/2015	2/12/2015	2/12/2015	2/12/2015	2/12/2015	2/12/2015
Preliminary Disposal Facility Category		MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type B-1	Hazardous Material Type A	MCP Regulated Type B-1	Uncontaminated	Uncontaminated	TSCA Material	TSCA Material	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A
Styrene	mg/kg	<0.0031	<0.0072	<0.0040	<0.0042	<0.0045	<0.0279	<0.0056	<0.0054	<0.0042	<0.0053	<0.0041	<0.0045	<0.0123	<0.0083	<0.0060	<0.0058	<0.0047	<0.0039	<0.0037	<0.0039	<0.0034	<0.0054	<0.0074	<0.0082
tert-Butylbenzene	mg/kg	<0.0031	<0.0072	<0.0040	<0.0042	<0.0045	<0.0279	<0.0056	<0.0054	<0.0042	<0.0053	<0.0041	<0.0045	<0.0123	<0.0083	<0.0060	<0.0058	<0.0047	<0.0039	<0.0037	<0.0039	<0.0034	<0.0054	<0.0074	<0.0082
Tertiary-amyl methyl ether	mg/kg	<0.0031	<0.0072	<0.0040	<0.0042	<0.0045	<0.0279	<0.0056	<0.0054	<0.0042	<0.0053	<0.0041	<0.0045	<0.0123	<0.0083	<0.0060	<0.0058	<0.0047	<0.0039	<0.0037	<0.0039	<0.0034	<0.0054	<0.0074	<0.0082
Tetrachloroethene	mg/kg	<0.0031	<0.0072	<0.0040	<0.0042	<0.0045	<0.0279	<0.0056	<0.0054	<0.0042	<0.0053	<0.0041	<0.0045	<0.0123	<0.0083	<0.0060	<0.0058	<0.0047	<0.0039	<0.0037	<0.0039	<0.0034	<0.0054	<0.0074	<0.0082
Tetrahydrofuran	mg/kg	<0.0031	<0.0072	<0.0040	<0.0042	<0.0045	<0.0279	<0.0056	<0.0054	<0.0042	<0.0053	<0.0041	<0.0045	<0.0123	<0.0083	<0.0060	<0.0058	<0.0047	<0.0039	<0.0037	<0.0039	<0.0034	<0.0054	<0.0074	<0.0082
Toluene	mg/kg	<0.0031	<0.0072	<0.0040	<0.0042	<0.0045	<0.0279	<0.0056	<0.0054	<0.0042	<0.0053	<0.0041	<0.0045	<0.0123	<0.0083	<0.0060	<0.0058	<0.0047	<0.0039	<0.0037	<0.0039	<0.0034	<0.0054	<0.0074	<0.0082
trans-1,2-Dichloroethene	mg/kg	<0.0031	<0.0072	<0.0040	<0.0042	<0.0045	<0.0279	<0.0056	<0.0054	<0.0042	<0.0053	<0.0041	<0.0045	<0.0123	<0.0083	<0.0060	<0.0058	<0.0047	<0.0039	<0.0037	<0.0039	<0.0034	<0.0054	<0.0074	<0.0082
trans-1,3-Dichloropropene	mg/kg	<0.0031	<0.0072	<0.0040	<0.0042	<0.0045	<0.0279	<0.0056	<0.0054	<0.0042	<0.0053	<0.0041	<0.0045	<0.0123	<0.0083	<0.0060	<0.0058	<0.0047	<0.0039	<0.0037	<0.0039	<0.0034	<0.0054	<0.0074	<0.0082
Trichloroethene	mg/kg	<0.0031	<0.0072	<0.0040	<0.0042	<0.0045	<0.0279	<0.0056	<0.0054	<0.0042	<0.0053	<0.0041	<0.0045	<0.0123	<0.0083	<0.0060	<0.0058	<0.0047	<0.0039	<0.0037	<0.0039	<0.0034	<0.0054	<0.0074	<0.0082
Trichlorofluoromethane	mg/kg	<0.0031	<0.0072	<0.0040	<0.0042	<0.0045	<0.0279	<0.0056	<0.0054	<0.0042	<0.0053	<0.0041	<0.0045	<0.0123	<0.0083	<0.0060	<0.0058	<0.0047	<0.0039	<0.0037	<0.0039	<0.0034	<0.0054	<0.0074	<0.0082
Vinyl Chloride	mg/kg	<0.0062	<0.0145	<0.0080	<0.0085	<0.0089	<0.0558	<0.0111	<0.0108	<0.0084	<0.0105	<0.0083	<0.0089	<0.0246	<0.0167	<0.0120	<0.0116	<0.0094	<0.0078	<0.0075	<0.0079	<0.0067	<0.0109	<0.0149	<0.0164
Xylene O	mg/kg	<0.0031	<0.0072	<0.0040	<0.0042	<0.0045	<0.0279	<0.0056	<0.0054	<0.0042	<0.0053	<0.0041	<0.0045	<0.0123	<0.0083	<0.0060	<0.0058	<0.0047	<0.0039	<0.0037	<0.0039	<0.0034	<0.0054	<0.0074	<0.0082
Xylene P,M	mg/kg	<0.0062	<0.0145	<0.0080	<0.0085	<0.0089	<0.0558	<0.0111	<0.0108	<0.0084	<0.0105	<0.0083	<0.0089	<0.0246	<0.0167	<0.0120	<0.0116	<0.0094	<0.0078	<0.0075	<0.0079	<0.0067	<0.0109	<0.0149	<0.0164
Xylenes (Total)	mg/kg	<0.0062	<0.0145	<0.0080	<0.0085	<0.0089	<0.0558	<0.0111	<0.0108	<0.0084	<0.0105	<0.0083	<0.0089	<0.0246	<0.0167	<0.0120	<0.0116	<0.0094	<0.0078	<0.0075	<0.0079	<0.0067	<0.0109	<0.0149	<0.0164
Total VOCs (Low Level)	mg/kg	0.0087	0.0163	ND	ND	0.4659	0.3075	0.1395	0.0257	ND	ND	0.0115	0.0854	0.0327	ND	0.1074	0.0404	0.0108	ND	ND	ND	0.0218	0.0363	0.0188	0.4779
Semi-Volatile Organic Compounds																									
1,2,4-Trichlorobenzene	mg/kg	<0.851	<4.11	<4.41	<4.44	<4.26	<6.20	<5.54	<0.921	<0.944	<0.918	<0.913	<0.926	<0.940	<1.55	<1.62	<1.28	<0.994	<0.881	<0.995	<3.59	<3.81	<3.23	<1.14	<1.50
1,2-Dichlorobenzene	mg/kg	<0.851	<4.11	<4.41	<4.44	<4.26	<6.20	<5.54	<0.921	<0.944	<0.918	<0.913	<0.926	<0.940	<1.55	<1.62	<1.28	<0.994	<0.881	<0.995	<3.59	<3.81	<3.23	<1.14	<1.50
1,3-Dichlorobenzene	mg/kg	<0.851	<4.11	<4.41	<4.44	<4.26	<6.20	<5.54	<0.921	<0.944	<0.918	<0.913	<0.926	<0.940	<1.55	<1.62	<1.28	<0.994	<0.881	<0.995	<3.59	<3.81	<3.23	<1.14	<1.50
1,4-Dichlorobenzene	mg/kg	<0.427	<2.06	<2.21	<2.23	<2.14	<3.11	<2.78	<0.462	<0.473	<0.461	<0.458	<0.465	<0.471	<0.779	<0.814	<0.640	<0.498	<0.442	<0.499	<1.80	<1.91	<1.62	<0.569	<0.753
2,4,5-Trichlorophenol	mg/kg	<0.851	<4.11	<4.41	<4.44	<4.26	<6.20	<5.54	<0.921	<0.944	<0.918	<0.913	<0.926	<0.940	<1.55	<1.62	<1.28	<0.994	<0.881	<0.995	<3.59	<3.81	<3.23	<1.14	<1.50
2,4,6-Trichlorophenol	mg/kg	<0.851	<4.11	<4.41	<4.44	<4.26	<6.20	<5.54	<0.921	<0.944	<0.918	<0.913	<0.926	<0.940	<1.55	<1.62	<1.28	<0.994	<0.881	<0.995	<3.59	<3.81	<3.23	<1.14	<1.50
2,4-Dichlorophenol	mg/kg	<0.851	<4.11	<4.41	<4.44	<4.26	<6.20	<5.54	<0.921	<0.944	<0.918	<0.913	<0.926	<0.940	<1.55	<1.62	<1.28	<0.994	<0.881	<0.995	<3.59	<3.81	<3.23	<1.14	<1.50
2,4-Dimethylphenol	mg/kg	<0.851	<4.11	<4.41	<4.44	<4.26	<6.20	<5.54	<0.921	<0.944	<0.918	<0.913	<0.926	<0.940	<1.55	<1.62	<1.28	<0.994	<0.881	<0.995	<3.59	<3.81	<3.23	<1.14	<1.50
2,4-Dinitrophenol	mg/kg	<4.27	<20.6	<22.1	<22.3	<21.4	<31.1	<27.8	<4.62	<4.73	<4.61	<4.58	<4.65	<4.71	<7.79	<8.14	<6.40	<4.98	<4.42	<4.99	<18.0	<19.1	<16.2	<5.69	<7.53
2,4-Dinitrotoluene	mg/kg	<0.851	<1.03	<1.11	<1.11	<1.07	<1.54	<1.39	<0.921	<0.944	<0.918	<0.913	<0.926	<0.940	<1.55	<1.62	<1.28	<0.994	<0.881	<0.995	<0.901	<0.955	<0.810	<1.14	<1.50
2,6-Dinitrotoluene	mg/kg	<0.851	<4.11	<4.41	<4.44	<4.26	<6.20	<5.54	<0.921	<0.944	<0.918	<0.913	<0.926	<0.940	<1.55	<1.62	<1.28	<0.994	<0.881	<0.995	<3.59	<3.81	<3.23	<1.14	<1.50
2-Chloronaphthalene	mg/kg	<0.851	<4.11	<4.41	<4.44	<4.26	<6.20	<5.54	<0.921	<0.944	<0.918	<0.913	<0.926	<0.940	<1.55	<1.62	<1.28	<0.994	<0.881	<0.995	<3.59	<3.81	<3.23	<1.14	<1.50
2-Chlorophenol	mg/kg	<0.851	<4.11	<4.41	<4.44	<4.26	<6.20	<5.54	<0.921	<0.944	<0.918	<0.913	<0.926	<0.940	<1.55	<1.62	<1.28	<0.994	<0.881	<0.995	<3.59	<3.81	<3.23	<1.14	<1.50
2-Methylnaphthalene	mg/kg	<0.851	<4.11	<4.41	<4.44	<4.26	<6.20	<5.54	<0.921	<0.944	<0.918	<0.913	<0.926	<0.940	<1.55	<1.62	<1.28	<0.994	<0.881	<0.995	<3.59	<3.81	<3.23	<1.14	<1.50
2-Methylphenol	mg/kg	<0.851	<4.11	<4.41	<4.44	<4.26	<6.20	<5.54	<0.921	<0.944	<0.918	<0.913	<0.926	<0.940	<1.55	<1.62	<1.28	<0.994	<0.881	<0.995	<3.59	<3.81	<3.23	<1.14	<1.50
2-Nitrophenol	mg/kg	<0.851	<4.11	<4.41	<4.44	<4.26	<6.20	<5.54	<0.921	<0.944	<0.918	<0.913	<0.926	<0.940	<1.55	<1.62	<1.28	<0.994	<0.881	<0.995	<3.59	<3.81	<3.23	<1.14	<1.50
3,3´-Dichlorobenzidine	mg/kg	<1.71	<8.24	<8.83	<8.89	<8.54	<6.20	<11.1	<1.85	<1.89	<1.84	<1.83	<1.86	<1.88	<3.11	<3.25	<2.56	<1.99	<1.76	<1.99	<7.20	<7.63	<6.47	<2.27	<3.01
3+4-Methylphenol	mg/kg	<1.71	<8.24	<8.83	<8.89	<8.54	<12.4	<11.1	<1.85	<1.89	<1.84	<1.83	<1.86	<1.88	<3.11	<3.25	<2.56	<1.99	<1.76	<1.99	<7.20	<7.63	<6.47	<2.27	<3.01
4-Bromophenyl-phenylether	mg/kg	<0.851	<4.11	<4.41	<4.44	<4.26	<6.20	<5.54	<0.921	<0.944	<0.918	<0.913	<0.926	<0.940	<1.55	<1.62	<1.28	<0.994	<0.881	<0.995	<3.59	<3.81	<3.23	<1.14	<1.50
4-Chloroaniline	mg/kg	<1.71	<2.06	<2.21	<2.23	<2.14	<1.54	<2.78	<1.85	<1.89	<1.84	<1.83	<1.86	<1.88	<3.11	<3.25	<2.56	<1.99	<1.76	<1.99	<1.80	<1.91	<1.62	<2.27	<0.753
4-Nitrophenol	mg/kg	<4.27	<20.6	<22.1	<22.3	<21.4	<31.1	<27.8	<4.62	<4.73	<4.61	<4.58	<4.65	<4.71	<7.79	<8.14	<6.40	<4.98	<4.42	<4.99	<18.0	<19.1	<16.2	<5.69	<7.53
Acenaphthene	mg/kg	<0.851	<4.11	<4.41	<4.44	10.1	<6.20	<5.54	<0.921	<0.944	<0.918	<0.913	<0.926	<0.940	<1.55	<1.62	<1.28	<0.994	<0.881	<0.995	<3.59	<3.81	<3.23	<1.14	<1.50
Acenaphthylene	mg/kg	<0.851	<4.11	<4.41	<4.44	<4.26	<6.20	<5.54	<0.921	<0.944	<0.918	<0.913	<0.926	<0.940	<1.55	<1.62	<1.28	<0.994	<0.881	<0.995	<3.59	<3.81	<3.23	<1.14	<1.50
Acetophenone	mg/kg	<1.71	<8.24	<8.83	<8.89	<8.54	<12.4	<11.1	<1.85	<1.89	<1.84	<1.83	<1.86	<1.88	<3.11	<3.25	<2.56	<1.99	<1.76	<1.99	<7.20	<7.63	<6.47	<2.27	<3.01
Aniline	mg/kg	<4.27	<20.6	<22.1	<22.3	<21.4	<31.1	<27.8	<4.62	<4.73	<4.61	<4.58	<4.65	<4.71	<7.79	<8.14	<6.40	<4.98	<4.42	<4.99	<18.0	<19.1	<16.2	<5.69	<7.53
Anthracene	mg/kg	<0.851	<4.11	<4.41	<4.44	26.9	<6.20	<5.54	<0.921	<0.944	<0.918	<0.913	<0.926	1.28	<1.55	2.16	<1.28	<0.994	<0.881	<0.995	<3.59	<3.81	<3.23	<1.14	<1.50
Azobenzene	mg/kg	<0.851	<4.11	<4.41	<4.44	<4.26	<6.20	<5.54	<0.921	<0.944	<0.918	<0.913	<0.926	<0.940	<1.55	<1.62	<1.28	<0.994	<0.881	<0.995	<3.59	<3.81	<3.23	<1.14	<1.50
Benzo(a)anthracene	mg/kg	<0.851	<4.11	<4.41	<4.44	23.6	<6.20	<5.54	<0.921	<0.944	<0.918	1.21	<0.926	2.65	<1.55	2.38	<1.28	<0.994	<0.881	<0.995	<3.59	6.34	4.66	<1.14	1.91
Benzo(a)pyrene	mg/kg	<0.427	<2.06	<2.21	<2.23	19.3	<3.11	<2.78	<0.462	<0.473	<0.461	1.29	0.947	2.14	<0.779	1.75	<0.640	<0.498	<0.442	<0.499	<1.80	4.02	3	<0.569	1.54
Benzo(b)fluoranthene	mg/kg	<0.851	<4.11	<4.41	<4.44	23	<6.20	<5.54	<0.921	<0.944	<0.918	1.84	1.88	3.47	<1.55	2.16	<1.28	<0.994	<0.881	<0.995	<3.59	4.66	4.46	<1.14	<1.50
Benzo(g,h,i)perylene	mg/kg	<0.851	<4.11	<4.41	<4.44	4.91	<6.20	<5.54	<0.921	<0.944	<0.918	<0.913	<0.926	<0.940	<1.55	<1.62	<1.28	<0.994	<0.881	<0.995	<3.59	<3.81	<3.23	<1.14	<1.50
Benzo(k)fluoranthene	mg/kg	<0.851	<4.11	<4.41	<4.44	7.09	<6.20	<5.54	<0.921	<0.944	<0.918	<0.913	<0.926	1.13	<1.55	<1.62	<1.28	<0.994	<0.881	<0.995	<3.59	<3.81	<3.23	<1.14	<1.50
bis(2-Chloroethoxy)methane	mg/kg	<0.851	<4.11	<4.41	<4.44	<4.26	<6.20	<5.54	<0.921	<0.944	<0.918	<0.913	<0.926	<0.940	<1.55	<1.62	<1.28	<0.994	<0.881	<0.995	<3.59	<3.81	<3.23	<1.14	<1.50
bis(2-Chloroethyl)ether	mg/kg	<0.427	<0.408	<0.437	<0.440	<0.422	<0.614	<0.549	<0.462	<0.473	<0.461	<0.458	<0.465	<0.471	<0.779	<0.814	<0.640	<0.498	<0.442	<0.499	<0.356	<0.377	<0.320	<0.569	<0.377
bis(2-chloroisopropyl)Ether	mg/kg	<0.427	<0.408	<0.437	<0.440	<0.422	<0.614	<0.549	<0.462	<0.473	<0.461	<0.458	<0.465	<0.471	<0.779	<0.814	<0.640	<0.498	<0.442	<0.499	<0.356	<0.377	<0.320	<0.569	<0.377
bis(2-Ethylhexyl)phthalate	mg/kg	<0.851	<4.11	<4.41	<4.44	<4.26	<6.20	<5.54	<0.921	<0.944	<0.918	1.05	<0.926	<0.940	<1.55	<1.62	<1.28	<0.994	<0.881	<0.995	<3.59	6.11	3.27	<1.14	<1.50
Butylbenzylphthalate	mg/kg	<0.851	<4.11	<4.41	<4.44	<4.26	<6.20	<5.54	<0.921	<0.944	<0.918	<0.913	<0.926	<0.940	<1.55	<1.62	<1.28	<0.994	<0.881	<0.995	<3.59	<3.81	<3.23	<1.14	<1.50
Chrysene	mg/kg	<0.427	<2.06	<2.21	<2.23	21.1	<3.11	<2.78	<0.462	<0.473	<0.461	1.08	1.25	2.77	<0.779	2.18	<0.640	<0.498	<0.442	<0.499	<1.80	6.83	4.82	<0.569	1.75
Dibenzo(a,h)Anthracene	mg/kg	<0.427	<2.06	<2.21	<2.23	2.7	<3.11	<2.78	<0.462	<0.473	<0.461	<0.458	<0.465	<0.471	<0.779	<0.814	<0.640	<0.498	<0.442	<0.499	<1.80	<1.91	<1.62	<0.569	<0.753
Dibenzofuran	mg/kg	<0.851	<4.11	<4.41	<4.44	9.81	<6.20	<5.54	<0.921	<0.944	<0.918	<0.913	<0.926	<0.940	<1.55	<1.62	<1.28	<0.994	<0.881	<0.995	<3.59	<3.81	<3.23	<1.14	<1.50
Diethylphthalate	mg/kg	<0.851	<4.11	<4.41	<4.44	<4.26	<6.20	<5.54	<0.921	<0.944	<0.918	<0.913	<0.926	<0.940	<1.55	<1.62	<1.28	<0.994	<0.881	<0.995	<3.59	<3.81	<3.23	<1.14	<1.50
Dimethylphthalate	mg/kg	<0.851	<4.11	<4.41	<4.44	<4.26	<6.20	<5.54	<0.921	<0.944	<0.918	<0.913	<0.926	<0.940	<1.55	<1.62	<1.28	<0.994	<0.881	<0.995	<3.59	<3.81	<3.23	<1.14	<1.50
Di-n-butylphthalate	mg/kg	<0.851	<4.11	<4.41	<4.44	<4.26	<6.20	<5.54	<0.921	<0.944	<0.918	<0.913	<0.926	<0.940	<1.55	<1.62	<1.28	<0.994	<0.881	<0.995	<3.59	<3.81	<3.23	<1.14	<1.50
Di-n-octylphthalate	mg/kg	<0.851	<4.11	<4.41	<4.44	<4.26	<6.20	<5.54	<0.921	<0.944	<0.918	<0.913	<0.926	<0.940	<1.55	<1.62	<1.28	<0.994	<0.881	<0.995	<3.59	<3.81	<3.23	<1.14	<1.50
Fluoranthene	mg/kg	<0.851	<4.11	<4.41	<4.44	54.3	<6.20	<5.54	<0.921	<0.944	<0.918	1.65	1.73	5.2	<1.55	5.54	<1.28	<0.994	<0.881	<0.995	<3.59	12	10.2	<1.14	4.6
Fluorene	mg/kg	<0.851	<4.11	<4.41	<4.44	14.6	<6.20	<5.54	<0.921	<0.944	<0.918	<0.913	<0.926	<0.940	<1.55	<1.62	<1.28	<0.994	<0.881	<0.995	<3.59	4.3	3.73	<1.14	<1.50
Hexachlorobenzene	mg/kg	<0.427	<1.03	<1.11	<1.11	<1.07	<1.54	<1.39	<0.462	<0.473	<0.461	<0.458	<0.465	<0.471	<0.779	<0.814	<0.640	<0.498	<0.442	<0.499	<0.901	<0.955	<0.810	<0.569	<0.377
Hexachlorobutadiene	mg/kg	<0.851	<4.11	<4.41	<4.44	<4.26	<6.20	<5.54	<0.921	<0.944	<0.918	<0.913	<0.926	<0.940	<1.55	<1.62	<1.28	<0.994	<0.881	<0.995	<3.59	<3.81	<3.23	<1.14	<1.50
Hexachloroethane	mg/kg	<0.851	<2.06	<2.21	<2.23	<2.14	<1.54	<2.78	<0.921	<0.944	<0.918	<0.913	<0.926	<0.940	<1.55	<1.62	<1.28	<0.994	<0.881	<0.995	<1.80	<1.91	<1.62	<1.14	<0.753
Indeno(1,2,3-cd)Pyrene	mg/kg	<0.851	<4.11	<4.41	<4.44	5.35	<6.20	<5.54	<0.921	<0.944	<0.918	<0.913	<0.926	<0.940	<1.55	<1.62	<1.28	<0.994	<0.881	<0.995	<3.59	<3.81	<3.23	<1.14	<1.50
Isophorone	mg/kg	<0.851	<4.11	<4.41	<4.44	<4.26	<6.20	<5.54	<0.921	<0.944	<0.918	<0.913	<0.926	<0.940	<1.55	<1.62	<1.28	<0.994	<0.881	<0.995	<3.59	<3.81	<3.23	<1.14	<1.50
Naphthalene	mg/kg	<0.851	<4.11	<4.41	<4.44	<4.26	<6.20	<5.54	<0.921	<0.944	<0.918	<0.913	<0.926	<0.940	<1.55	<1.62	<1.28	<0.994	<0.881	<0.995	<3.59	<3.81	<3.23	<1.14	<1.50
Nitrobenzene	mg/kg	<0.851	<4.11	<4.41	<4.44	<4.26	<6.20	<5.54	<0.921	<0.944	<0.918	<0.913	<0.926	<0.940	<1.55	<1.62	<1.28	<0.994	<0.881	<0.995	<3.59	<3.81	<3.23	<1.14	<1.50
N-Nitrosodimethylamine	mg/kg	<0.851	<4.11	<4.41	<4.44	<4.26	<6.20	<5.54	<0.921	<0.944	<0.918	<0.913	<0.926	<0.940	<1.55	<1.62	<1.28	<0.994	<0.881	<0.995	<3.59	<3.81	<3.23	<1.14	<1.50
Pentachlorophenol	mg/kg	<4.27	<4.11	<4.41	<4.44	<4.26	17.1	<5.54	<4.62	<4.73	<4.61	<4.58	<4.65	<4.71	<7.79	<8.14	<6.40	<4.98	<4.42	<4.99	<3.59	<3.81	<3.23	<5.69	<1.50
Phenanthrene	mg/kg	<0.851	<4.11	<4.41	<4.44	61.8	<6.20	<5.54	<0.921	<0.944	<0.918	<0.913	0.982	4.41	<1.55	6.63	<1.28	<0.994	<0.881	<0.995	<3.59	20.8	18.1	<1.14	3.96
Phenol	mg/kg	<0.851	<4.11	<4.41	<4.44	<4.26	<6.20	8.71	<0.921	<0.944	<0.918	<0.913	<0.926	<0.940	<1.55	<1.62	<1.28	<0.994	<0.881	<0.995	<3.59	<3.81	<3.23	<1.14	<1.50
Pyrene	mg/kg	<0.851	<4.11	<4.41	<4.44	45.3	<6.20	<5.54	<0.921	<0.944	<0.918	1.28	1.64	4.49	<1.55	4.2	<1.28	<0.994	<0.881	<0.995	<3.59	15.1	11	<1.14	2.96
Total SVOCs	mg/kg	ND	ND	ND	ND	329.86	17.1	8.71	ND	ND	ND	9.4	8.429	27.54	ND	27	ND	ND	ND	ND	ND	80.16	63.24	ND	16.72
Classic Chemistry																									
Corrosivity (pH)	S.U.	7.96	8.35	7.81	7.49	7.99	7.98	7.67	7.76	7.64	7.29	7.77	7.01	6.5	4.08	4.21	7.22	7.68	7.49	7.06	8.86	8.22	6.23	4.12	4.83
Conductivity	umhos/cm	1730	1900	1750	1740	2630	6800	11000	6590	2950	4070	588	518	896	3570	3670	5580	5040	4870	3190	303	431	1150	2540	3650
Flashpoint	°F	--	>200	>200	>200	>200	--	--	--	--	--	>200	>200	>200	--	--	--	--	--	--	>200	>200	>200	>200	--
Reactive Cyanide	mg/kg	--	<2.0	<2.0	<2.0	<2.0	--	--	--	--	--	<2.0	<2.0	<2.0	--	--	--	--	--	--	<2.0	<2.0	<2.0	<2.0	--
Reactive Sulfide	mg/kg	--	<2.0	<2.0	<2.0	<2.0	--	--	--	--	--	<2.0	<2.0	<2.0	--	--	--	--	--	--	<2.0	<2.0	<2.0	<2.0	--

Table 1
Soil Precharacterization Data

Wynn Resort Casino
Everett, Massachusetts

Analyte	Precharacterization Cell	M12	M12	M12	M12	M12	M13	M13	M13	M13	M13	M13	M13	M13	M13	M14	M14	M14	M14	M14	M14	M14	M14	M15
	Sample ID	GZ019S10	GZ019S13	GZ019S14	GZ019S16	GZ019S17	M13S01S02A	M13S02BS04A	M13S04BS05	M13S06S07	M13S08	M13S09	M13S10	M13S11	M13S12513	M14S01S02A	M14S02BS04A	M14S04BS05	M14S06S07A	M14S07BS08	M14S09	M14S10	M14S11	M14S12513	M15S01S02A
	Laboratory Work Order	1502187	1502187	1502187	1502207	1502207	1501356	1501356	1501395	1501395	1501395	1501395	1501395	1501395	1501395	1501545	1501545	1501545	1501545	1501545	1501545	1501545	1501545	1501545	1501356
	Soil Distinction	Natural	Natural	Natural	Clay	Clay	Fill	Fill	Fill	Fill	Natural	Natural	Natural	Natural	Natural	Fill	Fill	Fill	Fill	Natural	Natural	Natural	Natural	Natural	Fill
	Soil Type	Organics	Organics	Organics	Organics	Organics					Organics	Organics	Organics	Sand/Gravel	Clay					Organics	Organics	Organics	Sand/Gravel	Clay	
	Depth Interval (ft.)	18 - 20	24 - 26	26 - 28	34 - 36	39 - 41	0 - 3.3	3.3 - 6.6	6.6 - 10	10 - 14	14 - 16	19 - 21	24 - 26	29 - 31	34 - 38	0 - 3.3	3.3 - 6.6	6.6 - 10	10 - 13	13 - 16	19 - 21	24 - 26	29 - 31	34 - 38	0 - 3.3
	Sampling Date	2/12/2015	2/12/2015	2/12/2015	2/13/2015	2/13/2015	1/19/2015	1/19/2015	1/20/2015	1/20/2015	1/20/2015	1/20/2015	1/20/2015	1/20/2015	1/20/2015	1/29/2015	1/29/2015	1/29/2015	1/29/2015	1/29/2015	1/29/2015	1/29/2015	1/29/2015	1/29/2015	1/29/2015	1/19/2015
Preliminary Disposal Facility Category		Hazardous Material Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type A
RCRA 8 Metals	**Units**																								
Arsenic	mg/kg	<12.2	9.32	9.52	27.3	8.27	<7.10	14.2	<6.53	39.9	18.2	12.5	10.4	11.2	<7.64	8.81	66.9	15.8	123	<15.0	<11.0	<9.58	<7.42	9.44	<6.77
Barium	mg/kg	36.6	40.7	71.9	93.8	97.2	31	50.2	26.3	57	37.8	52.7	39.4	59.8	89.2	32.3	95.2	71.2	241	30.8	46.3	30.9	21.8	97	37.7
Cadmium	mg/kg	<2.43	<1.82	<1.73	<1.50	<1.29	<1.42	<1.45	<1.31	<4.13	<3.29	<2.35	<1.79	<1.55	<1.53	<1.35	<1.50	<1.43	<2.05	<3.01	<2.20	<1.92	<1.48	<1.53	<1.35
Chromium	mg/kg	32.8	32.7	47	54.4	51.1	11.4	20	9.42	37.6	30.8	46.7	34.2	36.7	44.7	20.5	19.4	14.9	34.3	29.8	40.7	27.7	12	46.4	15.6
Lead	mg/kg	<24.3	<18.2	<17.3	16.8	15.2	52.1	194	16.4	232	34.6	<23.5	<17.9	<15.5	<15.3	46.6	858	228	2750	59.6	<22.0	<19.2	<14.8	<15.3	51.5
Selenium	mg/kg	<12.2	<9.11	<8.66	<7.52	<6.47	<11.4	<7.23	<6.53	<10.3	<16.4	<11.7	<8.97	<7.74	<7.64	<6.74	35.2	<7.15	<10.3	<15.0	<11.0	<9.58	<14.8	<7.66	<6.77
Silver	mg/kg	<2.43	<1.82	<1.73	<1.50	<1.29	<1.42	<1.45	<1.31	<4.13	<3.29	<2.35	<1.79	<1.55	<1.53	<1.35	3.12	<1.43	2.76	<3.01	<2.20	<1.92	<1.48	<1.53	<1.35
Mercury	mg/kg	<0.063	<0.048	<0.040	<0.038	<0.042	0.369	0.706	<0.034	<0.107	<0.079	<0.060	<0.048	<0.036	<0.035	0.203	5.44	0.134	0.518	<0.069	<0.054	<0.045	<0.034	<0.037	0.053
Metals by Toxicity Characteristic Leaching Procedure (TCLP)																									
Arsenic	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.253	--	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead	mg/L	--	--	--	--	--	--	0.605	--	0.2	--	--	--	--	--	--	1.65	<0.050	<0.050	--	--	--	--	--	--
Selenium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.150	--	--	--	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.00050	--	--	--	--	--	--	--	--
Herbicides																									
2,4,5-T	mg/kg	--	--	--	--	--	<0.089	<0.23	<0.043	--	--	--	--	--	--	<0.055	<0.62	<0.061	<0.081	--	--	--	--	--	<0.24
2,4-D	mg/kg	--	--	--	--	--	<0.45	<1.2	<0.21	--	--	--	--	--	--	<0.055	<0.62	<0.061	<0.081	--	--	--	--	--	<1.2
2,4-DB	mg/kg	--	--	--	--	--	<0.033	<0.088	<0.016	--	--	--	--	--	--	<0.055	<0.62	<0.061	<0.081	--	--	--	--	--	<0.092
Dalapon	mg/kg	--	--	--	--	--	<2.7	<7.0	<1.3	--	--	--	--	--	--	<0.66	<7.4	<0.73	<0.98	--	--	--	--	--	<7.3
Dicamba	mg/kg	--	--	--	--	--	<0.13	<0.35	<0.064	--	--	--	--	--	--	<0.055	<0.62	<0.061	<0.081	--	--	--	--	--	<0.37
Dichlorprop	mg/kg	--	--	--	--	--	<0.29	<0.76	<0.14	--	--	--	--	--	--	<0.055	<0.62	<0.061	<0.081	--	--	--	--	--	<0.79
Dinoseb	mg/kg	--	--	--	--	--	<0.45	<1.2	<0.21	--	--	--	--	--	--	<0.33	<3.7	<0.36	<0.49	--	--	--	--	--	<1.2
MCPA	mg/kg	--	--	--	--	--	<110	<290	<53	--	--	--	--	--	--	<13	<150	<15	<20	--	--	--	--	--	<310
MCPP	mg/kg	--	--	--	--	--	<110	<290	<53	--	--	--	--	--	--	<13	<150	<15	<20	--	--	--	--	--	<310
Silvex (2,4,5-TP)	mg/kg	--	--	--	--	--	<0.089	<0.23	<0.043	--	--	--	--	--	--	<0.055	<0.62	<0.061	<0.081	--	--	--	--	--	<0.24
Pesticides																									
4,4'-DDD	mg/kg	--	--	--	--	--	<0.038	<0.019	<0.035	--	--	--	--	--	--	<0.019	<0.021	<0.0042	<0.0054	--	--	--	--	--	<0.010
4,4'-DDE	mg/kg	--	--	--	--	--	<0.038	<0.019	<0.035	--	--	--	--	--	--	<0.019	<0.021	<0.0042	<0.0054	--	--	--	--	--	<0.010
4,4'-DDT	mg/kg	--	--	--	--	--	<0.038	<0.019	<0.035	--	--	--	--	--	--	<0.019	<0.021	<0.0042	<0.0054	--	--	--	--	--	<0.010
Aldrin	mg/kg	--	--	--	--	--	<0.038	<0.019	<0.035	--	--	--	--	--	--	<0.019	<0.021	<0.0042	<0.0054	--	--	--	--	--	<0.010
alpha-BHC	mg/kg	--	--	--	--	--	<0.038	<0.019	<0.035	--	--	--	--	--	--	<0.019	<0.021	<0.0042	<0.0054	--	--	--	--	--	<0.010
beta-BHC	mg/kg	--	--	--	--	--	<0.038	<0.019	<0.035	--	--	--	--	--	--	<0.019	<0.021	<0.0042	<0.0054	--	--	--	--	--	<0.010
Chlordane (technical)	mg/kg	--	--	--	--	--	<0.38	<0.19	<1.0	--	--	--	--	--	--	<0.19	<0.21	<0.042	<0.054	--	--	--	--	--	<0.10
delta-BHC	mg/kg	--	--	--	--	--	<0.038	<0.019	<0.035	--	--	--	--	--	--	<0.019	<0.021	<0.0042	<0.0054	--	--	--	--	--	<0.010
Dieldrin	mg/kg	--	--	--	--	--	<0.038	<0.019	<0.035	--	--	--	--	--	--	<0.019	<0.021	<0.0042	<0.0054	--	--	--	--	--	<0.010
Endosulfan I	mg/kg	--	--	--	--	--	<0.038	<0.019	<0.035	--	--	--	--	--	--	<0.019	<0.021	<0.0042	<0.0054	--	--	--	--	--	<0.010
Endosulfan II	mg/kg	--	--	--	--	--	<0.038	<0.019	<0.035	--	--	--	--	--	--	<0.019	<0.021	<0.0042	<0.0054	--	--	--	--	--	<0.010
Endosulfan sulfate	mg/kg	--	--	--	--	--	<0.038	<0.019	<0.035	--	--	--	--	--	--	<0.019	<0.021	<0.0042	<0.0054	--	--	--	--	--	<0.010
Endrin	mg/kg	--	--	--	--	--	<0.038	<0.019	<0.035	--	--	--	--	--	--	<0.019	<0.021	<0.0042	<0.0054	--	--	--	--	--	<0.010
Endrin ketone	mg/kg	--	--	--	--	--	<0.038	<0.019	<0.035	--	--	--	--	--	--	<0.019	<0.021	<0.0042	<0.0054	--	--	--	--	--	<0.010
gamma-BHC (Lindane)	mg/kg	--	--	--	--	--	<0.038	<0.019	<0.035	--	--	--	--	--	--	<0.019	<0.021	<0.0042	<0.0054	--	--	--	--	--	<0.010
Heptachlor	mg/kg	--	--	--	--	--	<0.038	<0.019	<0.035	--	--	--	--	--	--	<0.019	<0.021	<0.0042	<0.0054	--	--	--	--	--	<0.010
Heptachlor epoxide	mg/kg	--	--	--	--	--	<0.038	<0.019	<0.035	--	--	--	--	--	--	<0.019	<0.021	<0.0042	<0.0054	--	--	--	--	--	<0.010
Hexachlorobenzene	mg/kg	--	--	--	--	--	<0.038	<0.019	<0.035	--	--	--	--	--	--	<0.019	<0.021	<0.0042	<0.0054	--	--	--	--	--	<0.010
Methoxychlor	mg/kg	--	--	--	--	--	<0.038	<0.019	<0.069	--	--	--	--	--	--	<0.019	<0.021	<0.0042	<0.0054	--	--	--	--	--	<0.010
Polychlorinated Biphenyls																									
Aroclor 1016	mg/kg	<0.243	<0.162	<0.165	<0.154	<0.156	<0.138	<0.140	<0.129	<0.414	<0.326	<0.245	<0.172	<0.151	<0.152	<0.132	<0.138	<0.145	<0.209	<0.301	<0.209	<0.183	<0.136	<0.151	<0.134
Aroclor 1221	mg/kg	<0.243	<0.162	<0.165	<0.154	<0.156	<0.138	<0.140	<0.129	<0.414	<0.326	<0.245	<0.172	<0.151	<0.152	<0.132	<0.138	<0.145	<0.209	<0.301	<0.209	<0.183	<0.136	<0.151	<0.134
Aroclor 1232	mg/kg	<0.243	<0.162	<0.165	<0.154	<0.156	<0.138	<0.140	<0.129	<0.414	<0.326	<0.245	<0.172	<0.151	<0.152	<0.132	<0.138	<0.145	<0.209	<0.301	<0.209	<0.183	<0.136	<0.151	<0.134
Aroclor 1242	mg/kg	<0.243	<0.162	<0.165	<0.154	<0.156	<0.138	<0.140	<0.129	<0.414	<0.326	<0.245	<0.172	<0.151	<0.152	<0.132	<0.138	<0.145	<0.209	<0.301	<0.209	<0.183	<0.136	<0.151	<0.134
Aroclor 1248	mg/kg	<0.243	<0.162	<0.165	<0.154	<0.156	<0.138	<0.140	<0.129	<0.414	<0.326	<0.245	<0.172	<0.151	<0.152	<0.132	<0.138	<0.145	<0.209	<0.301	<0.209	<0.183	<0.136	<0.151	<0.134
Aroclor 1254	mg/kg	<0.243	<0.162	<0.165	<0.154	<0.156	<0.138	1.5	<0.129	<0.414	<0.326	<0.245	<0.172	<0.151	<0.152	<0.132	0.402	<0.145	<0.209	<0.301	<0.209	<0.183	<0.136	<0.151	<0.134
Aroclor 1260	mg/kg	<0.243	<0.162	<0.165	<0.154	<0.156	<0.138	0.564	<0.129	<0.414	<0.326	<0.245	<0.172	<0.151	<0.152	<0.132	0.181	<0.145	<0.209	<0.301	<0.209	<0.183	<0.136	<0.151	<0.134
Aroclor 1262	mg/kg	<0.243	<0.162	<0.165	<0.154	<0.156	<0.138	<0.140	<0.129	<0.414	<0.326	<0.245	<0.172	<0.151	<0.152	<0.132	<0.138	<0.145	<0.209	<0.301	<0.209	<0.183	<0.136	<0.151	<0.134
Aroclor 1268	mg/kg	<0.243	<0.162	<0.165	<0.154	<0.156	<0.138	<0.140	<0.129	<0.414	<0.326	<0.245	<0.172	<0.151	<0.152	<0.132	<0.138	<0.145	<0.209	<0.301	<0.209	<0.183	<0.136	<0.151	<0.134
Total PCBs	mg/kg	ND	ND	ND	ND	ND	ND	2.064	ND	ND	ND	ND	ND	ND	ND	ND	0.583	ND	ND	ND	ND	ND	ND	ND	ND
Total Petroleum Hydrocarbons	mg/kg	84.7	<58.3	84.4	<50.1	<49.7	826	202	79.3	572	443	79.2	<56.8	<43.5	<45.6	434	433	97	394	700	<68.3	<57.5	<41.2	<49.1	161
Volatile Organic Compounds (VOCs)																									
1,1,1,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-Chloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane - Screen	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Butanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Isopropyltoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-Pentanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Disulfide	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	M12 GZ019S10 1502187 Natural Organics 18 - 20 2/12/2015	M12 GZ019S13 1502187 Natural Organics 24 - 26 2/12/2015	M12 GZ019S14 1502187 Natural Organics 26 - 28 2/12/2015	M12 GZ019S16 1502207 Natural Clay 34 - 36 2/13/2015	M12 GZ019S17 1502207 Natural Clay 39 - 41 2/13/2015	M13 M13S01S02A 1501356 Fill 0 - 3.3 1/19/2015	M13 M13S02BS04A 1501356 Fill 3.3 - 6.6 1/19/2015	M13 M13S04BS05 1501395 Fill 6.6 - 10 1/20/2015	M13 M13S06S07 1501395 Fill 10 - 14 1/20/2015	M13 M13S08 1501395 Natural Organics 14 - 16 1/20/2015	M13 M13S09 1501395 Natural Organics 19 - 21 1/20/2015	M13 M13S10 1501395 Natural Organics 24 - 26 1/20/2015	M13 M13S11 1501395 Natural Sand/Gravel 29 - 31 1/20/2015	M13 M13S12S13 1501395 Natural Clay 34 - 38 1/20/2015	M14 M14S01S02A 1501545 Fill 0 - 3.3 1/29/2015	M14 M14S02BS04A 1501545 Fill 3.3 - 6.6 1/29/2015	M14 M14S04BS05 1501545 Fill 6.6 - 10 1/29/2015	M14 M14S06S07A 1501545 Fill 10 - 13 1/29/2015	M14 M14S07BS08 1501545 Natural Organics 13 - 16 1/29/2015	M14 M14S09 1501545 Natural Organics 19 - 21 1/29/2015	M14 M14S10 1501545 Natural Organics 24 - 26 1/29/2015	M14 M14S11 1501545 Natural Sand/Gravel 29 - 31 1/29/2015	M14 M14S12S13 1501545 Natural Clay 34 - 38 1/29/2015	M15 M15S01S02A 1501356 Fill 0 - 3.3 1/19/2015
Preliminary Disposal Facility Category		Hazardous Material Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type A
Chlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Diethyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Di-isopropyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethyl tertiary-butyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
tert-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tertiary-amyl methyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene O	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene P,M	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylenes (Total)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total VOCs	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds - Low Level Analysis																										
1,1,1,2-Tetrachloroethane	mg/kg	<0.0084	<0.0056	<0.0043	<0.0037	<0.0039	<0.0040	<0.0034	<0.0053	<0.0182	<0.0104	<0.0098	<0.0040	<0.0035	<0.0035	<0.0038	<0.0038	<0.0037	<0.0067	<0.0099	<0.0070	<0.0049	<0.0033	<0.0037	<0.0040
1,1,1-Trichloroethane	mg/kg	<0.0084	<0.0056	<0.0043	<0.0037	<0.0039	<0.0040	<0.0034	<0.0053	<0.0182	<0.0104	<0.0098	<0.0040	<0.0035	<0.0035	<0.0038	<0.0038	<0.0037	<0.0067	<0.0099	<0.0070	<0.0049	<0.0033	<0.0037	<0.0040
1,1,2,2-Tetrachloroethane	mg/kg	<0.0034	<0.0022	<0.0017	<0.0015	<0.0016	<0.0016	<0.0014	<0.0021	<0.0073	<0.0042	<0.0039	<0.0016	<0.0014	<0.0014	<0.0015	<0.0015	<0.0015	<0.0027	<0.0040	<0.0028	<0.0020	<0.0013	<0.0015	<0.0016
1,1,2-Trichloroethane	mg/kg	<0.0084	<0.0056	<0.0043	<0.0037	<0.0039	<0.0040	<0.0034	<0.0053	<0.0182	<0.0104	<0.0098	<0.0040	<0.0035	<0.0035	<0.0038	<0.0038	<0.0037	<0.0067	<0.0099	<0.0070	<0.0049	<0.0033	<0.0037	<0.0040
1,1-Dichloroethane	mg/kg	<0.0084	<0.0056	<0.0043	<0.0037	<0.0039	<0.0040	<0.0034	<0.0053	<0.0182	<0.0104	<0.0098	<0.0040	<0.0035	<0.0035	<0.0038	<0.0038	<0.0037	<0.0067	<0.0099	<0.0070	<0.0049	<0.0033	<0.0037	<0.0040
1,1-Dichloroethene	mg/kg	<0.0084	<0.0056	<0.0043	<0.0037	<0.0039	<0.0040	<0.0034	<0.0053	<0.0182	<0.0104	<0.0098	<0.0040	<0.0035	<0.0035	<0.0038	<0.0038	<0.0037	<0.0067	<0.0099	<0.0070	<0.0049	<0.0033	<0.0037	<0.0040
1,1-Dichloropropene	mg/kg	<0.0084	<0.0056	<0.0043	<0.0037	<0.0039	<0.0040	<0.0034	<0.0053	<0.0182	<0.0104	<0.0098	<0.0040	<0.0035	<0.0035	<0.0038	<0.0038	<0.0037	<0.0067	<0.0099	<0.0070	<0.0049	<0.0033	<0.0037	<0.0040
1,2,3-Trichlorobenzene	mg/kg	<0.0084	<0.0056	<0.0043	<0.0037	<0.0039	<0.0040	<0.0034	<0.0053	<0.0182	<0.0104	<0.0098	<0.0040	<0.0035	<0.0035	<0.0038	<0.0038	<0.0037	<0.0067	<0.0099	<0.0070	<0.0049	<0.0033	<0.0037	<0.0040
1,2,3-Trichloropropane	mg/kg	<0.0084	<0.0056	<0.0043	<0.0037	<0.0039	<0.0040	<0.0034	<0.0053	<0.0182	<0.0104	<0.0098	<0.0040	<0.0035	<0.0035	<0.0038	<0.0038	<0.0037	<0.0067	<0.0099	<0.0070	<0.0049	<0.0033	<0.0037	<0.0040
1,2,4-Trichlorobenzene	mg/kg	<0.0084	<0.0056	<0.0043	<0.0037	<0.0039	<0.0040	<0.0034	<0.0053	<0.0182	<0.0104	<0.0098	<0.0040	<0.0035	<0.0035	<0.0038	<0.0038	<0.0037	<0.0067	<0.0099	<0.0070	<0.0049	<0.0033	<0.0037	<0.0040
1,2,4-Trimethylbenzene	mg/kg	<0.0084	<0.0056	<0.0043	<0.0037	<0.0039	<0.0040	<0.0034	<0.0053	<0.0182	<0.0104	<0.0098	<0.0040	<0.0035	<0.0035	<0.0038	<0.0038	<0.0037	<0.0067	<0.0099	<0.0070	<0.0049	<0.0033	<0.0037	<0.0040
1,2-Dibromo-3-Chloropropane	mg/kg	<0.0084	<0.0056	<0.0043	<0.0037	<0.0039	<0.0040	<0.0034	<0.0053	<0.0182	<0.0104	<0.0098	<0.0040	<0.0035	<0.0035	<0.0038	<0.0038	<0.0037	<0.0067	<0.0099	<0.0070	<0.0049	<0.0033	<0.0037	<0.0040
1,2-Dibromoethane	mg/kg	<0.0084	<0.0056	<0.0043	<0.0037	<0.0039	<0.0040	<0.0034	<0.0053	<0.0182	<0.0104	<0.0098	<0.0040	<0.0035	<0.0035	<0.0038	<0.0038	<0.0037	<0.0067	<0.0099	<0.0070	<0.0049	<0.0033	<0.0037	<0.0040
1,2-Dichlorobenzene	mg/kg	<0.0084	<0.0056	<0.0043	<0.0037	<0.0039	<0.0040	<0.0034	<0.0053	<0.0182	<0.0104	<0.0098	<0.0040	<0.0035	<0.0035	<0.0038	<0.0038	<0.0037	<0.0067	<0.0099	<0.0070	<0.0049	<0.0033	<0.0037	<0.0040
1,2-Dichloroethane	mg/kg	<0.0084	<0.0056	<0.0043	<0.0037	<0.0039	<0.0040	<0.0034	<0.0053	<0.0182	<0.0104	<0.0098	<0.0040	<0.0035	<0.0035	<0.0038	<0.0038	<0.0037	<0.0067	<0.0099	<0.0070	<0.0049	<0.0033	<0.0037	<0.0040
1,2-Dichloropropane	mg/kg	<0.0084	<0.0056	<0.0043	<0.0037	<0.0039	<0.0040	<0.0034	<0.0053	<0.0182	<0.0104	<0.0098	<0.0040	<0.0035	<0.0035	<0.0038	<0.0038	<0.0037	<0.0067	<0.0099	<0.0070	<0.0049	<0.0033	<0.0037	<0.0040
1,3,5-Trimethylbenzene	mg/kg	<0.0084	<0.0056	<0.0043	<0.0037	<0.0039	<0.0040	<0.0034	<0.0053	<0.0182	<0.0104	<0.0098	<0.0040	<0.0035	<0.0035	<0.0038	<0.0038	<0.0037	<0.0067	<0.0099	<0.0070	<0.0049	<0.0033	<0.0037	<0.0040
1,3-Dichlorobenzene	mg/kg	<0.0084	<0.0056	<0.0043	<0.0037	<0.0039	<0.0040	<0.0034	<0.0053	<0.0182	<0.0104	<0.0098	<0.0040	<0.0035	<0.0035	<0.0038	<0.0038	<0.0037	<0.0067	<0.0099	<0.0070	<0.0049	<0.0033	<0.0037	<0.0040
1,3-Dichloropropane	mg/kg	<0.0084	<0.0056	<0.0043	<0.0037	<0.0039	<0.0040	<0.0034	<0.0053	<0.0182	<0.0104	<0.0098	<0.0040	<0.0035	<0.0035	<0.0038	<0.0038	<0.0037	<0.0067	<0.0099	<0.0070	<0.0049	<0.0033	<0.0037	<0.0040
1,4-Dichlorobenzene	mg/kg	<0.0084	<0.0056	<0.0043	<0.0037	<0.0039	<0.0040	<0.0034	<0.0053	<0.0182	<0.0104	<0.0098	<0.0040	<0.0035	<0.0035	<0.0038	<0.0038	<0.0037	<0.0067	<0.0099	<0.0070	<0.0049	<0.0033	<0.0037	<0.0040
1,4-Dioxane	mg/kg	<0.168	<0.112	<0.0857	<0.0739	<0.0776	<0.0793	<0.0677	<0.105	<0.365	<0.209	<0.196	<0.0793	<0.0704	<0.0695	<0.0761	<0.0759	<0.0739	<0.134	<0.198	<0.141	<0.0980	<0.0654	<0.0745	<0.0805
2,2-Dichloropropane	mg/kg	<0.0084	<0.0056	<0.0043	<0.0037	<0.0039	<0.0040	<0.0034	<0.0053	<0.0182	<0.0104	<0.0098	<0.0040	<0.0035	<0.0035	<0.0038	<0.0038	<0.0037	<0.0067	<0.0099	<0.0070	<0.0049	<0.0033	<0.0037	<0.0040
2-Butanone	mg/kg	<0.0168	<0.0112	<0.0086	<0.0074	<0.0078	<0.0079	<0.0068	<0.0105	<0.0365	0.0419	<0.0196	<0.0079	<0.0070	<0.0069	<0.0076	0.045	<0.0074	<0.0134	0.0235	<0.0141	<0.0098	<0.0065	<0.0075	<0.0080
2-Chlorotoluene	mg/kg	<0.0084	<0.0056	<0.0043	<0.0037	<0.0039	<0.0040	<0.0034	<0.0053	<0.0182	<0.0104	<0.0098	<0.0040	<0.0035	<0.0035	<0.0038	<0.0038	<0.0037	<0.0067	<0.0099	<0.0070	<0.0049	<0.0033	<0.0037	<0.0040
2-Hexanone	mg/kg	<0.0168	<0.0112	<0.0086	<0.0074	<0.0078	<0.0079	<0.0068	<0.0105	<0.0365	<0.0209	<0.0196	<0.0079	<0.0070	<0.0069	<0.0076	<0.0076	<0.0074	<0.0134	<0.0198	<0.0141	<0.0098	<0.0065	<0.0075	<0.0080
4-Chlorotoluene	mg/kg	<0.0084	<0.0056	<0.0043	<0.0037	<0.0039	<0.0040	<0.0034	<0.0053	<0.0182	<0.0104	<0.0098	<0.0040	<0.0035	<0.0035	<0.0038	<0.0038	<0.0037	<0.0067	<0.0099	<0.0070	<0.0049	<0.0033	<0.0037	<0.0040
4-Isopropyltoluene	mg/kg	<0.0084	<0.0056	<0.0043	<0.0037	<0.0039	<0.0040	<0.0034	<0.0053	<0.0182	<0.0104	<0.0098	<0.0040	<0.0035	<0.0035	<0.0038	<0.0038	<0.0037	<0.0067	<0.0099	<0.0070	<0.0049	<0.0033	<0.0037	<0.0040
4-Methyl-2-Pentanone	mg/kg	<0.0168	<0.0112	<0.0086	<0.0074	<0.0078	<0.0079	<0.0068	<0.0105	<0.0365	<0.0209	<0.0196	<0.0079	<0.0070	<0.0069	<0.0076	<0.0076	<0.0074	<0.0134	<0.0198	<0.0141	<0.0098	<0.0065	<0.0075	<0.0080
Acetone	mg/kg	0.0384	0.0184	<0.0086	<0.0074	0.011	<0.0079	<0.0068	0.016	<0.0365	0.352	0.0344	0.013	0.0155	0.0201	0.0088	0.22	0.0364	0.0306	0.115	0.0305	0.0237	0.0118	0.0128	0.0132
Benzene	mg/kg	<0.0084	<0.0056	<0.0043	<0.0037	<0.0039	<0.0040	<0.0034	<0.0053	<0.0182	<0.0104	<0.0098	<0.0040	<0.0035	<0.0035	<0.0038	<0.0038	<0.0037	<0.0067	<0.0099	<0.0070	<0.0049	<0.0033	<0.0037	<0.0040
Bromobenzene	mg/kg	<0.0084	<0.0056	<0.0043	<0.0037	<0.0039	<0.0040	<0.0034	<0.0053	<0.0182	<0.0104	<0.0098	<0.0040	<0.0035	<0.0035	<0.0038	<0.0038	<0.0037	<0.0067	<0.0099	<0.0070	<0.0049	<0.0033	<0.0037	<0.0040
Bromochloromethane	mg/kg	<0.0084	<0.0056	<0.0043	<0.0037	<0.0039	<0.0040	<0.0034	<0.0053	<0.0182	<0.0104	<0.0098	<0.0040	<0.0035	<0.0035	<0.0038	<0.0038	<0.0037	<0.0067	<0.0099	<0.0070	<0.0049	<0.0033	<0.0037	<0.0040
Bromodichloromethane	mg/kg	<0.0084	<0.0056	<0.0043	<0.0037	<0.0039	<0.0040	<0.0034	<0.0053	<0.0182	<0.0104	<0.0098	<0.0040	<0.0035	<0.0035	<0.0038	<0.0038	<0.0037	<0.0067	<0.0099	<0.0070	<0.0049	<0.0033	<0.0037	<0.0040
Bromoform	mg/kg	<0.0084	<0.0056	<0.0043	<0.0037	<0.0039	<0.0040	<0.0034	<0.0053	<0.0182	<0.0104	<0.0098	<0.0040	<0.0035	<0.0035	<0.0038	<0.0038	<0.0037	<0.0067	<0.0099	<0.0070	<0.0049	<0.0033	<0.0037	<0.0040
Bromomethane	mg/kg	<0.0168	<0.0112	<0.0086	<0.0074	<0.0078	<0.0079	<0.0068	<0.0105	<0.0365	<0.0209	<0.0196	<0.0079	<0.0070	<0.0069	<0.0076	<0.0076	<0.0074	<0.0134	<0.0198	<0.0141	<0.0098	<0.0065	<0.0075	<0.0080
Carbon Disulfide	mg/kg	0.0686	0.0218	0.0071	<0.0037	<0.0039	<0.0040	<0.0034	<0.0053	<0.0182	<0.0104	0.0126	0.0049	<0.0035	<0.0035	<0.0038	<0.0038	<0.0037	<0.0067	<0.0099	0.0108	0.0062	<0.0033	<0.0037	<0.0040
Carbon Tetrachloride	mg/kg	<0.0084	<0.0056	<0.0043	<0.0037	<0.0039	<0.0040	<0.0034	<0.0053	<0.0182	<0.0104	<0.0098	<0.0040	<0.0035	<0.0035	<0.0038	<0.0038	<0.0037	<0.0067	<0.0099	<0.0070	<0.0049	<0.0033	<0.0037	<0.0040
Chlorobenzene	mg/kg	<0.0084	<0.0056	<0.0043	<0.0037	<0.0039	<0.0040	<0.0034	<0.0053	<0.0182	<0.0104	<0.0098	<0.0040	<0.0035	<0.0035	<0.0038	<0.0038	<0.0037	<0.0067	<0.0099	<0.0070	<0.0049	<0.0033	<0.0037	<0.0040
Chloroethane	mg/kg	<0.0168	<0.0112	<0.0086	<0.0074	<0.0078	<0.0079	<0.0068	<0.0105	<0.0365	<0.0209	<0.0196	<0.0079	<0.0070	<0.0069	<0.0076	<0.0076	<0.0074	<0.0134	<0.0198	<0.0141	<0.0098	<0.0065	<0.0075	<0.0080
Chloroform	mg/kg	<0.0084	<0.0056	<0.0043	<0.0037	<0.0039	<0.0040	<0.0034	<0.0053	<0.0182	<0.0104	<0.0098	<0.0040	<0.0035	<0.0035	<0.0038	<0.0038	<0.0037	<0.0067	<0.0099	<0.0070	<0.0049	<0.0033	<0.0037	<0.0040
Chloromethane	mg/kg	<0.0168	<0.0112	<0.0086	<0.0074	<0.0078	<0.0079	<0.0068	<0.0105	<0.0365	<0.0209	<0.0196	<0.0079	<0.0070	<0.0069	<0.0076	<0.0076	<0.0074	<0.0134	<0.0198	<0.0141	<0.0098	<0.0065	<0.0075	<0.0080
cis-1,2-Dichloroethene	mg/kg	<0.0084	<0.0056	<0.0043	<0.0037	<0.0039	<0.0040	<0.0034	<0.0053	<0.0182	<0.0104	<0.0098	<0.0040	<0.0035	<0.0035	<0.0038	<0.0038	<0.0037	<0.0067	<0.0099	<0.0070	<0.0049	<0.0033	<0.0037	<0.0040
cis-1,3-Dichloropropene	mg/kg	<0.0084	<0.0056	<0.0043	<0.0037	<0.0039	<0.0040	<0.0034	<0.0053	<0.0182	<0.0104	<0.0098	<0.0040	<0.0035	<0.0035	<0.0038	<0.0038	<0.0037	<0.0067	<0.0099	<0.0070	<0.0049	<0.0033	<0.0037	<0.0040
Dibromochloromethane	mg/kg	<0.0034	<0.0022	<0.0017	<0.0015	<0.0016	<0.0016	<0.0014	<0.0021	<0.0073	<0.0042	<0.0039	<0.0016	<0.0014	<0.0014	<0.0015	<0.0015	<0.0015	<0.0027	<0.0040	<0.0028	<0.0020	<0.0013	<0.0015	<0.0016
Dibromomethane	mg/kg	<0.0084	<0.0056	<0.0043	<0.0037	<0.0039	<0.0040	<0.0034	<0.0053	<0.0182	<0.0104	<0.0098	<0.0040	<0.0035	<0.0035	<0.0038	<0.0038	<0.0037	<0.0067	<0.0099	<0.0070	<0.0049	<0.0033	<0.0037	<0.0040
Dichlorodifluoromethane	mg/kg	<0.0168	<0.0112	<0.0086	<0.0074	<0.0078	<0.0079	<0.0068	<0.0105	<0.0365	<0.0209	<0.0196	<0.0079	<0.0070	<0.0069	<0.0076	<0.0076	<0.0074	<0.0134	<0.0198	<0.0141	<0.0098	<0.0065	<0.0075	<0.0080
Diethyl Ether	mg/kg	<0.0084	<0.0056	<0.0043	<0.0037	<0.0039	<0.0040	<0.0034	<0.0053	<0.0182	<0.0104	<0.0098	<0.0040	<0.0035	<0.0035	<0.0038	<0.0038	<0.0037	<0.0067	<0.0099	<0.0070	<0.0049	<0.0033	<0.0037	<0.0040
Di-isopropyl ether	mg/kg	<0.0084	<0.0056	<0.0043	<0.0037	<0.0039	<0.0040	<0.0034	<0.0053	<0.0182	<0.0104	<0.0098	<0.0040	<0.0035	<0.0035	<0.0038	<0.0038	<0.0037	<0.0067	<0.0099	<0.0070	<0.0049	<0.0033	<0.0037	<0.0040
Ethyl tertiary-butyl ether	mg/kg	<0.0084	<0.0056	<0.0043	<0.0037	<0.0039	<0.0040	<0.0034	<0.0053	<0.0182	<0.0104	<0.0098	<0.0040	<0.0035	<0.0035	<0.0038	<0.0038	<0.0037	<0.0067	<0.0099	<0.0070	<0.0049	<0.0033	<0.0037	<0.0040
Ethylbenzene	mg/kg	<0.0084	<0.0056	<0.0043	<0.0037	<0.0039	<0.0040	<0.0034	<0.0053	<0.0182	<0.0104	<0.0098	<0.0040	<0.0035	<0.0035	<0.0038	<0.0038	<0.0037	<0.0067	<0.0099	<0.0070	<0.0049	<0.0033	<0.0037	<0.0040
Hexachlorobutadiene	mg/kg	<0.0084	<0.0056	<0.0043	<0.0037	<0.0039	<0.0040	<0.0034	<0.0053	<0.0182	<0.0104	<0.0098	<0.0040	<0.0035	<0.0035	<0.0038	<0.0038	<0.0037	<0.0067	<0.0099	<0.0070	<0.0049	<0.0033	<0.0037	<0.0040
Isopropylbenzene	mg/kg	<0.0084	<0.0056	<0.0043	<0.0037	<0.0039	<0.0040	<0.0034	<0.0053	<0.0182	<0.0104	<0.0098	<0.0040	<0.0035	<0.0035	<0.0038	<0.0038	<0.0037	<0.0067	<0.0099	<0.0070	<0.0049	<0.0033	<0.0037	<0.0040
Methyl tert-Butyl Ether	mg/kg	<0.0084	<0.0056	<0.0043	<0.0037	<0.0039	<0.0040	<0.0034	<0.0053	<0.0182	<0.0104	<0.0098	<0.0040	<0.0035	<0.0035	<0.0038	<0.0038	<0.0037	<0.0067	<0.0099	<0.0070	<0.0049	<0.0033	<0.0037	<0.0040
Methylene Chloride	mg/kg	<0.0168	<0.0112	<0.0086	<0.0074	<0.0078	<0.0079	<0.0068	<0.0105	<0.0365	<0.0209	<0.0196	<0.0079	<0.0070	<0.0069	<0.0076	<0.0076	<0.0074	<0.0134	<0.0198	<0.0141	<0.0098	<0.0065	<0.0075	<0.0080
Naphthalene	mg/kg	<0.0084	<0.0056	<0.0043	<0.0037	<0.0039	<0.0040	<0.0034	<0.0053	<0.0182	<0.0104	<0.0098	<0.0040	<0.0035	<0.0035	<0.0038	<0.0038	<0.0037	<0.0067	<0.0099	<0.0070	<0.0049	<0.0033	<0.0037	<0.0040
n-Butylbenzene	mg/kg	<0.0084	<0.0056	<0.0043	<0.0037	<0.0039	<0.0040	<0.0034	<0.0053	<0.0182	<0.0104	<0.0098	<0.0040	<0.0035	<0.0035	<0.0038	<0.0038	<0.0037	<0.0067	<0.0099	<0.0070	<0.0049	<0.0033	<0.0037	<0.0040
n-Propylbenzene	mg/kg	<0.0084	<0.0056	<0.0043	<0.0037	<0.0039	<0.0040	<0.0034	<0.0053	<0.0182	<0.0104	<0.0098	<0.0040	<0.0035	<0.0035	<0.0038	<0.0038	<0.0037	<0.0067	<0.0099	<0.0070	<0.0049	<0.0033	<0.0037	<0.0040
sec-Butylbenzene	mg/kg	<0.0084	<0.0056	<0.0043	<0.0037	<0.0039	<0.0040	<0.0034	<0.0053	<0.0182	<0.0104	<0.0098	<0.0040	<0.0035	<0.0035	<0.0038	<0.0038	<0.0037	<0.0067	<0.0099	<0.0070	<0.0049	<0.0033	<0.0037	<0.0040

J:\170,000-179,999\171521\171521-02.DEL\Supplemental Phase II\

Table 1
Soil Precharacterization Data

Wynn Resort Casino
Everett, Massachusetts

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	M12 GZ019S10 1502187 Natural Organics 18 - 20 2/12/2015	M12 GZ019S13 1502187 Natural Organics 24 - 26 2/12/2015	M12 GZ019S14 1502187 Natural Organics 26 - 28 2/12/2015	M12 GZ019S16 1502207 Natural Clay 34 - 36 2/13/2015	M12 GZ019S17 1502207 Natural Clay 39 - 41 2/13/2015	M13 M13S01S02A 1501356 Fill 0 - 3.3 1/19/2015	M13 M13S02BS04A 1501356 Fill 3.3 - 6.6 1/19/2015	M13 M13S04BS05 1501395 Fill 6.6 - 10 1/20/2015	M13 M13S06S07 1501395 Fill 10 - 14 1/20/2015	M13 M13S08 1501395 Natural Organics 14 - 16 1/20/2015	M13 M13S09 1501395 Natural Organics 19 - 21 1/20/2015	M13 M13S10 1501395 Natural Organics 24 - 26 1/20/2015	M13 M13S11 1501395 Natural Sand/Gravel 29 - 31 1/20/2015	M13 M13S12S13 1501395 Natural Clay 34 - 38 1/20/2015	M14 M14S01S02A 1501545 Fill 0 - 3.3 1/29/2015	M14 M14S02BS04A 1501545 Fill 3.3 - 6.6 1/29/2015	M14 M14S04BS05 1501545 Fill 6.6 - 10 1/29/2015	M14 M14S06S07A 1501545 Fill 10 - 13 1/29/2015	M14 M14S07BS08 1501545 Natural Organics 13 - 16 1/29/2015	M14 M14S09 1501545 Natural Organics 19 - 21 1/29/2015	M14 M14S10 1501545 Natural Organics 24 - 26 1/29/2015	M14 M14S11 1501545 Natural Sand/Gravel 29 - 31 1/29/2015	M14 M14S12S13 1501545 Natural Clay 34 - 38 1/29/2015	M15 M15S01S02A 1501356 Fill 0 - 3.3 1/19/2015
Preliminary Disposal Facility Category		Hazardous Material Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type A
Styrene	mg/kg	<0.0084	<0.0056	<0.0043	<0.0037	<0.0039	<0.0040	<0.0034	<0.0053	<0.0182	<0.0104	<0.0098	<0.0040	<0.0035	<0.0035	<0.0038	<0.0038	<0.0037	<0.0067	<0.0099	<0.0070	<0.0049	<0.0033	<0.0037	<0.0040
tert-Butylbenzene	mg/kg	<0.0084	<0.0056	<0.0043	<0.0037	<0.0039	<0.0040	<0.0034	<0.0053	<0.0182	<0.0104	<0.0098	<0.0040	<0.0035	<0.0035	<0.0038	<0.0038	<0.0037	<0.0067	<0.0099	<0.0070	<0.0049	<0.0033	<0.0037	<0.0040
Tertiary-amyl methyl ether	mg/kg	<0.0084	<0.0056	<0.0043	<0.0037	<0.0039	<0.0040	<0.0034	<0.0053	<0.0182	<0.0104	<0.0098	<0.0040	<0.0035	<0.0035	<0.0038	<0.0038	<0.0037	<0.0067	<0.0099	<0.0070	<0.0049	<0.0033	<0.0037	<0.0040
Tetrachloroethene	mg/kg	<0.0084	<0.0056	<0.0043	<0.0037	<0.0039	<0.0040	<0.0034	<0.0053	<0.0182	<0.0104	<0.0098	<0.0040	<0.0035	<0.0035	<0.0038	<0.0038	<0.0037	<0.0067	<0.0099	<0.0070	<0.0049	<0.0033	<0.0037	<0.0040
Tetrahydrofuran	mg/kg	<0.0084	<0.0056	<0.0043	<0.0037	<0.0039	<0.0040	<0.0034	<0.0053	<0.0182	<0.0104	<0.0098	<0.0040	<0.0035	<0.0035	<0.0038	<0.0038	<0.0037	<0.0067	<0.0099	<0.0070	<0.0049	<0.0033	<0.0037	<0.0040
Toluene	mg/kg	<0.0084	<0.0056	<0.0043	<0.0037	<0.0039	<0.0040	<0.0034	<0.0053	<0.0182	<0.0104	<0.0098	<0.0040	<0.0035	<0.0035	<0.0038	<0.0038	<0.0037	<0.0067	<0.0099	<0.0070	<0.0049	<0.0033	<0.0037	<0.0040
trans-1,2-Dichloroethene	mg/kg	<0.0084	<0.0056	<0.0043	<0.0037	<0.0039	<0.0040	<0.0034	<0.0053	<0.0182	<0.0104	<0.0098	<0.0040	<0.0035	<0.0035	<0.0038	<0.0038	<0.0037	<0.0067	<0.0099	<0.0070	<0.0049	<0.0033	<0.0037	<0.0040
trans-1,3-Dichloropropene	mg/kg	<0.0084	<0.0056	<0.0043	<0.0037	<0.0039	<0.0040	<0.0034	<0.0053	<0.0182	<0.0104	<0.0098	<0.0040	<0.0035	<0.0035	<0.0038	<0.0038	<0.0037	<0.0067	<0.0099	<0.0070	<0.0049	<0.0033	<0.0037	<0.0040
Trichloroethene	mg/kg	<0.0084	<0.0056	<0.0043	<0.0037	<0.0039	<0.0040	<0.0034	<0.0053	<0.0182	<0.0104	<0.0098	<0.0040	<0.0035	<0.0035	<0.0038	<0.0038	<0.0037	<0.0067	<0.0099	<0.0070	<0.0049	<0.0033	<0.0037	<0.0040
Trichlorofluoromethane	mg/kg	<0.0084	<0.0056	<0.0043	<0.0037	<0.0039	<0.0040	<0.0034	<0.0053	<0.0182	<0.0104	<0.0098	<0.0040	<0.0035	<0.0035	<0.0038	<0.0038	<0.0037	<0.0067	<0.0099	<0.0070	<0.0049	<0.0033	<0.0037	<0.0040
Vinyl Chloride	mg/kg	<0.0168	<0.0112	<0.0086	<0.0074	<0.0078	<0.0079	<0.0068	<0.0105	<0.0365	<0.0209	<0.0196	<0.0079	<0.0070	<0.0069	<0.0076	<0.0076	<0.0074	<0.0134	<0.0198	<0.0141	<0.0098	<0.0065	<0.0075	<0.0080
Xylene O	mg/kg	<0.0084	<0.0056	<0.0043	<0.0037	<0.0039	<0.0040	<0.0034	<0.0053	<0.0182	<0.0104	<0.0098	<0.0040	<0.0035	<0.0035	<0.0038	<0.0038	<0.0037	<0.0067	<0.0099	<0.0070	<0.0049	<0.0033	<0.0037	<0.0040
Xylene P,M	mg/kg	<0.0168	<0.0112	<0.0086	<0.0074	<0.0078	<0.0079	<0.0068	<0.0105	<0.0365	<0.0209	<0.0196	<0.0079	<0.0070	<0.0069	<0.0076	<0.0076	<0.0074	<0.0134	<0.0198	<0.0141	<0.0098	<0.0065	<0.0075	<0.0080
Xylenes (Total)	mg/kg	<0.0168	<0.0112	<0.0086	<0.0074	<0.0078	<0.0079	<0.0068	<0.0105	<0.0365	<0.0209	<0.0196	<0.0079	<0.0070	<0.0069	<0.0076	<0.0076	<0.0074	<0.0134	<0.0198	<0.0141	<0.0098	<0.0065	<0.0075	<0.0080
Total VOCs (Low Level)	mg/kg	0.107	0.0402	0.0071	ND	0.011	ND	ND	0.016	ND	0.3939	0.047	0.0179	0.0155	0.0201	0.0088	0.265	0.0364	0.0306	0.1385	0.0413	0.0299	0.0118	0.0128	0.0132
Semi-Volatile Organic Compounds																									
1,2,4-Trichlorobenzene	mg/kg	<1.58	<1.18	<1.08	<1.03	<0.931	<0.866	<0.936	<0.835	<2.58	<2.18	<1.62	<1.23	<0.990	<0.987	<4.41	<4.66	<0.985	<1.40	<1.76	<1.42	<1.21	<0.886	<1.02	<0.932
1,2-Dichlorobenzene	mg/kg	<1.58	<1.18	<1.08	<1.03	<0.931	<0.866	<0.936	<0.835	<2.58	<2.18	<1.62	<1.23	<0.990	<0.987	<4.41	<4.66	<0.985	<1.40	<1.76	<1.42	<1.21	<0.886	<1.02	<0.932
1,3-Dichlorobenzene	mg/kg	<1.58	<1.18	<1.08	<1.03	<0.931	<0.866	<0.936	<0.835	<2.58	<2.18	<1.62	<1.23	<0.990	<0.987	<4.41	<4.66	<0.985	<1.40	<1.76	<1.42	<1.21	<0.886	<1.02	<0.932
1,4-Dichlorobenzene	mg/kg	<0.793	<0.593	<0.544	<0.518	<0.467	<0.435	<0.469	<0.419	<1.29	<1.09	<0.811	<0.616	<0.497	<0.495	<2.21	<2.34	<0.494	<0.701	<0.884	<0.710	<0.609	<0.444	<0.512	<0.467
2,4,5-Trichlorophenol	mg/kg	<1.58	<1.18	<1.08	<1.03	<0.931	<0.866	<0.936	<0.835	<2.58	<2.18	<1.62	<1.23	<0.990	<0.987	<4.41	<4.66	<0.985	<1.40	<1.76	<1.42	<1.21	<0.886	<1.02	<0.932
2,4,6-Trichlorophenol	mg/kg	<1.58	<1.18	<1.08	<1.03	<0.931	<0.866	<0.936	<0.835	<2.58	<2.18	<1.62	<1.23	<0.990	<0.987	<4.41	<4.66	<0.985	<1.40	<1.76	<1.42	<1.21	<0.886	<1.02	<0.932
2,4-Dichlorophenol	mg/kg	<1.58	<1.18	<1.08	<1.03	<0.931	<0.866	<0.936	<0.835	<2.58	<2.18	<1.62	<1.23	<0.990	<0.987	<4.41	<4.66	<0.985	<1.40	<1.76	<1.42	<1.21	<0.886	<1.02	<0.932
2,4-Dimethylphenol	mg/kg	<1.58	<1.18	<1.08	<1.03	<0.931	<0.866	<0.936	<0.835	<2.58	<2.18	<1.62	<1.23	<0.990	<0.987	<4.41	<4.66	<0.985	<1.40	<1.76	<1.42	<1.21	<0.886	<1.02	<0.932
2,4-Dinitrophenol	mg/kg	<7.93	<5.93	<5.44	<5.18	<4.67	<4.35	<4.69	<4.19	<12.9	<10.9	<8.11	<6.16	<4.97	<4.95	<22.1	<23.4	<4.94	<7.01	<8.84	<7.10	<6.09	<4.44	<5.12	<4.67
2,4-Dinitrotoluene	mg/kg	<1.58	<1.18	<1.08	<1.03	<0.931	<0.866	<0.936	<0.835	<2.58	<2.18	<1.62	<1.23	<0.990	<0.987	<1.11	<1.17	<0.985	<1.40	<1.76	<1.42	<1.21	<0.886	<1.02	<0.932
2,6-Dinitrotoluene	mg/kg	<1.58	<1.18	<1.08	<1.03	<0.931	<0.866	<0.936	<0.835	<2.58	<2.18	<1.62	<1.23	<0.990	<0.987	<4.41	<4.66	<0.985	<1.40	<1.76	<1.42	<1.21	<0.886	<1.02	<0.932
2-Chloronaphthalene	mg/kg	<1.58	<1.18	<1.08	<1.03	<0.931	<0.866	<0.936	<0.835	<2.58	<2.18	<1.62	<1.23	<0.990	<0.987	<4.41	<4.66	<0.985	<1.40	<1.76	<1.42	<1.21	<0.886	<1.02	<0.932
2-Chlorophenol	mg/kg	<1.58	<1.18	<1.08	<1.03	<0.931	<0.866	<0.936	<0.835	<2.58	<2.18	<1.62	<1.23	<0.990	<0.987	<4.41	<4.66	<0.985	<1.40	<1.76	<1.42	<1.21	<0.886	<1.02	<0.932
2-Methylnaphthalene	mg/kg	<1.58	<1.18	<1.08	<1.03	<0.931	<0.866	<0.936	<0.835	<2.58	<2.18	<1.62	<1.23	<0.990	<0.987	<4.41	<4.66	<0.985	<1.40	<1.76	<1.42	<1.21	<0.886	<1.02	<0.932
2-Methylphenol	mg/kg	<1.58	<1.18	<1.08	<1.03	<0.931	<0.866	<0.936	<0.835	<2.58	<2.18	<1.62	<1.23	<0.990	<0.987	<4.41	<4.66	<0.985	<1.40	<1.76	<1.42	<1.21	<0.886	<1.02	<0.932
2-Nitrophenol	mg/kg	<1.58	<1.18	<1.08	<1.03	<0.931	<0.866	<0.936	<0.835	<2.58	<2.18	<1.62	<1.23	<0.990	<0.987	<4.41	<4.66	<0.985	<1.40	<1.76	<1.42	<1.21	<0.886	<1.02	<0.932
3,3´-Dichlorobenzidine	mg/kg	<3.17	<2.37	<2.17	<2.07	<1.86	<1.74	<1.87	<1.67	<5.16	<4.37	<3.24	<2.46	<1.98	<1.98	<8.84	<9.34	<1.97	<2.80	<3.53	<2.84	<2.43	<1.77	<2.05	<1.87
3+4-Methylphenol	mg/kg	<3.17	<2.37	<2.17	<2.07	<1.86	<1.74	<1.87	<1.67	<5.16	<4.37	<3.24	<2.46	<1.98	<1.98	<8.84	<9.34	<1.97	<2.80	<3.53	<2.84	<2.43	<1.77	<2.05	<1.87
4-Bromophenyl-phenylether	mg/kg	<1.58	<1.18	<1.08	<1.03	<0.931	<0.866	<0.936	<0.835	<2.58	<2.18	<1.62	<1.23	<0.990	<0.987	<4.41	<4.66	<0.985	<1.40	<1.76	<1.42	<1.21	<0.886	<1.02	<0.932
4-Chloroaniline	mg/kg	<3.17	<2.37	<2.17	<2.07	<1.86	<1.74	<1.87	<1.67	<5.16	<4.37	<3.24	<2.46	<1.98	<1.98	<2.21	<2.34	<1.97	<2.80	<3.53	<2.84	<2.43	<1.77	<2.05	<1.87
4-Nitrophenol	mg/kg	<7.93	<5.93	<5.44	<5.18	<4.67	<4.35	<4.69	<4.19	<12.9	<10.9	<8.11	<6.16	<4.97	<4.95	<22.1	<23.4	<4.94	<7.01	<8.84	<7.10	<6.09	<4.44	<5.12	<4.67
Acenaphthene	mg/kg	<1.58	<1.18	<1.08	<1.03	<0.931	<0.866	<0.936	<0.835	<2.58	<2.18	<1.62	<1.23	<0.990	<0.987	<4.41	<4.66	<0.985	<1.40	<1.76	<1.42	<1.21	<0.886	<1.02	<0.932
Acenaphthylene	mg/kg	<1.58	<1.18	<1.08	<1.03	<0.931	<0.866	<0.936	<0.835	<2.58	<2.18	<1.62	<1.23	<0.990	<0.987	<4.41	<4.66	<0.985	<1.40	<1.76	<1.42	<1.21	<0.886	<1.02	<0.932
Acetophenone	mg/kg	<3.17	<2.37	<2.17	<2.07	<1.86	<1.74	<1.87	<1.67	<5.16	<4.37	<3.24	<2.46	<1.98	<1.98	<8.84	<9.34	<1.97	<2.80	<3.53	<2.84	<2.43	<1.77	<2.05	<1.87
Aniline	mg/kg	<7.93	<5.93	<5.44	<5.18	<4.67	<4.35	<4.69	<4.19	<12.9	<10.9	<8.11	<6.16	<4.97	<4.95	<22.1	<23.4	<4.94	<7.01	<8.84	<7.10	<6.09	<4.44	<5.12	<4.67
Anthracene	mg/kg	<1.58	<1.18	<1.08	<1.03	<0.931	<0.866	<0.936	<0.835	<2.58	<2.18	<1.62	<1.23	<0.990	<0.987	<4.41	<4.66	<0.985	<1.40	<1.76	<1.42	<1.21	<0.886	<1.02	<0.932
Azobenzene	mg/kg	<1.58	<1.18	<1.08	<1.03	<0.931	<0.866	<0.936	<0.835	<2.58	<2.18	<1.62	<1.23	<0.990	<0.987	<4.41	<4.66	<0.985	<1.40	<1.76	<1.42	<1.21	<0.886	<1.02	<0.932
Benzo(a)anthracene	mg/kg	<1.58	<1.18	<1.08	<1.03	<0.931	1.48	2.61	<0.835	<2.58	<2.18	<1.62	<1.23	<0.990	<0.987	<4.41	<4.66	<0.985	<1.40	<1.76	<1.42	<1.21	<0.886	<1.02	1.42
Benzo(a)pyrene	mg/kg	<0.793	<0.593	<0.544	<0.518	<0.467	1.37	2.45	<0.419	<1.29	<1.09	<0.811	<0.616	<0.497	<0.495	<2.21	<2.34	<0.494	<0.701	<0.884	<0.710	<0.609	<0.444	<0.512	1.79
Benzo(b)fluoranthene	mg/kg	<1.58	<1.18	<1.08	<1.03	<0.931	2.01	2.87	<0.835	<2.58	<2.18	<1.62	<1.23	<0.990	<0.987	<4.41	<4.66	<0.985	<1.40	<1.76	<1.42	<1.21	<0.886	<1.02	2.22
Benzo(g,h,i)perylene	mg/kg	<1.58	<1.18	<1.08	<1.03	<0.931	<0.866	<0.936	<0.835	<2.58	<2.18	<1.62	<1.23	<0.990	<0.987	<4.41	<4.66	<0.985	<1.40	<1.76	<1.42	<1.21	<0.886	<1.02	<0.932
Benzo(k)fluoranthene	mg/kg	<1.58	<1.18	<1.08	<1.03	<0.931	1.32	2.95	<0.835	<2.58	<2.18	<1.62	<1.23	<0.990	<0.987	<4.41	<4.66	<0.985	<1.40	<1.76	<1.42	<1.21	<0.886	<1.02	2.5
bis(2-Chloroethoxy)methane	mg/kg	<1.58	<1.18	<1.08	<1.03	<0.931	<0.866	<0.936	<0.835	<2.58	<2.18	<1.62	<1.23	<0.990	<0.987	<4.41	<4.66	<0.985	<1.40	<1.76	<1.42	<1.21	<0.886	<1.02	<0.932
bis(2-Chloroethyl)ether	mg/kg	<0.793	<0.593	<0.544	<0.518	<0.467	<0.435	<0.469	<0.419	<1.29	<1.09	<0.811	<0.616	<0.497	<0.495	<0.437	<0.462	<0.494	<0.139	<0.442	<0.710	<0.609	<0.444	<0.512	<0.467
bis(2-chloroisopropyl)Ether	mg/kg	<0.793	<0.593	<0.544	<0.518	<0.467	<0.435	<0.469	<0.419	<1.29	<1.09	<0.811	<0.616	<0.497	<0.495	<0.437	<0.462	<0.494	<0.139	<0.442	<0.710	<0.609	<0.444	<0.512	<0.467
bis(2-Ethylhexyl)phthalate	mg/kg	<1.58	<1.18	<1.08	<1.03	<0.931	<0.866	1.35	<0.835	<2.58	<2.18	<1.62	<1.23	<0.990	<0.987	<4.41	<4.66	<0.985	<1.40	<1.76	<1.42	<1.21	<0.886	<1.02	<0.932
Butylbenzylphthalate	mg/kg	<1.58	<1.18	<1.08	<1.03	<0.931	<0.866	<0.936	<0.835	<2.58	<2.18	<1.62	<1.23	<0.990	<0.987	<4.41	<4.66	<0.985	<1.40	<1.76	<1.42	<1.21	<0.886	<1.02	<0.932
Chrysene	mg/kg	<0.793	<0.593	<0.544	<0.518	<0.467	1.5	2.42	<0.419	<1.29	<1.09	<0.811	<0.616	<0.497	<0.495	<2.21	2.51	<0.494	<0.701	<0.884	<0.710	<0.609	<0.444	<0.512	2.35
Dibenzo(a,h)Anthracene	mg/kg	<0.793	<0.593	<0.544	<0.518	<0.467	<0.435	<0.469	<0.419	<1.29	<1.09	<0.811	<0.616	<0.497	<0.495	<2.21	<2.34	<0.494	<0.701	<0.884	<0.710	<0.609	<0.444	<0.512	<0.467
Dibenzofuran	mg/kg	<1.58	<1.18	<1.08	<1.03	<0.931	<0.866	<0.936	<0.835	<2.58	<2.18	<1.62	<1.23	<0.990	<0.987	<4.41	<4.66	<0.985	<1.40	<1.76	<1.42	<1.21	<0.886	<1.02	<0.932
Diethylphthalate	mg/kg	<1.58	<1.18	<1.08	<1.03	<0.931	<0.866	<0.936	<0.835	<2.58	<2.18	<1.62	<1.23	<0.990	<0.987	<4.41	<4.66	<0.985	<1.40	<1.76	<1.42	<1.21	<0.886	<1.02	<0.932
Dimethylphthalate	mg/kg	<1.58	<1.18	<1.08	<1.03	<0.931	<0.866	<0.936	<0.835	<2.58	<2.18	<1.62	<1.23	<0.990	<0.987	<4.41	<4.66	<0.985	<1.40	<1.76	<1.42	<1.21	<0.886	<1.02	<0.932
Di-n-butylphthalate	mg/kg	<1.58	<1.18	<1.08	<1.03	<0.931	<0.866	<0.936	<0.835	<2.58	<2.18	<1.62	<1.23	<0.990	<0.987	<4.41	<4.66	<0.985	<1.40	<1.76	<1.42	<1.21	<0.886	<1.02	<0.932
Di-n-octylphthalate	mg/kg	<1.58	<1.18	<1.08	<1.03	<0.931	<0.866	<0.936	<0.835	<2.58	<2.18	<1.62	<1.23	<0.990	<0.987	<4.41	<4.66	<0.985	<1.40	<1.76	<1.42	<1.21	<0.886	<1.02	<0.932
Fluoranthene	mg/kg	<1.58	<1.18	<1.08	<1.03	<0.931	3.58	6.78	<0.835	<2.58	<2.18	<1.62	<1.23	<0.990	<0.987	<4.41	4.98	<0.985	<1.40	<1.76	<1.42	<1.21	<0.886	<1.02	5.72
Fluorene	mg/kg	<1.58	<1.18	<1.08	<1.03	<0.931	<0.866	<0.936	<0.835	<2.58	<2.18	<1.62	<1.23	<0.990	<0.987	<4.41	<4.66	<0.985	<1.40	<1.76	<1.42	<1.21	<0.886	<1.02	<0.932
Hexachlorobenzene	mg/kg	<0.793	<0.593	<0.544	<0.518	<0.467	<0.435	<0.469	<0.419	<1.29	<1.09	<0.811	<0.616	<0.497	<0.495	<1.11	<1.17	<0.494	<0.701	<0.884	<0.710	<0.609	<0.444	<0.512	<0.467
Hexachlorobutadiene	mg/kg	<1.58	<1.18	<1.08	<1.03	<0.931	<0.866	<0.936	<0.835	<2.58	<2.18	<1.62	<1.23	<0.990	<0.987	<4.41	<4.66	<0.985	<1.40	<1.76	<1.42	<1.21	<0.886	<1.02	<0.932
Hexachloroethane	mg/kg	<1.58	<1.18	<1.08	<1.03	<0.931	<0.866	<0.936	<0.835	<2.58	<2.18	<1.62	<1.23	<0.990	<0.987	<2.21	<2.34	<0.985	<1.40	<1.76	<1.42	<1.21	<0.886	<1.02	<0.932
Indeno(1,2,3-cd)Pyrene	mg/kg	<1.58	<1.18	<1.08	<1.03	<0.931	<0.866	<0.936	<0.835	<2.58	<2.18	<1.62	<1.23	<0.990	<0.987	<4.41	<4.66	<0.985	<1.40	<1.76	<1.42	<1.21	<0.886	<1.02	<0.932
Isophorone	mg/kg	<1.58	<1.18	<1.08	<1.03	<0.931	<0.866	<0.936	<0.835	<2.58	<2.18	<1.62	<1.23	<0.990	<0.987	<4.41	<4.66	<0.985	<1.40	<1.76	<1.42	<1.21	<0.886	<1.02	<0.932
Naphthalene	mg/kg	<1.58	<1.18	<1.08	<1.03	<0.931	<0.866	<0.936	<0.835	<2.58	<2.18	<1.62	<1.23	<0.990	<0.987	<4.41	<4.66	<0.985	<1.40	<1.76	<1.42	<1.21	<0.886	<1.02	<0.932
Nitrobenzene	mg/kg	<1.58	<1.18	<1.08	<1.03	<0.931	<0.866	<0.936	<0.835	<2.58	<2.18	<1.62	<1.23	<0.990	<0.987	<4.41	<4.66	<0.985	<1.40	<1.76	<1.42	<1.21	<0.886	<1.02	<0.932
N-Nitrosodimethylamine	mg/kg	<1.58	<1.18	<1.08	<1.03	<0.931	<0.866	<0.936	<0.835	<2.58	<2.18	<1.62	<1.23	<0.990	<0.987	<4.41	<4.66	<0.985	<1.40	<1.76	<1.42	<1.21	<0.886	<1.02	<0.932
Pentachlorophenol	mg/kg	<7.93	<5.93	<5.44	<5.18	<4.67	<4.35	<4.69	<4.19	<12.9	<10.9	<8.11	<6.16	<4.97	<4.95	<4.41	<4.66	<4.94	<7.01	<8.84	<7.10	<6.09	<4.44	<5.12	<4.67
Phenanthrene	mg/kg	<1.58	<1.18	<1.08	<1.03	<0.931	2.32	3.13	<0.835	<2.58	<2.18	<1.62	<1.23	<0.990	<0.987	<4.41	5.87	<0.985	<1.40	<1.76	<1.42	<1.21	<0.886	<1.02	2.97
Phenol	mg/kg	<1.58	<1.18	<1.08	<1.03	<0.931	<0.866	<0.936	<0.835	<2.58	<2.18	<1.62	<1.23	<0.990	<0.987	<4.41	<4.66	<0.985	<1.40	<1.76	<1.42	<1.21	<0.886	<1.02	<0.932
Pyrene	mg/kg	<1.58	<1.18	<1.08	<1.03	<0.931	3.75	6.81	<0.835	<2.58	<2.18	<1.62	<1.23	<0.990	<0.987	<4.41	4.77	<0.985	<1.40	<1.76	<1.42	<1.21	<0.886	<1.02	3.58
Total SVOCs	mg/kg	ND	ND	ND	ND	ND	17.33	31.37	ND	ND	ND	ND	ND	ND	ND	ND	18.13	ND	ND	ND	ND	ND	ND	ND	22.55
Classic Chemistry																									
Corrosivity (pH)	S.U.	7.54	7.82	7.58	7.07	7.12	8.63	8.94	6.39	4.37	5.87	7.54	7.4	4	5.45	8.71	7.91	10.8	4.3	5.27	7.67	7.55	4.31	6.67	7.91
Conductivity	umhos/cm	8250	5590	5560	4000	4250	329	1140	1430	8170	8020	9500	6670	7620	2890	290	544	1280	4670	8660	10900	6690	4330	6330	1590
Flashpoint	°F	--	--	--	--	--	>200	>200	>200	--	--	--	--	--	--	>200	>200	>200	>200	--	--	--	--	--	>200
Reactive Cyanide	mg/kg	--	--	--	--	--	<2.0	<2.0	<2.0	--	--	--	--	--	--	<2.0	<2.0	<2.0	<2.0	--	--	--	--	--	<2.0
Reactive Sulfide	mg/kg	--	--	--	--	--	<2.0	<2.0	<2.0	--	--	--	--	--	--	<2.0	<2.0	<2.0	<2.0	--	--	--	--	--	<2.0

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	M15 M15S02BS04A 1501356 Fill 3.3 - 6.6 1/19/2015	M15 M15S04B 1501356 Fill 6.6 - 8 1/19/2015	M15 M15S09S10 1501356 Natural Organics 16 - 20 1/19/2015	M15 M15S11 1501356 Natural Organics 20 - 22 1/19/2015	M15 M15S12 1501356 Natural Organics 24 - 26 1/19/2015	M15 M15S13 1501356 Natural Sand/Gravel 29 - 31 1/19/2015	M15 M15S14S15 1501356 Natural Clay 34 - 38 1/19/2015	M16 M16S01S02A 1501330 Fill 0 - 3.3 1/16/2015	M16 M16S02BS04A 1501330 Fill 3.3 - 6.6 1/16/2015	M16 M16S04B 1501330 Fill 6.6 - 8 1/16/2015	M16 M16S05S06 1501356 Natural Organics 8 - 12 1/19/2015	M16 M16S07 1501356 Natural Organics 14 - 16 1/19/2015	M16 M16S08 1501356 Natural Organics 19 - 21 1/19/2015	M16 M16S09 1501356 Natural Organics 24 - 26 1/19/2015	M16 M16S10 1501356 Natural Organics 29 - 31 1/19/2015	M16 M16S11S12 1501356 Natural Sand/Gravel 34 - 38 1/19/2015	M17 M17S01S02A 1501563 Fill 0 - 3.3 1/30/2015	M17 M17S02BS04A 1501563 Fill 3.3 - 6.6 1/30/2015	M17 M17S04BS05 1501563 Fill 6.6 - 9 1/30/2015	M17 M17S06 1501563 Natural Organics 10 - 12 1/30/2015	M17 M17S07 1501563 Natural Organics 14 - 16 1/30/2015	M17 M17S08 1501563 Natural Organics 19 - 21 1/30/2015	M17 M17S09 1501563 Natural Organics 24 - 26 1/30/2015	M17 M17S10 1501563 Natural Organics 29 - 31 1/30/2015
Preliminary Disposal Facility Category		Hazardous Material Type B	Hazardous Material Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	Uncontaminated	Uncontaminated	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type B-1
RCRA 8 Metals	**Units**																									
Arsenic	mg/kg	22.4	15.2	<10.6	<10.5	<9.27	<7.79	<7.55	<7.31	103	44.1	30.6	<20.1	<8.98	9.58	<7.73	<7.64	<6.57	26.5	47.6	62.1	<16.2	<9.44	9.78	<7.69
Barium	mg/kg	243	79.3	35.6	36.4	36.5	8.17	71.4	25.8	105	50.1	27	42.3	36.1	37.4	9.51	8.88	15.8	30.2	45.9	39	19.6	27.1	34.2	19
Cadmium	mg/kg	7.83	8.37	<2.12	<2.11	<1.85	<1.56	<1.51	<1.46	1.95	2.47	<2.06	<4.03	<1.80	<1.83	<1.55	<1.53	<1.31	<1.46	<1.56	<2.37	<3.25	<1.89	<1.83	<1.54
Chromium	mg/kg	19.1	10.3	32.5	33.1	32.3	11.8	39.5	20.5	7.18	10.4	22.6	43.2	33.6	33.7	9.01	8.69	13.7	12.5	11.8	26.3	22.9	25.5	30.6	18.2
Lead	mg/kg	5310	2720	<21.2	<21.1	<18.5	<15.6	<15.1	21	173	99.5	148	<40.3	<18.0	<18.3	<15.5	<15.3	<13.1	51.3	104	205	<32.5	<18.9	<18.3	<15.4
Selenium	mg/kg	<7.69	<7.05	<10.6	<10.5	<9.27	<12.5	<7.55	<7.31	<8.36	<7.57	<16.5	<10.1	<8.98	<9.14	<12.4	<12.2	<6.57	<7.32	<7.82	<11.8	<16.2	<9.44	<9.16	43.7
Silver	mg/kg	3.59	4.54	<2.12	<2.11	<1.85	<1.56	<1.51	<1.46	7	3.12	<2.06	<4.03	<1.80	<1.83	<1.55	<1.53	<1.31	<1.46	1.71	<2.37	<3.25	<1.89	<1.83	<1.54
Mercury	mg/kg	1.33	1.36	<0.050	<0.048	<0.044	<0.039	<0.036	0.059	0.355	0.174	0.07	<0.091	<0.046	<0.046	<0.038	<0.039	<0.030	1.07	1.05	0.519	<0.082	<0.045	<0.041	<0.043
Metals by Toxicity Characteristic Leaching Procedure (TCLP)																										
Arsenic	mg/L	--	--	--	--	--	--	--	--	0.064	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead	mg/L	24.8	0.336	--	--	--	--	--	--	0.203	--	0.287	--	--	--	--	--	--	--	0.348	0.631	--	--	--	--	--
Selenium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.050
Mercury	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Herbicides																										
2,4,5-T	mg/kg	<0.48	<0.24	<0.068	--	--	--	--	<0.057	<0.064	<0.062	--	--	--	--	--	--	<0.27	<0.28	<0.063	--	--	--	--	--	--
2,4-D	mg/kg	<2.4	<1.2	<0.34	--	--	--	--	<0.057	<0.064	<0.062	--	--	--	--	--	--	<0.27	<0.28	<0.063	--	--	--	--	--	--
2,4-DB	mg/kg	<0.18	<0.089	<0.025	--	--	--	--	<0.057	<0.064	<0.062	--	--	--	--	--	--	<0.27	<0.28	<0.063	--	--	--	--	--	--
Dalapon	mg/kg	<14	<7.1	<2.0	--	--	--	--	<0.68	<0.77	<0.74	--	--	--	--	--	--	<3.3	<3.4	<0.75	--	--	--	--	--	--
Dicamba	mg/kg	<0.71	<0.36	<0.10	--	--	--	--	<0.057	<0.064	<0.062	--	--	--	--	--	--	<0.27	<0.28	<0.063	--	--	--	--	--	--
Dichlorprop	mg/kg	<1.5	<0.77	<0.22	--	--	--	--	<0.057	<0.064	<0.062	--	--	--	--	--	--	<0.27	<0.28	<0.063	--	--	--	--	--	--
Dinoseb	mg/kg	<2.4	<1.2	<0.34	--	--	--	--	<0.34	<0.39	<0.37	--	--	--	--	--	--	<1.6	<1.7	<0.38	--	--	--	--	--	--
MCPA	mg/kg	<600	<300	<84	--	--	--	--	<14	<15	<15	--	--	--	--	--	--	<65	<67	<15	--	--	--	--	--	--
MCPP	mg/kg	<600	<300	<84	--	--	--	--	<14	<15	<15	--	--	--	--	--	--	<65	<67	<15	--	--	--	--	--	--
Silvex (2,4,5-TP)	mg/kg	<0.48	<0.24	<0.068	--	--	--	--	<0.057	<0.064	<0.062	--	--	--	--	--	--	<0.27	<0.28	<0.063	--	--	--	--	--	--
Pesticides																										
4,4'-DDD	mg/kg	<0.020	<0.0096	<0.014	--	--	--	--	<0.0098	<0.011	<0.0042	--	--	--	--	--	--	<0.0096	<0.0020	<0.0022	--	--	--	--	--	--
4,4'-DDE	mg/kg	<0.020	<0.0096	<0.014	--	--	--	--	<0.0098	<0.011	<0.0042	--	--	--	--	--	--	<0.0096	<0.0020	<0.0022	--	--	--	--	--	--
4,4'-DDT	mg/kg	<0.020	<0.0096	<0.014	--	--	--	--	<0.0098	<0.011	<0.0042	--	--	--	--	--	--	<0.0096	<0.0020	<0.0022	--	--	--	--	--	--
Aldrin	mg/kg	<0.020	<0.0096	<0.014	--	--	--	--	<0.0098	<0.011	<0.0042	--	--	--	--	--	--	<0.0096	<0.0020	<0.0022	--	--	--	--	--	--
alpha-BHC	mg/kg	<0.020	<0.0096	<0.014	--	--	--	--	<0.0098	<0.011	<0.0042	--	--	--	--	--	--	<0.0096	<0.0020	<0.0022	--	--	--	--	--	--
beta-BHC	mg/kg	<0.020	<0.0096	<0.014	--	--	--	--	<0.0098	<0.011	<0.0042	--	--	--	--	--	--	<0.0096	<0.0020	<0.0022	--	--	--	--	--	--
Chlordane (technical)	mg/kg	<0.20	<0.096	<0.14	--	--	--	--	<0.098	<0.11	<0.042	--	--	--	--	--	--	<0.096	<0.020	<0.022	--	--	--	--	--	--
delta-BHC	mg/kg	<0.020	<0.0096	<0.014	--	--	--	--	<0.0098	<0.011	<0.0042	--	--	--	--	--	--	<0.0096	<0.0020	<0.0022	--	--	--	--	--	--
Dieldrin	mg/kg	<0.020	<0.0096	<0.014	--	--	--	--	<0.0098	<0.011	<0.0042	--	--	--	--	--	--	<0.0096	<0.0020	<0.0022	--	--	--	--	--	--
Endosulfan I	mg/kg	<0.020	<0.0096	<0.014	--	--	--	--	<0.0098	<0.011	<0.0042	--	--	--	--	--	--	<0.0096	<0.0020	<0.0022	--	--	--	--	--	--
Endosulfan II	mg/kg	<0.020	<0.0096	<0.014	--	--	--	--	<0.0098	<0.011	<0.0042	--	--	--	--	--	--	<0.0096	<0.0020	<0.0022	--	--	--	--	--	--
Endosulfan sulfate	mg/kg	<0.020	<0.0096	<0.014	--	--	--	--	<0.0098	<0.011	<0.0042	--	--	--	--	--	--	<0.0096	<0.0020	<0.0022	--	--	--	--	--	--
Endrin	mg/kg	<0.020	<0.0096	<0.014	--	--	--	--	<0.0098	<0.011	<0.0042	--	--	--	--	--	--	<0.0096	<0.0020	<0.0022	--	--	--	--	--	--
Endrin ketone	mg/kg	<0.020	<0.0096	<0.014	--	--	--	--	<0.0098	<0.011	<0.0042	--	--	--	--	--	--	<0.0096	<0.0020	<0.0022	--	--	--	--	--	--
gamma-BHC (Lindane)	mg/kg	<0.020	<0.0096	<0.014	--	--	--	--	<0.0098	<0.011	<0.0042	--	--	--	--	--	--	<0.0096	<0.0020	<0.0022	--	--	--	--	--	--
Heptachlor	mg/kg	<0.020	<0.0096	<0.014	--	--	--	--	<0.0098	<0.011	<0.0042	--	--	--	--	--	--	<0.0096	<0.0020	<0.0022	--	--	--	--	--	--
Heptachlor epoxide	mg/kg	<0.020	<0.0096	<0.014	--	--	--	--	<0.0098	<0.011	<0.0042	--	--	--	--	--	--	<0.0096	<0.0020	<0.0022	--	--	--	--	--	--
Hexachlorobenzene	mg/kg	<0.020	<0.0096	<0.014	--	--	--	--	<0.0098	<0.011	<0.0042	--	--	--	--	--	--	<0.0096	<0.0020	<0.0022	--	--	--	--	--	--
Methoxychlor	mg/kg	<0.020	<0.0096	<0.014	--	--	--	--	<0.0098	<0.011	<0.0042	--	--	--	--	--	--	<0.0096	<0.0020	<0.0022	--	--	--	--	--	--
Polychlorinated Biphenyls																										
Aroclor 1016	mg/kg	<0.137	<0.143	<0.203	<0.205	<0.185	<0.154	<0.143	<0.141	<0.156	<0.153	<0.203	<0.364	<0.184	<0.188	<0.156	<0.157	<0.128	<0.146	<0.157	<0.220	<0.284	<0.179	<0.178	<0.172
Aroclor 1221	mg/kg	<0.137	<0.143	<0.203	<0.205	<0.185	<0.154	<0.143	<0.141	<0.156	<0.153	<0.203	<0.364	<0.184	<0.188	<0.156	<0.157	<0.128	<0.146	<0.157	<0.220	<0.284	<0.179	<0.178	<0.172
Aroclor 1232	mg/kg	<0.137	<0.143	<0.203	<0.205	<0.185	<0.154	<0.143	<0.141	<0.156	<0.153	<0.203	<0.364	<0.184	<0.188	<0.156	<0.157	<0.128	<0.146	<0.157	<0.220	<0.284	<0.179	<0.178	<0.172
Aroclor 1242	mg/kg	<0.137	<0.143	<0.203	<0.205	<0.185	<0.154	<0.143	<0.141	<0.156	<0.153	<0.203	<0.364	<0.184	<0.188	<0.156	<0.157	<0.128	<0.146	<0.157	<0.220	<0.284	<0.179	<0.178	<0.172
Aroclor 1248	mg/kg	<0.137	<0.143	<0.203	<0.205	<0.185	<0.154	<0.143	<0.141	<0.156	<0.153	<0.203	<0.364	<0.184	<0.188	<0.156	<0.157	<0.128	<0.146	<0.157	<0.220	<0.284	<0.179	<0.178	<0.172
Aroclor 1254	mg/kg	<0.137	<0.143	<0.203	<0.205	<0.185	<0.154	<0.143	<0.141	<0.156	<0.153	<0.203	<0.364	<0.184	<0.188	<0.156	<0.157	<0.128	<0.146	<0.157	<0.220	<0.284	<0.179	<0.178	<0.172
Aroclor 1260	mg/kg	<0.137	<0.143	<0.203	<0.205	<0.185	<0.154	<0.143	<0.141	<0.156	<0.153	<0.203	<0.364	<0.184	<0.188	<0.156	<0.157	<0.128	<0.146	<0.157	<0.220	<0.284	<0.179	<0.178	<0.172
Aroclor 1262	mg/kg	<0.137	<0.143	<0.203	<0.205	<0.185	<0.154	<0.143	<0.141	<0.156	<0.153	<0.203	<0.364	<0.184	<0.188	<0.156	<0.157	<0.128	<0.146	<0.157	<0.220	<0.284	<0.179	<0.178	<0.172
Aroclor 1268	mg/kg	<0.137	<0.143	<0.203	<0.205	<0.185	<0.154	<0.143	<0.141	<0.156	<0.153	<0.203	<0.364	<0.184	<0.188	<0.156	<0.157	<0.128	<0.146	<0.157	<0.220	<0.284	<0.179	<0.178	<0.172
Total PCBs	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Petroleum Hydrocarbons	mg/kg	3790	5360	101	94.4	59.5	51.3	<47.9	<44.4	184	<44.3	315	1880	<55.6	<59.4	<45.7	<46.1	219	667	49.6	98.9	763	<49.2	<56.7	<55.1
Volatile Organic Compounds (VOCs)																										
1,1,1,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-Chloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane - Screen	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Butanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Isopropyltoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-Pentanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Disulfide	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	M15 M15S02BS04A 1501356 Fill 3.3 - 6.6 1/19/2015	M15 M15S04B 1501356 Fill 6.6 - 8 1/19/2015	M15 M15S09S10 1501356 Natural Organics 16 - 20 1/19/2015	M15 M15S11 1501356 Natural Organics 20 - 22 1/19/2015	M15 M15S12 1501356 Natural Organics 24 - 26 1/19/2015	M15 M15S13 1501356 Natural Sand/Gravel 29 - 31 1/19/2015	M15 M15S14S15 1501356 Natural Clay 34 - 38 1/19/2015	M16 M16S01S02A 1501330 Fill 0 - 3.3 1/16/2015	M16 M16S02BS04A 1501330 Fill 3.3 - 6.6 1/16/2015	M16 M16S04B 1501330 Fill 6.6 - 8 1/16/2015	M16 M16S05S06 1501356 Natural Organics 8 - 12 1/19/2015	M16 M16S07 1501356 Natural Organics 14 - 16 1/19/2015	M16 M16S08 1501356 Natural Organics 19 - 21 1/19/2015	M16 M16S09 1501356 Natural Organics 24 - 26 1/19/2015	M16 M16S10 1501356 Natural Organics 29 - 31 1/19/2015	M16 M16S11S12 1501356 Natural Sand/Gravel 34 - 38 1/19/2015	M17 M17S01S02A 1501563 Fill 0 - 3.3 1/30/2015	M17 M17S02BS04A 1501563 Fill 3.3 - 6.6 1/30/2015	M17 M17S04BS05 1501563 Fill 6.6 - 9 1/30/2015	M17 M17S06 1501563 Natural Organics 10 - 12 1/30/2015	M17 M17S07 1501563 Natural Organics 14 - 16 1/30/2015	M17 M17S08 1501563 Natural Organics 19 - 21 1/30/2015	M17 M17S09 1501563 Natural Organics 24 - 26 1/30/2015	M17 M17S10 1501563 Natural Organics 29 - 31 1/30/2015
Preliminary Disposal Facility Category		Hazardous Material Type B	Hazardous Material Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	Uncontaminated	Uncontaminated	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type B-1
Chlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Diethyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Di-isopropyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethyl tertiary-butyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
tert-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tertiary-amyl methyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene O	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene P,M	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylenes (Total)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total VOCs	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds - Low Level Analysis																										
1,1,1,2-Tetrachloroethane	mg/kg	<0.0102	<0.0043	<0.0051	<0.0064	<0.0040	<0.0030	<0.0033	<0.0034	<0.0075	<0.0036	<0.0071	<0.0175	<0.0055	<0.0043	<0.0030	<0.0031	<0.0044	<0.0049	<0.0039	<0.0069	<0.0117	<0.0056	<0.0046	<0.0045
1,1,1-Trichloroethane	mg/kg	<0.0102	<0.0043	<0.0051	<0.0064	<0.0040	<0.0030	<0.0033	<0.0034	<0.0075	<0.0036	<0.0071	<0.0175	<0.0055	<0.0043	<0.0030	<0.0031	<0.0044	<0.0049	<0.0039	<0.0069	<0.0117	<0.0056	<0.0046	<0.0045
1,1,2,2-Tetrachloroethane	mg/kg	<0.0041	<0.0017	<0.0021	<0.0025	<0.0016	<0.0012	<0.0013	<0.0014	<0.0030	<0.0014	<0.0028	<0.0070	<0.0022	<0.0017	<0.0012	<0.0012	<0.0018	<0.0020	<0.0016	<0.0028	<0.0047	<0.0022	<0.0018	<0.0018
1,1,2-Trichloroethane	mg/kg	<0.0102	<0.0043	<0.0051	<0.0064	<0.0040	<0.0030	<0.0033	<0.0034	<0.0075	<0.0036	<0.0071	<0.0175	<0.0055	<0.0043	<0.0030	<0.0031	<0.0044	<0.0049	<0.0039	<0.0069	<0.0117	<0.0056	<0.0046	<0.0045
1,1-Dichloroethane	mg/kg	<0.0102	<0.0043	<0.0051	<0.0064	<0.0040	<0.0030	<0.0033	<0.0034	<0.0075	<0.0036	<0.0071	<0.0175	<0.0055	<0.0043	<0.0030	<0.0031	<0.0044	<0.0049	<0.0039	<0.0069	<0.0117	<0.0056	<0.0046	<0.0045
1,1-Dichloroethene	mg/kg	<0.0102	<0.0043	<0.0051	<0.0064	<0.0040	<0.0030	<0.0033	<0.0034	<0.0075	<0.0036	<0.0071	<0.0175	<0.0055	<0.0043	<0.0030	<0.0031	<0.0044	<0.0049	<0.0039	<0.0069	<0.0117	<0.0056	<0.0046	<0.0045
1,1-Dichloropropene	mg/kg	<0.0102	<0.0043	<0.0051	<0.0064	<0.0040	<0.0030	<0.0033	<0.0034	<0.0075	<0.0036	<0.0071	<0.0175	<0.0055	<0.0043	<0.0030	<0.0031	<0.0044	<0.0049	<0.0039	<0.0069	<0.0117	<0.0056	<0.0046	<0.0045
1,2,3-Trichlorobenzene	mg/kg	<0.0102	<0.0043	<0.0051	<0.0064	<0.0040	<0.0030	<0.0033	<0.0034	<0.0075	<0.0036	<0.0071	<0.0175	<0.0055	<0.0043	<0.0030	<0.0031	<0.0044	<0.0049	<0.0039	<0.0069	<0.0117	<0.0056	<0.0046	<0.0045
1,2,3-Trichloropropane	mg/kg	<0.0102	<0.0043	<0.0051	<0.0064	<0.0040	<0.0030	<0.0033	<0.0034	<0.0075	<0.0036	<0.0071	<0.0175	<0.0055	<0.0043	<0.0030	<0.0031	<0.0044	<0.0049	<0.0039	<0.0069	<0.0117	<0.0056	<0.0046	<0.0045
1,2,4-Trichlorobenzene	mg/kg	<0.0102	<0.0043	<0.0051	<0.0064	<0.0040	<0.0030	<0.0033	<0.0034	<0.0075	<0.0036	<0.0071	<0.0175	<0.0055	<0.0043	<0.0030	<0.0031	<0.0044	<0.0049	<0.0039	<0.0069	<0.0117	<0.0056	<0.0046	<0.0045
1,2,4-Trimethylbenzene	mg/kg	<0.0102	<0.0043	<0.0051	<0.0064	<0.0040	<0.0030	<0.0033	<0.0034	<0.0075	<0.0036	<0.0071	<0.0175	<0.0055	<0.0043	<0.0030	<0.0031	<0.0044	<0.0049	<0.0039	<0.0069	<0.0117	<0.0056	<0.0046	<0.0045
1,2-Dibromo-3-Chloropropane	mg/kg	<0.0102	<0.0043	<0.0051	<0.0064	<0.0040	<0.0030	<0.0033	<0.0034	<0.0075	<0.0036	<0.0071	<0.0175	<0.0055	<0.0043	<0.0030	<0.0031	<0.0044	<0.0049	<0.0039	<0.0069	<0.0117	<0.0056	<0.0046	<0.0045
1,2-Dibromoethane	mg/kg	<0.0102	<0.0043	<0.0051	<0.0064	<0.0040	<0.0030	<0.0033	<0.0034	<0.0075	<0.0036	<0.0071	<0.0175	<0.0055	<0.0043	<0.0030	<0.0031	<0.0044	<0.0049	<0.0039	<0.0069	<0.0117	<0.0056	<0.0046	<0.0045
1,2-Dichlorobenzene	mg/kg	<0.0102	<0.0043	<0.0051	<0.0064	<0.0040	<0.0030	<0.0033	<0.0034	<0.0075	<0.0036	<0.0071	<0.0175	<0.0055	<0.0043	<0.0030	<0.0031	<0.0044	<0.0049	<0.0039	<0.0069	<0.0117	<0.0056	<0.0046	<0.0045
1,2-Dichloroethane	mg/kg	<0.0102	<0.0043	<0.0051	<0.0064	<0.0040	<0.0030	<0.0033	<0.0034	<0.0075	<0.0036	<0.0071	<0.0175	<0.0055	<0.0043	<0.0030	<0.0031	<0.0044	<0.0049	<0.0039	<0.0069	<0.0117	<0.0056	<0.0046	<0.0045
1,2-Dichloropropane	mg/kg	<0.0102	<0.0043	<0.0051	<0.0064	<0.0040	<0.0030	<0.0033	<0.0034	<0.0075	<0.0036	<0.0071	<0.0175	<0.0055	<0.0043	<0.0030	<0.0031	<0.0044	<0.0049	<0.0039	<0.0069	<0.0117	<0.0056	<0.0046	<0.0045
1,3,5-Trimethylbenzene	mg/kg	<0.0102	<0.0043	<0.0051	<0.0064	<0.0040	<0.0030	<0.0033	<0.0034	<0.0075	<0.0036	<0.0071	<0.0175	<0.0055	<0.0043	<0.0030	<0.0031	<0.0044	<0.0049	<0.0039	<0.0069	<0.0117	<0.0056	<0.0046	<0.0045
1,3-Dichlorobenzene	mg/kg	<0.0102	<0.0043	<0.0051	<0.0064	<0.0040	<0.0030	<0.0033	<0.0034	<0.0075	<0.0036	<0.0071	<0.0175	<0.0055	<0.0043	<0.0030	<0.0031	<0.0044	<0.0049	<0.0039	<0.0069	<0.0117	<0.0056	<0.0046	<0.0045
1,3-Dichloropropane	mg/kg	<0.0102	<0.0043	<0.0051	<0.0064	<0.0040	<0.0030	<0.0033	<0.0034	<0.0075	<0.0036	<0.0071	<0.0175	<0.0055	<0.0043	<0.0030	<0.0031	<0.0044	<0.0049	<0.0039	<0.0069	<0.0117	<0.0056	<0.0046	<0.0045
1,4-Dichlorobenzene	mg/kg	<0.0102	<0.0043	<0.0051	<0.0064	<0.0040	<0.0030	<0.0033	<0.0034	<0.0075	<0.0036	<0.0071	<0.0175	<0.0055	<0.0043	<0.0030	<0.0031	<0.0044	<0.0049	<0.0039	<0.0069	<0.0117	<0.0056	<0.0046	<0.0045
1,4-Dioxane	mg/kg	<0.203	<0.0855	<0.103	<0.127	<0.0802	<0.0595	<0.0656	<0.0681	<0.151	<0.0718	<0.141	<0.350	<0.110	<0.0865	<0.0606	<0.0619	<0.0880	<0.0978	<0.0789	<0.138	<0.233	<0.111	<0.0921	<0.0900
2,2-Dichloropropane	mg/kg	<0.0102	<0.0043	<0.0051	<0.0064	<0.0040	<0.0030	<0.0033	<0.0034	<0.0075	<0.0036	<0.0071	<0.0175	<0.0055	<0.0043	<0.0030	<0.0031	<0.0044	<0.0049	<0.0039	<0.0069	<0.0117	<0.0056	<0.0046	<0.0045
2-Butanone	mg/kg	<0.0203	<0.0086	<0.0103	<0.0127	<0.0080	<0.0060	<0.0066	<0.0068	<0.0151	<0.0072	<0.0141	<0.0350	<0.0110	<0.0086	<0.0061	<0.0062	<0.0088	<0.0098	0.0082	<0.0138	<0.0233	<0.0111	<0.0092	<0.0090
2-Chlorotoluene	mg/kg	<0.0102	<0.0043	<0.0051	<0.0064	<0.0040	<0.0030	<0.0033	<0.0034	<0.0075	<0.0036	<0.0071	<0.0175	<0.0055	<0.0043	<0.0030	<0.0031	<0.0044	<0.0049	<0.0039	<0.0069	<0.0117	<0.0056	<0.0046	<0.0045
2-Hexanone	mg/kg	<0.0203	<0.0086	<0.0103	<0.0127	<0.0080	<0.0060	<0.0066	<0.0068	<0.0151	<0.0072	<0.0141	<0.0350	<0.0110	<0.0086	<0.0061	<0.0062	<0.0088	<0.0098	<0.0079	<0.0138	<0.0233	<0.0111	<0.0092	<0.0090
4-Chlorotoluene	mg/kg	<0.0102	<0.0043	<0.0051	<0.0064	<0.0040	<0.0030	<0.0033	<0.0034	<0.0075	<0.0036	<0.0071	<0.0175	<0.0055	<0.0043	<0.0030	<0.0031	<0.0044	<0.0049	<0.0039	<0.0069	<0.0117	<0.0056	<0.0046	<0.0045
4-Isopropyltoluene	mg/kg	<0.0102	<0.0043	<0.0051	<0.0064	<0.0040	<0.0030	<0.0033	<0.0034	<0.0075	<0.0036	<0.0071	<0.0175	<0.0055	<0.0043	<0.0030	<0.0031	<0.0044	<0.0049	<0.0039	<0.0069	0.0538	<0.0056	<0.0046	<0.0045
4-Methyl-2-Pentanone	mg/kg	<0.0203	<0.0086	<0.0103	<0.0127	<0.0080	<0.0060	<0.0066	<0.0068	<0.0151	<0.0072	<0.0141	<0.0350	<0.0110	<0.0086	<0.0061	<0.0062	<0.0088	<0.0098	<0.0079	<0.0138	<0.0233	<0.0111	<0.0092	<0.0090
Acetone	mg/kg	0.117	0.0405	0.015	<0.0127	<0.0080	<0.0060	0.0119	<0.0068	0.0476	0.0224	0.0719	0.15	0.0129	0.011	<0.0061	<0.0062	<0.0088	0.0564	0.0434	0.0317	0.301	<0.0111	<0.0092	<0.0090
Benzene	mg/kg	<0.0102	<0.0043	<0.0051	<0.0064	<0.0040	<0.0030	<0.0033	<0.0034	<0.0075	<0.0036	<0.0071	<0.0175	<0.0055	<0.0043	<0.0030	<0.0031	<0.0044	<0.0049	<0.0039	<0.0069	<0.0117	<0.0056	<0.0046	<0.0045
Bromobenzene	mg/kg	<0.0102	<0.0043	<0.0051	<0.0064	<0.0040	<0.0030	<0.0033	<0.0034	<0.0075	<0.0036	<0.0071	<0.0175	<0.0055	<0.0043	<0.0030	<0.0031	<0.0044	<0.0049	<0.0039	<0.0069	<0.0117	<0.0056	<0.0046	<0.0045
Bromochloromethane	mg/kg	<0.0102	<0.0043	<0.0051	<0.0064	<0.0040	<0.0030	<0.0033	<0.0034	<0.0075	<0.0036	<0.0071	<0.0175	<0.0055	<0.0043	<0.0030	<0.0031	<0.0044	<0.0049	<0.0039	<0.0069	<0.0117	<0.0056	<0.0046	<0.0045
Bromodichloromethane	mg/kg	<0.0102	<0.0043	<0.0051	<0.0064	<0.0040	<0.0030	<0.0033	<0.0034	<0.0075	<0.0036	<0.0071	<0.0175	<0.0055	<0.0043	<0.0030	<0.0031	<0.0044	<0.0049	<0.0039	<0.0069	<0.0117	<0.0056	<0.0046	<0.0045
Bromoform	mg/kg	<0.0102	<0.0043	<0.0051	<0.0064	<0.0040	<0.0030	<0.0033	<0.0034	<0.0075	<0.0036	<0.0071	<0.0175	<0.0055	<0.0043	<0.0030	<0.0031	<0.0044	<0.0049	<0.0039	<0.0069	<0.0117	<0.0056	<0.0046	<0.0045
Bromomethane	mg/kg	<0.0203	<0.0086	<0.0103	<0.0127	<0.0080	<0.0060	<0.0066	<0.0068	<0.0151	<0.0072	<0.0141	<0.0350	<0.0110	<0.0086	<0.0061	<0.0062	<0.0088	<0.0098	<0.0079	<0.0138	<0.0233	<0.0111	<0.0092	<0.0090
Carbon Disulfide	mg/kg	<0.0102	<0.0043	0.0092	<0.0064	0.0043	0.0048	<0.0033	<0.0034	<0.0075	<0.0036	0.0144	0.0444	0.0061	0.005	<0.0030	<0.0031	<0.0044	<0.0049	<0.0039	<0.0069	0.027	0.0072	<0.0046	<0.0045
Carbon Tetrachloride	mg/kg	<0.0102	<0.0043	<0.0051	<0.0064	<0.0040	<0.0030	<0.0033	<0.0034	<0.0075	<0.0036	<0.0071	<0.0175	<0.0055	<0.0043	<0.0030	<0.0031	<0.0044	<0.0049	<0.0039	<0.0069	<0.0117	<0.0056	<0.0046	<0.0045
Chlorobenzene	mg/kg	<0.0102	<0.0043	<0.0051	<0.0064	<0.0040	<0.0030	<0.0033	<0.0034	<0.0075	<0.0036	<0.0071	<0.0175	<0.0055	<0.0043	<0.0030	<0.0031	<0.0044	<0.0049	<0.0039	<0.0069	<0.0117	<0.0056	<0.0046	<0.0045
Chloroethane	mg/kg	<0.0203	<0.0086	<0.0103	<0.0127	<0.0080	<0.0060	<0.0066	<0.0068	<0.0151	<0.0072	<0.0141	<0.0350	<0.0110	<0.0086	<0.0061	<0.0062	<0.0088	<0.0098	<0.0079	<0.0138	<0.0233	<0.0111	<0.0092	<0.0090
Chloroform	mg/kg	<0.0102	<0.0043	<0.0051	<0.0064	<0.0040	<0.0030	<0.0033	<0.0034	<0.0075	<0.0036	<0.0071	<0.0175	<0.0055	<0.0043	<0.0030	<0.0031	<0.0044	<0.0049	<0.0039	<0.0069	<0.0117	<0.0056	<0.0046	<0.0045
Chloromethane	mg/kg	<0.0203	<0.0086	<0.0103	<0.0127	<0.0080	<0.0060	<0.0066	<0.0068	<0.0151	<0.0072	<0.0141	<0.0350	<0.0110	<0.0086	<0.0061	<0.0062	<0.0088	<0.0098	<0.0079	<0.0138	<0.0233	<0.0111	<0.0092	<0.0090
cis-1,2-Dichloroethene	mg/kg	<0.0102	<0.0043	<0.0051	<0.0064	<0.0040	<0.0030	<0.0033	<0.0034	<0.0075	<0.0036	<0.0071	<0.0175	<0.0055	<0.0043	<0.0030	<0.0031	<0.0044	<0.0049	<0.0039	<0.0069	<0.0117	<0.0056	<0.0046	<0.0045
cis-1,3-Dichloropropene	mg/kg	<0.0102	<0.0043	<0.0051	<0.0064	<0.0040	<0.0030	<0.0033	<0.0034	<0.0075	<0.0036	<0.0071	<0.0175	<0.0055	<0.0043	<0.0030	<0.0031	<0.0044	<0.0049	<0.0039	<0.0069	<0.0117	<0.0056	<0.0046	<0.0045
Dibromochloromethane	mg/kg	<0.0041	<0.0017	<0.0021	<0.0025	<0.0016	<0.0012	<0.0013	<0.0014	<0.0030	<0.0014	<0.0028	<0.0070	<0.0022	<0.0017	<0.0012	<0.0012	<0.0018	<0.0020	<0.0016	<0.0028	<0.0047	<0.0022	<0.0018	<0.0018
Dibromomethane	mg/kg	<0.0102	<0.0043	<0.0051	<0.0064	<0.0040	<0.0030	<0.0033	<0.0034	<0.0075	<0.0036	<0.0071	<0.0175	<0.0055	<0.0043	<0.0030	<0.0031	<0.0044	<0.0049	<0.0039	<0.0069	<0.0117	<0.0056	<0.0046	<0.0045
Dichlorodifluoromethane	mg/kg	<0.0203	<0.0086	<0.0103	<0.0127	<0.0080	<0.0060	<0.0066	<0.0068	<0.0151	<0.0072	<0.0141	<0.0350	<0.0110	<0.0086	<0.0061	<0.0062	<0.0088	<0.0098	<0.0079	<0.0138	<0.0233	<0.0111	<0.0092	<0.0090
Diethyl Ether	mg/kg	<0.0102	<0.0043	<0.0051	<0.0064	<0.0040	<0.0030	<0.0033	<0.0034	<0.0075	<0.0036	<0.0071	<0.0175	<0.0055	<0.0043	<0.0030	<0.0031	<0.0044	<0.0049	<0.0039	<0.0069	<0.0117	<0.0056	<0.0046	<0.0045
Di-isopropyl ether	mg/kg	<0.0102	<0.0043	<0.0051	<0.0064	<0.0040	<0.0030	<0.0033	<0.0034	<0.0075	<0.0036	<0.0071	<0.0175	<0.0055	<0.0043	<0.0030	<0.0031	<0.0044	<0.0049	<0.0039	<0.0069	<0.0117	<0.0056	<0.0046	<0.0045
Ethyl tertiary-butyl ether	mg/kg	<0.0102	<0.0043	<0.0051	<0.0064	<0.0040	<0.0030	<0.0033	<0.0034	<0.0075	<0.0036	<0.0071	<0.0175	<0.0055	<0.0043	<0.0030	<0.0031	<0.0044	<0.0049	<0.0039	<0.0069	<0.0117	<0.0056	<0.0046	<0.0045
Ethylbenzene	mg/kg	<0.0102	<0.0043	<0.0051	<0.0064	<0.0040	<0.0030	<0.0033	<0.0034	<0.0075	<0.0036	<0.0071	<0.0175	<0.0055	<0.0043	<0.0030	<0.0031	<0.0044	<0.0049	<0.0039	<0.0069	<0.0117	<0.0056	<0.0046	<0.0045
Hexachlorobutadiene	mg/kg	<0.0102	<0.0043	<0.0051	<0.0064	<0.0040	<0.0030	<0.0033	<0.0034	<0.0075	<0.0036	<0.0071	<0.0175	<0.0055	<0.0043	<0.0030	<0.0031	<0.0044	<0.0049	<0.0039	<0.0069	<0.0117	<0.0056	<0.0046	<0.0045
Isopropylbenzene	mg/kg	<0.0102	<0.0043	<0.0051	<0.0064	<0.0040	<0.0030	<0.0033	<0.0034	<0.0075	<0.0036	<0.0071	<0.0175	<0.0055	<0.0043	<0.0030	<0.0031	<0.0044	<0.0049	<0.0039	<0.0069	<0.0117	<0.0056	<0.0046	<0.0045
Methyl tert-Butyl Ether	mg/kg	<0.0102	<0.0043	<0.0051	<0.0064	<0.0040	<0.0030	<0.0033	<0.0034	<0.0075	<0.0036	<0.0071	<0.0175	<0.0055	<0.0043	<0.0030	<0.0031	<0.0044	<0.0049	<0.0039	<0.0069	<0.0117	<0.0056	<0.0046	<0.0045
Methylene Chloride	mg/kg	<0.0203	<0.0086	<0.0103	<0.0127	<0.0080	<0.0060	<0.0066	<0.0068	<0.0151	<0.0072	<0.0141	<0.0350	<0.0110	<0.0086	<0.0061	<0.0062	<0.0088	<0.0098	<0.0079	<0.0138	<0.0233	<0.0111	<0.0092	<0.0090
Naphthalene	mg/kg	<0.0102	0.0082	<0.0051	<0.0064	<0.0040	<0.0030	<0.0033	<0.0034	<0.0075	<0.0036	<0.0071	<0.0175	<0.0055	<0.0043	<0.0030	<0.0031	<0.0044	<0.0049	<0.0039	<0.0069	<0.0117	<0.0056	<0.0046	<0.0045
n-Butylbenzene	mg/kg	<0.0102	<0.0043	<0.0051	<0.0064	<0.0040	<0.0030	<0.0033	<0.0034	<0.0075	<0.0036	<0.0071	<0.0175	<0.0055	<0.0043	<0.0030	<0.0031	<0.0044	<0.0049	<0.0039	<0.0069	<0.0117	<0.0056	<0.0046	<0.0045
n-Propylbenzene	mg/kg	<0.0102	<0.0043	<0.0051	<0.0064	<0.0040	<0.0030	<0.0033	<0.0034	<0.0075	<0.0036	<0.0071	<0.0175	<0.0055	<0.0043	<0.0030	<0.0031	<0.0044	<0.0049	<0.0039	<0.0069	<0.0117	<0.0056	<0.0046	<0.0045
sec-Butylbenzene	mg/kg	<0.0102	<0.0043	<0.0051	<0.0064	<0.0040	<0.0030	<0.0033	<0.0034	<0.0075	<0.0036	<0.0071	<0.0175	<0.0055	<0.0043	<0.0030	<0.0031	<0.0044	<0.0049	<0.0039	<0.0069	<0.0117	<0.0056	<0.0046	<0.0045

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Table 1
Soil Precharacterization Data

Wynn Resort Casino
Everett, Massachusetts

Analyte	Precharacterization Cell	M15	M15	M15	M15	M15	M15	M15	M16	M16	M16	M16	M16	M16	M16	M16	M16	M17	M17	M17	M17	M17	M17	M17	M17
	Sample ID	M15S02BS04A	M15S04B	M15S09S10	M15S11	M15S12	M15S13	M15S14S15	M16S01S02A	M16S02BS04A	M16S04B	M16S05S06	M16S07	M16S08	M16S09	M16S10	M16S11S12	M17S01S02A	M17S02BS04A	M17S04BS05	M17S06	M17S07	M17S08	M17S09	M17S10
	Laboratory Work Order	1501356	1501356	1501356	1501356	1501356	1501356	1501356	1501330	1501330	1501330	1501356	1501356	1501356	1501356	1501356	1501356	1501563	1501563	1501563	1501563	1501563	1501563	1501563	1501563
	Soil Distinction	Fill	Fill	Natural Organics	Natural Organics	Natural Organics	Natural Sand/Gravel	Natural Clay	Fill	Fill	Fill	Natural Organics	Natural Organics	Natural Organics	Natural Organics	Natural Organics	Natural Sand/Gravel	Fill	Fill	Fill	Natural Organics	Natural Organics	Natural Organics	Natural Organics	Natural Organics
	Depth Interval (ft.)	3.3 - 6.6	6.6 - 8	16 - 20	20 - 22	24 - 26	29 - 31	34 - 38	0 - 3.3	3.3 - 6.6	6.6 - 8	8 - 12	14 - 16	19 - 21	24 - 26	29 - 31	34 - 38	0 - 3.3	3.3 - 6.6	6.6 - 9	10 - 12	14 - 16	19 - 21	24 - 26	29 - 31
	Sampling Date	1/19/2015	1/19/2015	1/19/2015	1/19/2015	1/19/2015	1/19/2015	1/19/2015	1/16/2015	1/16/2015	1/16/2015	1/19/2015	1/19/2015	1/19/2015	1/19/2015	1/19/2015	1/19/2015	1/30/2015	1/30/2015	1/30/2015	1/30/2015	1/30/2015	1/30/2015	1/30/2015	1/30/2015
Preliminary Disposal Facility Category		Hazardous Material Type B	Hazardous Material Type A	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	Uncontaminated	Uncontaminated	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type B-1
Styrene	mg/kg	<0.0102	<0.0043	<0.0051	<0.0064	<0.0040	<0.0030	<0.0033	<0.0034	<0.0075	<0.0036	<0.0071	<0.0175	<0.0055	<0.0043	<0.0030	<0.0031	<0.0044	<0.0049	<0.0039	<0.0069	<0.0117	<0.0056	<0.0046	<0.0045
tert-Butylbenzene	mg/kg	<0.0102	<0.0043	<0.0051	<0.0064	<0.0040	<0.0030	<0.0033	<0.0034	<0.0075	<0.0036	<0.0071	<0.0175	<0.0055	<0.0043	<0.0030	<0.0031	<0.0044	<0.0049	<0.0039	<0.0069	<0.0117	<0.0056	<0.0046	<0.0045
Tertiary-amyl methyl ether	mg/kg	<0.0102	<0.0043	<0.0051	<0.0064	<0.0040	<0.0030	<0.0033	<0.0034	<0.0075	<0.0036	<0.0071	<0.0175	<0.0055	<0.0043	<0.0030	<0.0031	<0.0044	<0.0049	<0.0039	<0.0069	<0.0117	<0.0056	<0.0046	<0.0045
Tetrachloroethene	mg/kg	<0.0102	<0.0043	<0.0051	<0.0064	<0.0040	<0.0030	<0.0033	<0.0034	<0.0075	<0.0036	<0.0071	<0.0175	<0.0055	<0.0043	<0.0030	<0.0031	<0.0044	<0.0049	<0.0039	<0.0069	<0.0117	<0.0056	<0.0046	<0.0045
Tetrahydrofuran	mg/kg	<0.0102	<0.0043	<0.0051	<0.0064	<0.0040	<0.0030	<0.0033	<0.0034	<0.0075	<0.0036	<0.0071	<0.0175	<0.0055	<0.0043	<0.0030	<0.0031	<0.0044	<0.0049	<0.0039	<0.0069	<0.0117	<0.0056	<0.0046	<0.0045
Toluene	mg/kg	<0.0102	<0.0043	<0.0051	<0.0064	<0.0040	<0.0030	<0.0033	<0.0034	<0.0075	<0.0036	<0.0071	<0.0175	<0.0055	<0.0043	<0.0030	<0.0031	<0.0044	<0.0049	<0.0039	<0.0069	<0.0117	<0.0056	<0.0046	<0.0045
trans-1,2-Dichloroethene	mg/kg	<0.0102	<0.0043	<0.0051	<0.0064	<0.0040	<0.0030	<0.0033	<0.0034	<0.0075	<0.0036	<0.0071	<0.0175	<0.0055	<0.0043	<0.0030	<0.0031	<0.0044	<0.0049	<0.0039	<0.0069	<0.0117	<0.0056	<0.0046	<0.0045
trans-1,3-Dichloropropene	mg/kg	<0.0102	<0.0043	<0.0051	<0.0064	<0.0040	<0.0030	<0.0033	<0.0034	<0.0075	<0.0036	<0.0071	<0.0175	<0.0055	<0.0043	<0.0030	<0.0031	<0.0044	<0.0049	<0.0039	<0.0069	<0.0117	<0.0056	<0.0046	<0.0045
Trichloroethene	mg/kg	<0.0102	<0.0043	<0.0051	<0.0064	<0.0040	<0.0030	<0.0033	<0.0034	<0.0075	<0.0036	<0.0071	<0.0175	<0.0055	<0.0043	<0.0030	<0.0031	<0.0044	<0.0049	<0.0039	<0.0069	<0.0117	<0.0056	<0.0046	<0.0045
Trichlorofluoromethane	mg/kg	<0.0102	<0.0043	<0.0051	<0.0064	<0.0040	<0.0030	<0.0033	<0.0034	<0.0075	<0.0036	<0.0071	<0.0175	<0.0055	<0.0043	<0.0030	<0.0031	<0.0044	<0.0049	<0.0039	<0.0069	<0.0117	<0.0056	<0.0046	<0.0045
Vinyl Chloride	mg/kg	<0.0203	<0.0086	<0.0103	<0.0127	<0.0080	<0.0060	<0.0066	<0.0068	<0.0151	<0.0072	<0.0141	<0.0350	<0.0110	<0.0086	<0.0061	<0.0062	<0.0088	<0.0098	<0.0079	<0.0138	<0.0233	<0.0111	<0.0092	<0.0090
Xylene O	mg/kg	<0.0102	<0.0043	<0.0051	<0.0064	<0.0040	<0.0030	<0.0033	<0.0034	<0.0075	<0.0036	<0.0071	<0.0175	<0.0055	<0.0043	<0.0030	<0.0031	<0.0044	<0.0049	<0.0039	<0.0069	<0.0117	<0.0056	<0.0046	<0.0045
Xylene P,M	mg/kg	<0.0203	<0.0086	<0.0103	<0.0127	<0.0080	<0.0060	<0.0066	<0.0068	<0.0151	<0.0072	<0.0141	<0.0350	<0.0110	<0.0086	<0.0061	<0.0062	<0.0088	<0.0098	<0.0079	<0.0138	<0.0233	<0.0111	<0.0092	<0.0090
Xylenes (Total)	mg/kg	<0.0203	<0.0086	<0.0103	<0.0127	<0.0080	<0.0060	<0.0066	<0.0068	<0.0151	<0.0072	<0.0141	<0.0350	<0.0110	<0.0086	<0.0061	<0.0062	<0.0088	<0.0098	<0.0079	<0.0138	<0.0233	<0.0111	<0.0092	<0.0090
Total VOCs (Low Level)	mg/kg	0.117	0.0487	0.0242	ND	0.0043	0.0048	0.0119	ND	0.0476	0.0224	0.0863	0.1944	0.019	0.016	ND	ND	ND	0.0564	0.0516	0.0317	0.3818	0.0072	ND	ND
Semi-Volatile Organic Compounds																									
1,2,4-Trichlorobenzene	mg/kg	<0.877	<0.907	<1.32	<1.33	<1.16	<0.926	<0.918	<0.918	<1.08	<0.962	<1.32	<2.56	<1.13	<1.12	<1.00	<0.999	<0.875	<1.01	<0.993	<1.54	<2.02	<1.20	<1.18	<1.11
1,2-Dichlorobenzene	mg/kg	<0.877	<0.907	<1.32	<1.33	<1.16	<0.926	<0.918	<0.918	<1.08	<0.962	<1.32	<2.56	<1.13	<1.12	<1.00	<0.999	<0.875	<1.01	<0.993	<1.54	<2.02	<1.20	<1.18	<1.11
1,3-Dichlorobenzene	mg/kg	<0.877	<0.907	<1.32	<1.33	<1.16	<0.926	<0.918	<0.918	<1.08	<0.962	<1.32	<2.56	<1.13	<1.12	<1.00	<0.999	<0.875	<1.01	<0.993	<1.54	<2.02	<1.20	<1.18	<1.11
1,4-Dichlorobenzene	mg/kg	<0.440	<0.455	<0.660	<0.666	<0.582	<0.464	<0.461	<0.460	<0.540	<0.483	<0.663	<1.28	<0.567	<0.564	<0.503	<0.501	<0.439	<0.506	<0.498	<0.774	<1.01	<0.604	<0.593	<0.558
2,4,5-Trichlorophenol	mg/kg	<0.877	<0.907	<1.32	<1.33	<1.16	<0.926	<0.918	<0.918	<1.08	<0.962	<1.32	<2.56	<1.13	<1.12	<1.00	<0.999	<0.875	<1.01	<0.993	<1.54	<2.02	<1.20	<1.18	<1.11
2,4,6-Trichlorophenol	mg/kg	<0.877	<0.907	<1.32	<1.33	<1.16	<0.926	<0.918	<0.918	<1.08	<0.962	<1.32	<2.56	<1.13	<1.12	<1.00	<0.999	<0.875	<1.01	<0.993	<1.54	<2.02	<1.20	<1.18	<1.11
2,4-Dichlorophenol	mg/kg	<0.877	<0.907	<1.32	<1.33	<1.16	<0.926	<0.918	<0.918	<1.08	<0.962	<1.32	<2.56	<1.13	<1.12	<1.00	<0.999	<0.875	<1.01	<0.993	<1.54	<2.02	<1.20	<1.18	<1.11
2,4-Dimethylphenol	mg/kg	<0.877	<0.907	<1.32	<1.33	<1.16	<0.926	<0.918	<0.918	<1.08	<0.962	<1.32	<2.56	<1.13	<1.12	<1.00	<0.999	<0.875	<1.01	<0.993	<1.54	<2.02	<1.20	<1.18	<1.11
2,4-Dinitrophenol	mg/kg	<4.40	<4.55	<6.60	<6.66	<5.82	<4.64	<4.61	<4.60	<5.40	<4.83	<6.63	<12.8	<5.67	<5.64	<5.03	<5.01	<4.39	<5.06	<4.98	<7.74	<10.1	<6.04	<5.93	<5.58
2,4-Dinitrotoluene	mg/kg	<0.877	<0.907	<1.32	<1.33	<1.16	<0.926	<0.918	<0.918	<1.08	<0.962	<1.32	<2.56	<1.13	<1.12	<1.00	<0.999	<0.875	<1.01	<0.993	<1.54	<2.02	<1.20	<1.18	<1.11
2,6-Dinitrotoluene	mg/kg	<0.877	<0.907	<1.32	<1.33	<1.16	<0.926	<0.918	<0.918	<1.08	<0.962	<1.32	<2.56	<1.13	<1.12	<1.00	<0.999	<0.875	<1.01	<0.993	<1.54	<2.02	<1.20	<1.18	<1.11
2-Chloronaphthalene	mg/kg	<0.877	<0.907	<1.32	<1.33	<1.16	<0.926	<0.918	<0.918	<1.08	<0.962	<1.32	<2.56	<1.13	<1.12	<1.00	<0.999	<0.875	<1.01	<0.993	<1.54	<2.02	<1.20	<1.18	<1.11
2-Chlorophenol	mg/kg	<0.877	<0.907	<1.32	<1.33	<1.16	<0.926	<0.918	<0.918	<1.08	<0.962	<1.32	<2.56	<1.13	<1.12	<1.00	<0.999	<0.875	<1.01	<0.993	<1.54	<2.02	<1.20	<1.18	<1.11
2-Methylnaphthalene	mg/kg	<0.877	<0.907	<1.32	<1.33	<1.16	<0.926	<0.918	<0.918	<1.08	<0.962	<1.32	<2.56	<1.13	<1.12	<1.00	<0.999	<0.875	<1.01	<0.993	<1.54	<2.02	<1.20	<1.18	<1.11
2-Methylphenol	mg/kg	<0.877	<0.907	<1.32	<1.33	<1.16	<0.926	<0.918	<0.918	<1.08	<0.962	<1.32	<2.56	<1.13	<1.12	<1.00	<0.999	<0.875	<1.01	<0.993	<1.54	<2.02	<1.20	<1.18	<1.11
2-Nitrophenol	mg/kg	<0.877	<0.907	<1.32	<1.33	<1.16	<0.926	<0.918	<0.918	<1.08	<0.962	<1.32	<2.56	<1.13	<1.12	<1.00	<0.999	<0.875	<1.01	<0.993	<1.54	<2.02	<1.20	<1.18	<1.11
3,3´-Dichlorobenzidine	mg/kg	<1.76	<1.82	<2.64	<2.66	<2.32	<1.85	<1.84	<1.84	<2.16	<1.93	<2.65	<5.13	<2.27	<2.25	<2.01	<2.00	<1.75	<2.02	<1.99	<3.09	<4.04	<2.41	<2.37	<2.23
3+4-Methylphenol	mg/kg	<1.76	<1.82	<2.64	<2.66	<2.32	<1.85	<1.84	<1.84	<2.16	<1.93	<2.65	7.29	<2.27	<2.25	<2.01	<2.00	<1.75	<2.02	<1.99	<3.09	<4.04	<2.41	<2.37	<2.23
4-Bromophenyl-phenylether	mg/kg	<0.877	<0.907	<1.32	<1.33	<1.16	<0.926	<0.918	<0.918	<1.08	<0.962	<1.32	<2.56	<1.13	<1.12	<1.00	<0.999	<0.875	<1.01	<0.993	<1.54	<2.02	<1.20	<1.18	<1.11
4-Chloroaniline	mg/kg	<1.76	<1.82	<2.64	<2.66	<2.32	<1.85	<1.84	<1.84	<2.16	<1.93	<2.65	<5.13	<2.27	<2.25	<2.01	<2.00	<1.75	<2.02	<1.99	<3.09	<4.04	<2.41	<2.37	<2.23
4-Nitrophenol	mg/kg	<4.40	<4.55	<6.60	<6.66	<5.82	<4.64	<4.61	<4.60	<5.40	<4.83	<6.63	<12.8	<5.67	<5.64	<5.03	<5.01	<4.39	<5.06	<4.98	<7.74	<10.1	<6.04	<5.93	<5.58
Acenaphthene	mg/kg	<0.877	<0.907	<1.32	<1.33	<1.16	<0.926	<0.918	<0.918	<1.08	<0.962	<1.32	<2.56	<1.13	<1.12	<1.00	<0.999	<0.875	<1.01	<0.993	<1.54	<2.02	<1.20	<1.18	<1.11
Acenaphthylene	mg/kg	<0.877	<0.907	<1.32	<1.33	<1.16	<0.926	<0.918	<0.918	<1.08	<0.962	<1.32	<2.56	<1.13	<1.12	<1.00	<0.999	<0.875	<1.01	<0.993	<1.54	<2.02	<1.20	<1.18	<1.11
Acetophenone	mg/kg	<1.76	<1.82	<2.64	<2.66	<2.32	<1.85	<1.84	<1.84	<2.16	<1.93	<2.65	<5.13	<2.27	<2.25	<2.01	<2.00	<1.75	<2.02	<1.99	<3.09	<4.04	<2.41	<2.37	<2.23
Aniline	mg/kg	<4.40	<4.55	<6.60	<6.66	<5.82	<4.64	<4.61	<4.60	<5.40	<4.83	<6.63	<12.8	<5.67	<5.64	<5.03	<5.01	<4.39	<5.06	<4.98	<7.74	<10.1	<6.04	<5.93	<5.58
Anthracene	mg/kg	1.15	<0.907	<1.32	<1.33	<1.16	<0.926	<0.918	<0.918	<1.08	<0.962	<1.32	<2.56	<1.13	<1.12	<1.00	<0.999	<0.875	<1.01	<0.993	<1.54	<2.02	<1.20	<1.18	<1.11
Azobenzene	mg/kg	<0.877	<0.907	<1.32	<1.33	<1.16	<0.926	<0.918	<0.918	<1.08	<0.962	<1.32	<2.56	<1.13	<1.12	<1.00	<0.999	<0.875	<1.01	<0.993	<1.54	<2.02	<1.20	<1.18	<1.11
Benzo(a)anthracene	mg/kg	2.65	<0.907	<1.32	<1.33	<1.16	<0.926	<0.918	<0.918	<1.08	<0.962	<1.32	<2.56	<1.13	<1.12	<1.00	<0.999	<0.875	3.67	<0.993	<1.54	<2.02	<1.20	<1.18	<1.11
Benzo(a)pyrene	mg/kg	2.75	0.675	<0.660	<0.666	<0.582	<0.464	<0.461	<0.460	0.671	<0.483	<0.663	<1.28	<0.567	<0.564	<0.503	<0.501	<0.439	3.81	<0.498	<0.774	<1.01	<0.604	<0.593	<0.558
Benzo(b)fluoranthene	mg/kg	3.09	1.19	<1.32	<1.33	<1.16	<0.926	<0.918	<0.918	<1.08	<0.962	<1.32	<2.56	<1.13	<1.12	<1.00	<0.999	<0.875	4.06	<0.993	<1.54	<2.02	<1.20	<1.18	<1.11
Benzo(g,h,i)perylene	mg/kg	<0.877	<0.907	<1.32	<1.33	<1.16	<0.926	<0.918	<0.918	<1.08	<0.962	<1.32	<2.56	<1.13	<1.12	<1.00	<0.999	<0.875	<1.01	<0.993	<1.54	<2.02	<1.20	<1.18	<1.11
Benzo(k)fluoranthene	mg/kg	2.4	<0.907	<1.32	<1.33	<1.16	<0.926	<0.918	<0.918	<1.08	<0.962	<1.32	<2.56	<1.13	<1.12	<1.00	<0.999	<0.875	4.84	<0.993	<1.54	<2.02	<1.20	<1.18	<1.11
bis(2-Chloroethoxy)methane	mg/kg	<0.877	<0.907	<1.32	<1.33	<1.16	<0.926	<0.918	<0.918	<1.08	<0.962	<1.32	<2.56	<1.13	<1.12	<1.00	<0.999	<0.875	<1.01	<0.993	<1.54	<2.02	<1.20	<1.18	<1.11
bis(2-Chloroethyl)ether	mg/kg	<0.440	<0.455	<0.660	<0.666	<0.582	<0.464	<0.461	<0.460	<0.540	<0.483	<0.663	<1.28	<0.567	<0.564	<0.503	<0.501	<0.439	<0.506	<0.498	<0.153	<0.506	<0.604	<0.593	<0.558
bis(2-chloroisopropyl)Ether	mg/kg	<0.440	<0.455	<0.660	<0.666	<0.582	<0.464	<0.461	<0.460	<0.540	<0.483	<0.663	<1.28	<0.567	<0.564	<0.503	<0.501	<0.439	<0.506	<0.498	<0.153	<0.506	<0.604	<0.593	<0.558
bis(2-Ethylhexyl)phthalate	mg/kg	<0.877	<0.907	<1.32	<1.33	<1.16	<0.926	<0.918	<0.918	<1.08	<0.962	<1.32	<2.56	<1.13	<1.12	<1.00	<0.999	<0.875	<1.01	<0.993	<1.54	<2.02	<1.20	<1.18	<1.11
Butylbenzylphthalate	mg/kg	<0.877	<0.907	<1.32	<1.33	<1.16	<0.926	<0.918	<0.918	<1.08	<0.962	<1.32	<2.56	<1.13	<1.12	<1.00	<0.999	<0.875	<1.01	<0.993	<1.54	<2.02	<1.20	<1.18	<1.11
Chrysene	mg/kg	2.73	1.01	<0.660	<0.666	<0.582	<0.464	<0.461	<0.460	0.722	<0.483	<0.663	<1.28	<0.567	<0.564	<0.503	<0.501	<0.439	3.72	<0.498	<0.774	<1.01	<0.604	<0.593	<0.558
Dibenzo(a,h)Anthracene	mg/kg	0.449	<0.455	<0.660	<0.666	<0.582	<0.464	<0.461	<0.460	<0.540	<0.483	<0.663	<1.28	<0.567	<0.564	<0.503	<0.501	<0.439	<0.506	<0.498	<0.774	<1.01	<0.604	<0.593	<0.558
Dibenzofuran	mg/kg	<0.877	<0.907	<1.32	<1.33	<1.16	<0.926	<0.918	<0.918	<1.08	<0.962	<1.32	<2.56	<1.13	<1.12	<1.00	<0.999	<0.875	<1.01	<0.993	<1.54	<2.02	<1.20	<1.18	<1.11
Diethylphthalate	mg/kg	<0.877	<0.907	<1.32	<1.33	<1.16	<0.926	<0.918	<0.918	<1.08	<0.962	<1.32	<2.56	<1.13	<1.12	<1.00	<0.999	<0.875	<1.01	<0.993	<1.54	<2.02	<1.20	<1.18	<1.11
Dimethylphthalate	mg/kg	<0.877	<0.907	<1.32	<1.33	<1.16	<0.926	<0.918	<0.918	<1.08	<0.962	<1.32	<2.56	<1.13	<1.12	<1.00	<0.999	<0.875	<1.01	<0.993	<1.54	<2.02	<1.20	<1.18	<1.11
Di-n-butylphthalate	mg/kg	<0.877	<0.907	<1.32	<1.33	<1.16	<0.926	<0.918	<0.918	<1.08	<0.962	<1.32	<2.56	<1.13	<1.12	<1.00	<0.999	<0.875	<1.01	<0.993	<1.54	<2.02	<1.20	<1.18	<1.11
Di-n-octylphthalate	mg/kg	<0.877	<0.907	<1.32	<1.33	<1.16	<0.926	<0.918	<0.918	<1.08	<0.962	<1.32	<2.56	<1.13	<1.12	<1.00	<0.999	<0.875	<1.01	<0.993	<1.54	<2.02	<1.20	<1.18	<1.11
Fluoranthene	mg/kg	6.13	1.86	<1.32	<1.33	<1.16	<0.926	<0.918	<0.918	1.24	<0.962	<1.32	<2.56	<1.13	<1.12	<1.00	<0.999	<0.875	6.08	<0.993	<1.54	<2.02	<1.20	<1.18	<1.11
Fluorene	mg/kg	<0.877	<0.907	<1.32	<1.33	<1.16	<0.926	<0.918	<0.918	<1.08	<0.962	<1.32	<2.56	<1.13	<1.12	<1.00	<0.999	<0.875	<1.01	<0.993	<1.54	<2.02	<1.20	<1.18	<1.11
Hexachlorobenzene	mg/kg	<0.440	<0.455	<0.660	<0.666	<0.582	<0.464	<0.461	<0.460	<0.540	<0.483	<0.663	<1.28	<0.567	<0.564	<0.503	<0.501	<0.439	<0.506	<0.498	<0.774	<1.01	<0.604	<0.593	<0.558
Hexachlorobutadiene	mg/kg	<0.877	<0.907	<1.32	<1.33	<1.16	<0.926	<0.918	<0.918	<1.08	<0.962	<1.32	<2.56	<1.13	<1.12	<1.00	<0.999	<0.875	<1.01	<0.993	<1.54	<2.02	<1.20	<1.18	<1.11
Hexachloroethane	mg/kg	<0.877	<0.907	<1.32	<1.33	<1.16	<0.926	<0.918	<0.918	<1.08	<0.962	<1.32	<2.56	<1.13	<1.12	<1.00	<0.999	<0.875	<1.01	<0.993	<1.54	<2.02	<1.20	<1.18	<1.11
Indeno(1,2,3-cd)Pyrene	mg/kg	<0.877	<0.907	<1.32	<1.33	<1.16	<0.926	<0.918	<0.918	<1.08	<0.962	<1.32	<2.56	<1.13	<1.12	<1.00	<0.999	<0.875	<1.01	<0.993	<1.54	<2.02	<1.20	<1.18	<1.11
Isophorone	mg/kg	<0.877	<0.907	<1.32	<1.33	<1.16	<0.926	<0.918	<0.918	<1.08	<0.962	<1.32	<2.56	<1.13	<1.12	<1.00	<0.999	<0.875	<1.01	<0.993	<1.54	<2.02	<1.20	<1.18	<1.11
Naphthalene	mg/kg	<0.877	<0.907	<1.32	<1.33	<1.16	<0.926	<0.918	<0.918	<1.08	<0.962	<1.32	<2.56	<1.13	<1.12	<1.00	<0.999	<0.875	<1.01	<0.993	<1.54	<2.02	<1.20	<1.18	<1.11
Nitrobenzene	mg/kg	<0.877	<0.907	<1.32	<1.33	<1.16	<0.926	<0.918	<0.918	<1.08	<0.962	<1.32	<2.56	<1.13	<1.12	<1.00	<0.999	<0.875	<1.01	<0.993	<1.54	<2.02	<1.20	<1.18	<1.11
N-Nitrosodimethylamine	mg/kg	<0.877	<0.907	<1.32	<1.33	<1.16	<0.926	<0.918	<0.918	<1.08	<0.962	<1.32	<2.56	<1.13	<1.12	<1.00	<0.999	<0.875	<1.01	<0.993	<1.54	<2.02	<1.20	<1.18	<1.11
Pentachlorophenol	mg/kg	<4.40	<4.55	<6.60	<6.66	<5.82	<4.64	<4.61	<4.60	<5.40	<4.83	<6.63	<12.8	<5.67	<5.64	<5.03	<5.01	<4.39	<5.06	<4.98	<7.74	<10.1	<6.04	<5.93	<5.58
Phenanthrene	mg/kg	4.82	1.32	<1.32	<1.33	<1.16	<0.926	<0.918	<0.918	<1.08	<0.962	<1.32	<2.56	<1.13	<1.12	<1.00	<0.999	<0.875	1.92	<0.993	<1.54	<2.02	<1.20	<1.18	<1.11
Phenol	mg/kg	<0.877	<0.907	<1.32	<1.33	<1.16	<0.926	<0.918	<0.918	<1.08	<0.962	<1.32	<2.56	<1.13	<1.12	<1.00	<0.999	<0.875	<1.01	<0.993	<1.54	<2.02	<1.20	<1.18	<1.11
Pyrene	mg/kg	9.15	1.86	<1.32	<1.33	<1.16	<0.926	<0.918	<0.918	1.16	<0.962	<1.32	<2.56	<1.13	<1.12	<1.00	<0.999	<0.875	5.78	<0.993	<1.54	<2.02	<1.20	<1.18	<1.11
Total SVOCs	mg/kg	35.319	7.915	ND	ND	ND	ND	ND	ND	3.793	ND	ND	7.29	ND	ND	ND	ND	ND	33.88	ND	ND	ND	ND	ND	ND
Classic Chemistry																									
Corrosivity (pH)	S.U.	8.72	11.1	8.62	8.59	8.64	8.18	8.01	7.94	5.69	5.64	8.19	8.27	8.45	8.29	8.2	8.03	8.54	5.29	5.81	7.92	8.04	8.33	8.27	8.12
Conductivity	umhos/cm	898	1210	7330	6450	7790	3010	4640	1290	1840	1800	3930	15100	8090	11600	5420	3410	345	319	531	1480	9080	11000	10500	6980
Flashpoint	°F	>200	>200	--	--	--	--	--	>200	>200	>200	--	--	--	--	--	--	>200	>200	>200	--	--	--	--	--
Reactive Cyanide	mg/kg	<2.0	<2.0	--	--	--	--	--	<2.0	<2.0	<2.0	--	--	--	--	--	--	<2.0	<2.0	<2.0	--	--	--	--	--
Reactive Sulfide	mg/kg	<2.0	<2.0	--	--	--	--	--	<2.0	<2.0	<2.0	--	--	--	--	--	--	<2.0	<2.0	<2.0	--	--	--	--	--

Table 1
Soil Precharacterization Data

Wynn Resort Casino
Everett, Massachusetts

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	M17 M17S11S12 1501563 Natural Clay 34 - 38 1/30/2015	M18 M18S01S02A 1501563 Fill 0 - 3.3 1/30/2015	M18 M18S02BS04A 1501563 Fill 3.3 - 6.6 1/30/2015	M18 M18S04B 1501563 Fill 6.6 - 7 1/30/2015	M18 M18S05 1501563 Natural Organics 8 - 10 1/30/2015	M18 M18S06 1501563 Natural Organics 14 - 16 1/30/2015	M18 M18S07 1501563 Natural Organics 19 - 21 1/30/2015	M18 M18S08 1502051 Natural Organics 24 - 26 2/4/2015	M18 M18S09 1502051 Natural Organics 29 - 31 2/4/2015	M18 M18S10 1502051 Natural Sand/Gravel 34 - 36 2/4/2015	M18 M18S11 1502051 Natural Sand/Gravel 36 - 38 2/4/2015	Stockpile 1 SP01S01 1503163 Fill -- 3/10/2015	Stockpile 1 SP01S02 1503163 Fill -- 3/10/2015	Stockpile 1 SP01S03 1503163 Fill -- 3/10/2015	Stockpile 1 SP01S04 1503163 Fill -- 3/10/2015	Stockpile 2 SP02S01 1503163 Fill -- 3/10/2015	Stockpile 2 SP02S02 1503163 Fill -- 3/10/2015	Stockpile 2 SP02S03 1503163 Fill -- 3/10/2015	Stockpile 2 SP02S04 1503163 Fill -- 3/10/2015	Stockpile 3 SP03S01 1503163 Fill -- 3/10/2015	Stockpile 3 SP03S02 1503163 Fill -- 3/10/2015	Stockpile 3 SP03S03 1503163 Fill -- 3/10/2015	Stockpile 3 SP03S04 1503163 Fill -- 3/10/2015	Stockpile 3 SP03S05 1503163 Fill -- 3/10/2015
Preliminary Disposal Facility Category		MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	Uncontaminated	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type B-1	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A
RCRA 8 Metals	**Units**																								
Arsenic	mg/kg	<7.39	8.51	111	134	81.8	<15.8	<9.57	<9.07	<8.32	<6.95	<6.53	<7.09	<6.33	<7.16	7.48	8.51	8.13	14.3	12.3	15.7	18.2	14.3	24.4	6.24
Barium	mg/kg	85.4	36.8	123	67	19.4	36.9	35.2	31	18.4	14.1	24.8	18.4	11.9	17.8	67.8	76	84.9	287	210	37.3	60	44.9	62.8	47.1
Cadmium	mg/kg	<1.48	<1.36	2.26	<1.43	<1.61	<3.15	<1.91	<1.81	<1.66	<1.39	<1.31	<1.42	<1.27	<1.43	<1.36	<1.48	<1.29	2.85	1.69	<1.46	<1.66	<1.56	<1.66	<1.21
Chromium	mg/kg	37.1	11.5	14.8	15.5	20.2	33.4	32.2	27.5	19.2	5.26	21.5	10.9	6.79	11.6	18.6	38	34.6	120	96.1	31.5	31.4	36.2	30.5	16.6
Lead	mg/kg	<14.8	38.5	407	274	32.2	<31.5	<19.1	<18.1	<16.6	<13.9	<13.1	20.7	<12.7	17.8	161	610	1100	8500	6240	51.3	101	102	106	64.8
Selenium	mg/kg	<7.39	<6.78	<8.10	8.13	<8.05	<15.8	<9.57	<9.07	<8.32	<6.95	<6.53	<7.09	<6.33	<7.16	<6.80	<7.39	<6.47	<5.97	<7.76	<7.29	<8.31	<7.80	<8.31	<6.07
Silver	mg/kg	<1.48	<1.36	6.49	<1.43	<1.61	<3.15	<1.91	<1.81	<1.66	<1.39	<1.31	<1.42	<1.27	<1.43	<1.36	<1.48	<1.29	<2.99	<1.55	<1.46	<1.66	<1.56	<1.66	<1.21
Mercury	mg/kg	<0.034	0.437	0.146	5.57	0.181	<0.063	<0.051	<0.041	<0.035	<0.034	<0.036	<0.035	<0.033	<0.029	0.27	0.172	0.113	0.797	0.662	0.155	0.168	0.181	0.192	0.08
Metals by Toxicity Characteristic Leaching Procedure (TCLP)																									
Arsenic	mg/L	--	--	<0.050	0.294	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.200	--	--	--	--	--	--
Lead	mg/L	--	--	1.13	3.15	--	--	--	--	--	--	--	--	--	--	<0.500	<0.500	<0.500	<0.500	0.698	--	<0.500	<0.500	<0.500	--
Selenium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	mg/L	--	--	--	<0.00050	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Herbicides																									
2,4,5-T	mg/kg	--	<0.28	<0.064	<0.070	--	--	<0.076	--	--	--	--	<0.51	<0.53	<0.53	<0.56	<0.25	<0.35	<0.27	<0.27	<0.055	<0.066	<0.060	<0.063	<0.055
2,4-D	mg/kg	--	<0.28	<0.064	<0.070	--	--	<0.076	--	--	--	--	<0.51	<0.53	<0.53	<0.56	<0.25	<0.35	<0.27	<0.27	<0.055	<0.066	<0.060	<0.063	<0.055
2,4-DB	mg/kg	--	<0.28	<0.064	<0.070	--	--	<0.076	--	--	--	--	<0.51	<0.53	<0.53	<0.56	<0.25	<0.35	<0.27	<0.27	<0.055	<0.066	<0.060	<0.063	<0.055
Dalapon	mg/kg	--	<3.4	<0.77	<0.84	--	--	<0.92	--	--	--	--	<6.1	<6.4	<6.3	<6.8	<3.0	<4.2	<3.2	<3.3	<0.66	<0.79	<0.72	<0.75	<0.66
Dicamba	mg/kg	--	<0.28	<0.064	<0.070	--	--	<0.076	--	--	--	--	<0.51	<0.53	<0.53	<0.56	<0.25	<0.35	<0.27	<0.27	<0.055	<0.066	<0.060	<0.063	<0.055
Dichlorprop	mg/kg	--	<0.28	<0.064	<0.070	--	--	<0.076	--	--	--	--	<0.51	<0.53	<0.53	<0.56	<0.25	<0.35	<0.27	<0.27	<0.055	<0.066	<0.060	<0.063	<0.055
Dinoseb	mg/kg	--	<1.7	<0.39	<0.42	--	--	<0.46	--	--	--	--	<3.1	<3.2	<3.2	<3.4	<1.5	<2.1	<1.6	<1.7	<0.33	<0.40	<0.36	<0.38	<0.33
MCPA	mg/kg	--	<67	<15	<17	--	--	<18	--	--	--	--	<120	<130	<130	<140	<61	<83	<64	<66	<13	<16	<14	<15	<13
MCPP	mg/kg	--	<67	<15	<17	--	--	<18	--	--	--	--	<120	<130	<130	<140	<61	<83	<64	<66	<13	<16	<14	<15	<13
Silvex (2,4,5-TP)	mg/kg	--	<0.28	<0.064	<0.070	--	--	<0.076	--	--	--	--	<0.51	<0.53	<0.53	<0.56	<0.25	<0.35	<0.27	<0.27	<0.055	<0.066	<0.060	<0.063	<0.055
Pesticides																									
4,4'-DDD	mg/kg	--	<0.038	<0.0023	<0.0026	--	--	<0.0026	--	--	--	--	<0.15	<0.036	<0.036	<0.076	<0.018	<0.048	<0.039	<0.040	0.011	0.018	0.016	<0.011	<0.0096
4,4'-DDE	mg/kg	--	<0.038	<0.0023	<0.0026	--	--	<0.0026	--	--	--	--	<0.15	<0.036	<0.036	<0.076	<0.018	<0.048	<0.039	<0.040	0.051	0.13	0.07	0.018	<0.0096
4,4'-DDT	mg/kg	--	<0.038	<0.0023	<0.0026	--	--	<0.0026	--	--	--	--	<0.15	<0.036	<0.036	<0.076	<0.018	<0.048	<0.039	<0.040	0.022	0.13	0.035	0.013	<0.0096
Aldrin	mg/kg	--	<0.038	<0.0023	<0.0026	--	--	<0.0026	--	--	--	--	<0.15	<0.036	<0.036	<0.076	<0.018	<0.048	<0.039	<0.040	<0.0097	<0.011	<0.011	<0.011	<0.0096
alpha-BHC	mg/kg	--	<0.038	<0.0023	<0.0026	--	--	<0.0026	--	--	--	--	<0.15	<0.036	<0.036	<0.076	<0.018	<0.048	<0.039	<0.040	<0.0097	<0.011	<0.011	<0.011	<0.0096
beta-BHC	mg/kg	--	<0.038	<0.0023	<0.0026	--	--	<0.0026	--	--	--	--	<0.15	<0.036	<0.036	<0.076	<0.018	<0.048	<0.039	<0.040	<0.0097	<0.011	<0.011	<0.011	<0.0096
Chlordane (technical)	mg/kg	--	<0.38	<0.023	<0.026	--	--	<0.026	--	--	--	--	<1.5	<0.36	<0.36	<0.76	<0.18	<0.48	<0.39	<0.40	<0.097	<0.11	<0.11	<0.11	<0.096
delta-BHC	mg/kg	--	<0.038	<0.0023	<0.0026	--	--	<0.0026	--	--	--	--	<0.15	<0.036	<0.036	<0.076	<0.018	<0.048	<0.039	<0.040	<0.0097	<0.011	<0.011	<0.011	<0.0096
Dieldrin	mg/kg	--	<0.038	<0.0023	<0.0026	--	--	<0.0026	--	--	--	--	<0.15	<0.036	<0.036	<0.076	<0.018	<0.048	<0.039	<0.040	<0.0097	<0.011	<0.011	<0.011	<0.0096
Endosulfan I	mg/kg	--	<0.038	<0.0023	<0.0026	--	--	<0.0026	--	--	--	--	<0.15	<0.036	<0.036	<0.076	<0.018	<0.048	<0.039	<0.040	<0.0097	<0.011	<0.011	<0.011	<0.0096
Endosulfan II	mg/kg	--	<0.038	<0.0023	<0.0026	--	--	<0.0026	--	--	--	--	<0.15	<0.036	<0.036	<0.076	<0.018	<0.048	<0.039	<0.040	<0.0097	<0.011	<0.011	<0.011	<0.0096
Endosulfan sulfate	mg/kg	--	<0.038	<0.0023	<0.0026	--	--	<0.0026	--	--	--	--	<0.15	<0.036	<0.036	<0.076	<0.018	<0.048	<0.039	<0.040	<0.0097	<0.011	<0.011	<0.011	<0.0096
Endrin	mg/kg	--	<0.038	<0.0023	<0.0026	--	--	<0.0026	--	--	--	--	<0.15	<0.036	<0.036	<0.076	<0.018	<0.048	<0.039	<0.040	<0.0097	<0.011	<0.011	<0.011	<0.0096
Endrin ketone	mg/kg	--	<0.038	<0.0023	<0.0026	--	--	<0.0026	--	--	--	--	<0.15	<0.036	<0.036	<0.076	<0.018	<0.048	<0.039	<0.040	<0.0097	<0.011	<0.011	<0.011	<0.0096
gamma-BHC (Lindane)	mg/kg	--	<0.038	<0.0023	<0.0026	--	--	<0.0026	--	--	--	--	<0.15	<0.036	<0.036	<0.076	<0.018	<0.048	<0.039	<0.040	<0.0097	<0.011	<0.011	<0.011	<0.0096
Heptachlor	mg/kg	--	<0.038	<0.0023	<0.0026	--	--	<0.0026	--	--	--	--	<0.15	<0.036	<0.036	<0.076	<0.018	<0.048	<0.039	<0.040	<0.0097	<0.011	<0.011	<0.011	<0.0096
Heptachlor epoxide	mg/kg	--	<0.038	<0.0023	<0.0026	--	--	<0.0026	--	--	--	--	<0.15	<0.036	<0.036	<0.076	<0.018	<0.048	<0.039	<0.040	<0.0097	<0.011	<0.011	<0.011	<0.0096
Hexachlorobenzene	mg/kg	--	<0.038	<0.0023	<0.0026	--	--	0.0041	--	--	--	--	<0.15	<0.036	<0.036	<0.076	<0.018	<0.048	<0.039	<0.040	<0.0097	<0.011	<0.011	<0.011	<0.0096
Methoxychlor	mg/kg	--	<0.038	<0.0023	<0.0026	--	--	<0.0026	--	--	--	--	<0.15	<0.036	<0.036	<0.076	<0.018	<0.048	<0.039	<0.040	<0.0097	<0.011	<0.011	<0.011	<0.0096
Polychlorinated Biphenyls																									
Aroclor 1016	mg/kg	<0.152	<0.129	<0.147	<0.153	<0.166	<0.272	<0.184	<0.178	<0.169	<0.130	<0.140	<0.132	<0.128	<0.132	<0.116	<0.128	<0.141	<0.140	<0.134	<0.137	<0.156	<0.140	<0.141	<0.126
Aroclor 1221	mg/kg	<0.152	<0.129	<0.147	<0.153	<0.166	<0.272	<0.184	<0.178	<0.169	<0.130	<0.140	<0.132	<0.128	<0.132	<0.116	<0.128	<0.141	<0.140	<0.134	<0.137	<0.156	<0.140	<0.141	<0.126
Aroclor 1232	mg/kg	<0.152	<0.129	<0.147	<0.153	<0.166	<0.272	<0.184	<0.178	<0.169	<0.130	<0.140	<0.132	<0.128	<0.132	<0.116	<0.128	<0.141	<0.140	<0.134	<0.137	<0.156	<0.140	<0.141	<0.126
Aroclor 1242	mg/kg	<0.152	<0.129	<0.147	<0.153	<0.166	<0.272	<0.184	<0.178	<0.169	<0.130	<0.140	<0.132	<0.128	<0.132	<0.116	<0.128	<0.141	1.05	0.482	<0.137	<0.156	<0.140	<0.141	<0.126
Aroclor 1248	mg/kg	<0.152	<0.129	<0.147	<0.153	<0.166	<0.272	<0.184	<0.178	<0.169	<0.130	<0.140	<0.132	<0.128	<0.132	<0.116	<0.128	<0.141	<0.140	<0.134	<0.137	<0.156	<0.140	<0.141	<0.126
Aroclor 1254	mg/kg	<0.152	<0.129	<0.147	<0.153	<0.166	<0.272	<0.184	<0.178	<0.169	<0.130	<0.140	<0.132	<0.128	<0.132	<0.116	0.155	<0.141	<0.140	<0.134	<0.137	<0.156	<0.140	<0.141	<0.126
Aroclor 1260	mg/kg	<0.152	<0.129	<0.147	<0.153	<0.166	<0.272	<0.184	<0.178	<0.169	<0.130	<0.140	<0.132	<0.128	<0.132	0.158	<0.128	<0.141	0.192	0.184	<0.137	<0.156	<0.140	<0.141	<0.126
Aroclor 1262	mg/kg	<0.152	<0.129	<0.147	<0.153	<0.166	<0.272	<0.184	<0.178	<0.169	<0.130	<0.140	<0.132	<0.128	<0.132	<0.116	<0.128	<0.141	<0.140	<0.134	<0.137	<0.156	<0.140	<0.141	<0.126
Aroclor 1268	mg/kg	<0.152	<0.129	<0.147	<0.153	<0.166	<0.272	<0.184	<0.178	<0.169	<0.130	<0.140	<0.132	<0.128	<0.132	<0.116	<0.128	<0.141	<0.140	<0.134	<0.137	<0.156	<0.140	<0.141	<0.126
Total PCBs	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.158	0.155	ND	1.242	0.666	ND	ND	ND	ND	ND
Total Petroleum Hydrocarbons	mg/kg	<45.5	519	61.7	97.8	63.1	573	83.3	<54.8	<53.2	<39.2	<42.3	4050	1370	2130	2240	234	290	826	675	318	493	168	182	88.1
Volatile Organic Compounds (VOCs)																									
1,1,1,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-Chloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane - Screen	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Butanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Isopropyltoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-Pentanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Disulfide	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Analyte	Precharacterization Cell	M17	M18	M18	M18	M18	M18	M18	M18	M18	M18	M18	Stockpile 1	Stockpile 1	Stockpile 1	Stockpile 1	Stockpile 2	Stockpile 2	Stockpile 2	Stockpile 2	Stockpile 3	Stockpile 3	Stockpile 3	Stockpile 3
	Sample ID	M17S11S12	M18S01S02A	M18S02BS04A	M18S04B	M18S05	M18S06	M18S07	M18S08	M18S09	M18S10	M18S11	SP01S01	SP01S02	SP01S03	SP01S04	SP02S01	SP02S02	SP02S03	SP02S04	SP03S01	SP03S02	SP03S03	SP03S04	SP03S05
	Laboratory Work Order	1501563	1501563	1501563	1501563	1501563	1501563	1501563	1502051	1502051	1502051	1502051	1503163	1503163	1503163	1503163	1503163	1503163	1503163	1503163	1503163	1503163	1503163	1503163	1503163
	Soil Distinction	Natural	Fill	Fill	Fill	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill
	Soil Type	Clay				Organics	Organics	Organics	Organics	Organics	Sand/Gravel	Sand/Gravel													
	Depth Interval (ft.)	34 - 38	0 - 3.3	3.3 - 6.6	6.6 - 7	8 - 10	14 - 16	19 - 21	24 - 26	29 - 31	34 - 36	36 - 38	--	--	--	--	--	--	--	--	--	--	--	--	--
	Sampling Date	1/30/2015	1/30/2015	1/30/2015	1/30/2015	1/30/2015	1/30/2015	1/30/2015	2/4/2015	2/4/2015	2/4/2015	2/4/2015	3/10/2015	3/10/2015	3/10/2015	3/10/2015	3/10/2015	3/10/2015	3/10/2015	3/10/2015	3/10/2015	3/10/2015	3/10/2015	3/10/2015	3/10/2015
Preliminary Disposal Facility Category		MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	Uncontaminated	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type B-1	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A
Chlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Diethyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Di-isopropyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethyl tertiary-butyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
tert-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tertiary-amyl methyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene O	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene P,M	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylenes (Total)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total VOCs	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds - Low Level Analysis																									
1,1,1,2-Tetrachloroethane	mg/kg	<0.0034	<0.0041	<0.0039	<0.0039	<0.0040	<0.0111	<0.0049	<0.0046	<0.0041	<0.0031	<0.0037	<0.0060	<0.0052	<0.0048	<0.0041	<0.0046	<0.0048	<0.0046	<0.0050	<0.0057	<0.0077	<0.0059	<0.0059	<0.0047
1,1,1-Trichloroethane	mg/kg	<0.0034	<0.0041	<0.0039	<0.0039	<0.0040	<0.0111	<0.0049	<0.0046	<0.0041	<0.0031	<0.0037	<0.0060	<0.0052	<0.0048	<0.0041	<0.0046	<0.0048	<0.0046	<0.0050	<0.0057	<0.0077	<0.0059	<0.0059	<0.0047
1,1,2,2-Tetrachloroethane	mg/kg	<0.0014	<0.0017	<0.0015	<0.0016	<0.0016	<0.0044	<0.0020	<0.0018	<0.0017	<0.0012	<0.0015	<0.0024	<0.0021	<0.0019	<0.0016	<0.0018	<0.0019	<0.0018	<0.0020	<0.0023	<0.0031	<0.0024	<0.0024	<0.0019
1,1,2-Trichloroethane	mg/kg	<0.0034	<0.0041	<0.0039	<0.0039	<0.0040	<0.0111	<0.0049	<0.0046	<0.0041	<0.0031	<0.0037	<0.0060	<0.0052	<0.0048	<0.0041	<0.0046	<0.0048	<0.0046	<0.0050	<0.0057	<0.0077	<0.0059	<0.0059	<0.0047
1,1-Dichloroethane	mg/kg	<0.0034	<0.0041	<0.0039	<0.0039	<0.0040	<0.0111	<0.0049	<0.0046	<0.0041	<0.0031	<0.0037	<0.0060	<0.0052	<0.0048	<0.0041	<0.0046	<0.0048	<0.0046	<0.0050	<0.0057	<0.0077	<0.0059	<0.0059	<0.0047
1,1-Dichloroethene	mg/kg	<0.0034	<0.0041	<0.0039	<0.0039	<0.0040	<0.0111	<0.0049	<0.0046	<0.0041	<0.0031	<0.0037	<0.0060	<0.0052	<0.0048	<0.0041	<0.0046	<0.0048	<0.0046	<0.0050	<0.0057	<0.0077	<0.0059	<0.0059	<0.0047
1,1-Dichloropropene	mg/kg	<0.0034	<0.0041	<0.0039	<0.0039	<0.0040	<0.0111	<0.0049	<0.0046	<0.0041	<0.0031	<0.0037	<0.0060	<0.0052	<0.0048	<0.0041	<0.0046	<0.0048	<0.0046	<0.0050	<0.0057	<0.0077	<0.0059	<0.0059	<0.0047
1,2,3-Trichlorobenzene	mg/kg	<0.0034	<0.0041	<0.0039	<0.0039	<0.0040	<0.0111	<0.0049	<0.0046	<0.0041	<0.0031	<0.0037	<0.0060	<0.0052	<0.0048	<0.0041	<0.0046	<0.0048	<0.0046	<0.0050	<0.0057	<0.0077	<0.0059	<0.0059	<0.0047
1,2,3-Trichloropropane	mg/kg	<0.0034	<0.0041	<0.0039	<0.0039	<0.0040	<0.0111	<0.0049	<0.0046	<0.0041	<0.0031	<0.0037	<0.0060	<0.0052	<0.0048	<0.0041	<0.0046	<0.0048	<0.0046	<0.0050	<0.0057	<0.0077	<0.0059	<0.0059	<0.0047
1,2,4-Trichlorobenzene	mg/kg	<0.0034	<0.0041	<0.0039	<0.0039	<0.0040	<0.0111	<0.0049	<0.0046	<0.0041	<0.0031	<0.0037	<0.0060	<0.0052	<0.0048	<0.0041	<0.0046	<0.0048	<0.0046	<0.0050	<0.0057	<0.0077	<0.0059	<0.0059	<0.0047
1,2,4-Trimethylbenzene	mg/kg	<0.0034	<0.0041	<0.0039	<0.0039	<0.0040	<0.0111	<0.0049	<0.0046	<0.0041	<0.0031	<0.0037	<0.0060	<0.0052	<0.0048	<0.0041	<0.0046	<0.0048	<0.0046	<0.0050	<0.0057	<0.0077	<0.0059	<0.0059	<0.0047
1,2-Dibromo-3-Chloropropane	mg/kg	<0.0034	<0.0041	<0.0039	<0.0039	<0.0040	<0.0111	<0.0049	<0.0046	<0.0041	<0.0031	<0.0037	<0.0060	<0.0052	<0.0048	<0.0041	<0.0046	<0.0048	<0.0046	<0.0050	<0.0057	<0.0077	<0.0059	<0.0059	<0.0047
1,2-Dibromoethane	mg/kg	<0.0034	<0.0041	<0.0039	<0.0039	<0.0040	<0.0111	<0.0049	<0.0046	<0.0041	<0.0031	<0.0037	<0.0060	<0.0052	<0.0048	<0.0041	<0.0046	<0.0048	<0.0046	<0.0050	<0.0057	<0.0077	<0.0059	<0.0059	<0.0047
1,2-Dichlorobenzene	mg/kg	<0.0034	<0.0041	<0.0039	<0.0039	<0.0040	<0.0111	<0.0049	<0.0046	<0.0041	<0.0031	<0.0037	<0.0060	<0.0052	<0.0048	<0.0041	<0.0046	<0.0048	<0.0046	<0.0050	<0.0057	<0.0077	<0.0059	<0.0059	<0.0047
1,2-Dichloroethane	mg/kg	<0.0034	<0.0041	<0.0039	<0.0039	<0.0040	<0.0111	<0.0049	<0.0046	<0.0041	<0.0031	<0.0037	<0.0060	<0.0052	<0.0048	<0.0041	<0.0046	<0.0048	<0.0046	<0.0050	<0.0057	<0.0077	<0.0059	<0.0059	<0.0047
1,2-Dichloropropane	mg/kg	<0.0034	<0.0041	<0.0039	<0.0039	<0.0040	<0.0111	<0.0049	<0.0046	<0.0041	<0.0031	<0.0037	<0.0060	<0.0052	<0.0048	<0.0041	<0.0046	<0.0048	<0.0046	<0.0050	<0.0057	<0.0077	<0.0059	<0.0059	<0.0047
1,3,5-Trimethylbenzene	mg/kg	<0.0034	<0.0041	<0.0039	<0.0039	<0.0040	<0.0111	<0.0049	<0.0046	<0.0041	<0.0031	<0.0037	<0.0060	<0.0052	<0.0048	<0.0041	<0.0046	<0.0048	<0.0046	<0.0050	<0.0057	<0.0077	<0.0059	<0.0059	<0.0047
1,3-Dichlorobenzene	mg/kg	<0.0034	<0.0041	<0.0039	<0.0039	<0.0040	<0.0111	<0.0049	<0.0046	<0.0041	<0.0031	<0.0037	<0.0060	<0.0052	<0.0048	<0.0041	<0.0046	<0.0048	<0.0046	<0.0050	<0.0057	<0.0077	<0.0059	<0.0059	<0.0047
1,3-Dichloropropane	mg/kg	<0.0034	<0.0041	<0.0039	<0.0039	<0.0040	<0.0111	<0.0049	<0.0046	<0.0041	<0.0031	<0.0037	<0.0060	<0.0052	<0.0048	<0.0041	<0.0046	<0.0048	<0.0046	<0.0050	<0.0057	<0.0077	<0.0059	<0.0059	<0.0047
1,4-Dichlorobenzene	mg/kg	<0.0034	<0.0041	<0.0039	<0.0039	<0.0040	<0.0111	<0.0049	<0.0046	<0.0041	<0.0031	<0.0037	<0.0060	<0.0052	<0.0048	<0.0041	<0.0046	<0.0048	<0.0046	<0.0050	<0.0057	<0.0077	<0.0059	<0.0059	<0.0047
1,4-Dioxane	mg/kg	<0.0682	<0.0827	<0.0772	<0.0784	<0.0803	<0.222	<0.0987	<0.0921	<0.0827	<0.0620	<0.0739	<0.121	<0.104	<0.0963	<0.0820	<0.0914	<0.0952	<0.0915	<0.0993	<0.113	<0.153	<0.119	<0.119	<0.0932
2,2-Dichloropropane	mg/kg	<0.0034	<0.0041	<0.0039	<0.0039	<0.0040	<0.0111	<0.0049	<0.0046	<0.0041	<0.0031	<0.0037	<0.0060	<0.0052	<0.0048	<0.0041	<0.0046	<0.0048	<0.0046	<0.0050	<0.0057	<0.0077	<0.0059	<0.0059	<0.0047
2-Butanone	mg/kg	<0.0068	<0.0083	<0.0077	<0.0078	<0.0080	<0.0222	<0.0099	<0.0092	<0.0083	<0.0062	<0.0074	<0.0121	<0.0104	<0.0096	<0.0082	<0.0091	<0.0095	<0.0092	<0.0099	<0.0113	<0.0153	<0.0119	<0.0119	<0.0093
2-Chlorotoluene	mg/kg	<0.0034	<0.0041	<0.0039	<0.0039	<0.0040	<0.0111	<0.0049	<0.0046	<0.0041	<0.0031	<0.0037	<0.0060	<0.0052	<0.0048	<0.0041	<0.0046	<0.0048	<0.0046	<0.0050	<0.0057	<0.0077	<0.0059	<0.0059	<0.0047
2-Hexanone	mg/kg	<0.0068	<0.0083	<0.0077	<0.0078	<0.0080	<0.0222	<0.0099	<0.0092	<0.0083	<0.0062	<0.0074	<0.0121	<0.0104	<0.0096	<0.0082	<0.0091	<0.0095	<0.0092	<0.0099	<0.0113	<0.0153	<0.0119	<0.0119	<0.0093
4-Chlorotoluene	mg/kg	<0.0034	<0.0041	<0.0039	<0.0039	<0.0040	<0.0111	<0.0049	<0.0046	<0.0041	<0.0031	<0.0037	<0.0060	<0.0052	<0.0048	<0.0041	<0.0046	<0.0048	<0.0046	<0.0050	<0.0057	<0.0077	<0.0059	<0.0059	<0.0047
4-Isopropyltoluene	mg/kg	<0.0034	<0.0041	<0.0039	<0.0039	<0.0040	<0.0111	<0.0049	<0.0046	<0.0041	<0.0031	<0.0037	<0.0060	<0.0052	<0.0048	<0.0041	<0.0046	<0.0048	<0.0046	<0.0050	<0.0057	<0.0077	<0.0059	<0.0059	<0.0047
4-Methyl-2-Pentanone	mg/kg	<0.0068	<0.0083	<0.0077	<0.0078	<0.0080	<0.0222	<0.0099	<0.0092	<0.0083	<0.0062	<0.0074	<0.0121	<0.0104	<0.0096	<0.0082	<0.0091	<0.0095	<0.0092	<0.0099	<0.0113	<0.0153	<0.0119	<0.0119	<0.0093
Acetone	mg/kg	<0.0068	0.0513	0.0258	0.0342	0.0445	<0.0222	0.0156	0.0121	0.0133	<0.0062	0.0112	<0.0121	<0.0104	<0.0096	<0.0082	<0.0091	<0.0095	<0.0092	0.0151	<0.0113	<0.0153	<0.0119	<0.0119	<0.0093
Benzene	mg/kg	<0.0034	<0.0041	<0.0039	<0.0039	<0.0040	<0.0111	<0.0049	<0.0046	<0.0041	<0.0031	<0.0037	<0.0060	<0.0052	<0.0048	<0.0041	<0.0046	<0.0048	<0.0046	<0.0050	<0.0057	<0.0077	<0.0059	<0.0059	<0.0047
Bromobenzene	mg/kg	<0.0034	<0.0041	<0.0039	<0.0039	<0.0040	<0.0111	<0.0049	<0.0046	<0.0041	<0.0031	<0.0037	<0.0060	<0.0052	<0.0048	<0.0041	<0.0046	<0.0048	<0.0046	<0.0050	<0.0057	<0.0077	<0.0059	<0.0059	<0.0047
Bromochloromethane	mg/kg	<0.0034	<0.0041	<0.0039	<0.0039	<0.0040	<0.0111	<0.0049	<0.0046	<0.0041	<0.0031	<0.0037	<0.0060	<0.0052	<0.0048	<0.0041	<0.0046	<0.0048	<0.0046	<0.0050	<0.0057	<0.0077	<0.0059	<0.0059	<0.0047
Bromodichloromethane	mg/kg	<0.0034	<0.0041	<0.0039	<0.0039	<0.0040	<0.0111	<0.0049	<0.0046	<0.0041	<0.0031	<0.0037	<0.0060	<0.0052	<0.0048	<0.0041	<0.0046	<0.0048	<0.0046	<0.0050	<0.0057	<0.0077	<0.0059	<0.0059	<0.0047
Bromoform	mg/kg	<0.0034	<0.0041	<0.0039	<0.0039	<0.0040	<0.0111	<0.0049	<0.0046	<0.0041	<0.0031	<0.0037	<0.0060	<0.0052	<0.0048	<0.0041	<0.0046	<0.0048	<0.0046	<0.0050	<0.0057	<0.0077	<0.0059	<0.0059	<0.0047
Bromomethane	mg/kg	<0.0068	<0.0083	<0.0077	<0.0078	<0.0080	<0.0222	<0.0099	<0.0092	<0.0083	<0.0062	<0.0074	<0.0121	<0.0104	<0.0096	<0.0082	<0.0091	<0.0095	<0.0092	<0.0099	<0.0113	<0.0153	<0.0119	<0.0119	<0.0093
Carbon Disulfide	mg/kg	<0.0034	<0.0041	<0.0039	<0.0039	<0.0040	0.0283	0.005	0.005	0.0046	<0.0031	<0.0037	<0.0060	<0.0052	<0.0048	<0.0041	<0.0046	<0.0048	<0.0046	<0.0050	<0.0057	<0.0077	<0.0059	<0.0059	<0.0047
Carbon Tetrachloride	mg/kg	<0.0034	<0.0041	<0.0039	<0.0039	<0.0040	<0.0111	<0.0049	<0.0046	<0.0041	<0.0031	<0.0037	<0.0060	<0.0052	<0.0048	<0.0041	<0.0046	<0.0048	<0.0046	<0.0050	<0.0057	<0.0077	<0.0059	<0.0059	<0.0047
Chlorobenzene	mg/kg	<0.0034	<0.0041	<0.0039	<0.0039	<0.0040	<0.0111	<0.0049	<0.0046	<0.0041	<0.0031	<0.0037	<0.0060	<0.0052	<0.0048	<0.0041	<0.0046	<0.0048	<0.0046	<0.0050	<0.0057	<0.0077	<0.0059	<0.0059	<0.0047
Chloroethane	mg/kg	<0.0068	<0.0083	<0.0077	<0.0078	<0.0080	<0.0222	<0.0099	<0.0092	<0.0083	<0.0062	<0.0074	<0.0121	<0.0104	<0.0096	<0.0082	<0.0091	<0.0095	<0.0092	<0.0099	<0.0113	<0.0153	<0.0119	<0.0119	<0.0093
Chloroform	mg/kg	<0.0034	<0.0041	<0.0039	<0.0039	<0.0040	<0.0111	<0.0049	<0.0046	<0.0041	<0.0031	<0.0037	<0.0060	<0.0052	<0.0048	<0.0041	<0.0046	<0.0048	<0.0046	<0.0050	<0.0057	<0.0077	<0.0059	<0.0059	<0.0047
Chloromethane	mg/kg	<0.0068	<0.0083	<0.0077	<0.0078	<0.0080	<0.0222	<0.0099	<0.0092	<0.0083	<0.0062	<0.0074	<0.0121	<0.0104	<0.0096	<0.0082	<0.0091	<0.0095	<0.0092	<0.0099	<0.0113	<0.0153	<0.0119	<0.0119	<0.0093
cis-1,2-Dichloroethene	mg/kg	<0.0034	<0.0041	<0.0039	<0.0039	<0.0040	<0.0111	<0.0049	<0.0046	<0.0041	<0.0031	<0.0037	<0.0060	<0.0052	<0.0048	<0.0041	<0.0046	<0.0048	<0.0046	<0.0050	<0.0057	<0.0077	<0.0059	<0.0059	<0.0047
cis-1,3-Dichloropropene	mg/kg	<0.0034	<0.0041	<0.0039	<0.0039	<0.0040	<0.0111	<0.0049	<0.0046	<0.0041	<0.0031	<0.0037	<0.0060	<0.0052	<0.0048	<0.0041	<0.0046	<0.0048	<0.0046	<0.0050	<0.0057	<0.0077	<0.0059	<0.0059	<0.0047
Dibromochloromethane	mg/kg	<0.0014	<0.0017	<0.0015	<0.0016	<0.0016	<0.0044	<0.0020	<0.0018	<0.0017	<0.0012	<0.0015	<0.0024	<0.0021	<0.0019	<0.0016	<0.0018	<0.0019	<0.0018	<0.0020	<0.0023	<0.0031	<0.0024	<0.0024	<0.0019
Dibromomethane	mg/kg	<0.0034	<0.0041	<0.0039	<0.0039	<0.0040	<0.0111	<0.0049	<0.0046	<0.0041	<0.0031	<0.0037	<0.0060	<0.0052	<0.0048	<0.0041	<0.0046	<0.0048	<0.0046	<0.0050	<0.0057	<0.0077	<0.0059	<0.0059	<0.0047
Dichlorodifluoromethane	mg/kg	<0.0068	<0.0083	<0.0077	<0.0078	<0.0080	<0.0222	<0.0099	<0.0092	<0.0083	<0.0062	<0.0074	<0.0121	<0.0104	<0.0096	<0.0082	<0.0091	<0.0095	<0.0092	<0.0099	<0.0113	<0.0153	<0.0119	<0.0119	<0.0093
Diethyl Ether	mg/kg	<0.0034	<0.0041	<0.0039	<0.0039	<0.0040	<0.0111	<0.0049	<0.0046	<0.0041	<0.0031	<0.0037	<0.0060	<0.0052	<0.0048	<0.0041	<0.0046	<0.0048	<0.0046	<0.0050	<0.0057	<0.0077	<0.0059	<0.0059	<0.0047
Di-isopropyl ether	mg/kg	<0.0034	<0.0041	<0.0039	<0.0039	<0.0040	<0.0111	<0.0049	<0.0046	<0.0041	<0.0031	<0.0037	<0.0060	<0.0052	<0.0048	<0.0041	<0.0046	<0.0048	<0.0046	<0.0050	<0.0057	<0.0077	<0.0059	<0.0059	<0.0047
Ethyl tertiary-butyl ether	mg/kg	<0.0034	<0.0041	<0.0039	<0.0039	<0.0040	<0.0111	<0.0049	<0.0046	<0.0041	<0.0031	<0.0037	<0.0060	<0.0052	<0.0048	<0.0041	<0.0046	<0.0048	<0.0046	<0.0050	<0.0057	<0.0077	<0.0059	<0.0059	<0.0047
Ethylbenzene	mg/kg	<0.0034	<0.0041	<0.0039	<0.0039	<0.0040	<0.0111	<0.0049	<0.0046	<0.0041	<0.0031	<0.0037	<0.0060	<0.0052	<0.0048	<0.0041	<0.0046	<0.0048	<0.0046	<0.0050	<0.0057	<0.0077	<0.0059	<0.0059	<0.0047
Hexachlorobutadiene	mg/kg	<0.0034	<0.0041	<0.0039	<0.0039	<0.0040	<0.0111	<0.0049	<0.0046	<0.0041	<0.0031	<0.0037	<0.0060	<0.0052	<0.0048	<0.0041	<0.0046	<0.0048	<0.0046	<0.0050	<0.0057	<0.0077	<0.0059	<0.0059	<0.0047
Isopropylbenzene	mg/kg	<0.0034	<0.0041	<0.0039	<0.0039	<0.0040	<0.0111	<0.0049	<0.0046	<0.0041	<0.0031	<0.0037	<0.0060	<0.0052	<0.0048	<0.0041	<0.0046	<0.0048	<0.0046	<0.0050	<0.0057	<0.0077	<0.0059	<0.0059	<0.0047
Methyl tert-Butyl Ether	mg/kg	<0.0034	<0.0041	<0.0039	<0.0039	<0.0040	<0.0111	<0.0049	<0.0046	<0.0041	<0.0031	<0.0037	<0.0060	<0.0052	<0.0048	<0.0041	<0.0046	<0.0048	<0.0046	<0.0050	<0.0057	<0.0077	<0.0059	<0.0059	<0.0047
Methylene Chloride	mg/kg	<0.0068	<0.0083	<0.0077	<0.0078	<0.0080	<0.0222	<0.0099	<0.0092	<0.0083	<0.0062	<0.0074	<0.0121	<0.0104	<0.0096	<0.0082	<0.0091	<0.0095	<0.0092	<0.0099	<0.0113	<0.0153	<0.0119	<0.0119	<0.0093
Naphthalene	mg/kg	<0.0034	<0.0041	<0.0039	<0.0039	<0.0040	<0.0111	<0.0049	<0.0046	<0.0041	<0.0031	<0.0037	<0.0060	<0.0052	<0.0048	<0.0041	<0.0046	<0.0048	<0.0046	<0.0050	<0.0057	<0.0077	<0.0059	<0.0059	<0.0047
n-Butylbenzene	mg/kg	<0.0034	<0.0041	<0.0039	<0.0039	<0.0040	<0.0111	<0.0049	<0.0046	<0.0041	<0.0031	<0.0037	<0.0060	<0.0052	<0.0048	<0.0041	<0.0046	<0.0048	<0.0046	<0.0050	<0.0057	<0.0077	<0.0059	<0.0059	<0.0047
n-Propylbenzene	mg/kg	<0.0034	<0.0041	<0.0039	<0.0039	<0.0040	<0.0111	<0.0049	<0.0046	<0.0041	<0.0031	<0.0037	<0.0060	<0.0052	<0.0048	<0.0041	<0.0046	<0.0048	<0.0046	<0.0050	<0.0057	<0.0077	<0.0059	<0.0059	<0.0047
sec-Butylbenzene	mg/kg	<0.0034	<0.0041	<0.0039	<0.0039	<0.0040	<0.0111	<0.0049	<0.0046	<0.0041	<0.0031	<0.0037	<0.0060	<0.0052	<0.0048	<0.0041	<0.0046	<0.0048	<0.0046	<0.0050	<0.0057	<0.0077	<0.0059	<0.0059	<0.0047

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	M17 M17S11S12 1501563 Natural Clay 34 - 38 1/30/2015	M18 M18S01S02A 1501563 Fill 0 - 3.3 1/30/2015	M18 M18S02BS04A 1501563 Fill 3.3 - 6.6 1/30/2015	M18 M18S04B 1501563 Fill 6.6 - 7 1/30/2015	M18 M18S05 1501563 Natural Organics 8 - 10 1/30/2015	M18 M18S06 1501563 Natural Organics 14 - 16 1/30/2015	M18 M18S07 1501563 Natural Organics 19 - 21 1/30/2015	M18 M18S08 1502051 Natural Organics 24 - 26 2/4/2015	M18 M18S09 1502051 Natural Organics 29 - 31 2/4/2015	M18 M18S10 1502051 Natural Sand/Gravel 34 - 36 2/4/2015	M18 M18S11 1502051 Natural Sand/Gravel 36 - 38 2/4/2015	Stockpile 1 SP01S01 1503163 Fill -- 3/10/2015	Stockpile 1 SP01S02 1503163 Fill -- 3/10/2015	Stockpile 1 SP01S03 1503163 Fill -- 3/10/2015	Stockpile 1 SP01S04 1503163 Fill -- 3/10/2015	Stockpile 2 SP02S01 1503163 Fill -- 3/10/2015	Stockpile 2 SP02S02 1503163 Fill -- 3/10/2015	Stockpile 2 SP02S03 1503163 Fill -- 3/10/2015	Stockpile 2 SP02S04 1503163 Fill -- 3/10/2015	Stockpile 3 SP03S01 1503163 Fill -- 3/10/2015	Stockpile 3 SP03S02 1503163 Fill -- 3/10/2015	Stockpile 3 SP03S03 1503163 Fill -- 3/10/2015	Stockpile 3 SP03S04 1503163 Fill -- 3/10/2015	Stockpile 3 SP03S05 1503163 Fill -- 3/10/2015
Preliminary Disposal Facility Category		MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	Hazardous Material Type A	Uncontaminated	MCP Regulated Type A	MCP Regulated Type B-1	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type B-1	Hazardous Material Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A
Styrene	mg/kg	<0.0034	<0.0041	<0.0039	<0.0039	<0.0040	<0.0111	<0.0049	<0.0046	<0.0041	<0.0031	<0.0037	<0.0060	<0.0052	<0.0048	<0.0041	<0.0046	<0.0048	<0.0046	<0.0050	<0.0057	<0.0077	<0.0059	<0.0059	<0.0047
tert-Butylbenzene	mg/kg	<0.0034	<0.0041	<0.0039	<0.0039	<0.0040	<0.0111	<0.0049	<0.0046	<0.0041	<0.0031	<0.0037	<0.0060	<0.0052	<0.0048	<0.0041	<0.0046	<0.0048	<0.0046	<0.0050	<0.0057	<0.0077	<0.0059	<0.0059	<0.0047
Tertiary-amyl methyl ether	mg/kg	<0.0034	<0.0041	<0.0039	<0.0039	<0.0040	<0.0111	<0.0049	<0.0046	<0.0041	<0.0031	<0.0037	<0.0060	<0.0052	<0.0048	<0.0041	<0.0046	<0.0048	<0.0046	<0.0050	<0.0057	<0.0077	<0.0059	<0.0059	<0.0047
Tetrachloroethene	mg/kg	<0.0034	<0.0041	<0.0039	<0.0039	<0.0040	<0.0111	<0.0049	<0.0046	<0.0041	<0.0031	<0.0037	<0.0060	<0.0052	<0.0048	<0.0041	<0.0046	<0.0048	<0.0046	<0.0050	<0.0057	<0.0077	<0.0059	<0.0059	<0.0047
Tetrahydrofuran	mg/kg	<0.0034	<0.0041	<0.0039	<0.0039	<0.0040	<0.0111	<0.0049	<0.0046	<0.0041	<0.0031	<0.0037	<0.0060	<0.0052	<0.0048	<0.0041	<0.0046	<0.0048	<0.0046	<0.0050	<0.0057	<0.0077	<0.0059	<0.0059	<0.0047
Toluene	mg/kg	<0.0034	<0.0041	<0.0039	<0.0039	<0.0040	<0.0111	<0.0049	<0.0046	<0.0041	<0.0031	<0.0037	<0.0060	<0.0052	<0.0048	<0.0041	<0.0046	<0.0048	<0.0046	<0.0050	<0.0057	<0.0077	<0.0059	<0.0059	<0.0047
trans-1,2-Dichloroethene	mg/kg	<0.0034	<0.0041	<0.0039	<0.0039	<0.0040	<0.0111	<0.0049	<0.0046	<0.0041	<0.0031	<0.0037	<0.0060	<0.0052	<0.0048	<0.0041	<0.0046	<0.0048	<0.0046	<0.0050	<0.0057	<0.0077	<0.0059	<0.0059	<0.0047
trans-1,3-Dichloropropene	mg/kg	<0.0034	<0.0041	<0.0039	<0.0039	<0.0040	<0.0111	<0.0049	<0.0046	<0.0041	<0.0031	<0.0037	<0.0060	<0.0052	<0.0048	<0.0041	<0.0046	<0.0048	<0.0046	<0.0050	<0.0057	<0.0077	<0.0059	<0.0059	<0.0047
Trichloroethene	mg/kg	<0.0034	<0.0041	<0.0039	<0.0039	<0.0040	<0.0111	<0.0049	<0.0046	<0.0041	<0.0031	<0.0037	<0.0060	<0.0052	<0.0048	<0.0041	<0.0046	<0.0048	<0.0046	<0.0050	<0.0057	<0.0077	<0.0059	<0.0059	<0.0047
Trichlorofluoromethane	mg/kg	<0.0034	<0.0041	<0.0039	<0.0039	<0.0040	<0.0111	<0.0049	<0.0046	<0.0041	<0.0031	<0.0037	<0.0060	<0.0052	<0.0048	<0.0041	<0.0046	<0.0048	<0.0046	<0.0050	<0.0057	<0.0077	<0.0059	<0.0059	<0.0047
Vinyl Chloride	mg/kg	<0.0068	<0.0083	<0.0077	<0.0078	<0.0080	<0.0222	<0.0099	<0.0092	<0.0083	<0.0062	<0.0074	<0.0121	<0.0104	<0.0096	<0.0082	<0.0091	<0.0095	<0.0092	<0.0099	<0.0113	<0.0153	<0.0119	<0.0119	<0.0093
Xylene O	mg/kg	<0.0034	<0.0041	<0.0039	<0.0039	<0.0040	<0.0111	<0.0049	<0.0046	<0.0041	<0.0031	<0.0037	<0.0060	<0.0052	<0.0048	<0.0041	<0.0046	<0.0048	<0.0046	<0.0050	<0.0057	<0.0077	<0.0059	<0.0059	<0.0047
Xylene P,M	mg/kg	<0.0068	<0.0083	<0.0077	<0.0078	<0.0080	<0.0222	<0.0099	<0.0092	<0.0083	<0.0062	<0.0074	<0.0121	<0.0104	<0.0096	<0.0082	<0.0091	<0.0095	<0.0092	<0.0099	<0.0113	<0.0153	<0.0119	<0.0119	<0.0093
Xylenes (Total)	mg/kg	<0.0068	<0.0083	<0.0077	<0.0078	<0.0080	<0.0222	<0.0099	<0.0092	<0.0083	<0.0062	<0.0074	<0.0121	<0.0104	<0.0096	<0.0082	<0.0091	<0.0095	<0.0092	<0.0099	<0.0113	<0.0153	<0.0119	<0.0119	<0.0093
Total VOCs (Low Level)	mg/kg	ND	0.0513	0.0258	0.0342	0.0445	0.0283	0.0206	0.0171	0.0179	ND	0.0112	ND	ND	ND	ND	ND	ND	ND	0.0151	ND	ND	ND	ND	ND
Semi-Volatile Organic Compounds																									
1,2,4-Trichlorobenzene	mg/kg	<0.971	<0.872	<1.01	<1.01	<1.03	<2.01	<1.26	<1.15	<1.12	<0.815	<0.933	<3.58	<1.77	<1.79	<1.84	<0.916	<0.931	<0.848	<0.932	<0.881	<1.02	<0.957	<0.969	<0.933
1,2-Dichlorobenzene	mg/kg	<0.971	<0.872	<1.01	<1.01	<1.03	<2.01	<1.26	<1.15	<1.12	<0.815	<0.933	<3.58	<1.77	<1.79	<1.84	<0.916	<0.931	<0.848	<0.932	<0.881	<1.02	<0.957	<0.969	<0.933
1,3-Dichlorobenzene	mg/kg	<0.971	<0.872	<1.01	<1.01	<1.03	<2.01	<1.26	<1.15	<1.12	<0.815	<0.933	<3.58	<1.77	<1.79	<1.84	<0.916	<0.931	<0.848	<0.932	<0.881	<1.02	<0.957	<0.969	<0.933
1,4-Dichlorobenzene	mg/kg	<0.487	<0.437	<0.507	<0.506	<0.517	<1.01	<0.631	<0.579	<0.562	<0.409	<0.468	<1.80	<0.889	<0.898	<0.925	<0.460	<0.467	<0.425	<0.467	<0.442	<0.510	<0.480	<0.486	<0.468
2,4,5-Trichlorophenol	mg/kg	<0.971	<0.872	<1.01	<1.01	<1.03	<2.01	<1.26	<1.15	<1.12	<0.815	<0.933	<3.58	<1.77	<1.79	<1.84	<0.916	<0.931	<0.848	<0.932	<0.881	<1.02	<0.957	<0.969	<0.933
2,4,6-Trichlorophenol	mg/kg	<0.971	<0.872	<1.01	<1.01	<1.03	<2.01	<1.26	<1.15	<1.12	<0.815	<0.933	<3.58	<1.77	<1.79	<1.84	<0.916	<0.931	<0.848	<0.932	<0.881	<1.02	<0.957	<0.969	<0.933
2,4-Dichlorophenol	mg/kg	<0.971	<0.872	<1.01	<1.01	<1.03	<2.01	<1.26	<1.15	<1.12	<0.815	<0.933	<3.58	<1.77	<1.79	<1.84	<0.916	<0.931	<0.848	<0.932	<0.881	<1.02	<0.957	<0.969	<0.933
2,4-Dimethylphenol	mg/kg	<0.971	<0.872	<1.01	<1.01	<1.03	<2.01	<1.26	<1.15	<1.12	<0.815	<0.933	<3.58	<1.77	<1.79	<1.84	<0.916	<0.931	<0.848	<0.932	<0.881	<1.02	<0.957	<0.969	<0.933
2,4-Dinitrophenol	mg/kg	<4.87	<4.37	<5.07	<5.06	<5.17	<10.1	<6.31	<5.79	<5.62	<4.09	<4.68	<18.0	<8.89	<8.98	<9.25	<4.60	<4.67	<4.25	<4.67	<4.42	<5.10	<4.80	<4.86	<4.68
2,4-Dinitrotoluene	mg/kg	<0.971	<0.872	<1.01	<1.01	<1.03	<2.01	<1.26	<1.15	<1.12	<0.815	<0.933	<0.898	<0.444	<0.449	<0.463	<0.916	<0.931	<0.848	<0.932	<0.881	<1.02	<0.957	<0.969	<0.933
2,6-Dinitrotoluene	mg/kg	<0.971	<0.872	<1.01	<1.01	<1.03	<2.01	<1.26	<1.15	<1.12	<0.815	<0.933	<3.58	<1.77	<1.79	<1.84	<0.916	<0.931	<0.848	<0.932	<0.881	<1.02	<0.957	<0.969	<0.933
2-Chloronaphthalene	mg/kg	<0.971	<0.872	<1.01	<1.01	<1.03	<2.01	<1.26	<1.15	<1.12	<0.815	<0.933	<3.58	<1.77	<1.79	<1.84	<0.916	<0.931	<0.848	<0.932	<0.881	<1.02	<0.957	<0.969	<0.933
2-Chlorophenol	mg/kg	<0.971	<0.872	<1.01	<1.01	<1.03	<2.01	<1.26	<1.15	<1.12	<0.815	<0.933	<3.58	<1.77	<1.79	<1.84	<0.916	<0.931	<0.848	<0.932	<0.881	<1.02	<0.957	<0.969	<0.933
2-Methylnaphthalene	mg/kg	<0.971	<0.872	<1.01	<1.01	<1.03	<2.01	<1.26	<1.15	<1.12	<0.815	<0.933	<3.58	<1.77	<1.79	<1.84	<0.916	<0.931	<0.848	<0.932	<0.881	<1.02	<0.957	<0.969	<0.933
2-Methylphenol	mg/kg	<0.971	<0.872	<1.01	<1.01	<1.03	<2.01	<1.26	<1.15	<1.12	<0.815	<0.933	<3.58	<1.77	<1.79	<1.84	<0.916	<0.931	<0.848	<0.932	<0.881	<1.02	<0.957	<0.969	<0.933
2-Nitrophenol	mg/kg	<0.971	<0.872	<1.01	<1.01	<1.03	<2.01	<1.26	<1.15	<1.12	<0.815	<0.933	<3.58	<1.77	<1.79	<1.84	<0.916	<0.931	<0.848	<0.932	<0.881	<1.02	<0.957	<0.969	<0.933
3,3´-Dichlorobenzidine	mg/kg	<1.95	<1.75	<2.03	<2.02	<2.07	<4.02	<2.52	<2.31	<2.24	<1.63	<1.87	<7.17	<3.55	<3.59	<3.69	<1.84	<1.86	<1.70	<1.87	<1.76	<2.04	<1.92	<1.94	<1.87
3+4-Methylphenol	mg/kg	<1.95	<1.75	<2.03	<2.02	<2.07	<4.02	<2.52	<2.31	<2.24	<1.63	<1.87	<7.17	<3.55	<3.59	<3.69	<1.84	<1.86	<1.70	<1.87	<1.76	<2.04	<1.92	<1.94	<1.87
4-Bromophenyl-phenylether	mg/kg	<0.971	<0.872	<1.01	<1.01	<1.03	<2.01	<1.26	<1.15	<1.12	<0.815	<0.933	<3.58	<1.77	<1.79	<1.84	<0.916	<0.931	<0.848	<0.932	<0.881	<1.02	<0.957	<0.969	<0.933
4-Chloroaniline	mg/kg	<1.95	<1.75	<2.03	<2.02	<2.07	<4.02	<2.52	<2.31	<2.24	<1.63	<1.87	<1.80	<0.889	<0.898	<0.925	<1.84	<1.86	<1.70	<1.87	<1.76	<2.04	<1.92	<1.94	<1.87
4-Nitrophenol	mg/kg	<4.87	<4.37	<5.07	<5.06	<5.17	<10.1	<6.31	<5.79	<5.62	<4.09	<4.68	<18.0	<8.89	<8.98	<9.25	<4.60	<4.67	<4.25	<4.67	<4.42	<5.10	<4.80	<4.86	<4.68
Acenaphthene	mg/kg	<0.971	<0.872	<1.01	<1.01	<1.03	<2.01	<1.26	<1.15	<1.12	<0.815	<0.933	<3.58	<1.77	<1.79	<1.84	<0.916	<0.931	<0.848	<0.932	<0.881	<1.02	<0.957	<0.969	<0.933
Acenaphthylene	mg/kg	<0.971	<0.872	<1.01	<1.01	<1.03	<2.01	<1.26	<1.15	<1.12	<0.815	<0.933	<3.58	<1.77	<1.79	<1.84	<0.916	<0.931	<0.848	<0.932	<0.881	<1.02	<0.957	<0.969	<0.933
Acetophenone	mg/kg	<1.95	<1.75	<2.03	<2.02	<2.07	<4.02	<2.52	<2.31	<2.24	<1.63	<1.87	<7.17	<3.55	<3.59	<3.69	<1.84	<1.86	<1.70	<1.87	<1.76	<2.04	<1.92	<1.94	<1.87
Aniline	mg/kg	<4.87	<4.37	<5.07	<5.06	<5.17	<10.1	<6.31	<5.79	<5.62	<4.09	<4.68	<18.0	<8.89	<8.98	<9.25	<4.60	<4.67	<4.25	<4.67	<4.42	<5.10	<4.80	<4.86	<4.68
Anthracene	mg/kg	<0.971	<0.872	<1.01	<1.01	<1.03	<2.01	<1.26	<1.15	<1.12	<0.815	<0.933	<3.58	<1.77	<1.79	<1.84	<0.916	<0.931	<0.848	<0.932	<0.881	<1.02	<0.957	<0.969	<0.933
Azobenzene	mg/kg	<0.971	<0.872	<1.01	<1.01	<1.03	<2.01	<1.26	<1.15	<1.12	<0.815	<0.933	<3.58	<1.77	<1.79	<1.84	<0.916	<0.931	<0.848	<0.932	<0.881	<1.02	<0.957	<0.969	<0.933
Benzo(a)anthracene	mg/kg	<0.971	1.59	<1.01	<1.01	<1.03	<2.01	<1.26	<1.15	<1.12	<0.815	<0.933	<3.58	<1.77	<1.79	2.63	<0.916	<0.931	2.62	1.73	<0.881	<1.02	<0.957	<0.969	1.67
Benzo(a)pyrene	mg/kg	<0.487	1.75	<0.507	<0.506	<0.517	<1.01	<0.631	<0.579	<0.562	<0.409	<0.468	<1.80	<0.889	<0.898	2.51	0.928	1.02	2.38	1.74	<0.442	<0.510	<0.480	<0.486	1.56
Benzo(b)fluoranthene	mg/kg	<0.971	2.79	<1.01	<1.01	<1.03	<2.01	<1.26	<1.15	<1.12	<0.815	<0.933	<3.58	<1.77	<1.79	3.42	1.43	1.6	3.66	2.81	<0.881	<1.02	<0.957	<0.969	2.03
Benzo(g,h,i)perylene	mg/kg	<0.971	<0.872	<1.01	<1.01	<1.03	<2.01	<1.26	<1.15	<1.12	<0.815	<0.933	<3.58	<1.77	<1.79	<1.84	<0.916	<0.931	<0.848	<0.932	<0.881	<1.02	<0.957	<0.969	<0.933
Benzo(k)fluoranthene	mg/kg	<0.971	2	<1.01	<1.01	<1.03	<2.01	<1.26	<1.15	<1.12	<0.815	<0.933	<3.58	<1.77	<1.79	<1.84	<0.916	<0.931	1.45	<0.932	<0.881	<1.02	<0.957	<0.969	<0.933
bis(2-Chloroethoxy)methane	mg/kg	<0.971	<0.872	<1.01	<1.01	<1.03	<2.01	<1.26	<1.15	<1.12	<0.815	<0.933	<3.58	<1.77	<1.79	<1.84	<0.916	<0.931	<0.848	<0.932	<0.881	<1.02	<0.957	<0.969	<0.933
bis(2-Chloroethyl)ether	mg/kg	<0.487	<0.437	<0.507	<0.506	<0.517	<0.503	<0.631	<0.579	<0.562	<0.409	<0.468	<0.355	<0.176	<0.177	<0.183	<0.460	<0.467	<0.425	<0.467	<0.442	<0.510	<0.480	<0.486	<0.468
bis(2-chloroisopropyl)Ether	mg/kg	<0.487	<0.437	<0.507	<0.506	<0.517	<0.503	<0.631	<0.579	<0.562	<0.409	<0.468	<0.355	<0.176	<0.177	<0.183	<0.460	<0.467	<0.425	<0.467	<0.442	<0.510	<0.480	<0.486	<0.468
bis(2-Ethylhexyl)phthalate	mg/kg	<0.971	<0.872	<1.01	<1.01	<1.03	<2.01	<1.26	<1.15	<1.12	<0.815	<0.933	<3.58	<1.77	<1.79	<1.84	0.958	1.21	12.6	11.5	<0.881	<1.02	<0.957	<0.969	<0.933
Butylbenzylphthalate	mg/kg	<0.971	<0.872	<1.01	<1.01	<1.03	<2.01	<1.26	<1.15	<1.12	<0.815	<0.933	<3.58	<1.77	<1.79	<1.84	<0.916	<0.931	<0.848	<0.932	<0.881	<1.02	<0.957	<0.969	<0.933
Chrysene	mg/kg	<0.487	1.76	<0.507	0.558	<0.517	<1.01	<0.631	<0.579	<0.562	<0.409	<0.468	<1.80	<0.889	<0.898	2.39	0.824	0.846	2.43	1.58	<0.442	<0.510	<0.480	<0.486	1.77
Dibenzo(a,h)Anthracene	mg/kg	<0.487	<0.437	<0.507	<0.506	<0.517	<1.01	<0.631	<0.579	<0.562	<0.409	<0.468	<1.80	<0.889	<0.898	<0.925	<0.460	<0.467	<0.425	<0.467	<0.442	<0.510	<0.480	<0.486	<0.468
Dibenzofuran	mg/kg	<0.971	<0.872	<1.01	<1.01	<1.03	<2.01	<1.26	<1.15	<1.12	<0.815	<0.933	<3.58	<1.77	<1.79	<1.84	<0.916	<0.931	<0.848	<0.932	<0.881	<1.02	<0.957	<0.969	<0.933
Diethylphthalate	mg/kg	<0.971	<0.872	<1.01	<1.01	<1.03	<2.01	<1.26	<1.15	<1.12	<0.815	<0.933	<3.58	<1.77	<1.79	<1.84	<0.916	<0.931	<0.848	<0.932	<0.881	<1.02	<0.957	<0.969	<0.933
Dimethylphthalate	mg/kg	<0.971	<0.872	<1.01	<1.01	<1.03	<2.01	<1.26	<1.15	<1.12	<0.815	<0.933	<3.58	<1.77	<1.79	<1.84	<0.916	<0.931	<0.848	<0.932	<0.881	<1.02	<0.957	<0.969	<0.933
Di-n-butylphthalate	mg/kg	<0.971	<0.872	<1.01	<1.01	<1.03	<2.01	<1.26	<1.15	<1.12	<0.815	<0.933	<3.58	<1.77	<1.79	<1.84	<0.916	<0.931	<0.848	<0.932	<0.881	<1.02	<0.957	<0.969	<0.933
Di-n-octylphthalate	mg/kg	<0.971	<0.872	<1.01	<1.01	<1.03	<2.01	<1.26	<1.15	<1.12	<0.815	<0.933	<3.58	<1.77	<1.79	<1.84	<0.916	<0.931	<0.848	<0.932	<0.881	<1.02	<0.957	<0.969	<0.933
Fluoranthene	mg/kg	<0.971	2.11	<1.01	1.16	<1.03	<2.01	<1.26	<1.15	<1.12	<0.815	<0.933	<3.58	<1.77	<1.79	6.05	1.77	1.68	5.3	4.01	<0.881	<1.02	<0.957	<0.969	3.33
Fluorene	mg/kg	<0.971	<0.872	<1.01	<1.01	<1.03	<2.01	<1.26	<1.15	<1.12	<0.815	<0.933	<3.58	<1.77	<1.79	<1.84	<0.916	<0.931	<0.848	<0.932	<0.881	<1.02	<0.957	<0.969	<0.933
Hexachlorobenzene	mg/kg	<0.487	<0.437	<0.507	<0.506	<0.517	<1.01	<0.631	<0.579	<0.562	<0.409	<0.468	<0.898	<0.444	<0.449	<0.463	<0.460	<0.467	<0.425	<0.467	<0.442	<0.510	<0.480	<0.486	<0.468
Hexachlorobutadiene	mg/kg	<0.971	<0.872	<1.01	<1.01	<1.03	<2.01	<1.26	<1.15	<1.12	<0.815	<0.933	<3.58	<1.77	<1.79	<1.84	<0.916	<0.931	<0.848	<0.932	<0.881	<1.02	<0.957	<0.969	<0.933
Hexachloroethane	mg/kg	<0.971	<0.872	<1.01	<1.01	<1.03	<2.01	<1.26	<1.15	<1.12	<0.815	<0.933	<1.80	<0.889	<0.898	<0.925	<0.916	<0.931	<0.848	<0.932	<0.881	<1.02	<0.957	<0.969	<0.933
Indeno(1,2,3-cd)Pyrene	mg/kg	<0.971	<0.872	<1.01	<1.01	<1.03	<2.01	<1.26	<1.15	<1.12	<0.815	<0.933	<3.58	<1.77	<1.79	<1.84	<0.916	<0.931	<0.848	<0.932	<0.881	<1.02	<0.957	<0.969	<0.933
Isophorone	mg/kg	<0.971	<0.872	<1.01	<1.01	<1.03	<2.01	<1.26	<1.15	<1.12	<0.815	<0.933	<3.58	<1.77	<1.79	<1.84	<0.916	<0.931	<0.848	<0.932	<0.881	<1.02	<0.957	<0.969	<0.933
Naphthalene	mg/kg	<0.971	<0.872	<1.01	<1.01	<1.03	<2.01	<1.26	<1.15	<1.12	<0.815	<0.933	<3.58	<1.77	<1.79	<1.84	<0.916	<0.931	<0.848	<0.932	<0.881	<1.02	<0.957	<0.969	<0.933
Nitrobenzene	mg/kg	<0.971	<0.872	<1.01	<1.01	<1.03	<2.01	<1.26	<1.15	<1.12	<0.815	<0.933	<3.58	<1.77	<1.79	<1.84	<0.916	<0.931	<0.848	<0.932	<0.881	<1.02	<0.957	<0.969	<0.933
N-Nitrosodimethylamine	mg/kg	<0.971	<0.872	<1.01	<1.01	<1.03	<2.01	<1.26	<1.15	<1.12	<0.815	<0.933	<3.58	<1.77	<1.79	<1.84	<0.916	<0.931	<0.848	<0.932	<0.881	<1.02	<0.957	<0.969	<0.933
Pentachlorophenol	mg/kg	<4.87	<4.37	<5.07	<5.06	<5.17	<10.1	<6.31	<5.79	<5.62	<4.09	<4.68	<3.58	<1.77	<1.79	<1.84	<4.60	<4.67	<4.25	<4.67	<4.42	<5.10	<4.80	<4.86	<4.68
Phenanthrene	mg/kg	<0.971	<0.872	<1.01	<1.01	<1.03	<2.01	<1.26	<1.15	<1.12	<0.815	<0.933	<3.58	<1.77	<1.79	3.12	<0.916	<0.931	1.82	1.66	<0.881	<1.02	<0.957	<0.969	2.43
Phenol	mg/kg	<0.971	<0.872	<1.01	<1.01	<1.03	<2.01	<1.26	<1.15	<1.12	<0.815	<0.933	<3.58	<1.77	<1.79	<1.84	<0.916	<0.931	<0.848	<0.932	<0.881	<1.02	<0.957	<0.969	<0.933
Pyrene	mg/kg	<0.971	2.52	<1.01	<1.01	<1.03	<2.01	<1.26	<1.15	<1.12	<0.815	<0.933	<3.58	<1.77	<1.79	3.95	1.18	1.13	4.43	2.74	<0.881	<1.02	<0.957	<0.969	2.76
Total SVOCs	mg/kg	ND	14.52	ND	1.718	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	24.07	7.09	7.486	36.69	27.77	ND	ND	ND	ND	15.55
Classic Chemistry																									
Corrosivity (pH)	S.U.	8.47	8.2	5.79	6.28	5.71	8.15	8.23	7.98	8.05	9.32	8.11	8.51	8.32	8.47	8.34	8.46	8.47	10.4	8.91	7.13	6.14	6.94	7.23	7.36
Conductivity	umhos/cm	2520	208	371	176	385	9540	10600	14600	10700	667	1140	141	72	61	191	144	163	384	400	347	346	303	250	122
Flashpoint	°F	--	>200	>200	>200	--	--	--	--	--	--	--	>200	>200	>200	>200	>200	>200	>200	>200	>200	>200	>200	>200	>200
Reactive Cyanide	mg/kg	--	<2.0	<2.0	<2.0	--	--	--	--	--	--	--	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Reactive Sulfide	mg/kg	--	<2.0	<2.0	<2.0	--	--	--	--	--	--	--	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0

Notes:

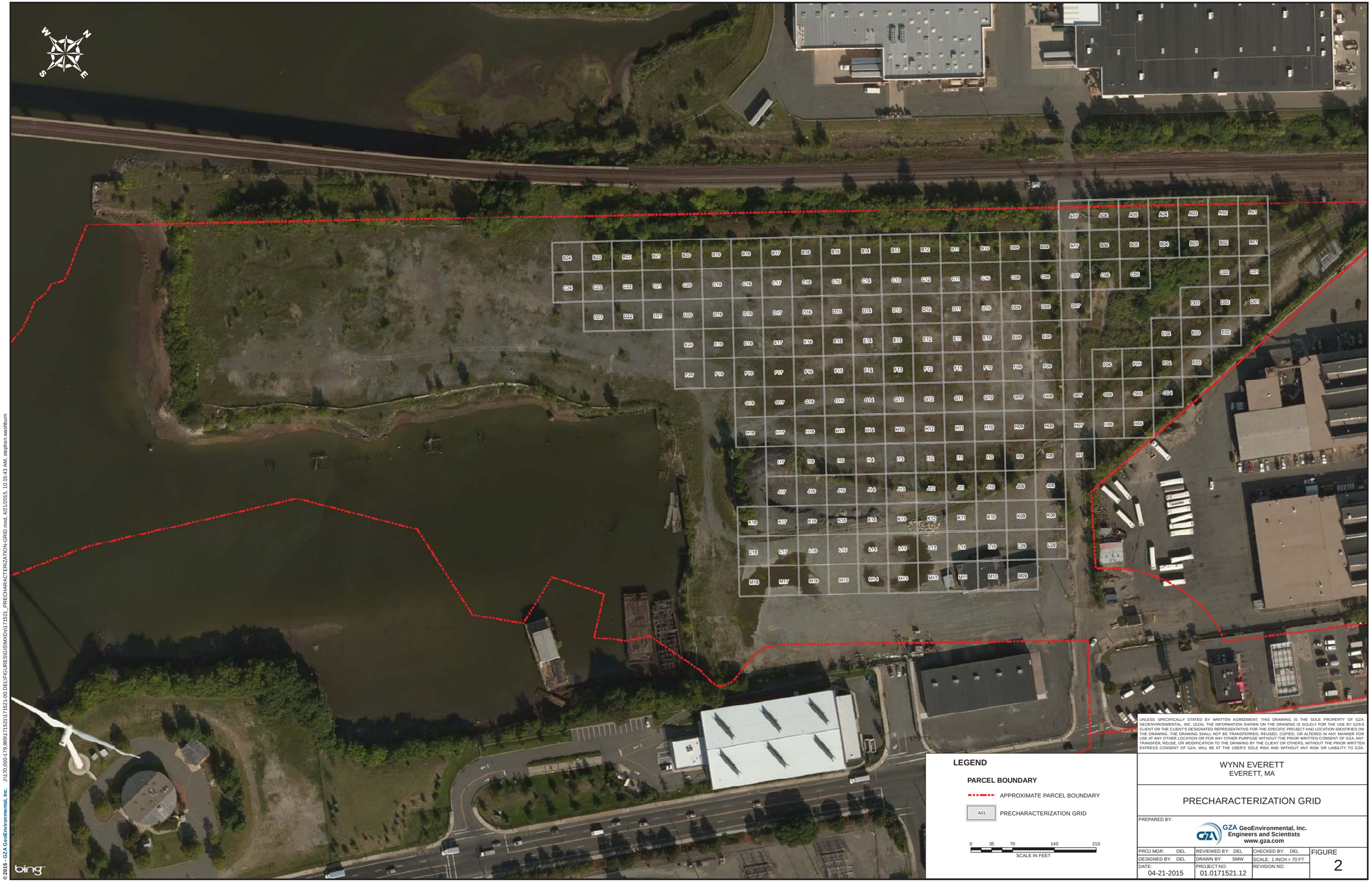
1. Samples in which detected concentra
2. A < sign indicates that a concentratio
3. See "Precharacterization Program Da
4. Sample IDs beginning with GZ were o
5. Soil distinction and type are simplifie

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	Stockpile 3 SP03S06 1503163 Fill -- 3/10/2015	Stockpile 3 SP03S07 1503163 Fill -- 3/10/2015	Stockpile 3 SP03S08 1503163 Fill -- 3/10/2015	Stockpile 4 SP04S01 1503212 Fill -- 3/11/2015	Stockpile 4 SP04S02 1503212 Fill -- 3/11/2015	Stockpile 4 SP04S03 1503212 Fill -- 3/11/2015	Stockpile 4 SP04S04 1503212 Fill -- 3/11/2015	Stockpile 4 SP04S05 1503212 Fill -- 3/11/2015	Stockpile 4 SP04S06 1503212 Fill -- 3/11/2015	Stockpile 4 SP04S07 1503212 Fill -- 3/11/2015	Stockpile 4 SP04S08 1503212 Fill -- 3/11/2015	Stockpile 4 SP04S09 1503212 Fill -- 3/11/2015	Stockpile 4 SP04S10 1503213 Fill -- 3/11/2015	Stockpile 4 SP04S11 1503213 Fill -- 3/11/2015	Stockpile 4 SP04S12 1503213 Fill -- 3/11/2015	Stockpile 4 SP04S13 1503213 Fill -- 3/11/2015	Stockpile 4 SP04S14 1503213 Fill -- 3/11/2015	Stockpile 4 SP04S15 1503213 Fill -- 3/11/2015	Stockpile 4 SP04S16 1503213 Fill -- 3/11/2015
Preliminary Disposal Facility Category		MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A
RCRA 8 Metals	**Units**																			
Arsenic	mg/kg	16.4	22.8	21.3	8.75	13.6	9.52	10.9	14.2	<7.19	13.6	9.28	8.26	11.3	16.1	11.5	17.4	15.1	9.53	7.49
Barium	mg/kg	37.2	34.2	30.7	34.8	49.6	41.5	44.3	61.9	27.6	58.1	59.1	42.9	38.9	47.3	37	58.1	53.5	32.9	38.1
Cadmium	mg/kg	<1.63	<1.61	<1.32	<1.38	<1.42	<1.41	<1.45	<1.54	<1.44	<1.41	<1.50	<1.46	<1.47	<1.55	<1.27	<1.54	<1.42	<1.27	<1.50
Chromium	mg/kg	37.4	34.4	27.9	21	23.5	21.3	22.1	26.2	14.6	26.9	19.9	22.1	19.5	27	20.1	25.6	22.9	19.1	22.8
Lead	mg/kg	63.8	52	46.4	78.9	205	205	123	251	74.3	199	116	90.7	108	205	116	274	232	98.2	25
Selenium	mg/kg	<8.14	<8.04	<6.61	<6.92	<7.09	<7.03	<7.25	<7.68	<7.19	<7.04	<7.52	<7.29	<7.34	<7.77	<6.35	<7.69	<7.11	<6.35	<7.49
Silver	mg/kg	<1.63	<1.61	<1.32	<1.38	<1.42	<1.41	<1.45	<1.54	<1.44	<1.41	<1.50	<1.46	<1.47	<1.55	<1.27	<1.54	<1.42	<1.27	<1.50
Mercury	mg/kg	0.187	0.16	0.147	0.18	0.537	0.335	0.38	0.519	0.259	0.491	0.286	0.257	0.259	0.398	0.323	0.468	0.422	0.074	<0.037
Metals by Toxicity Characteristic Leaching Procedure (TCLP)																				
Arsenic	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead	mg/L	--	--	--	--	<0.500	<0.500	<0.500	<0.500	--	<0.500	<0.500	--	<0.500	<0.500	<0.500	<0.500	<0.500	--	--
Selenium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Herbicides																				
2,4,5-T	mg/kg	<0.064	<0.057	<0.059	<0.056	<0.056	<0.054	<0.057	<0.053	<0.055	<0.068	<0.057	<0.061	<0.055	<0.054	<0.056	<0.055	<0.058	<0.058	<0.061
2,4-D	mg/kg	<0.064	<0.057	<0.059	<0.056	<0.056	<0.054	<0.057	<0.053	<0.055	<0.068	<0.057	<0.061	<0.055	<0.054	<0.056	<0.055	<0.058	<0.058	<0.061
2,4-DB	mg/kg	<0.064	<0.057	<0.059	<0.056	<0.056	<0.054	<0.057	<0.053	<0.055	<0.068	<0.057	<0.061	<0.055	<0.054	<0.056	<0.055	<0.058	<0.058	<0.061
Dalapon	mg/kg	<0.77	<0.69	<0.71	<0.68	<0.68	<0.65	<0.69	<0.64	<0.66	<0.81	<0.69	<0.74	<0.67	<0.65	<0.67	<0.66	<0.70	<0.69	<0.74
Dicamba	mg/kg	<0.064	<0.057	<0.059	<0.056	<0.056	<0.054	<0.057	<0.053	<0.055	<0.068	<0.057	<0.061	<0.055	<0.054	<0.056	<0.055	<0.058	<0.058	<0.061
Dichlorprop	mg/kg	<0.064	<0.057	<0.059	<0.056	<0.056	<0.054	<0.057	<0.053	<0.055	<0.068	<0.057	<0.061	<0.055	<0.054	<0.056	<0.055	<0.058	<0.058	<0.061
Dinoseb	mg/kg	<0.39	<0.34	<0.36	<0.34	<0.34	<0.33	<0.35	<0.32	<0.33	<0.41	<0.35	<0.37	<0.33	<0.32	<0.34	<0.33	<0.35	<0.35	<0.37
MCPA	mg/kg	<15	<14	<14	<14	<14	<13	<14	<13	<13	<16	<14	<15	<13	<13	<13	<13	<14	<14	<15
MCPP	mg/kg	<15	<14	<14	<14	<14	<13	<14	<13	<13	<16	<14	<15	<13	<13	<13	<13	<14	<14	<15
Silvex (2,4,5-TP)	mg/kg	<0.064	<0.057	<0.059	<0.056	<0.056	<0.054	<0.057	<0.053	<0.055	<0.068	<0.057	<0.061	<0.055	<0.054	<0.056	<0.055	<0.058	<0.058	<0.061
Pesticides																				
4,4'-DDD	mg/kg	0.013	<0.010	<0.011	<0.0040	<0.0020	<0.0095	<0.0038	<0.0019	<0.0037	<0.0045	<0.0040	<0.0045	<0.0096	<0.0099	<0.0096	<0.010	<0.010	<0.0098	<0.010
4,4'-DDE	mg/kg	0.062	0.062	0.054	<0.0040	<0.0020	<0.0095	<0.0038	<0.0019	<0.0037	<0.0045	<0.0040	<0.0045	<0.0096	<0.0099	<0.0096	<0.010	<0.010	<0.0098	<0.010
4,4'-DDT	mg/kg	0.025	0.033	0.039	<0.0040	<0.0020	<0.0095	<0.0038	<0.0019	<0.0037	<0.0045	<0.0040	<0.0045	<0.0096	<0.0099	<0.0096	<0.010	<0.010	<0.0098	<0.010
Aldrin	mg/kg	<0.011	<0.010	<0.011	<0.0040	<0.0020	<0.0095	<0.0038	<0.0019	<0.0037	<0.0045	<0.0040	<0.0045	<0.0096	<0.0099	<0.0096	<0.010	<0.010	<0.0098	<0.010
alpha-BHC	mg/kg	<0.011	<0.010	<0.011	<0.0040	<0.0020	<0.0095	<0.0038	<0.0019	<0.0037	<0.0045	<0.0040	<0.0045	<0.0096	<0.0099	<0.0096	<0.010	<0.010	<0.0098	<0.010
beta-BHC	mg/kg	<0.011	<0.010	<0.011	<0.0040	<0.0020	<0.0095	<0.0038	<0.0019	<0.0037	<0.0045	<0.0040	<0.0045	<0.0096	<0.0099	<0.0096	<0.010	<0.010	<0.0098	<0.010
Chlordane (technical)	mg/kg	<0.11	<0.10	<0.11	<0.040	<0.020	<0.095	<0.038	<0.019	<0.037	<0.045	<0.040	<0.045	<0.096	<0.099	<0.096	<0.10	<0.10	<0.098	<0.10
delta-BHC	mg/kg	<0.011	<0.010	<0.011	<0.0040	<0.0020	<0.0095	<0.0038	<0.0019	<0.0037	<0.0045	<0.0040	<0.0045	<0.0096	<0.0099	<0.0096	<0.010	<0.010	<0.0098	<0.010
Dieldrin	mg/kg	<0.011	<0.010	<0.011	<0.0040	<0.0020	<0.0095	<0.0038	<0.0019	<0.0037	<0.0045	<0.0040	<0.0045	<0.0096	<0.0099	<0.0096	<0.010	<0.010	<0.0098	<0.010
Endosulfan I	mg/kg	<0.011	<0.010	<0.011	<0.0040	<0.0020	<0.0095	<0.0038	<0.0019	<0.0037	<0.0045	<0.0040	<0.0045	<0.0096	<0.0099	<0.0096	<0.010	<0.010	<0.0098	<0.010
Endosulfan II	mg/kg	<0.011	<0.010	<0.011	<0.0040	<0.0020	<0.0095	<0.0038	<0.0019	<0.0037	<0.0045	<0.0040	<0.0045	<0.0096	<0.0099	<0.0096	<0.010	<0.010	<0.0098	<0.010
Endosulfan sulfate	mg/kg	<0.011	<0.010	<0.011	<0.0040	<0.0020	<0.0095	<0.0038	<0.0019	<0.0037	<0.0045	<0.0040	<0.0045	<0.0096	<0.0099	<0.0096	<0.010	<0.010	<0.0098	<0.010
Endrin	mg/kg	<0.011	<0.010	<0.011	<0.0040	<0.0020	<0.0095	<0.0038	<0.0019	<0.0037	<0.0045	<0.0040	<0.0045	<0.0096	<0.0099	<0.0096	<0.010	<0.010	<0.0098	<0.010
Endrin ketone	mg/kg	<0.011	<0.010	<0.011	<0.0040	<0.0020	<0.0095	<0.0038	<0.0019	<0.0037	<0.0045	<0.0040	<0.0045	<0.0096	<0.0099	<0.0096	<0.010	<0.010	<0.0098	<0.010
gamma-BHC (Lindane)	mg/kg	<0.011	<0.010	<0.011	<0.0040	<0.0020	<0.0095	<0.0038	<0.0019	<0.0037	<0.0045	<0.0040	<0.0045	<0.0096	<0.0099	<0.0096	<0.010	<0.010	<0.0098	<0.010
Heptachlor	mg/kg	<0.011	<0.010	<0.011	<0.0040	<0.0020	<0.0095	<0.0038	<0.0019	<0.0037	<0.0045	<0.0040	<0.0045	<0.0096	<0.0099	<0.0096	<0.010	<0.010	<0.0098	<0.010
Heptachlor epoxide	mg/kg	<0.011	<0.010	<0.011	<0.0040	<0.0020	<0.0095	<0.0038	<0.0019	<0.0037	<0.0045	<0.0040	<0.0045	<0.0096	<0.0099	<0.0096	<0.010	<0.010	<0.0098	<0.010
Hexachlorobenzene	mg/kg	<0.011	<0.010	<0.011	<0.0040	<0.0020	<0.0095	<0.0038	<0.0019	<0.0037	<0.0045	<0.0040	<0.0045	<0.0096	<0.0099	<0.0096	<0.010	<0.010	<0.0098	<0.010
Methoxychlor	mg/kg	<0.011	<0.010	<0.011	<0.0040	<0.0020	<0.0095	<0.0038	<0.0019	<0.0037	<0.0045	<0.0040	<0.0045	<0.0096	<0.0099	<0.0096	<0.010	<0.010	<0.0098	<0.010
Polychlorinated Biphenyls																				
Aroclor 1016	mg/kg	<0.140	<0.145	<0.144	<0.136	<0.134	<0.139	<0.142	<0.143	<0.138	<0.143	<0.141	<0.134	<0.138	<0.139	<0.141	<0.149	<0.144	<0.134	<0.138
Aroclor 1221	mg/kg	<0.140	<0.145	<0.144	<0.136	<0.134	<0.139	<0.142	<0.143	<0.138	<0.143	<0.141	<0.134	<0.138	<0.139	<0.141	<0.149	<0.144	<0.134	<0.138
Aroclor 1232	mg/kg	<0.140	<0.145	<0.144	<0.136	<0.134	<0.139	<0.142	<0.143	<0.138	<0.143	<0.141	<0.134	<0.138	<0.139	<0.141	<0.149	<0.144	<0.134	<0.138
Aroclor 1242	mg/kg	<0.140	<0.145	<0.144	<0.136	<0.134	<0.139	<0.142	<0.143	<0.138	<0.143	<0.141	<0.134	<0.138	<0.139	<0.141	<0.149	<0.144	<0.134	<0.138
Aroclor 1248	mg/kg	<0.140	<0.145	<0.144	<0.136	<0.134	<0.139	<0.142	<0.143	<0.138	<0.143	<0.141	<0.134	<0.138	<0.139	<0.141	<0.149	<0.144	<0.134	<0.138
Aroclor 1254	mg/kg	<0.140	<0.145	<0.144	<0.136	0.268	<0.139	<0.142	0.215	<0.138	0.155	<0.141	0.258	<0.138	0.183	<0.141	0.289	<0.144	<0.134	<0.138
Aroclor 1260	mg/kg	<0.140	<0.145	<0.144	<0.136	<0.134	<0.139	<0.142	<0.143	<0.138	<0.143	<0.141	<0.134	<0.138	<0.139	<0.141	0.156	<0.144	<0.134	<0.138
Aroclor 1262	mg/kg	<0.140	<0.145	<0.144	<0.136	<0.134	<0.139	<0.142	<0.143	<0.138	<0.143	<0.141	<0.134	<0.138	<0.139	<0.141	<0.149	<0.144	<0.134	<0.138
Aroclor 1268	mg/kg	<0.140	<0.145	<0.144	<0.136	<0.134	<0.139	<0.142	<0.143	<0.138	<0.143	<0.141	<0.134	<0.138	<0.139	<0.141	<0.149	<0.144	<0.134	<0.138
Total PCBs	mg/kg	ND	ND	ND	ND	0.268	ND	ND	0.215	ND	0.155	ND	0.258	ND	0.183	ND	0.445	ND	ND	ND
Total Petroleum Hydrocarbons	mg/kg	153	105	186	184	227	144	133	413	170	332	233	209	289	427	182	246	326	91.3	63.6
Volatile Organic Compounds (VOCs)																				
1,1,1,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-Chloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane - Screen	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Butanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Chlorotoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Isopropyltoluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-Pentanone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Disulfide	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	Stockpile 3 SP03S06 1503163 Fill -- 3/10/2015	Stockpile 3 SP03S07 1503163 Fill -- 3/10/2015	Stockpile 3 SP03S08 1503163 Fill -- 3/10/2015	Stockpile 4 SP04S01 1503212 Fill -- 3/11/2015	Stockpile 4 SP04S02 1503212 Fill -- 3/11/2015	Stockpile 4 SP04S03 1503212 Fill -- 3/11/2015	Stockpile 4 SP04S04 1503212 Fill -- 3/11/2015	Stockpile 4 SP04S05 1503212 Fill -- 3/11/2015	Stockpile 4 SP04S06 1503212 Fill -- 3/11/2015	Stockpile 4 SP04S07 1503212 Fill -- 3/11/2015	Stockpile 4 SP04S08 1503212 Fill -- 3/11/2015	Stockpile 4 SP04S09 1503212 Fill -- 3/11/2015	Stockpile 4 SP04S10 1503213 Fill -- 3/11/2015	Stockpile 4 SP04S11 1503213 Fill -- 3/11/2015	Stockpile 4 SP04S12 1503213 Fill -- 3/11/2015	Stockpile 4 SP04S13 1503213 Fill -- 3/11/2015	Stockpile 4 SP04S14 1503213 Fill -- 3/11/2015	Stockpile 4 SP04S15 1503213 Fill -- 3/11/2015	Stockpile 4 SP04S16 1503213 Fill -- 3/11/2015
Preliminary Disposal Facility Category		MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A
Chlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromomethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Diethyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Di-isopropyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethyl tertiary-butyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
tert-Butylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tertiary-amyl methyl ether	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene O	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene P,M	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylenes (Total)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total VOCs	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds - Low Level Analysis																				
1,1,1,2-Tetrachloroethane	mg/kg	<0.0067	<0.0058	<0.0061	<0.0058	<0.0050	<0.0062	<0.0066	<0.0058	<0.0056	<0.0052	<0.0057	<0.0065	<0.0053	<0.0059	<0.0047	<0.0059	<0.0064	<0.0043	<0.0043
1,1,1-Trichloroethane	mg/kg	<0.0067	<0.0058	<0.0061	<0.0058	<0.0050	<0.0062	<0.0066	<0.0058	<0.0056	<0.0052	<0.0057	<0.0065	<0.0053	<0.0059	<0.0047	<0.0059	<0.0064	<0.0043	<0.0043
1,1,2,2-Tetrachloroethane	mg/kg	<0.0027	<0.0023	<0.0024	<0.0023	<0.0020	<0.0025	<0.0026	<0.0023	<0.0022	<0.0021	<0.0023	<0.0026	<0.0021	<0.0024	<0.0019	<0.0024	<0.0025	<0.0017	<0.0017
1,1,2-Trichloroethane	mg/kg	<0.0067	<0.0058	<0.0061	<0.0058	<0.0050	<0.0062	<0.0066	<0.0058	<0.0056	<0.0052	<0.0057	<0.0065	<0.0053	<0.0059	<0.0047	<0.0059	<0.0064	<0.0043	<0.0043
1,1-Dichloroethane	mg/kg	<0.0067	<0.0058	<0.0061	<0.0058	<0.0050	<0.0062	<0.0066	<0.0058	<0.0056	<0.0052	<0.0057	<0.0065	<0.0053	<0.0059	<0.0047	<0.0059	<0.0064	<0.0043	<0.0043
1,1-Dichloroethene	mg/kg	<0.0067	<0.0058	<0.0061	<0.0058	<0.0050	<0.0062	<0.0066	<0.0058	<0.0056	<0.0052	<0.0057	<0.0065	<0.0053	<0.0059	<0.0047	<0.0059	<0.0064	<0.0043	<0.0043
1,1-Dichloropropene	mg/kg	<0.0067	<0.0058	<0.0061	<0.0058	<0.0050	<0.0062	<0.0066	<0.0058	<0.0056	<0.0052	<0.0057	<0.0065	<0.0053	<0.0059	<0.0047	<0.0059	<0.0064	<0.0043	<0.0043
1,2,3-Trichlorobenzene	mg/kg	<0.0067	<0.0058	<0.0061	<0.0058	<0.0050	<0.0062	<0.0066	<0.0058	<0.0056	<0.0052	<0.0057	<0.0065	<0.0053	<0.0059	<0.0047	<0.0059	<0.0064	<0.0043	<0.0043
1,2,3-Trichloropropane	mg/kg	<0.0067	<0.0058	<0.0061	<0.0058	<0.0050	<0.0062	<0.0066	<0.0058	<0.0056	<0.0052	<0.0057	<0.0065	<0.0053	<0.0059	<0.0047	<0.0059	<0.0064	<0.0043	<0.0043
1,2,4-Trichlorobenzene	mg/kg	<0.0067	<0.0058	<0.0061	<0.0058	<0.0050	<0.0062	<0.0066	<0.0058	<0.0056	<0.0052	<0.0057	<0.0065	<0.0053	<0.0059	<0.0047	<0.0059	<0.0064	<0.0043	<0.0043
1,2,4-Trimethylbenzene	mg/kg	<0.0067	<0.0058	<0.0061	<0.0058	<0.0050	<0.0062	<0.0066	<0.0058	<0.0056	<0.0052	<0.0057	<0.0065	<0.0053	<0.0059	<0.0047	<0.0059	<0.0064	<0.0043	<0.0043
1,2-Dibromo-3-Chloropropane	mg/kg	<0.0067	<0.0058	<0.0061	<0.0058	<0.0050	<0.0062	<0.0066	<0.0058	<0.0056	<0.0052	<0.0057	<0.0065	<0.0053	<0.0059	<0.0047	<0.0059	<0.0064	<0.0043	<0.0043
1,2-Dibromoethane	mg/kg	<0.0067	<0.0058	<0.0061	<0.0058	<0.0050	<0.0062	<0.0066	<0.0058	<0.0056	<0.0052	<0.0057	<0.0065	<0.0053	<0.0059	<0.0047	<0.0059	<0.0064	<0.0043	<0.0043
1,2-Dichlorobenzene	mg/kg	<0.0067	<0.0058	<0.0061	<0.0058	<0.0050	<0.0062	<0.0066	<0.0058	<0.0056	<0.0052	<0.0057	<0.0065	<0.0053	<0.0059	<0.0047	<0.0059	<0.0064	<0.0043	<0.0043
1,2-Dichloroethane	mg/kg	<0.0067	<0.0058	<0.0061	<0.0058	<0.0050	<0.0062	<0.0066	<0.0058	<0.0056	<0.0052	<0.0057	<0.0065	<0.0053	<0.0059	<0.0047	<0.0059	<0.0064	<0.0043	<0.0043
1,2-Dichloropropane	mg/kg	<0.0067	<0.0058	<0.0061	<0.0058	<0.0050	<0.0062	<0.0066	<0.0058	<0.0056	<0.0052	<0.0057	<0.0065	<0.0053	<0.0059	<0.0047	<0.0059	<0.0064	<0.0043	<0.0043
1,3,5-Trimethylbenzene	mg/kg	<0.0067	<0.0058	<0.0061	<0.0058	<0.0050	<0.0062	<0.0066	<0.0058	<0.0056	<0.0052	<0.0057	<0.0065	<0.0053	<0.0059	<0.0047	<0.0059	<0.0064	<0.0043	<0.0043
1,3-Dichlorobenzene	mg/kg	<0.0067	<0.0058	<0.0061	<0.0058	<0.0050	<0.0062	<0.0066	<0.0058	<0.0056	<0.0052	<0.0057	<0.0065	<0.0053	<0.0059	<0.0047	<0.0059	<0.0064	<0.0043	<0.0043
1,3-Dichloropropane	mg/kg	<0.0067	<0.0058	<0.0061	<0.0058	<0.0050	<0.0062	<0.0066	<0.0058	<0.0056	<0.0052	<0.0057	<0.0065	<0.0053	<0.0059	<0.0047	<0.0059	<0.0064	<0.0043	<0.0043
1,4-Dichlorobenzene	mg/kg	<0.0067	<0.0058	<0.0061	<0.0058	<0.0050	<0.0062	<0.0066	<0.0058	<0.0056	<0.0052	<0.0057	<0.0065	<0.0053	<0.0059	<0.0047	<0.0059	<0.0064	<0.0043	<0.0043
1,4-Dioxane	mg/kg	<0.134	<0.116	<0.121	<0.115	<0.100	<0.123	<0.132	<0.116	<0.112	<0.104	<0.113	<0.130	<0.105	<0.119	<0.0945	<0.118	<0.127	<0.0861	<0.0860
2,2-Dichloropropane	mg/kg	<0.0067	<0.0058	<0.0061	<0.0058	<0.0050	<0.0062	<0.0066	<0.0058	<0.0056	<0.0052	<0.0057	<0.0065	<0.0053	<0.0059	<0.0047	<0.0059	<0.0064	<0.0043	<0.0043
2-Butanone	mg/kg	<0.0134	<0.0116	<0.0121	<0.0115	<0.0100	<0.0123	<0.0132	<0.0116	<0.0112	<0.0104	<0.0113	<0.0130	<0.0105	<0.0119	<0.0094	<0.0118	<0.0127	<0.0086	<0.0086
2-Chlorotoluene	mg/kg	<0.0067	<0.0058	<0.0061	<0.0058	<0.0050	<0.0062	<0.0066	<0.0058	<0.0056	<0.0052	<0.0057	<0.0065	<0.0053	<0.0059	<0.0047	<0.0059	<0.0064	<0.0043	<0.0043
2-Hexanone	mg/kg	<0.0134	<0.0116	<0.0121	<0.0115	<0.0100	<0.0123	<0.0132	<0.0116	<0.0112	<0.0104	<0.0113	<0.0130	<0.0105	<0.0119	<0.0094	<0.0118	<0.0127	<0.0086	<0.0086
4-Chlorotoluene	mg/kg	<0.0067	<0.0058	<0.0061	<0.0058	<0.0050	<0.0062	<0.0066	<0.0058	<0.0056	<0.0052	<0.0057	<0.0065	<0.0053	<0.0059	<0.0047	<0.0059	<0.0064	<0.0043	<0.0043
4-Isopropyltoluene	mg/kg	<0.0067	<0.0058	<0.0061	<0.0058	<0.0050	<0.0062	<0.0066	<0.0058	<0.0056	<0.0052	<0.0057	<0.0065	<0.0053	<0.0059	<0.0047	<0.0059	<0.0064	<0.0043	<0.0043
4-Methyl-2-Pentanone	mg/kg	<0.0134	<0.0116	<0.0121	<0.0115	<0.0100	<0.0123	<0.0132	<0.0116	<0.0112	<0.0104	<0.0113	<0.0130	<0.0105	<0.0119	<0.0094	<0.0118	<0.0127	<0.0086	<0.0086
Acetone	mg/kg	<0.0134	<0.0116	<0.0121	<0.0115	<0.0100	<0.0123	<0.0132	<0.0116	<0.0112	<0.0104	<0.0113	<0.0130	<0.0105	<0.0119	<0.0094	<0.0118	<0.0127	<0.0086	<0.0086
Benzene	mg/kg	<0.0067	<0.0058	<0.0061	<0.0058	<0.0050	<0.0062	<0.0066	<0.0058	<0.0056	<0.0052	<0.0057	<0.0065	<0.0053	<0.0059	<0.0047	<0.0059	<0.0064	<0.0043	<0.0043
Bromobenzene	mg/kg	<0.0067	<0.0058	<0.0061	<0.0058	<0.0050	<0.0062	<0.0066	<0.0058	<0.0056	<0.0052	<0.0057	<0.0065	<0.0053	<0.0059	<0.0047	<0.0059	<0.0064	<0.0043	<0.0043
Bromochloromethane	mg/kg	<0.0067	<0.0058	<0.0061	<0.0058	<0.0050	<0.0062	<0.0066	<0.0058	<0.0056	<0.0052	<0.0057	<0.0065	<0.0053	<0.0059	<0.0047	<0.0059	<0.0064	<0.0043	<0.0043
Bromodichloromethane	mg/kg	<0.0067	<0.0058	<0.0061	<0.0058	<0.0050	<0.0062	<0.0066	<0.0058	<0.0056	<0.0052	<0.0057	<0.0065	<0.0053	<0.0059	<0.0047	<0.0059	<0.0064	<0.0043	<0.0043
Bromoform	mg/kg	<0.0067	<0.0058	<0.0061	<0.0058	<0.0050	<0.0062	<0.0066	<0.0058	<0.0056	<0.0052	<0.0057	<0.0065	<0.0053	<0.0059	<0.0047	<0.0059	<0.0064	<0.0043	<0.0043
Bromomethane	mg/kg	<0.0134	<0.0116	<0.0121	<0.0115	<0.0100	<0.0123	<0.0132	<0.0116	<0.0112	<0.0104	<0.0113	<0.0130	<0.0105	<0.0119	<0.0094	<0.0118	<0.0127	<0.0086	<0.0086
Carbon Disulfide	mg/kg	<0.0067	<0.0058	<0.0061	<0.0058	<0.0050	<0.0062	<0.0066	<0.0058	<0.0056	<0.0052	<0.0057	<0.0065	<0.0053	<0.0059	<0.0047	<0.0059	<0.0064	<0.0043	<0.0043
Carbon Tetrachloride	mg/kg	<0.0067	<0.0058	<0.0061	<0.0058	<0.0050	<0.0062	<0.0066	<0.0058	<0.0056	<0.0052	<0.0057	<0.0065	<0.0053	<0.0059	<0.0047	<0.0059	<0.0064	<0.0043	<0.0043
Chlorobenzene	mg/kg	<0.0067	<0.0058	<0.0061	<0.0058	<0.0050	<0.0062	<0.0066	<0.0058	<0.0056	<0.0052	<0.0057	<0.0065	<0.0053	<0.0059	<0.0047	<0.0059	<0.0064	<0.0043	<0.0043
Chloroethane	mg/kg	<0.0134	<0.0116	<0.0121	<0.0115	<0.0100	<0.0123	<0.0132	<0.0116	<0.0112	<0.0104	<0.0113	<0.0130	<0.0105	<0.0119	<0.0094	<0.0118	<0.0127	<0.0086	<0.0086
Chloroform	mg/kg	<0.0067	<0.0058	<0.0061	<0.0058	<0.0050	<0.0062	<0.0066	<0.0058	<0.0056	<0.0052	<0.0057	<0.0065	<0.0053	<0.0059	<0.0047	<0.0059	<0.0064	<0.0043	<0.0043
Chloromethane	mg/kg	<0.0134	<0.0116	<0.0121	<0.0115	<0.0100	<0.0123	<0.0132	<0.0116	<0.0112	<0.0104	<0.0113	<0.0130	<0.0105	<0.0119	<0.0094	<0.0118	<0.0127	<0.0086	<0.0086
cis-1,2-Dichloroethene	mg/kg	<0.0067	<0.0058	<0.0061	<0.0058	<0.0050	<0.0062	<0.0066	<0.0058	<0.0056	<0.0052	<0.0057	<0.0065	<0.0053	<0.0059	<0.0047	<0.0059	<0.0064	<0.0043	<0.0043
cis-1,3-Dichloropropene	mg/kg	<0.0067	<0.0058	<0.0061	<0.0058	<0.0050	<0.0062	<0.0066	<0.0058	<0.0056	<0.0052	<0.0057	<0.0065	<0.0053	<0.0059	<0.0047	<0.0059	<0.0064	<0.0043	<0.0043
Dibromochloromethane	mg/kg	<0.0027	<0.0023	<0.0024	<0.0023	<0.0020	<0.0025	<0.0026	<0.0023	<0.0022	<0.0021	<0.0023	<0.0026	<0.0021	<0.0024	<0.0019	<0.0024	<0.0025	<0.0017	<0.0017
Dibromomethane	mg/kg	<0.0067	<0.0058	<0.0061	<0.0058	<0.0050	<0.0062	<0.0066	<0.0058	<0.0056	<0.0052	<0.0057	<0.0065	<0.0053	<0.0059	<0.0047	<0.0059	<0.0064	<0.0043	<0.0043
Dichlorodifluoromethane	mg/kg	<0.0134	<0.0116	<0.0121	<0.0115	<0.0100	<0.0123	<0.0132	<0.0116	<0.0112	<0.0104	<0.0113	<0.0130	<0.0105	<0.0119	<0.0094	<0.0118	<0.0127	<0.0086	<0.0086
Diethyl Ether	mg/kg	<0.0067	<0.0058	<0.0061	<0.0058	<0.0050	<0.0062	<0.0066	<0.0058	<0.0056	<0.0052	<0.0057	<0.0065	<0.0053	<0.0059	<0.0047	<0.0059	<0.0064	<0.0043	<0.0043
Di-isopropyl ether	mg/kg	<0.0067	<0.0058	<0.0061	<0.0058	<0.0050	<0.0062	<0.0066	<0.0058	<0.0056	<0.0052	<0.0057	<0.0065	<0.0053	<0.0059	<0.0047	<0.0059	<0.0064	<0.0043	<0.0043
Ethyl tertiary-butyl ether	mg/kg	<0.0067	<0.0058	<0.0061	<0.0058	<0.0050	<0.0062	<0.0066	<0.0058	<0.0056	<0.0052	<0.0057	<0.0065	<0.0053	<0.0059	<0.0047	<0.0059	<0.0064	<0.0043	<0.0043
Ethylbenzene	mg/kg	<0.0067	<0.0058	<0.0061	<0.0058	<0.0050	<0.0062	<0.0066	<0.0058	<0.0056	<0.0052	<0.0057	<0.0065	<0.0053	<0.0059	<0.0047	<0.0059	<0.0064	<0.0043	<0.0043
Hexachlorobutadiene	mg/kg	<0.0067	<0.0058	<0.0061	<0.0058	<0.0050	<0.0062	<0.0066	<0.0058	<0.0056	<0.0052	<0.0057	<0.0065	<0.0053	<0.0059	<0.0047	<0.0059	<0.0064	<0.0043	<0.0043
Isopropylbenzene	mg/kg	<0.0067	<0.0058	<0.0061	<0.0058	<0.0050	<0.0062	<0.0066	<0.0058	<0.0056	<0.0052	<0.0057	<0.0065	<0.0053	<0.0059	<0.0047	<0.0059	<0.0064	<0.0043	<0.0043
Methyl tert-Butyl Ether	mg/kg	<0.0067	<0.0058	<0.0061	<0.0058	<0.0050	<0.0062	<0.0066	<0.0058	<0.0056	<0.0052	<0.0057	<0.0065	<0.0053	<0.0059	<0.0047	<0.0059	<0.0064	<0.0043	<0.0043
Methylene Chloride	mg/kg	<0.0134	<0.0116	<0.0121	<0.0115	<0.0100	<0.0123	<0.0132	<0.0116	<0.0112	<0.0104	<0.0113	<0.0130	<0.0105	<0.0119	<0.0094	<0.0118	<0.0127	<0.0086	<0.0086
Naphthalene	mg/kg	<0.0067	<0.0058	<0.0061	<0.0058	<0.0050	<0.0062	<0.0066	<0.0058	<0.0056	<0.0052	<0.0057	<0.0065	<0.0053	<0.0059	<0.0047	<0.0059	<0.0064	<0.0043	<0.0043
n-Butylbenzene	mg/kg	<0.0067	<0.0058	<0.0061	<0.0058	<0.0050	<0.0062	<0.0066	<0.0058	<0.0056	<0.0052	<0.0057	<0.0065	<0.0053	<0.0059	<0.0047	<0.0059	<0.0064	<0.0043	<0.0043
n-Propylbenzene	mg/kg	<0.0067	<0.0058	<0.0061	<0.0058	<0.0050	<0.0062	<0.0066	<0.0058	<0.0056	<0.0052	<0.0057	<0.0065	<0.0053	<0.0059	<0.0047	<0.0059	<0.0064	<0.0043	<0.0043
sec-Butylbenzene	mg/kg	<0.0067	<0.0058	<0.0061	<0.0058	<0.0050	<0.0062	<0.0066	<0.0058	<0.0056	<0.0052	<0.0057	<0.0065	<0.0053	<0.0059	<0.0047	<0.0059	<0.0064	<0.0043	<0.0043

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Soil Distinction Soil Type Depth Interval (ft.) Sampling Date	Stockpile 3 SP03S06 1503163 Fill -- 3/10/2015	Stockpile 3 SP03S07 1503163 Fill -- 3/10/2015	Stockpile 3 SP03S08 1503163 Fill -- 3/10/2015	Stockpile 4 SP04S01 1503212 Fill -- 3/11/2015	Stockpile 4 SP04S02 1503212 Fill -- 3/11/2015	Stockpile 4 SP04S03 1503212 Fill -- 3/11/2015	Stockpile 4 SP04S04 1503212 Fill -- 3/11/2015	Stockpile 4 SP04S05 1503212 Fill -- 3/11/2015	Stockpile 4 SP04S06 1503212 Fill -- 3/11/2015	Stockpile 4 SP04S07 1503212 Fill -- 3/11/2015	Stockpile 4 SP04S08 1503212 Fill -- 3/11/2015	Stockpile 4 SP04S09 1503212 Fill -- 3/11/2015	Stockpile 4 SP04S10 1503213 Fill -- 3/11/2015	Stockpile 4 SP04S11 1503213 Fill -- 3/11/2015	Stockpile 4 SP04S12 1503213 Fill -- 3/11/2015	Stockpile 4 SP04S13 1503213 Fill -- 3/11/2015	Stockpile 4 SP04S14 1503213 Fill -- 3/11/2015	Stockpile 4 SP04S15 1503213 Fill -- 3/11/2015	Stockpile 4 SP04S16 1503213 Fill -- 3/11/2015
Preliminary Disposal Facility Category		MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	Hazardous Material Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A	MCP Regulated Type A
Styrene	mg/kg	<0.0067	<0.0058	<0.0061	<0.0058	<0.0050	<0.0062	<0.0066	<0.0058	<0.0056	<0.0052	<0.0057	<0.0065	<0.0053	<0.0059	<0.0047	<0.0059	<0.0064	<0.0043	<0.0043
tert-Butylbenzene	mg/kg	<0.0067	<0.0058	<0.0061	<0.0058	<0.0050	<0.0062	<0.0066	<0.0058	<0.0056	<0.0052	<0.0057	<0.0065	<0.0053	<0.0059	<0.0047	<0.0059	<0.0064	<0.0043	<0.0043
Tertiary-amyl methyl ether	mg/kg	<0.0067	<0.0058	<0.0061	<0.0058	<0.0050	<0.0062	<0.0066	<0.0058	<0.0056	<0.0052	<0.0057	<0.0065	<0.0053	<0.0059	<0.0047	<0.0059	<0.0064	<0.0043	<0.0043
Tetrachloroethene	mg/kg	<0.0067	<0.0058	<0.0061	<0.0058	<0.0050	<0.0062	<0.0066	<0.0058	<0.0056	<0.0052	<0.0057	<0.0065	<0.0053	<0.0059	<0.0047	<0.0059	<0.0064	<0.0043	<0.0043
Tetrahydrofuran	mg/kg	<0.0067	<0.0058	<0.0061	<0.0058	<0.0050	<0.0062	<0.0066	<0.0058	<0.0056	<0.0052	<0.0057	<0.0065	<0.0053	<0.0059	<0.0047	<0.0059	<0.0064	<0.0043	<0.0043
Toluene	mg/kg	<0.0067	<0.0058	<0.0061	<0.0058	<0.0050	<0.0062	<0.0066	<0.0058	<0.0056	<0.0052	<0.0057	<0.0065	<0.0053	<0.0059	<0.0047	<0.0059	<0.0064	<0.0043	<0.0043
trans-1,2-Dichloroethene	mg/kg	<0.0067	<0.0058	<0.0061	<0.0058	<0.0050	<0.0062	<0.0066	<0.0058	<0.0056	<0.0052	<0.0057	<0.0065	<0.0053	<0.0059	<0.0047	<0.0059	<0.0064	<0.0043	<0.0043
trans-1,3-Dichloropropene	mg/kg	<0.0067	<0.0058	<0.0061	<0.0058	<0.0050	<0.0062	<0.0066	<0.0058	<0.0056	<0.0052	<0.0057	<0.0065	<0.0053	<0.0059	<0.0047	<0.0059	<0.0064	<0.0043	<0.0043
Trichloroethene	mg/kg	<0.0067	<0.0058	<0.0061	<0.0058	<0.0050	<0.0062	<0.0066	<0.0058	<0.0056	<0.0052	<0.0057	<0.0065	<0.0053	<0.0059	<0.0047	<0.0059	<0.0064	<0.0043	<0.0043
Trichlorofluoromethane	mg/kg	<0.0067	<0.0058	<0.0061	<0.0058	<0.0050	<0.0062	<0.0066	<0.0058	<0.0056	<0.0052	<0.0057	<0.0065	<0.0053	<0.0059	<0.0047	<0.0059	<0.0064	<0.0043	<0.0043
Vinyl Chloride	mg/kg	<0.0134	<0.0116	<0.0121	<0.0115	<0.0100	<0.0123	<0.0132	<0.0116	<0.0112	<0.0104	<0.0113	<0.0130	<0.0105	<0.0119	<0.0094	<0.0118	<0.0127	<0.0086	<0.0086
Xylene O	mg/kg	<0.0067	<0.0058	<0.0061	<0.0058	<0.0050	<0.0062	<0.0066	<0.0058	<0.0056	<0.0052	<0.0057	<0.0065	<0.0053	<0.0059	<0.0047	<0.0059	<0.0064	<0.0043	<0.0043
Xylene P,M	mg/kg	<0.0134	<0.0116	<0.0121	<0.0115	<0.0100	<0.0123	<0.0132	<0.0116	<0.0112	<0.0104	<0.0113	<0.0130	<0.0105	<0.0119	<0.0094	<0.0118	<0.0127	<0.0086	<0.0086
Xylenes (Total)	mg/kg	<0.0134	<0.0116	<0.0121	<0.0115	<0.0100	<0.0123	<0.0132	<0.0116	<0.0112	<0.0104	<0.0113	<0.0130	<0.0105	<0.0119	<0.0094	<0.0118	<0.0127	<0.0086	<0.0086
Total VOCs (Low Level)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Semi-Volatile Organic Compounds																				
1,2,4-Trichlorobenzene	mg/kg	<1.01	<1.00	<0.964	<0.931	<0.888	<0.937	<0.909	<0.929	<0.845	<0.955	<0.943	<0.930	<0.901	<0.900	<0.927	<0.954	<0.971	<0.910	<0.884
1,2-Dichlorobenzene	mg/kg	<1.01	<1.00	<0.964	<0.931	<0.888	<0.937	<0.909	<0.929	<0.845	<0.955	<0.943	<0.930	<0.901	<0.900	<0.927	<0.954	<0.971	<0.910	<0.884
1,3-Dichlorobenzene	mg/kg	<1.01	<1.00	<0.964	<0.931	<0.888	<0.937	<0.909	<0.929	<0.845	<0.955	<0.943	<0.930	<0.901	<0.900	<0.927	<0.954	<0.971	<0.910	<0.884
1,4-Dichlorobenzene	mg/kg	<0.509	<0.502	<0.483	<0.467	<0.445	<0.470	<0.456	<0.466	<0.424	<0.479	<0.473	<0.466	<0.452	<0.451	<0.465	<0.478	<0.487	<0.456	<0.444
2,4,5-Trichlorophenol	mg/kg	<1.01	<1.00	<0.964	<0.931	<0.888	<0.937	<0.909	<0.929	<0.845	<0.955	<0.943	<0.930	<0.901	<0.900	<0.927	<0.954	<0.971	<0.910	<0.884
2,4,6-Trichlorophenol	mg/kg	<1.01	<1.00	<0.964	<0.931	<0.888	<0.937	<0.909	<0.929	<0.845	<0.955	<0.943	<0.930	<0.901	<0.900	<0.927	<0.954	<0.971	<0.910	<0.884
2,4-Dichlorophenol	mg/kg	<1.01	<1.00	<0.964	<0.931	<0.888	<0.937	<0.909	<0.929	<0.845	<0.955	<0.943	<0.930	<0.901	<0.900	<0.927	<0.954	<0.971	<0.910	<0.884
2,4-Dimethylphenol	mg/kg	<1.01	<1.00	<0.964	<0.931	<0.888	<0.937	<0.909	<0.929	<0.845	<0.955	<0.943	<0.930	<0.901	<0.900	<0.927	<0.954	<0.971	<0.910	<0.884
2,4-Dinitrophenol	mg/kg	<5.09	<5.02	<4.83	<4.67	<4.45	<4.70	<4.56	<4.66	<4.24	<4.79	<4.73	<4.66	<4.52	<4.51	<4.65	<4.78	<4.87	<4.56	<4.44
2,4-Dinitrotoluene	mg/kg	<1.01	<1.00	<0.964	<0.931	<0.888	<0.937	<0.909	<0.929	<0.845	<0.955	<0.943	<0.930	<0.901	<0.900	<0.927	<0.954	<0.971	<0.910	<0.884
2,6-Dinitrotoluene	mg/kg	<1.01	<1.00	<0.964	<0.931	<0.888	<0.937	<0.909	<0.929	<0.845	<0.955	<0.943	<0.930	<0.901	<0.900	<0.927	<0.954	<0.971	<0.910	<0.884
2-Chloronaphthalene	mg/kg	<1.01	<1.00	<0.964	<0.931	<0.888	<0.937	<0.909	<0.929	<0.845	<0.955	<0.943	<0.930	<0.901	<0.900	<0.927	<0.954	<0.971	<0.910	<0.884
2-Chlorophenol	mg/kg	<1.01	<1.00	<0.964	<0.931	<0.888	<0.937	<0.909	<0.929	<0.845	<0.955	<0.943	<0.930	<0.901	<0.900	<0.927	<0.954	<0.971	<0.910	<0.884
2-Methylnaphthalene	mg/kg	<1.01	<1.00	<0.964	2.21	1.23	<0.937	<0.909	<0.929	<0.845	<0.955	<0.943	<0.930	<0.901	<0.900	<0.927	<0.954	<0.971	<0.910	<0.884
2-Methylphenol	mg/kg	<1.01	<1.00	<0.964	<0.931	<0.888	<0.937	<0.909	<0.929	<0.845	<0.955	<0.943	<0.930	<0.901	<0.900	<0.927	<0.954	<0.971	<0.910	<0.884
2-Nitrophenol	mg/kg	<1.01	<1.00	<0.964	<0.931	<0.888	<0.937	<0.909	<0.929	<0.845	<0.955	<0.943	<0.930	<0.901	<0.900	<0.927	<0.954	<0.971	<0.910	<0.884
3,3´-Dichlorobenzidine	mg/kg	<2.03	<2.00	<1.93	<1.86	<1.78	<1.88	<1.82	<1.86	<1.69	<1.91	<1.89	<1.86	<1.80	<1.80	<1.86	<1.91	<1.95	<1.82	<1.77
3+4-Methylphenol	mg/kg	<2.03	<2.00	<1.93	<1.86	<1.78	<1.88	<1.82	<1.86	<1.69	<1.91	<1.89	<1.86	<1.80	<1.80	<1.86	<1.91	<1.95	<1.82	<1.77
4-Bromophenyl-phenylether	mg/kg	<1.01	<1.00	<0.964	<0.931	<0.888	<0.937	<0.909	<0.929	<0.845	<0.955	<0.943	<0.930	<0.901	<0.900	<0.927	<0.954	<0.971	<0.910	<0.884
4-Chloroaniline	mg/kg	<2.03	<2.00	<1.93	<1.86	<1.78	<1.88	<1.82	<1.86	<1.69	<1.91	<1.89	<1.86	<1.80	<1.80	<1.86	<1.91	<1.95	<1.82	<1.77
4-Nitrophenol	mg/kg	<5.09	<5.02	<4.83	<4.67	<4.45	<4.70	<4.56	<4.66	<4.24	<4.79	<4.73	<4.66	<4.52	<4.51	<4.65	<4.78	<4.87	<4.56	<4.44
Acenaphthene	mg/kg	<1.01	<1.00	<0.964	4.51	0.951	<0.937	<0.909	<0.929	<0.845	<0.955	<0.943	<0.930	<0.901	<0.900	<0.927	<0.954	<0.971	<0.910	<0.884
Acenaphthylene	mg/kg	<1.01	<1.00	<0.964	<0.931	<0.888	<0.937	<0.909	<0.929	<0.845	<0.955	<0.943	<0.930	<0.901	<0.900	<0.927	<0.954	<0.971	<0.910	<0.884
Acetophenone	mg/kg	<2.03	<2.00	<1.93	<1.86	<1.78	<1.88	<1.82	<1.86	<1.69	<1.91	<1.89	<1.86	<1.80	<1.80	<1.86	<1.91	<1.95	<1.82	<1.77
Aniline	mg/kg	<5.09	<5.02	<4.83	<4.67	<4.45	<4.70	<4.56	<4.66	<4.24	<4.79	<4.73	<4.66	<4.52	<4.51	<4.65	<4.78	<4.87	<4.56	<4.44
Anthracene	mg/kg	<1.01	<1.00	<0.964	10.2	2.66	<0.937	<0.909	1.16	<0.845	1.05	<0.943	<0.930	<0.901	<0.900	<0.927	<0.954	<0.971	<0.910	<0.884
Azobenzene	mg/kg	<1.01	<1.00	<0.964	<0.931	<0.888	<0.937	<0.909	<0.929	<0.845	<0.955	<0.943	<0.930	<0.901	<0.900	<0.927	<0.954	<0.971	<0.910	<0.884
Benzo(a)anthracene	mg/kg	1.42	<1.00	<0.964	6.65	4.86	2.59	1.22	2.93	1.24	3.48	1.97	1.43	1.09	1.8	1.18	1.9	1.73	<0.910	<0.884
Benzo(a)pyrene	mg/kg	1.33	<0.502	<0.483	3.09	4.12	2.17	1.12	2.64	1.1	3.19	1.85	1.29	0.972	1.66	1.1	1.77	1.6	<0.456	<0.444
Benzo(b)fluoranthene	mg/kg	1.84	<1.00	<0.964	4.42	5.3	3.01	1.49	3.47	1.48	4.64	2.59	1.67	1.28	2.36	1.44	2.33	2.28	<0.910	<0.884
Benzo(g,h,i)perylene	mg/kg	<1.01	<1.00	<0.964	1.06	1.8	<0.937	<0.909	1.12	<0.845	1.09	<0.943	<0.930	<0.901	1.11	<0.927	1.02	<0.971	<0.910	<0.884
Benzo(k)fluoranthene	mg/kg	<1.01	<1.00	<0.964	1.87	1.77	0.972	<0.909	1.38	<0.845	1.88	1	<0.930	<0.901	<0.900	<0.927	<0.954	<0.971	<0.910	<0.884
bis(2-Chloroethoxy)methane	mg/kg	<1.01	<1.00	<0.964	<0.931	<0.888	<0.937	<0.909	<0.929	<0.845	<0.955	<0.943	<0.930	<0.901	<0.900	<0.927	<0.954	<0.971	<0.910	<0.884
bis(2-Chloroethyl)ether	mg/kg	<0.509	<0.502	<0.483	<0.467	<0.445	<0.470	<0.456	<0.466	<0.424	<0.479	<0.473	<0.466	<0.452	<0.451	<0.465	<0.478	<0.487	<0.456	<0.444
bis(2-chloroisopropyl)Ether	mg/kg	<0.509	<0.502	<0.483	<0.467	<0.445	<0.470	<0.456	<0.466	<0.424	<0.479	<0.473	<0.466	<0.452	<0.451	<0.465	<0.478	<0.487	<0.456	<0.444
bis(2-Ethylhexyl)phthalate	mg/kg	<1.01	<1.00	<0.964	<0.931	<0.888	<0.937	<0.909	<0.929	<0.845	<0.955	<0.943	<0.930	<0.901	<0.900	<0.927	<0.954	<0.971	<0.910	<0.884
Butylbenzylphthalate	mg/kg	<1.01	<1.00	<0.964	<0.931	<0.888	<0.937	<0.909	<0.929	<0.845	<0.955	<0.943	<0.930	<0.901	<0.900	<0.927	<0.954	<0.971	<0.910	<0.884
Chrysene	mg/kg	1.48	<0.502	<0.483	6.24	4.5	2.47	1.27	2.91	1.14	3.43	2.03	1.34	1.04	1.78	1.23	1.95	1.76	<0.456	<0.444
Dibenzo(a,h)Anthracene	mg/kg	<0.509	<0.502	<0.483	0.534	0.969	0.481	<0.456	0.587	<0.424	0.642	<0.473	<0.466	<0.452	0.506	<0.465	0.492	<0.487	<0.456	<0.444
Dibenzofuran	mg/kg	<1.01	<1.00	<0.964	4.17	1.21	<0.937	<0.909	<0.929	<0.845	<0.955	<0.943	<0.930	<0.901	<0.900	<0.927	<0.954	<0.971	<0.910	<0.884
Diethylphthalate	mg/kg	<1.01	<1.00	<0.964	<0.931	<0.888	<0.937	<0.909	<0.929	<0.845	<0.955	<0.943	<0.930	<0.901	<0.900	<0.927	<0.954	<0.971	<0.910	<0.884
Dimethylphthalate	mg/kg	<1.01	<1.00	<0.964	<0.931	<0.888	<0.937	<0.909	<0.929	<0.845	<0.955	<0.943	<0.930	<0.901	<0.900	<0.927	<0.954	<0.971	<0.910	<0.884
Di-n-butylphthalate	mg/kg	<1.01	<1.00	<0.964	<0.931	<0.888	<0.937	<0.909	<0.929	<0.845	<0.955	<0.943	<0.930	<0.901	<0.900	<0.927	<0.954	<0.971	<0.910	<0.884
Di-n-octylphthalate	mg/kg	<1.01	<1.00	<0.964	<0.931	<0.888	<0.937	<0.909	<0.929	<0.845	<0.955	<0.943	<0.930	<0.901	<0.900	<0.927	<0.954	<0.971	<0.910	<0.884
Fluoranthene	mg/kg	3.28	<1.00	<0.964	32.7	9.66	4.64	2.39	5.67	2.21	5.64	3.68	2.91	1.82	3	2.1	3.58	2.91	<0.910	<0.884
Fluorene	mg/kg	<1.01	<1.00	<0.964	6.81	1.24	<0.937	<0.909	<0.929	<0.845	<0.955	<0.943	<0.930	<0.901	<0.900	<0.927	<0.954	<0.971	<0.910	<0.884
Hexachlorobenzene	mg/kg	<0.509	<0.502	<0.483	<0.467	<0.445	<0.470	<0.456	<0.466	<0.424	<0.479	<0.473	<0.466	<0.452	<0.451	<0.465	<0.478	<0.487	<0.456	<0.444
Hexachlorobutadiene	mg/kg	<1.01	<1.00	<0.964	<0.931	<0.888	<0.937	<0.909	<0.929	<0.845	<0.955	<0.943	<0.930	<0.901	<0.900	<0.927	<0.954	<0.971	<0.910	<0.884
Hexachloroethane	mg/kg	<1.01	<1.00	<0.964	<0.931	<0.888	<0.937	<0.909	<0.929	<0.845	<0.955	<0.943	<0.930	<0.901	<0.900	<0.927	<0.954	<0.971	<0.910	<0.884
Indeno(1,2,3-cd)Pyrene	mg/kg	<1.01	<1.00	<0.964	1.15	1.89	0.968	<0.909	1.16	<0.845	1.24	<0.943	<0.930	<0.901	1.05	<0.927	1.01	<0.971	<0.910	<0.884
Isophorone	mg/kg	<1.01	<1.00	<0.964	<0.931	<0.888	<0.937	<0.909	<0.929	<0.845	<0.955	<0.943	<0.930	<0.901	<0.900	<0.927	<0.954	<0.971	<0.910	<0.884
Naphthalene	mg/kg	<1.01	<1.00	<0.964	1.89	1.51	<0.937	<0.909	<0.929	<0.845	<0.955	<0.943	<0.930	<0.901	<0.900	<0.927	<0.954	<0.971	<0.910	<0.884
Nitrobenzene	mg/kg	<1.01	<1.00	<0.964	<0.931	<0.888	<0.937	<0.909	<0.929	<0.845	<0.955	<0.943	<0.930	<0.901	<0.900	<0.927	<0.954	<0.971	<0.910	<0.884
N-Nitrosodimethylamine	mg/kg	<1.01	<1.00	<0.964	<0.931	<0.888	<0.937	<0.909	<0.929	<0.845	<0.955	<0.943	<0.930	<0.901	<0.900	<0.927	<0.954	<0.971	<0.910	<0.884
Pentachlorophenol	mg/kg	<5.09	<5.02	<4.83	<4.67	<4.45	<4.70	<4.56	<4.66	<4.24	<4.79	<4.73	<4.66	<4.52	<4.51	<4.65	<4.78	<4.87	<4.56	<4.44
Phenanthrene	mg/kg	2.04	<1.00	<0.964	37.9	10.1	3.75	1.62	4.1	1.55	3.34	2.21	1.4	1.1	1.54	1.28	2.12	1.57	<0.910	<0.884
Phenol	mg/kg	<1.01	<1.00	<0.964	<0.931	<0.888	<0.937	<0.909	<0.929	<0.845	<0.955	<0.943	<0.930	<0.901	<0.900	<0.927	<0.954	<0.971	<0.910	<0.884
Pyrene	mg/kg	2.37	<1.00	<0.964	14.8	6.48	3.42	1.79	4.2	1.74	4.66	2.87	2.1	1.67	2.63	1.89	2.86	2.36	<0.910	<0.884
Total SVOCs	mg/kg	13.76	ND	ND	140.204	60.25	24.471	10.9	31.327	10.46	34.282	18.2	12.14	8.972	17.436	10.22	19.032	14.21	ND	ND
Classic Chemistry																				
Corrosivity (pH)	S.U.	6.97	7.16	7.22	8.23	7.83	8.03	8.09	7.92	8.21	7.82	7.65	8.09	8.21	8.17	8.28	7.68	8.16	7.97	8.46
Conductivity	umhos/cm	201	100	94	113	90	100	106	69	114	246	367	194	192	140	117	88	132	153	96
Flashpoint	°F	>200	>200	>200	>200	>200	>200	>200	>200	>200	>200	>200	>200	>200	>200	>200	>200	>200	>200	>200
Reactive Cyanide	mg/kg	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Reactive Sulfide	mg/kg	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0

tions of a total metals exceeded 20 times the corresponding TCLP regulatory concentration were run for TCLP by EPA method 1311.
ı was below the laboratory reporting limit. A -- indicates that a sample was not analyzed for the corresponding compound.
ta Report" and Specification 312600 for information and assumptions concerning Preliminary Disposal Facility Categories.
btained during a concurrent geotechnical study. Sample intervals may not be consistent with those obtained during precharacterization study.
ł. Refer to individual boring logs for observed soil conditions.



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LEGEND

PARCEL BOUNDARY

APPROXIMATE PARCEL BOUNDARY

A01 PRECHARACTERIZATION GRID

0 35 70 140 210

SCALE IN FEET

WYNN EVERETT
EVERETT, MA

PRECHARACTERIZATION GRID

PREPARED BY:

GZA GeoEnvironmental, Inc.
Engineers and Scientists
www.gza.com

PROJ MGR: DEL	REVIEWED BY: DEL	CHECKED BY: DEL	FIGURE 2
DESIGNED BY: DEL	DRAWN BY: SMW	SCALE: 1 INCH = 70 FT	
DATE: 04-21-2015	PROJECT NO. 01.0171521.12	REVISION NO.	

APPENDIX I

PROUCL STATISTICAL TEST RESULTS

APPENDIX I

TWO SAMPLE HYPOTHESIS TEST METHODS

WATER-SIDE VS. LOCAL CONDITIONS DATA

Contaminant concentrations in study area sediment samples were compared to concentrations in Local Conditions samples to delineate the limits of the Massachusetts Contingency Plan disposal site within the Mystic River. (referred to as the "water –side portion of the disposal site" or the "water-side site", or "On-Site"). As discussed in the main text of the Supplemental Phase II Comprehensive Site Assessment (Supplemental Phase II) shallow sediment data for contiguous sample locations within the Water-Side were grouped based on relative concentrations of the main contaminants of concern (arsenic, lead and mercury), and those data sets were compared to the Local Conditions data set to determine whether the Water-Side concentrations were significantly elevated above Local Conditions.

Statistical comparisons between the data sets were performed using two-sample hypothesis tests. The U.S. EPA ProUCL version statistical package was used to perform the statistical tests. The ProUCL guidance document recommends a minimum samples size of eight observations for each data set in order to obtain reliable results from two-sample hypothesis tests. Furthermore, the ProUCL guidance recommends that non-detect results not be used for statistical tests. The data sets for the study area and Local Conditions sediment samples were large enough that these conditions were met for the contaminants of interests for delineating water-side site limits.

Statistical tests were run at the 95 percent confidence level. Table 7 of the Supplemental Phase II presents a summary of the statistical test results. ProUCL reports are included in this Appendix. Figure H-1 presents a decision tree showing which two-sample hypothesis test was used to compare the various data sets for different contaminants. The Students T-test was the preferred hypothesis test to evaluate whether data sets were significantly different. The Students T-test is a parametric test that requires both data sets to be normally distributed, and have equal variances. Shapiro-Wilk and Lilliefors goodness-of-fit tests were run to evaluate whether data sets (raw data and log-transformed data) fit normal distributions. F-tests were used to test for equality of variances between the data sets.

Data sets with normal or log-normal distributions and equal variances were compared using the Students T-test. Data sets with normal distributions but unequal variances were compared using the Welch-Satterthwaite T-tests. Data sets that did not have normal or log normal distributions were compared using the non-parametric Wilcoxon-Mann-Whitney test.

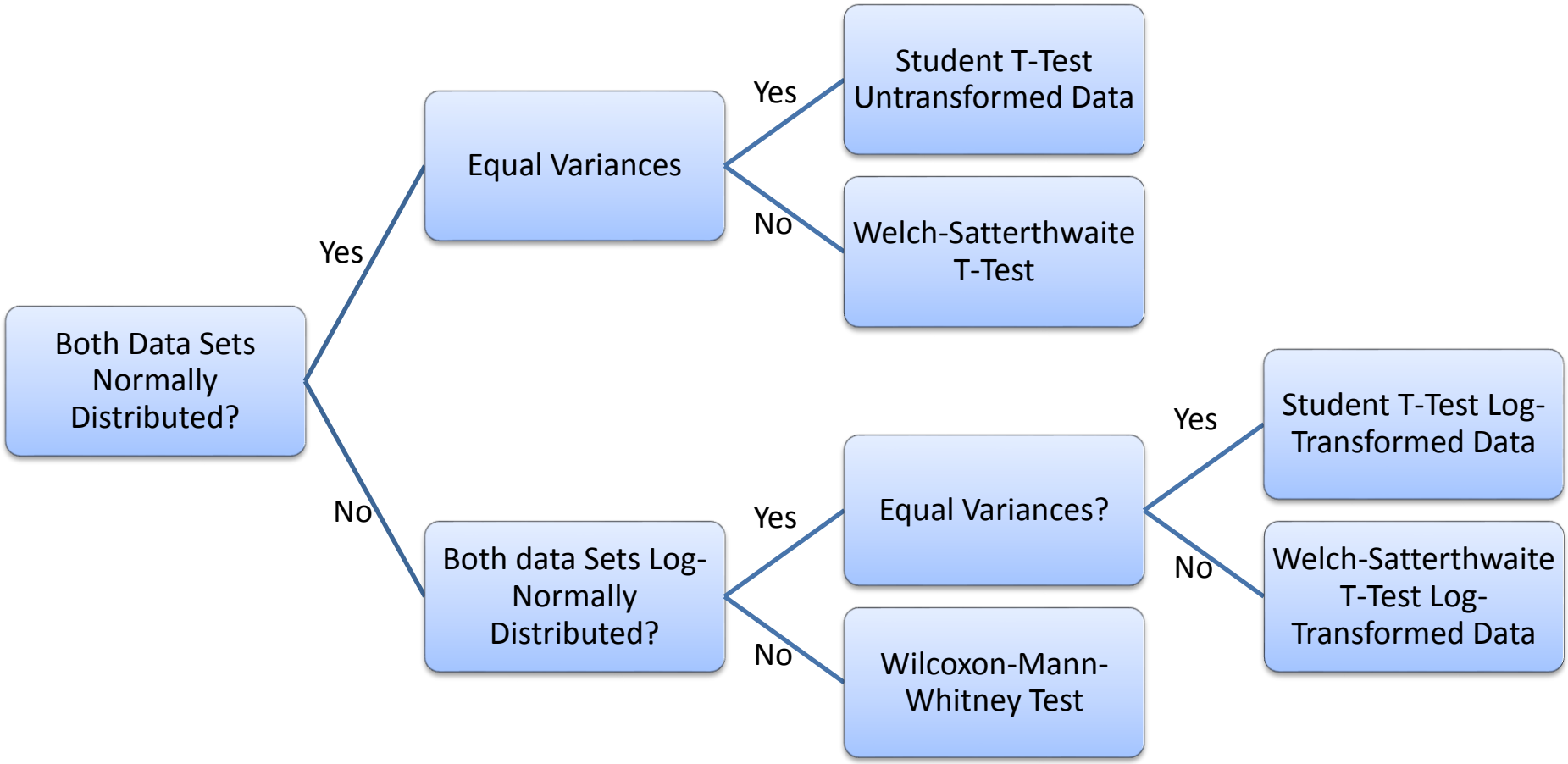
Statistical test results for the Shallow (0'-2') data set are presented in Table 7. Statistical tests were also run for the Surficial (0'-0.5') data set, with identical results, except in the case of lead at the water-side site, which was found to be statistically elevated compared to Local Conditions for the surficial sediment data set, but not for the shallow sediment data set.

Outlier values can skew results for comparisons between data sets when the data sets are not very large. GZA ran all comparisons twice; once with all data for each data set, and once with high outlier results removed from the Local Conditions data set. Tests used to identify outliers were the Dixon's Outlier Test and Rosner's Outlier Test (at the 95 percent confidence level). Table H-1 summarizes the outliers identified via iterative runs of these outlier tests. The distributions of the Local Conditions data sets were found to be more normally or log-normally distributed with the outliers removed, allowing for the use of the more robust T-tests in the place of the non-parametric Wilcoxon-Mann-Whitney test. Removing the outliers did not change the results of the statistical tests except in the case of lead in the water-side site shallow sediment data set; with the Local Conditions outlier removed lead was found to be significantly elevated above Local Conditions, but there is not a significant difference if the Local Conditions outlier is included.

GZA Proactive by Design

FIGURE I-1
Two-Sample Hypothesis Test
Decision Tree

Wynn Casino Development
Water-Side
Everett, Massachusetts



Wynn Resort Casino
Everett, Massachusetts

	Goodness-of-Fit Test Statistics for Uncensored Full Data Sets without Non-Detects							
User Selected Options								
Date/Time of Computation	9/17/2015 11:45:42 AM							
From File	Round 11 RAW INPUT.xls							
Full Precision	OFF							
Confidence Coefficient	0.95							

Wynn Resort Casino
Everett, Massachusetts

Total Polychlorinated Biphenyls: Off-Site East	
Raw Statistics	
Number of Valid Observations	11
Number of Missing Observations	3
Number of Distinct Observations	11
Minimum	0.117
Maximum	21.5
Mean of Raw Data	3.637
Standard Deviation of Raw Data	6.38
Khat	0.556
Theta hat	6.542
Kstar	0.465
Theta star	7.823
Mean of Log Transformed Data	0.167
Standard Deviation of Log Transformed Data	1.648
Normal GOF Test Results	
Correlation Coefficient R	0.745
Shapiro Wilk Test Statistic	0.579
Shapiro Wilk Critical (0.05) Value	0.85
Approximate Shapiro Wilk P Value	2.6189E-5
Lilliefors Test Statistic	0.398
Lilliefors Critical (0.05) Value	0.267
Data not Normal at (0.05) Significance Level	
Gamma GOF Test Results	
Correlation Coefficient R	0.959
A-D Test Statistic	0.729
A-D Critical (0.05) Value	0.777
K-S Test Statistic	0.256
K-S Critical(0.05) Value	0.268
Data appear Gamma Distributed at (0.05) Significance Level	
Lognormal GOF Test Results	
Correlation Coefficient R	0.955
Shapiro Wilk Test Statistic	0.907
Shapiro Wilk Critical (0.05) Value	0.85
Approximate Shapiro Wilk P Value	0.238
Lilliefors Test Statistic	0.23
Lilliefors Critical (0.05) Value	0.267
Data appear Lognormal at (0.05) Significance Level	

Wynn Resort Casino
Everett, Massachusetts

Total Polychlorinated Biphenyls: Local Conditions	
Raw Statistics	
Number of Valid Observations	14
Number of Missing Observations	3
Number of Distinct Observations	14
Minimum	0.606
Maximum	15.22
Mean of Raw Data	2.413
Standard Deviation of Raw Data	3.789
Khat	1.199
Theta hat	2.012
Kstar	0.99
Theta star	2.437
Mean of Log Transformed Data	0.409
Standard Deviation of Log Transformed Data	0.811
Normal GOF Test Results	
Correlation Coefficient R	0.655
Shapiro Wilk Test Statistic	0.46
Shapiro Wilk Critical (0.05) Value	0.874
Approximate Shapiro Wilk P Value	5.1596E-7
Lilliefors Test Statistic	0.426
Lilliefors Critical (0.05) Value	0.237
Data not Normal at (0.05) Significance Level	
Gamma GOF Test Results	
Correlation Coefficient R	0.849
A-D Test Statistic	1.912
A-D Critical (0.05) Value	0.756
K-S Test Statistic	0.363
K-S Critical(0.05) Value	0.234
Data not Gamma Distributed at (0.05) Significance Level	
Lognormal GOF Test Results	
Correlation Coefficient R	0.879
Shapiro Wilk Test Statistic	0.793
Shapiro Wilk Critical (0.05) Value	0.874
Approximate Shapiro Wilk P Value	0.00274
Lilliefors Test Statistic	0.281
Lilliefors Critical (0.05) Value	0.237
Data not Lognormal at (0.05) Significance Level	

Wynn Resort Casino
Everett, Massachusetts

Total Polychlorinated Biphenyls: Water-Side Site	
Raw Statistics	
Number of Valid Observations	35
Number of Missing Observations	23
Number of Distinct Observations	35
Minimum	0.0092
Maximum	113
Mean of Raw Data	4.76
Standard Deviation of Raw Data	18.96
Khat	0.37
Theta hat	12.87
Kstar	0.357
Theta star	13.32
Mean of Log Transformed Data	-0.241
Standard Deviation of Log Transformed Data	1.738
Normal GOF Test Results	
Correlation Coefficient R	0.454
Shapiro Wilk Test Statistic	0.241
Shapiro Wilk Critical (0.05) Value	0.934
Approximate Shapiro Wilk P Value	1.110E-16
Lilliefors Test Statistic	0.432
Lilliefors Critical (0.05) Value	0.15
Data not Normal at (0.05) Significance Level	
Gamma GOF Test Results	
Correlation Coefficient R	0.768
A-D Test Statistic	3.199
A-D Critical (0.05) Value	0.841
K-S Test Statistic	0.245
K-S Critical(0.05) Value	0.16
Data not Gamma Distributed at (0.05) Significance Level	
Lognormal GOF Test Results	
Correlation Coefficient R	0.974
Shapiro Wilk Test Statistic	0.967
Shapiro Wilk Critical (0.05) Value	0.934
Approximate Shapiro Wilk P Value	0.447
Lilliefors Test Statistic	0.139
Lilliefors Critical (0.05) Value	0.15
Data appear Lognormal at (0.05) Significance Level	

Wynn Resort Casino
Everett, Massachusetts

Total Polychlorinated Biphenyls: Off-Site West	
Raw Statistics	
Number of Valid Observations	4
Number of Missing Observations	20
Number of Distinct Observations	4
Minimum	0.071
Maximum	1.491
Mean of Raw Data	0.789
Standard Deviation of Raw Data	0.783
Khat	0.839
Theta hat	0.94
Kstar	0.376
Theta star	2.095
Mean of Log Transformed Data	-0.941
Standard Deviation of Log Transformed Data	1.559
Normal GOF Test Results	
Correlation Coefficient R	0.897
Shapiro Wilk Test Statistic	0.773
Shapiro Wilk Critical (0.05) Value	0.748
Approximate Shapiro Wilk P Value	N/A
Lilliefors Test Statistic	0.297
Lilliefors Critical (0.05) Value	0.443
Data appear Normal at (0.05) Significance Level	
Gamma GOF Test Results	
Correlation Coefficient R	0.779
A-D Test Statistic	0.542
A-D Critical (0.05) Value	0.669
K-S Test Statistic	0.332
K-S Critical(0.05) Value	0.404
Data appear Gamma Distributed at (0.05) Significance Level	
Lognormal GOF Test Results	
Correlation Coefficient R	0.928
Shapiro Wilk Test Statistic	0.836
Shapiro Wilk Critical (0.05) Value	0.748
Approximate Shapiro Wilk P Value	N/A
Lilliefors Test Statistic	0.299
Lilliefors Critical (0.05) Value	0.443
Data appear Lognormal at (0.05) Significance Level	

Wynn Resort Casino
Everett, Massachusetts

Total Polycyclic Aromatic Hydrocarbons: Off-Site East	
Raw Statistics	
Number of Valid Observations	10
Number of Missing Observations	4
Number of Distinct Observations	10
Minimum	0.019
Maximum	7.99
Mean of Raw Data	3.572
Standard Deviation of Raw Data	2.362
Khat	1.03
Theta hat	3.467
Kstar	0.788
Theta star	4.533
Mean of Log Transformed Data	0.715
Standard Deviation of Log Transformed Data	1.737
Normal GOF Test Results	
Correlation Coefficient R	0.99
Shapiro Wilk Test Statistic	0.983
Shapiro Wilk Critical (0.05) Value	0.842
Approximate Shapiro Wilk P Value	0.972
Lilliefors Test Statistic	0.134
Lilliefors Critical (0.05) Value	0.28
Data appear Normal at (0.05) Significance Level	
Gamma GOF Test Results	
Correlation Coefficient R	0.95
A-D Test Statistic	0.71
A-D Critical (0.05) Value	0.748
K-S Test Statistic	0.215
K-S Critical(0.05) Value	0.274
Data appear Gamma Distributed at (0.05) Significance Level	
Lognormal GOF Test Results	
Correlation Coefficient R	0.803
Shapiro Wilk Test Statistic	0.673
Shapiro Wilk Critical (0.05) Value	0.842
Approximate Shapiro Wilk P Value	3.4059E-4
Lilliefors Test Statistic	0.289
Lilliefors Critical (0.05) Value	0.28
Data not Lognormal at (0.05) Significance Level	

Total Polycyclic Aromatic Hydrocarbons: Local Conditions	
Raw Statistics	
Number of Valid Observations	17
Number of Distinct Observations	17
Minimum	6.638
Maximum	173.9
Mean of Raw Data	25.76
Standard Deviation of Raw Data	39.38
Khat	1.335
Theta hat	19.3
Kstar	1.139
Theta star	22.63
Mean of Log Transformed Data	2.83
Standard Deviation of Log Transformed Data	0.756
Normal GOF Test Results	
Correlation Coefficient R	0.637
Shapiro Wilk Test Statistic	0.437
Shapiro Wilk Critical (0.05) Value	0.892
Approximate Shapiro Wilk P Value	3.4850E-8
Lilliefors Test Statistic	0.417
Lilliefors Critical (0.05) Value	0.215
Data not Normal at (0.05) Significance Level	
Gamma GOF Test Results	
Correlation Coefficient R	0.822
A-D Test Statistic	2.153
A-D Critical (0.05) Value	0.759
K-S Test Statistic	0.337
K-S Critical(0.05) Value	0.214
Data not Gamma Distributed at (0.05) Significance Level	
Lognormal GOF Test Results	
Correlation Coefficient R	0.883
Shapiro Wilk Test Statistic	0.801
Shapiro Wilk Critical (0.05) Value	0.892
Approximate Shapiro Wilk P Value	0.00132
Lilliefors Test Statistic	0.262
Lilliefors Critical (0.05) Value	0.215
Data not Lognormal at (0.05) Significance Level	

Wynn Resort Casino
Everett, Massachusetts

Total Polycyclic Aromatic Hydrocarbons: Water-Side Site	
Raw Statistics	
Number of Valid Observations	33
Number of Missing Observations	25
Number of Distinct Observations	33
Minimum	1.447
Maximum	30.64
Mean of Raw Data	9.063
Standard Deviation of Raw Data	8.184
Khat	1.638
Theta hat	5.532
Kstar	1.51
Theta star	6.004
Mean of Log Transformed Data	1.869
Standard Deviation of Log Transformed Data	0.819
Normal GOF Test Results	
Correlation Coefficient R	0.883
Shapiro Wilk Test Statistic	0.773
Shapiro Wilk Critical (0.05) Value	0.931
Approximate Shapiro Wilk P Value	2.3612E-6
Lilliefors Test Statistic	0.255
Lilliefors Critical (0.05) Value	0.154
Data not Normal at (0.05) Significance Level	
Gamma GOF Test Results	
Correlation Coefficient R	0.969
A-D Test Statistic	0.943
A-D Critical (0.05) Value	0.764
K-S Test Statistic	0.162
K-S Critical(0.05) Value	0.156
Data not Gamma Distributed at (0.05) Significance Level	
Lognormal GOF Test Results	
Correlation Coefficient R	0.987
Shapiro Wilk Test Statistic	0.961
Shapiro Wilk Critical (0.05) Value	0.931
Approximate Shapiro Wilk P Value	0.332
Lilliefors Test Statistic	0.103
Lilliefors Critical (0.05) Value	0.154
Data appear Lognormal at (0.05) Significance Level	

Wynn Resort Casino
Everett, Massachusetts

Total Polycyclic Aromatic Hydrocarbons: Off-Site West						
Raw Statistics						
Number of Valid Observations	7					
Number of Missing Observations	17					
Number of Distinct Observations	7					
Minimum	0.224					
Maximum	17.52					
Mean of Raw Data	7.732					
Standard Deviation of Raw Data	6.088					
Khat	1.028					
Theta hat	7.524					
Kstar	0.682					
Theta star	11.33					
Mean of Log Transformed Data	1.485					
Standard Deviation of Log Transformed Data	1.496					
Normal GOF Test Results						
Correlation Coefficient R	0.988					
Shapiro Wilk Test Statistic	0.967					
Shapiro Wilk Critical (0.05) Value	0.803					
Approximate Shapiro Wilk P Value	0.933					
Lilliefors Test Statistic	0.131					
Lilliefors Critical (0.05) Value	0.335					
Data appear Normal at (0.05) Significance Level						
Gamma GOF Test Results						
Correlation Coefficient R	0.951					
A-D Test Statistic	0.294					
A-D Critical (0.05) Value	0.727					
K-S Test Statistic	0.179					
K-S Critical(0.05) Value	0.319					
Data appear Gamma Distributed at (0.05) Significance Level						
Lognormal GOF Test Results						
Correlation Coefficient R	0.917					
Shapiro Wilk Test Statistic	0.851					
Shapiro Wilk Critical (0.05) Value	0.803					
Approximate Shapiro Wilk P Value	0.106					
Lilliefors Test Statistic	0.219					
Lilliefors Critical (0.05) Value	0.335					
Data appear Lognormal at (0.05) Significance Level						

Wynn Resort Casino
Everett, Massachusetts

Total Extractable Petroleum Hydrocarbon: Off-Site East						
Raw Statistics						
Number of Valid Observations	9					
Number of Missing Observations	5					
Number of Distinct Observations	9					
Minimum	18.2					
Maximum	1154					
Mean of Raw Data	381.2					
Standard Deviation of Raw Data	446					
Khat	0.925					
Theta hat	412.3					
Kstar	0.691					
Theta star	552.1					
Mean of Log Transformed Data	5.313					
Standard Deviation of Log Transformed Data	1.273					
Normal GOF Test Results						
Correlation Coefficient R	0.843					
Shapiro Wilk Test Statistic	0.702					
Shapiro Wilk Critical (0.05) Value	0.829					
Approximate Shapiro Wilk P Value	0.0021					
Lilliefors Test Statistic	0.333					
Lilliefors Critical (0.05) Value	0.295					
Data not Normal at (0.05) Significance Level						
Gamma GOF Test Results						
Correlation Coefficient R	0.922					
A-D Test Statistic	0.575					
A-D Critical (0.05) Value	0.746					
K-S Test Statistic	0.26					
K-S Critical(0.05) Value	0.288					
Data appear Gamma Distributed at (0.05) Significance Level						
Lognormal GOF Test Results						
Correlation Coefficient R	0.955					
Shapiro Wilk Test Statistic	0.92					
Shapiro Wilk Critical (0.05) Value	0.829					
Approximate Shapiro Wilk P Value	0.343					
Lilliefors Test Statistic	0.196					
Lilliefors Critical (0.05) Value	0.295					
Data appear Lognormal at (0.05) Significance Level						

Total Extractable Petroleum Hydrocarbon: Local Conditions	
Raw Statistics	
Number of Valid Observations	14
Number of Missing Observations	3
Number of Distinct Observations	14
Minimum	98.8
Maximum	845
Mean of Raw Data	267.7
Standard Deviation of Raw Data	190.7
Khat	3.192
Theta hat	83.87
Kstar	2.556
Theta star	104.8
Mean of Log Transformed Data	5.425
Standard Deviation of Log Transformed Data	0.558
Normal GOF Test Results	
Correlation Coefficient R	0.846
Shapiro Wilk Test Statistic	0.737
Shapiro Wilk Critical (0.05) Value	0.874
Approximate Shapiro Wilk P Value	5.2029E-4
Lilliefors Test Statistic	0.201
Lilliefors Critical (0.05) Value	0.237
Data appear Approximate Normal at (0.05) Significance Level	
Gamma GOF Test Results	
Correlation Coefficient R	0.937
A-D Test Statistic	0.561
A-D Critical (0.05) Value	0.742
K-S Test Statistic	0.177
K-S Critical(0.05) Value	0.23
Data appear Gamma Distributed at (0.05) Significance Level	
Lognormal GOF Test Results	
Correlation Coefficient R	0.967
Shapiro Wilk Test Statistic	0.944
Shapiro Wilk Critical (0.05) Value	0.874
Approximate Shapiro Wilk P Value	0.413
Lilliefors Test Statistic	0.146
Lilliefors Critical (0.05) Value	0.237
Data appear Lognormal at (0.05) Significance Level	

Wynn Resort Casino
Everett, Massachusetts

Total Extractable Petroleum Hydrocarbon: Water-Side Site	
Raw Statistics	
Number of Valid Observations	39
Number of Missing Observations	19
Number of Distinct Observations	39
Minimum	17.1
Maximum	4312
Mean of Raw Data	532.3
Standard Deviation of Raw Data	946.8
Khat	0.699
Theta hat	761.9
Kstar	0.662
Theta star	804.1
Mean of Log Transformed Data	5.412
Standard Deviation of Log Transformed Data	1.234
Normal GOF Test Results	
Correlation Coefficient R	0.719
Shapiro Wilk Test Statistic	0.534
Shapiro Wilk Critical (0.05) Value	0.939
Approximate Shapiro Wilk P Value	2.802E-13
Lilliefors Test Statistic	0.345
Lilliefors Critical (0.05) Value	0.142
Data not Normal at (0.05) Significance Level	
Gamma GOF Test Results	
Correlation Coefficient R	0.938
A-D Test Statistic	2.666
A-D Critical (0.05) Value	0.794
K-S Test Statistic	0.268
K-S Critical(0.05) Value	0.147
Data not Gamma Distributed at (0.05) Significance Level	
Lognormal GOF Test Results	
Correlation Coefficient R	0.975
Shapiro Wilk Test Statistic	0.95
Shapiro Wilk Critical (0.05) Value	0.939
Approximate Shapiro Wilk P Value	0.114
Lilliefors Test Statistic	0.175
Lilliefors Critical (0.05) Value	0.142
Data appear Approximate_Lognormal at (0.05) Significance Level	

Wynn Resort Casino
Everett, Massachusetts

Total Extractable Petroleum Hydrocarbon: Off-Site West	
Raw Statistics	
Number of Valid Observations	6
Number of Missing Observations	18
Number of Distinct Observations	6
Minimum	47.7
Maximum	678.1
Mean of Raw Data	334.1
Standard Deviation of Raw Data	263.1
Khat	1.515
Theta hat	220.6
Kstar	0.868
Theta star	384.7
Mean of Log Transformed Data	5.446
Standard Deviation of Log Transformed Data	1.033
Normal GOF Test Results	
Correlation Coefficient R	0.964
Shapiro Wilk Test Statistic	0.904
Shapiro Wilk Critical (0.05) Value	0.788
Approximate Shapiro Wilk P Value	N/A
Lilliefors Test Statistic	0.223
Lilliefors Critical (0.05) Value	0.362
Data appear Normal at (0.05) Significance Level	
Gamma GOF Test Results	
Correlation Coefficient R	0.938
A-D Test Statistic	0.269
A-D Critical (0.05) Value	0.708
K-S Test Statistic	0.191
K-S Critical(0.05) Value	0.337
Data appear Gamma Distributed at (0.05) Significance Level	
Lognormal GOF Test Results	
Correlation Coefficient R	0.973
Shapiro Wilk Test Statistic	0.933
Shapiro Wilk Critical (0.05) Value	0.788
Approximate Shapiro Wilk P Value	N/A
Lilliefors Test Statistic	0.182
Lilliefors Critical (0.05) Value	0.362
Data appear Lognormal at (0.05) Significance Level	

Bis(2-ethylhexyl) phthalate: Off-Site East						
Raw Statistics						
Number of Valid Observations	13					
Number of Missing Observations	1					
Number of Distinct Observations	13					
Minimum	0.33					
Maximum	1.51					
Mean of Raw Data	0.762					
Standard Deviation of Raw Data	0.305					
Khat	6.773					
Theta hat	0.112					
Kstar	5.261					
Theta star	0.145					
Mean of Log Transformed Data	-0.348					
Standard Deviation of Log Transformed Data	0.415					
Normal GOF Test Results						
Correlation Coefficient R	0.952					
Shapiro Wilk Test Statistic	0.919					
Shapiro Wilk Critical (0.05) Value	0.866					
Approximate Shapiro Wilk P Value	0.194					
Lilliefors Test Statistic	0.191					
Lilliefors Critical (0.05) Value	0.246					
Data appear Normal at (0.05) Significance Level						
Gamma GOF Test Results						
Correlation Coefficient R	0.967					
A-D Test Statistic	0.333					
A-D Critical (0.05) Value	0.735					
K-S Test Statistic	0.158					
K-S Critical(0.05) Value	0.237					
Data appear Gamma Distributed at (0.05) Significance Level						
Lognormal GOF Test Results						
Correlation Coefficient R	0.967					
Shapiro Wilk Test Statistic	0.941					
Shapiro Wilk Critical (0.05) Value	0.866					
Approximate Shapiro Wilk P Value	0.418					
Lilliefors Test Statistic	0.16					
Lilliefors Critical (0.05) Value	0.246					
Data appear Lognormal at (0.05) Significance Level						

Bis(2-ethylhexyl) phthalate: Local Conditions						
Raw Statistics						
Number of Valid Observations	14					
Number of Missing Observations	3					
Number of Distinct Observations	14					
Minimum	1.53					
Maximum	278					
Mean of Raw Data	24.01					
Standard Deviation of Raw Data	73.36					
Khat	0.382					
Theta hat	62.91					
Kstar	0.347					
Theta star	69.09					
Mean of Log Transformed Data	1.441					
Standard Deviation of Log Transformed Data	1.387					
Normal GOF Test Results						
Correlation Coefficient R	0.556					
Shapiro Wilk Test Statistic	0.34					
Shapiro Wilk Critical (0.05) Value	0.874					
Approximate Shapiro Wilk P Value	4.3199E-8					
Lilliefors Test Statistic	0.454					
Lilliefors Critical (0.05) Value	0.237					
Data not Normal at (0.05) Significance Level						
Gamma GOF Test Results						
Correlation Coefficient R	0.867					
A-D Test Statistic	3.339					
A-D Critical (0.05) Value	0.816					
K-S Test Statistic	0.413					
K-S Critical(0.05) Value	0.245					
Data not Gamma Distributed at (0.05) Significance Level						
Lognormal GOF Test Results						
Correlation Coefficient R	0.78					
Shapiro Wilk Test Statistic	0.631					
Shapiro Wilk Critical (0.05) Value	0.874					
Approximate Shapiro Wilk P Value	3.0542E-5					
Lilliefors Test Statistic	0.33					
Lilliefors Critical (0.05) Value	0.237					
Data not Lognormal at (0.05) Significance Level						

Bis(2-ethylhexyl) phthalate: Water-Side Site	
Raw Statistics	
Number of Valid Observations	31
Number of Missing Observations	27
Number of Distinct Observations	31
Minimum	0.307
Maximum	1870
Mean of Raw Data	92.16
Standard Deviation of Raw Data	345.3
Khat	0.23
Theta hat	401.5
Kstar	0.229
Theta star	402.8
Mean of Log Transformed Data	1.386
Standard Deviation of Log Transformed Data	2.127
Normal GOF Test Results	
Correlation Coefficient R	0.516
Shapiro Wilk Test Statistic	0.299
Shapiro Wilk Critical (0.05) Value	0.929
Approximate Shapiro Wilk P Value	7.483E-14
Lilliefors Test Statistic	0.432
Lilliefors Critical (0.05) Value	0.159
Data not Normal at (0.05) Significance Level	
Gamma GOF Test Results	
Correlation Coefficient R	0.896
A-D Test Statistic	5.224
A-D Critical (0.05) Value	0.89
K-S Test Statistic	0.371
K-S Critical(0.05) Value	0.174
Data not Gamma Distributed at (0.05) Significance Level	
Lognormal GOF Test Results	
Correlation Coefficient R	0.91
Shapiro Wilk Test Statistic	0.829
Shapiro Wilk Critical (0.05) Value	0.929
Approximate Shapiro Wilk P Value	1.0604E-4
Lilliefors Test Statistic	0.219
Lilliefors Critical (0.05) Value	0.159
Data not Lognormal at (0.05) Significance Level	

Bis(2-ethylhexyl) phthalate: Off-Site West	
Raw Statistics	
Number of Valid Observations	4
Number of Missing Observations	20
Number of Distinct Observations	4
Minimum	0.42
Maximum	6.37
Mean of Raw Data	3.853
Standard Deviation of Raw Data	2.793
Khat	1.37
Theta hat	2.812
Kstar	0.509
Theta star	7.565
Mean of Log Transformed Data	0.941
Standard Deviation of Log Transformed Data	1.264
Normal GOF Test Results	
Correlation Coefficient R	0.961
Shapiro Wilk Test Statistic	0.909
Shapiro Wilk Critical (0.05) Value	0.748
Approximate Shapiro Wilk P Value	N/A
Lilliefors Test Statistic	0.265
Lilliefors Critical (0.05) Value	0.443
Data appear Normal at (0.05) Significance Level	
Gamma GOF Test Results	
Correlation Coefficient R	0.815
A-D Test Statistic	0.423
A-D Critical (0.05) Value	0.663
K-S Test Statistic	0.291
K-S Critical(0.05) Value	0.4
Data appear Gamma Distributed at (0.05) Significance Level	
Lognormal GOF Test Results	
Correlation Coefficient R	0.912
Shapiro Wilk Test Statistic	0.831
Shapiro Wilk Critical (0.05) Value	0.748
Approximate Shapiro Wilk P Value	N/A
Lilliefors Test Statistic	0.272
Lilliefors Critical (0.05) Value	0.443
Data appear Lognormal at (0.05) Significance Level	

Wynn Resort Casino
Everett, Massachusetts

Arsenic: Off-Site East	
Raw Statistics	
Number of Valid Observations	14
Number of Distinct Observations	14
Minimum	6.04
Maximum	36.5
Mean of Raw Data	21.2
Standard Deviation of Raw Data	9.843
Khat	4.189
Theta hat	5.061
Kstar	3.339
Theta star	6.35
Mean of Log Transformed Data	2.93
Standard Deviation of Log Transformed Data	0.551
Normal GOF Test Results	
Correlation Coefficient R	0.984
Shapiro Wilk Test Statistic	0.951
Shapiro Wilk Critical (0.05) Value	0.874
Approximate Shapiro Wilk P Value	0.683
Lilliefors Test Statistic	0.14
Lilliefors Critical (0.05) Value	0.237
Data appear Normal at (0.05) Significance Level	
Gamma GOF Test Results	
Correlation Coefficient R	0.963
A-D Test Statistic	0.366
A-D Critical (0.05) Value	0.74
K-S Test Statistic	0.143
K-S Critical(0.05) Value	0.23
Data appear Gamma Distributed at (0.05) Significance Level	
Lognormal GOF Test Results	
Correlation Coefficient R	0.965
Shapiro Wilk Test Statistic	0.922
Shapiro Wilk Critical (0.05) Value	0.874
Approximate Shapiro Wilk P Value	0.274
Lilliefors Test Statistic	0.145
Lilliefors Critical (0.05) Value	0.237
Data appear Lognormal at (0.05) Significance Level	

Arsenic: Local Conditions	
Raw Statistics	
Number of Valid Observations	17
Number of Distinct Observations	17
Minimum	13.5
Maximum	35.5
Mean of Raw Data	21.54
Standard Deviation of Raw Data	6.597
Khat	12.45
Theta hat	1.73
Kstar	10.29
Theta star	2.093
Mean of Log Transformed Data	3.029
Standard Deviation of Log Transformed Data	0.289
Normal GOF Test Results	
Correlation Coefficient R	0.951
Shapiro Wilk Test Statistic	0.896
Shapiro Wilk Critical (0.05) Value	0.892
Approximate Shapiro Wilk P Value	0.0658
Lilliefors Test Statistic	0.171
Lilliefors Critical (0.05) Value	0.215
Data appear Normal at (0.05) Significance Level	
Gamma GOF Test Results	
Correlation Coefficient R	0.974
A-D Test Statistic	0.471
A-D Critical (0.05) Value	0.739
K-S Test Statistic	0.16
K-S Critical(0.05) Value	0.209
Data appear Gamma Distributed at (0.05) Significance Level	
Lognormal GOF Test Results	
Correlation Coefficient R	0.977
Shapiro Wilk Test Statistic	0.943
Shapiro Wilk Critical (0.05) Value	0.892
Approximate Shapiro Wilk P Value	0.406
Lilliefors Test Statistic	0.15
Lilliefors Critical (0.05) Value	0.215
Data appear Lognormal at (0.05) Significance Level	

Arsenic: Water-Side Site	
Raw Statistics	
Number of Valid Observations	58
Number of Distinct Observations	54
Minimum	8.17
Maximum	249
Mean of Raw Data	72.74
Standard Deviation of Raw Data	58.39
Khat	2.117
Theta hat	34.36
Kstar	2.019
Theta star	36.03
Mean of Log Transformed Data	4.033
Standard Deviation of Log Transformed Data	0.696
Normal GOF Test Results	
Correlation Coefficient R	0.877
Approximate Shapiro Wilk Test Statistic	0.764
Approximate Shapiro Wilk P Value	4.628E-12
Lilliefors Test Statistic	0.254
Lilliefors Critical (0.05) Value	0.116
Data not Normal at (0.05) Significance Level	
Gamma GOF Test Results	
Correlation Coefficient R	0.964
A-D Test Statistic	2.829
A-D Critical (0.05) Value	0.762
K-S Test Statistic	0.189
K-S Critical(0.05) Value	0.118
Data not Gamma Distributed at (0.05) Significance Level	
Lognormal GOF Test Results	
Correlation Coefficient R	0.962
Approximate Shapiro Wilk Test Statistic	0.926
Approximate Shapiro Wilk P Value	0.00179
Lilliefors Test Statistic	0.144
Lilliefors Critical (0.05) Value	0.116
Data not Lognormal at (0.05) Significance Level	

Wynn Resort Casino
Everett, Massachusetts

Arsenic: Off-Site West	
Raw Statistics	
Number of Valid Observations	24
Number of Distinct Observations	23
Minimum	4.2
Maximum	68.3
Mean of Raw Data	23.68
Standard Deviation of Raw Data	15.78
Khat	2.513
Theta hat	9.422
Kstar	2.226
Theta star	10.63
Mean of Log Transformed Data	2.952
Standard Deviation of Log Transformed Data	0.692
Normal GOF Test Results	
Correlation Coefficient R	0.938
Shapiro Wilk Test Statistic	0.883
Shapiro Wilk Critical (0.05) Value	0.916
Approximate Shapiro Wilk P Value	0.00861
Lilliefors Test Statistic	0.171
Lilliefors Critical (0.05) Value	0.181
Data appear Approximate Normal at (0.05) Significance Level	
Gamma GOF Test Results	
Correlation Coefficient R	0.987
A-D Test Statistic	0.218
A-D Critical (0.05) Value	0.753
K-S Test Statistic	0.102
K-S Critical(0.05) Value	0.18
Data appear Gamma Distributed at (0.05) Significance Level	
Lognormal GOF Test Results	
Correlation Coefficient R	0.989
Shapiro Wilk Test Statistic	0.976
Shapiro Wilk Critical (0.05) Value	0.916
Approximate Shapiro Wilk P Value	0.803
Lilliefors Test Statistic	0.087
Lilliefors Critical (0.05) Value	0.181
Data appear Lognormal at (0.05) Significance Level	

Wynn Resort Casino
Everett, Massachusetts

Barium: Off-Site East	
Raw Statistics	
Number of Valid Observations	14
Number of Distinct Observations	14
Minimum	12.5
Maximum	69.4
Mean of Raw Data	40.14
Standard Deviation of Raw Data	21.19
Khat	3.211
Theta hat	12.5
Kstar	2.571
Theta star	15.61
Mean of Log Transformed Data	3.529
Standard Deviation of Log Transformed Data	0.626
Normal GOF Test Results	
Correlation Coefficient R	0.932
Shapiro Wilk Test Statistic	0.845
Shapiro Wilk Critical (0.05) Value	0.874
Approximate Shapiro Wilk P Value	0.0271
Lilliefors Test Statistic	0.255
Lilliefors Critical (0.05) Value	0.237
Data not Normal at (0.05) Significance Level	
Gamma GOF Test Results	
Correlation Coefficient R	0.899
A-D Test Statistic	1.159
A-D Critical (0.05) Value	0.742
K-S Test Statistic	0.247
K-S Critical(0.05) Value	0.23
Data not Gamma Distributed at (0.05) Significance Level	
Lognormal GOF Test Results	
Correlation Coefficient R	0.922
Shapiro Wilk Test Statistic	0.83
Shapiro Wilk Critical (0.05) Value	0.874
Approximate Shapiro Wilk P Value	0.0159
Lilliefors Test Statistic	0.236
Lilliefors Critical (0.05) Value	0.237
Data appear Approximate_Lognormal at (0.05) Significance Level	

Wynn Resort Casino
Everett, Massachusetts

Barium: Local Conditions						
Raw Statistics						
Number of Valid Observations	17					
Number of Distinct Observations	17					
Minimum	47.8					
Maximum	201					
Mean of Raw Data	75.45					
Standard Deviation of Raw Data	34.86					
Khat	8.34					
Theta hat	9.047					
Kstar	6.907					
Theta star	10.92					
Mean of Log Transformed Data	4.262					
Standard Deviation of Log Transformed Data	0.321					
Normal GOF Test Results						
Correlation Coefficient R	0.74					
Shapiro Wilk Test Statistic	0.579					
Shapiro Wilk Critical (0.05) Value	0.892					
Approximate Shapiro Wilk P Value	1.2842E-6					
Lilliefors Test Statistic	0.297					
Lilliefors Critical (0.05) Value	0.215					
Data not Normal at (0.05) Significance Level						
Gamma GOF Test Results						
Correlation Coefficient R	0.817					
A-D Test Statistic	1.802					
A-D Critical (0.05) Value	0.74					
K-S Test Statistic	0.262					
K-S Critical(0.05) Value	0.209					
Data not Gamma Distributed at (0.05) Significance Level						
Lognormal GOF Test Results						
Correlation Coefficient R	0.857					
Shapiro Wilk Test Statistic	0.761					
Shapiro Wilk Critical (0.05) Value	0.892					
Approximate Shapiro Wilk P Value	3.1504E-4					
Lilliefors Test Statistic	0.237					
Lilliefors Critical (0.05) Value	0.215					
Data not Lognormal at (0.05) Significance Level						

Wynn Resort Casino
Everett, Massachusetts

Barium: Water-Side Site	
Raw Statistics	
Number of Valid Observations	58
Number of Distinct Observations	57
Minimum	14.1
Maximum	190
Mean of Raw Data	52.48
Standard Deviation of Raw Data	25.93
Khat	5.281
Theta hat	9.938
Kstar	5.02
Theta star	10.46
Mean of Log Transformed Data	3.863
Standard Deviation of Log Transformed Data	0.443
Normal GOF Test Results	
Correlation Coefficient R	0.884
Approximate Shapiro Wilk Test Statistic	0.818
Approximate Shapiro Wilk P Value	2.1612E-9
Lilliefors Test Statistic	0.113
Lilliefors Critical (0.05) Value	0.116
Data appear Approximate Normal at (0.05) Significance Level	
Gamma GOF Test Results	
Correlation Coefficient R	0.928
A-D Test Statistic	0.418
A-D Critical (0.05) Value	0.753
K-S Test Statistic	0.0821
K-S Critical(0.05) Value	0.117
Data appear Gamma Distributed at (0.05) Significance Level	
Lognormal GOF Test Results	
Correlation Coefficient R	0.983
Approximate Shapiro Wilk Test Statistic	0.982
Approximate Shapiro Wilk P Value	0.75
Lilliefors Test Statistic	0.0928
Lilliefors Critical (0.05) Value	0.116
Data appear Lognormal at (0.05) Significance Level	

Barium: Off-Site West	
Raw Statistics	
Number of Valid Observations	24
Number of Distinct Observations	24
Minimum	13.3
Maximum	64.9
Mean of Raw Data	32.85
Standard Deviation of Raw Data	15.08
Khat	4.886
Theta hat	6.722
Kstar	4.303
Theta star	7.633
Mean of Log Transformed Data	3.386
Standard Deviation of Log Transformed Data	0.479
Normal GOF Test Results	
Correlation Coefficient R	0.976
Shapiro Wilk Test Statistic	0.939
Shapiro Wilk Critical (0.05) Value	0.916
Approximate Shapiro Wilk P Value	0.164
Lilliefors Test Statistic	0.111
Lilliefors Critical (0.05) Value	0.181
Data appear Normal at (0.05) Significance Level	
Gamma GOF Test Results	
Correlation Coefficient R	0.988
A-D Test Statistic	0.287
A-D Critical (0.05) Value	0.746
K-S Test Statistic	0.1
K-S Critical(0.05) Value	0.178
Data appear Gamma Distributed at (0.05) Significance Level	
Lognormal GOF Test Results	
Correlation Coefficient R	0.986
Shapiro Wilk Test Statistic	0.956
Shapiro Wilk Critical (0.05) Value	0.916
Approximate Shapiro Wilk P Value	0.378
Lilliefors Test Statistic	0.0934
Lilliefors Critical (0.05) Value	0.181
Data appear Lognormal at (0.05) Significance Level	

Wynn Resort Casino
Everett, Massachusetts

Beryllium: Off-Site East	
Raw Statistics	
Number of Valid Observations	14
Number of Distinct Observations	12
Minimum	0.17
Maximum	0.71
Mean of Raw Data	0.444
Standard Deviation of Raw Data	0.196
Khat	4.638
Theta hat	0.0956
Kstar	3.692
Theta star	0.12
Mean of Log Transformed Data	-0.925
Standard Deviation of Log Transformed Data	0.517
Normal GOF Test Results	
Correlation Coefficient R	0.956
Shapiro Wilk Test Statistic	0.89
Shapiro Wilk Critical (0.05) Value	0.874
Approximate Shapiro Wilk P Value	0.12
Lilliefors Test Statistic	0.196
Lilliefors Critical (0.05) Value	0.237
Data appear Normal at (0.05) Significance Level	
Gamma GOF Test Results	
Correlation Coefficient R	0.924
A-D Test Statistic	0.758
A-D Critical (0.05) Value	0.739
K-S Test Statistic	0.223
K-S Critical(0.05) Value	0.229
Data appear Gamma Distributed at (0.05) Significance Level	
Lognormal GOF Test Results	
Correlation Coefficient R	0.944
Shapiro Wilk Test Statistic	0.869
Shapiro Wilk Critical (0.05) Value	0.874
Approximate Shapiro Wilk P Value	0.0582
Lilliefors Test Statistic	0.225
Lilliefors Critical (0.05) Value	0.237
Data appear Approximate_Lognormal at (0.05) Significance Level	

Beryllium: Local Conditions	
Raw Statistics	
Number of Valid Observations	17
Number of Distinct Observations	15
Minimum	0.41
Maximum	0.87
Mean of Raw Data	0.581
Standard Deviation of Raw Data	0.105
Khat	34.44
Theta hat	0.0169
Kstar	28.4
Theta star	0.0205
Mean of Log Transformed Data	-0.557
Standard Deviation of Log Transformed Data	0.175
Normal GOF Test Results	
Correlation Coefficient R	0.942
Shapiro Wilk Test Statistic	0.907
Shapiro Wilk Critical (0.05) Value	0.892
Approximate Shapiro Wilk P Value	0.0719
Lilliefors Test Statistic	0.172
Lilliefors Critical (0.05) Value	0.215
Data appear Normal at (0.05) Significance Level	
Gamma GOF Test Results	
Correlation Coefficient R	0.955
A-D Test Statistic	0.524
A-D Critical (0.05) Value	0.737
K-S Test Statistic	0.148
K-S Critical(0.05) Value	0.209
Data appear Gamma Distributed at (0.05) Significance Level	
Lognormal GOF Test Results	
Correlation Coefficient R	0.96
Shapiro Wilk Test Statistic	0.937
Shapiro Wilk Critical (0.05) Value	0.892
Approximate Shapiro Wilk P Value	0.241
Lilliefors Test Statistic	0.152
Lilliefors Critical (0.05) Value	0.215
Data appear Lognormal at (0.05) Significance Level	

Wynn Resort Casino
Everett, Massachusetts

Beryllium: Water-Side Site	
Raw Statistics	
Number of Valid Observations	56
Number of Missing Observations	2
Number of Distinct Observations	37
Minimum	0.13
Maximum	1.5
Mean of Raw Data	0.505
Standard Deviation of Raw Data	0.225
Khat	5.555
Theta hat	0.0909
Kstar	5.269
Theta star	0.0958
Mean of Log Transformed Data	-0.777
Standard Deviation of Log Transformed Data	0.442
Normal GOF Test Results	
Correlation Coefficient R	0.94
Approximate Shapiro Wilk Test Statistic	0.906
Approximate Shapiro Wilk P Value	1.8093E-4
Lilliefors Test Statistic	0.0756
Lilliefors Critical (0.05) Value	0.118
Data appear Approximate Normal at (0.05) Significance Level	
Gamma GOF Test Results	
Correlation Coefficient R	0.967
A-D Test Statistic	0.328
A-D Critical (0.05) Value	0.753
K-S Test Statistic	0.07
K-S Critical(0.05) Value	0.119
Data appear Gamma Distributed at (0.05) Significance Level	
Lognormal GOF Test Results	
Correlation Coefficient R	0.986
Approximate Shapiro Wilk Test Statistic	0.982
Approximate Shapiro Wilk P Value	0.762
Lilliefors Test Statistic	0.0909
Lilliefors Critical (0.05) Value	0.118
Data appear Lognormal at (0.05) Significance Level	

Wynn Resort Casino
Everett, Massachusetts

Beryllium: Off-Site West	
Raw Statistics	
Number of Valid Observations	24
Number of Distinct Observations	19
Minimum	0.15
Maximum	0.73
Mean of Raw Data	0.309
Standard Deviation of Raw Data	0.148
Khat	5.653
Theta hat	0.0546
Kstar	4.974
Theta star	0.0621
Mean of Log Transformed Data	-1.266
Standard Deviation of Log Transformed Data	0.419
Normal GOF Test Results	
Correlation Coefficient R	0.913
Shapiro Wilk Test Statistic	0.835
Shapiro Wilk Critical (0.05) Value	0.916
Approximate Shapiro Wilk P Value	8.4450E-4
Lilliefors Test Statistic	0.167
Lilliefors Critical (0.05) Value	0.181
Data appear Approximate Normal at (0.05) Significance Level	
Gamma GOF Test Results	
Correlation Coefficient R	0.967
A-D Test Statistic	0.691
A-D Critical (0.05) Value	0.746
K-S Test Statistic	0.118
K-S Critical(0.05) Value	0.178
Data appear Gamma Distributed at (0.05) Significance Level	
Lognormal GOF Test Results	
Correlation Coefficient R	0.974
Shapiro Wilk Test Statistic	0.942
Shapiro Wilk Critical (0.05) Value	0.916
Approximate Shapiro Wilk P Value	0.192
Lilliefors Test Statistic	0.101
Lilliefors Critical (0.05) Value	0.181
Data appear Lognormal at (0.05) Significance Level	

Cadmium: Off-Site East	
Raw Statistics	
Number of Valid Observations	9
Number of Missing Observations	5
Number of Distinct Observations	8
Minimum	0.64
Maximum	1.54
Mean of Raw Data	1.009
Standard Deviation of Raw Data	0.274
Khat	15.33
Theta hat	0.0658
Kstar	10.29
Theta star	0.098
Mean of Log Transformed Data	-0.0241
Standard Deviation of Log Transformed Data	0.274
Normal GOF Test Results	
Correlation Coefficient R	0.951
Shapiro Wilk Test Statistic	0.913
Shapiro Wilk Critical (0.05) Value	0.829
Approximate Shapiro Wilk P Value	0.287
Lilliefors Test Statistic	0.205
Lilliefors Critical (0.05) Value	0.295
Data appear Normal at (0.05) Significance Level	
Gamma GOF Test Results	
Correlation Coefficient R	0.958
A-D Test Statistic	0.466
A-D Critical (0.05) Value	0.721
K-S Test Statistic	0.218
K-S Critical(0.05) Value	0.279
Data appear Gamma Distributed at (0.05) Significance Level	
Lognormal GOF Test Results	
Correlation Coefficient R	0.958
Shapiro Wilk Test Statistic	0.922
Shapiro Wilk Critical (0.05) Value	0.829
Approximate Shapiro Wilk P Value	0.383
Lilliefors Test Statistic	0.23
Lilliefors Critical (0.05) Value	0.295
Data appear Lognormal at (0.05) Significance Level	

Cadmium: Local Conditions	
Raw Statistics	
Number of Valid Observations	17
Number of Distinct Observations	16
Minimum	0.85
Maximum	8.51
Mean of Raw Data	2.105
Standard Deviation of Raw Data	1.958
Khat	2.251
Theta hat	0.935
Kstar	1.893
Theta star	1.112
Mean of Log Transformed Data	0.506
Standard Deviation of Log Transformed Data	0.627
Normal GOF Test Results	
Correlation Coefficient R	0.778
Shapiro Wilk Test Statistic	0.625
Shapiro Wilk Critical (0.05) Value	0.892
Approximate Shapiro Wilk P Value	5.0704E-6
Lilliefors Test Statistic	0.329
Lilliefors Critical (0.05) Value	0.215
Data not Normal at (0.05) Significance Level	
Gamma GOF Test Results	
Correlation Coefficient R	0.914
A-D Test Statistic	1.662
A-D Critical (0.05) Value	0.748
K-S Test Statistic	0.281
K-S Critical(0.05) Value	0.211
Data not Gamma Distributed at (0.05) Significance Level	
Lognormal GOF Test Results	
Correlation Coefficient R	0.907
Shapiro Wilk Test Statistic	0.827
Shapiro Wilk Critical (0.05) Value	0.892
Approximate Shapiro Wilk P Value	0.004
Lilliefors Test Statistic	0.241
Lilliefors Critical (0.05) Value	0.215
Data not Lognormal at (0.05) Significance Level	

Wynn Resort Casino
Everett, Massachusetts

Cadmium: Water-Side Site	
Raw Statistics	
Number of Valid Observations	48
Number of Missing Observations	10
Number of Distinct Observations	46
Minimum	0.41
Maximum	8.98
Mean of Raw Data	1.529
Standard Deviation of Raw Data	1.324
Khat	2.409
Theta hat	0.635
Kstar	2.273
Theta star	0.673
Mean of Log Transformed Data	0.203
Standard Deviation of Log Transformed Data	0.642
Normal GOF Test Results	
Correlation Coefficient R	0.782
Shapiro Wilk Test Statistic	0.65
Shapiro Wilk Critical (0.05) Value	0.947
Approximate Shapiro Wilk P Value	1.369E-13
Lilliefors Test Statistic	0.199
Lilliefors Critical (0.05) Value	0.128
Data not Normal at (0.05) Significance Level	
Gamma GOF Test Results	
Correlation Coefficient R	0.881
A-D Test Statistic	0.687
A-D Critical (0.05) Value	0.76
K-S Test Statistic	0.0922
K-S Critical(0.05) Value	0.129
Data appear Gamma Distributed at (0.05) Significance Level	
Lognormal GOF Test Results	
Correlation Coefficient R	0.981
Shapiro Wilk Test Statistic	0.963
Shapiro Wilk Critical (0.05) Value	0.947
Approximate Shapiro Wilk P Value	0.228
Lilliefors Test Statistic	0.075
Lilliefors Critical (0.05) Value	0.128
Data appear Lognormal at (0.05) Significance Level	

Wynn Resort Casino
Everett, Massachusetts

Cadmium: Off-Site West	
Raw Statistics	
Number of Valid Observations	16
Number of Missing Observations	8
Number of Distinct Observations	16
Minimum	0.3
Maximum	3.38
Mean of Raw Data	1.062
Standard Deviation of Raw Data	0.826
Khat	2.268
Theta hat	0.468
Kstar	1.885
Theta star	0.563
Mean of Log Transformed Data	-0.176
Standard Deviation of Log Transformed Data	0.697
Normal GOF Test Results	
Correlation Coefficient R	0.895
Shapiro Wilk Test Statistic	0.81
Shapiro Wilk Critical (0.05) Value	0.887
Approximate Shapiro Wilk P Value	0.00295
Lilliefors Test Statistic	0.232
Lilliefors Critical (0.05) Value	0.222
Data not Normal at (0.05) Significance Level	
Gamma GOF Test Results	
Correlation Coefficient R	0.978
A-D Test Statistic	0.339
A-D Critical (0.05) Value	0.749
K-S Test Statistic	0.151
K-S Critical(0.05) Value	0.218
Data appear Gamma Distributed at (0.05) Significance Level	
Lognormal GOF Test Results	
Correlation Coefficient R	0.987
Shapiro Wilk Test Statistic	0.967
Shapiro Wilk Critical (0.05) Value	0.887
Approximate Shapiro Wilk P Value	0.813
Lilliefors Test Statistic	0.105
Lilliefors Critical (0.05) Value	0.222
Data appear Lognormal at (0.05) Significance Level	

Wynn Resort Casino
Everett, Massachusetts

Chromium: Off-Site East	
Raw Statistics	
Number of Valid Observations	14
Number of Distinct Observations	13
Minimum	11.9
Maximum	88.6
Mean of Raw Data	48.66
Standard Deviation of Raw Data	30.58
Khat	2.09
Theta hat	23.28
Kstar	1.69
Theta star	28.79
Mean of Log Transformed Data	3.627
Standard Deviation of Log Transformed Data	0.803
Normal GOF Test Results	
Correlation Coefficient R	0.924
Shapiro Wilk Test Statistic	0.826
Shapiro Wilk Critical (0.05) Value	0.874
Approximate Shapiro Wilk P Value	0.0155
Lilliefors Test Statistic	0.254
Lilliefors Critical (0.05) Value	0.237
Data not Normal at (0.05) Significance Level	
Gamma GOF Test Results	
Correlation Coefficient R	0.879
A-D Test Statistic	1.303
A-D Critical (0.05) Value	0.746
K-S Test Statistic	0.272
K-S Critical(0.05) Value	0.232
Data not Gamma Distributed at (0.05) Significance Level	
Lognormal GOF Test Results	
Correlation Coefficient R	0.908
Shapiro Wilk Test Statistic	0.799
Shapiro Wilk Critical (0.05) Value	0.874
Approximate Shapiro Wilk P Value	0.00643
Lilliefors Test Statistic	0.287
Lilliefors Critical (0.05) Value	0.237
Data not Lognormal at (0.05) Significance Level	

Chromium: Local Conditions						
Raw Statistics						
Number of Valid Observations	17					
Number of Distinct Observations	16					
Minimum	55.8					
Maximum	170					
Mean of Raw Data	85.15					
Standard Deviation of Raw Data	26.5					
Khat	14.78					
Theta hat	5.761					
Kstar	12.21					
Theta star	6.973					
Mean of Log Transformed Data	4.41					
Standard Deviation of Log Transformed Data	0.253					
Normal GOF Test Results						
Correlation Coefficient R	0.818					
Shapiro Wilk Test Statistic	0.695					
Shapiro Wilk Critical (0.05) Value	0.892					
Approximate Shapiro Wilk P Value	3.7902E-5					
Lilliefors Test Statistic	0.315					
Lilliefors Critical (0.05) Value	0.215					
Data not Normal at (0.05) Significance Level						
Gamma GOF Test Results						
Correlation Coefficient R	0.868					
A-D Test Statistic	1.584					
A-D Critical (0.05) Value	0.738					
K-S Test Statistic	0.279					
K-S Critical(0.05) Value	0.209					
Data not Gamma Distributed at (0.05) Significance Level						
Lognormal GOF Test Results						
Correlation Coefficient R	0.889					
Shapiro Wilk Test Statistic	0.815					
Shapiro Wilk Critical (0.05) Value	0.892					
Approximate Shapiro Wilk P Value	0.00207					
Lilliefors Test Statistic	0.26					
Lilliefors Critical (0.05) Value	0.215					
Data not Lognormal at (0.05) Significance Level						

Wynn Resort Casino
Everett, Massachusetts

Chromium: Water-Side Site	
Raw Statistics	
Number of Valid Observations	58
Number of Distinct Observations	58
Minimum	14.7
Maximum	169
Mean of Raw Data	57.42
Standard Deviation of Raw Data	28.69
Khat	3.981
Theta hat	14.42
Kstar	3.787
Theta star	15.16
Mean of Log Transformed Data	3.92
Standard Deviation of Log Transformed Data	0.539
Normal GOF Test Results	
Correlation Coefficient R	0.957
Approximate Shapiro Wilk Test Statistic	0.925
Approximate Shapiro Wilk P Value	0.00152
Lilliefors Test Statistic	0.0902
Lilliefors Critical (0.05) Value	0.116
Data appear Approximate Normal at (0.05) Significance Level	
Gamma GOF Test Results	
Correlation Coefficient R	0.972
A-D Test Statistic	0.549
A-D Critical (0.05) Value	0.754
K-S Test Statistic	0.0999
K-S Critical(0.05) Value	0.117
Data appear Gamma Distributed at (0.05) Significance Level	
Lognormal GOF Test Results	
Correlation Coefficient R	0.98
Approximate Shapiro Wilk Test Statistic	0.952
Approximate Shapiro Wilk P Value	0.0474
Lilliefors Test Statistic	0.101
Lilliefors Critical (0.05) Value	0.116
Data appear Approximate_Lognormal at (0.05) Significance Level	

Wynn Resort Casino
Everett, Massachusetts

Chromium: Off-Site West	
Raw Statistics	
Number of Valid Observations	24
Number of Distinct Observations	23
Minimum	12
Maximum	86.6
Mean of Raw Data	29.8
Standard Deviation of Raw Data	21.41
Khat	2.837
Theta hat	10.5
Kstar	2.51
Theta star	11.87
Mean of Log Transformed Data	3.208
Standard Deviation of Log Transformed Data	0.586
Normal GOF Test Results	
Correlation Coefficient R	0.868
Shapiro Wilk Test Statistic	0.752
Shapiro Wilk Critical (0.05) Value	0.916
Approximate Shapiro Wilk P Value	2.2607E-5
Lilliefors Test Statistic	0.212
Lilliefors Critical (0.05) Value	0.181
Data not Normal at (0.05) Significance Level	
Gamma GOF Test Results	
Correlation Coefficient R	0.954
A-D Test Statistic	1.267
A-D Critical (0.05) Value	0.752
K-S Test Statistic	0.189
K-S Critical(0.05) Value	0.179
Data not Gamma Distributed at (0.05) Significance Level	
Lognormal GOF Test Results	
Correlation Coefficient R	0.953
Shapiro Wilk Test Statistic	0.897
Shapiro Wilk Critical (0.05) Value	0.916
Approximate Shapiro Wilk P Value	0.0174
Lilliefors Test Statistic	0.17
Lilliefors Critical (0.05) Value	0.181
Data appear Approximate_Lognormal at (0.05) Significance Level	

Wynn Resort Casino
Everett, Massachusetts

Lead: Off-Site East	
Raw Statistics	
Number of Valid Observations	14
Number of Distinct Observations	14
Minimum	33.1
Maximum	237
Mean of Raw Data	141.1
Standard Deviation of Raw Data	69.13
Khat	3.531
Theta hat	39.96
Kstar	2.822
Theta star	50
Mean of Log Transformed Data	4.801
Standard Deviation of Log Transformed Data	0.612
Normal GOF Test Results	
Correlation Coefficient R	0.968
Shapiro Wilk Test Statistic	0.917
Shapiro Wilk Critical (0.05) Value	0.874
Approximate Shapiro Wilk P Value	0.27
Lilliefors Test Statistic	0.18
Lilliefors Critical (0.05) Value	0.237
Data appear Normal at (0.05) Significance Level	
Gamma GOF Test Results	
Correlation Coefficient R	0.927
A-D Test Statistic	0.579
A-D Critical (0.05) Value	0.741
K-S Test Statistic	0.192
K-S Critical(0.05) Value	0.23
Data appear Gamma Distributed at (0.05) Significance Level	
Lognormal GOF Test Results	
Correlation Coefficient R	0.95
Shapiro Wilk Test Statistic	0.893
Shapiro Wilk Critical (0.05) Value	0.874
Approximate Shapiro Wilk P Value	0.107
Lilliefors Test Statistic	0.191
Lilliefors Critical (0.05) Value	0.237
Data appear Lognormal at (0.05) Significance Level	

Wynn Resort Casino
Everett, Massachusetts

Lead: Local Conditions	
Raw Statistics	
Number of Valid Observations	17
Number of Distinct Observations	16
Minimum	161
Maximum	770
Mean of Raw Data	268.8
Standard Deviation of Raw Data	151.9
Khat	5.29
Theta hat	50.81
Kstar	4.396
Theta star	61.14
Mean of Log Transformed Data	5.496
Standard Deviation of Log Transformed Data	0.411
Normal GOF Test Results	
Correlation Coefficient R	0.788
Shapiro Wilk Test Statistic	0.641
Shapiro Wilk Critical (0.05) Value	0.892
Approximate Shapiro Wilk P Value	8.1279E-6
Lilliefors Test Statistic	0.332
Lilliefors Critical (0.05) Value	0.215
Data not Normal at (0.05) Significance Level	
Gamma GOF Test Results	
Correlation Coefficient R	0.879
A-D Test Statistic	1.862
A-D Critical (0.05) Value	0.741
K-S Test Statistic	0.323
K-S Critical(0.05) Value	0.21
Data not Gamma Distributed at (0.05) Significance Level	
Lognormal GOF Test Results	
Correlation Coefficient R	0.876
Shapiro Wilk Test Statistic	0.778
Shapiro Wilk Critical (0.05) Value	0.892
Approximate Shapiro Wilk P Value	6.7032E-4
Lilliefors Test Statistic	0.305
Lilliefors Critical (0.05) Value	0.215
Data not Lognormal at (0.05) Significance Level	

Wynn Resort Casino
Everett, Massachusetts

Lead: Water-Side Site	
Raw Statistics	
Number of Valid Observations	58
Number of Distinct Observations	56
Minimum	42.7
Maximum	1210
Mean of Raw Data	338
Standard Deviation of Raw Data	260.5
Khat	2.306
Theta hat	146.6
Kstar	2.198
Theta star	153.8
Mean of Log Transformed Data	5.591
Standard Deviation of Log Transformed Data	0.681
Normal GOF Test Results	
Correlation Coefficient R	0.873
Approximate Shapiro Wilk Test Statistic	0.764
Approximate Shapiro Wilk P Value	4.279E-12
Lilliefors Test Statistic	0.283
Lilliefors Critical (0.05) Value	0.116
Data not Normal at (0.05) Significance Level	
Gamma GOF Test Results	
Correlation Coefficient R	0.961
A-D Test Statistic	2.12
A-D Critical (0.05) Value	0.761
K-S Test Statistic	0.212
K-S Critical(0.05) Value	0.118
Data not Gamma Distributed at (0.05) Significance Level	
Lognormal GOF Test Results	
Correlation Coefficient R	0.975
Approximate Shapiro Wilk Test Statistic	0.95
Approximate Shapiro Wilk P Value	0.0352
Lilliefors Test Statistic	0.165
Lilliefors Critical (0.05) Value	0.116
Data not Lognormal at (0.05) Significance Level	

Wynn Resort Casino
Everett, Massachusetts

Lead: Off-Site West	
Raw Statistics	
Number of Valid Observations	24
Number of Distinct Observations	23
Minimum	9.2
Maximum	298
Mean of Raw Data	124.3
Standard Deviation of Raw Data	69.29
Khat	2.613
Theta hat	47.58
Kstar	2.315
Theta star	53.72
Mean of Log Transformed Data	4.62
Standard Deviation of Log Transformed Data	0.754
Normal GOF Test Results	
Correlation Coefficient R	0.984
Shapiro Wilk Test Statistic	0.969
Shapiro Wilk Critical (0.05) Value	0.916
Approximate Shapiro Wilk P Value	0.653
Lilliefors Test Statistic	0.119
Lilliefors Critical (0.05) Value	0.181
Data appear Normal at (0.05) Significance Level	
Gamma GOF Test Results	
Correlation Coefficient R	0.99
A-D Test Statistic	0.309
A-D Critical (0.05) Value	0.753
K-S Test Statistic	0.133
K-S Critical(0.05) Value	0.18
Data appear Gamma Distributed at (0.05) Significance Level	
Lognormal GOF Test Results	
Correlation Coefficient R	0.936
Shapiro Wilk Test Statistic	0.89
Shapiro Wilk Critical (0.05) Value	0.916
Approximate Shapiro Wilk P Value	0.0123
Lilliefors Test Statistic	0.182
Lilliefors Critical (0.05) Value	0.181
Data not Lognormal at (0.05) Significance Level	

Mercury: Off-Site East	
Raw Statistics	
Number of Valid Observations	14
Number of Distinct Observations	14
Minimum	0.103
Maximum	0.728
Mean of Raw Data	0.343
Standard Deviation of Raw Data	0.218
Khat	2.816
Theta hat	0.122
Kstar	2.26
Theta star	0.152
Mean of Log Transformed Data	-1.257
Standard Deviation of Log Transformed Data	0.642
Normal GOF Test Results	
Correlation Coefficient R	0.938
Shapiro Wilk Test Statistic	0.862
Shapiro Wilk Critical (0.05) Value	0.874
Approximate Shapiro Wilk P Value	0.0426
Lilliefors Test Statistic	0.222
Lilliefors Critical (0.05) Value	0.237
Data appear Approximate Normal at (0.05) Significance Level	
Gamma GOF Test Results	
Correlation Coefficient R	0.962
A-D Test Statistic	0.445
A-D Critical (0.05) Value	0.743
K-S Test Statistic	0.169
K-S Critical(0.05) Value	0.231
Data appear Gamma Distributed at (0.05) Significance Level	
Lognormal GOF Test Results	
Correlation Coefficient R	0.98
Shapiro Wilk Test Statistic	0.942
Shapiro Wilk Critical (0.05) Value	0.874
Approximate Shapiro Wilk P Value	0.544
Lilliefors Test Statistic	0.13
Lilliefors Critical (0.05) Value	0.237
Data appear Lognormal at (0.05) Significance Level	

Mercury: Local Conditions	
Raw Statistics	
Number of Valid Observations	17
Number of Distinct Observations	17
Minimum	0.095
Maximum	1.08
Mean of Raw Data	0.408
Standard Deviation of Raw Data	0.31
Khat	1.99
Theta hat	0.205
Kstar	1.678
Theta star	0.243
Mean of Log Transformed Data	-1.169
Standard Deviation of Log Transformed Data	0.763
Normal GOF Test Results	
Correlation Coefficient R	0.926
Shapiro Wilk Test Statistic	0.847
Shapiro Wilk Critical (0.05) Value	0.892
Approximate Shapiro Wilk P Value	0.0102
Lilliefors Test Statistic	0.217
Lilliefors Critical (0.05) Value	0.215
Data not Normal at (0.05) Significance Level	
Gamma GOF Test Results	
Correlation Coefficient R	0.972
A-D Test Statistic	0.643
A-D Critical (0.05) Value	0.75
K-S Test Statistic	0.174
K-S Critical(0.05) Value	0.212
Data appear Gamma Distributed at (0.05) Significance Level	
Lognormal GOF Test Results	
Correlation Coefficient R	0.975
Shapiro Wilk Test Statistic	0.935
Shapiro Wilk Critical (0.05) Value	0.892
Approximate Shapiro Wilk P Value	0.327
Lilliefors Test Statistic	0.143
Lilliefors Critical (0.05) Value	0.215
Data appear Lognormal at (0.05) Significance Level	

Wynn Resort Casino
Everett, Massachusetts

Mercury: Water-Side Site	
Raw Statistics	
Number of Valid Observations	58
Number of Distinct Observations	54
Minimum	0.221
Maximum	11.9
Mean of Raw Data	1.652
Standard Deviation of Raw Data	2.227
Khat	1.266
Theta hat	1.304
Kstar	1.212
Theta star	1.362
Mean of Log Transformed Data	0.0578
Standard Deviation of Log Transformed Data	0.847
Normal GOF Test Results	
Correlation Coefficient R	0.734
Approximate Shapiro Wilk Test Statistic	0.558
Approximate Shapiro Wilk P Value	0
Lilliefors Test Statistic	0.321
Lilliefors Critical (0.05) Value	0.116
Data not Normal at (0.05) Significance Level	
Gamma GOF Test Results	
Correlation Coefficient R	0.91
A-D Test Statistic	3.589
A-D Critical (0.05) Value	0.774
K-S Test Statistic	0.221
K-S Critical(0.05) Value	0.12
Data not Gamma Distributed at (0.05) Significance Level	
Lognormal GOF Test Results	
Correlation Coefficient R	0.967
Approximate Shapiro Wilk Test Statistic	0.931
Approximate Shapiro Wilk P Value	0.0033
Lilliefors Test Statistic	0.148
Lilliefors Critical (0.05) Value	0.116
Data not Lognormal at (0.05) Significance Level	

Mercury: Off-Site West						
Raw Statistics						
Number of Valid Observations	22					
Number of Missing Observations	2					
Number of Distinct Observations	22					
Minimum	0.099					
Maximum	1.1					
Mean of Raw Data	0.541					
Standard Deviation of Raw Data	0.32					
Khat	2.658					
Theta hat	0.204					
Kstar	2.325					
Theta star	0.233					
Mean of Log Transformed Data	-0.813					
Standard Deviation of Log Transformed Data	0.683					
Normal GOF Test Results						
Correlation Coefficient R	0.959					
Shapiro Wilk Test Statistic	0.904					
Shapiro Wilk Critical (0.05) Value	0.911					
Approximate Shapiro Wilk P Value	0.0335					
Lilliefors Test Statistic	0.187					
Lilliefors Critical (0.05) Value	0.189					
Data appear Approximate Normal at (0.05) Significance Level						
Gamma GOF Test Results						
Correlation Coefficient R	0.951					
A-D Test Statistic	0.731					
A-D Critical (0.05) Value	0.752					
K-S Test Statistic	0.171					
K-S Critical(0.05) Value	0.187					
Data appear Gamma Distributed at (0.05) Significance Level						
Lognormal GOF Test Results						
Correlation Coefficient R	0.965					
Shapiro Wilk Test Statistic	0.923					
Shapiro Wilk Critical (0.05) Value	0.911					
Approximate Shapiro Wilk P Value	0.0867					
Lilliefors Test Statistic	0.176					
Lilliefors Critical (0.05) Value	0.189					
Data appear Lognormal at (0.05) Significance Level						

Wynn Resort Casino
Everett, Massachusetts

Nickel: Off-Site East	
Raw Statistics	
Number of Valid Observations	14
Number of Distinct Observations	14
Minimum	6.28
Maximum	30.4
Mean of Raw Data	16.36
Standard Deviation of Raw Data	8.383
Khat	3.693
Theta hat	4.431
Kstar	2.949
Theta star	5.548
Mean of Log Transformed Data	2.654
Standard Deviation of Log Transformed Data	0.571
Normal GOF Test Results	
Correlation Coefficient R	0.95
Shapiro Wilk Test Statistic	0.883
Shapiro Wilk Critical (0.05) Value	0.874
Approximate Shapiro Wilk P Value	0.0898
Lilliefors Test Statistic	0.248
Lilliefors Critical (0.05) Value	0.237
Data appear Approximate Normal at (0.05) Significance Level	
Gamma GOF Test Results	
Correlation Coefficient R	0.945
A-D Test Statistic	0.898
A-D Critical (0.05) Value	0.741
K-S Test Statistic	0.248
K-S Critical(0.05) Value	0.23
Data not Gamma Distributed at (0.05) Significance Level	
Lognormal GOF Test Results	
Correlation Coefficient R	0.939
Shapiro Wilk Test Statistic	0.86
Shapiro Wilk Critical (0.05) Value	0.874
Approximate Shapiro Wilk P Value	0.0434
Lilliefors Test Statistic	0.233
Lilliefors Critical (0.05) Value	0.237
Data appear Approximate_Lognormal at (0.05) Significance Level	

Wynn Resort Casino
Everett, Massachusetts

Nickel: Local Conditions	
Raw Statistics	
Number of Valid Observations	17
Number of Distinct Observations	15
Minimum	16
Maximum	67.4
Mean of Raw Data	28.72
Standard Deviation of Raw Data	11.72
Khat	9.019
Theta hat	3.184
Kstar	7.467
Theta star	3.846
Mean of Log Transformed Data	3.301
Standard Deviation of Log Transformed Data	0.324
Normal GOF Test Results	
Correlation Coefficient R	0.823
Shapiro Wilk Test Statistic	0.704
Shapiro Wilk Critical (0.05) Value	0.892
Approximate Shapiro Wilk P Value	4.9285E-5
Lilliefors Test Statistic	0.322
Lilliefors Critical (0.05) Value	0.215
Data not Normal at (0.05) Significance Level	
Gamma GOF Test Results	
Correlation Coefficient R	0.881
A-D Test Statistic	1.225
A-D Critical (0.05) Value	0.739
K-S Test Statistic	0.267
K-S Critical(0.05) Value	0.209
Data not Gamma Distributed at (0.05) Significance Level	
Lognormal GOF Test Results	
Correlation Coefficient R	0.917
Shapiro Wilk Test Statistic	0.864
Shapiro Wilk Critical (0.05) Value	0.892
Approximate Shapiro Wilk P Value	0.0131
Lilliefors Test Statistic	0.242
Lilliefors Critical (0.05) Value	0.215
Data not Lognormal at (0.05) Significance Level	

Nickel: Water-Side Site	
Raw Statistics	
Number of Valid Observations	58
Number of Distinct Observations	49
Minimum	3.5
Maximum	84.4
Mean of Raw Data	19.15
Standard Deviation of Raw Data	12.48
Khat	3.802
Theta hat	5.036
Kstar	3.617
Theta star	5.294
Mean of Log Transformed Data	2.815
Standard Deviation of Log Transformed Data	0.512
Normal GOF Test Results	
Correlation Coefficient R	0.805
Approximate Shapiro Wilk Test Statistic	0.681
Approximate Shapiro Wilk P Value	6.661E-16
Lilliefors Test Statistic	0.187
Lilliefors Critical (0.05) Value	0.116
Data not Normal at (0.05) Significance Level	
Gamma GOF Test Results	
Correlation Coefficient R	0.881
A-D Test Statistic	1.313
A-D Critical (0.05) Value	0.754
K-S Test Statistic	0.117
K-S Critical(0.05) Value	0.117
Data not Gamma Distributed at (0.05) Significance Level	
Lognormal GOF Test Results	
Correlation Coefficient R	0.966
Approximate Shapiro Wilk Test Statistic	0.956
Approximate Shapiro Wilk P Value	0.0681
Lilliefors Test Statistic	0.107
Lilliefors Critical (0.05) Value	0.116
Data appear Lognormal at (0.05) Significance Level	

Wynn Resort Casino
Everett, Massachusetts

Nickel: Off-Site West	
Raw Statistics	
Number of Valid Observations	24
Number of Distinct Observations	22
Minimum	5.5
Maximum	29.9
Mean of Raw Data	10.97
Standard Deviation of Raw Data	6.332
Khat	4.252
Theta hat	2.58
Kstar	3.748
Theta star	2.927
Mean of Log Transformed Data	2.273
Standard Deviation of Log Transformed Data	0.477
Normal GOF Test Results	
Correlation Coefficient R	0.883
Shapiro Wilk Test Statistic	0.782
Shapiro Wilk Critical (0.05) Value	0.916
Approximate Shapiro Wilk P Value	7.9192E-5
Lilliefors Test Statistic	0.227
Lilliefors Critical (0.05) Value	0.181
Data not Normal at (0.05) Significance Level	
Gamma GOF Test Results	
Correlation Coefficient R	0.958
A-D Test Statistic	1.019
A-D Critical (0.05) Value	0.748
K-S Test Statistic	0.155
K-S Critical(0.05) Value	0.179
Data follow Appr. Gamma Distribution at (0.05) Significance Level	
Lognormal GOF Test Results	
Correlation Coefficient R	0.956
Shapiro Wilk Test Statistic	0.906
Shapiro Wilk Critical (0.05) Value	0.916
Approximate Shapiro Wilk P Value	0.029
Lilliefors Test Statistic	0.147
Lilliefors Critical (0.05) Value	0.181
Data appear Approximate_Lognormal at (0.05) Significance Level	

Wynn Resort Casino
Everett, Massachusetts

Selenium: Off-Site East	
Raw Statistics	
Number of Valid Observations	1
Number of Missing Observations	13
Number of Distinct Observations	1
Minimum	2.23
Maximum	2.23
Warning: This data set only has 1 observations!	
Data set is too small to compute reliable and meaningful statistics and estimates!	
The data set for variable Se (east-shallow) was not processed!	
It is suggested to collect at least 8 to 10 observations before using these statistical methods!	
If possible, compute and collect Data Quality Objectives (DQO) based sample size and analytical results.	
Selenium: Local Conditions	
Raw Statistics	
Number of Valid Observations	0
Number of Missing Observations	17
Number of Distinct Observations	0
Minimum	N/A
Maximum	N/A
Warning: This data set only has 0 observations!	
Data set is too small to compute reliable and meaningful statistics and estimates!	
The data set for variable Se (lc-shallow) was not processed!	
It is suggested to collect at least 8 to 10 observations before using these statistical methods!	
If possible, compute and collect Data Quality Objectives (DQO) based sample size and analytical results.	

Wynn Resort Casino
Everett, Massachusetts

Selenium: Water-Side Site	
Raw Statistics	
Number of Valid Observations	24
Number of Missing Observations	34
Number of Distinct Observations	24
Minimum	1.58
Maximum	104
Mean of Raw Data	24.09
Standard Deviation of Raw Data	28.04
Khat	0.775
Theta hat	31.07
Kstar	0.706
Theta star	34.12
Mean of Log Transformed Data	2.413
Standard Deviation of Log Transformed Data	1.345
Normal GOF Test Results	
Correlation Coefficient R	0.89
Shapiro Wilk Test Statistic	0.79
Shapiro Wilk Critical (0.05) Value	0.916
Approximate Shapiro Wilk P Value	1.1270E-4
Lilliefors Test Statistic	0.24
Lilliefors Critical (0.05) Value	0.181
Data not Normal at (0.05) Significance Level	
Gamma GOF Test Results	
Correlation Coefficient R	0.979
A-D Test Statistic	0.885
A-D Critical (0.05) Value	0.781
K-S Test Statistic	0.195
K-S Critical(0.05) Value	0.185
Data not Gamma Distributed at (0.05) Significance Level	
Lognormal GOF Test Results	
Correlation Coefficient R	0.97
Shapiro Wilk Test Statistic	0.923
Shapiro Wilk Critical (0.05) Value	0.916
Approximate Shapiro Wilk P Value	0.071
Lilliefors Test Statistic	0.142
Lilliefors Critical (0.05) Value	0.181
Data appear Lognormal at (0.05) Significance Level	

Selenium: Off-Site West						
Raw Statistics						
Number of Valid Observations	5					
Number of Missing Observations	19					
Number of Distinct Observations	5					
Minimum	1.41					
Maximum	4.43					
Mean of Raw Data	2.546					
Standard Deviation of Raw Data	1.199					
Khat	6.175					
Theta hat	0.412					
Kstar	2.603					
Theta star	0.978					
Mean of Log Transformed Data	0.851					
Standard Deviation of Log Transformed Data	0.45					
Normal GOF Test Results						
Correlation Coefficient R	0.958					
Shapiro Wilk Test Statistic	0.917					
Shapiro Wilk Critical (0.05) Value	0.762					
Approximate Shapiro Wilk P Value	N/A					
Lilliefors Test Statistic	0.198					
Lilliefors Critical (0.05) Value	0.396					
Data appear Normal at (0.05) Significance Level						
Gamma GOF Test Results						
Correlation Coefficient R	0.993					
A-D Test Statistic	0.228					
A-D Critical (0.05) Value	0.68					
K-S Test Statistic	0.181					
K-S Critical(0.05) Value	0.358					
Data appear Gamma Distributed at (0.05) Significance Level						
Lognormal GOF Test Results						
Correlation Coefficient R	0.991					
Shapiro Wilk Test Statistic	0.976					
Shapiro Wilk Critical (0.05) Value	0.762					
Approximate Shapiro Wilk P Value	N/A					
Lilliefors Test Statistic	0.154					
Lilliefors Critical (0.05) Value	0.396					
Data appear Lognormal at (0.05) Significance Level						

Wynn Resort Casino
Everett, Massachusetts

Silver: Off-Site East						
Raw Statistics						
Number of Valid Observations	7					
Number of Missing Observations	7					
Number of Distinct Observations	6					
Minimum	0.91					
Maximum	2.11					
Mean of Raw Data	1.234					
Standard Deviation of Raw Data	0.423					
Khat	12.23					
Theta hat	0.101					
Kstar	7.086					
Theta star	0.174					
Mean of Log Transformed Data	0.169					
Standard Deviation of Log Transformed Data	0.297					
Normal GOF Test Results						
Correlation Coefficient R	0.878					
Shapiro Wilk Test Statistic	0.782					
Shapiro Wilk Critical (0.05) Value	0.803					
Approximate Shapiro Wilk P Value	0.021					
Lilliefors Test Statistic	0.293					
Lilliefors Critical (0.05) Value	0.335					
Data appear Approximate Normal at (0.05) Significance Level						
Gamma GOF Test Results						
Correlation Coefficient R	0.928					
A-D Test Statistic	0.573					
A-D Critical (0.05) Value	0.708					
K-S Test Statistic	0.273					
K-S Critical(0.05) Value	0.312					
Data appear Gamma Distributed at (0.05) Significance Level						
Lognormal GOF Test Results						
Correlation Coefficient R	0.923					
Shapiro Wilk Test Statistic	0.856					
Shapiro Wilk Critical (0.05) Value	0.803					
Approximate Shapiro Wilk P Value	0.131					
Lilliefors Test Statistic	0.254					
Lilliefors Critical (0.05) Value	0.335					
Data appear Lognormal at (0.05) Significance Level						

Wynn Resort Casino
Everett, Massachusetts

Silver: Local Conditions						
Raw Statistics						
Number of Valid Observations	16					
Number of Missing Observations	1					
Number of Distinct Observations	14					
Minimum	0.83					
Maximum	3.09					
Mean of Raw Data	1.439					
Standard Deviation of Raw Data	0.662					
Khat	7.056					
Theta hat	0.204					
Kstar	5.774					
Theta star	0.249					
Mean of Log Transformed Data	0.292					
Standard Deviation of Log Transformed Data	0.366					
Normal GOF Test Results						
Correlation Coefficient R	0.828					
Shapiro Wilk Test Statistic	0.693					
Shapiro Wilk Critical (0.05) Value	0.887					
Approximate Shapiro Wilk P Value	7.2496E-5					
Lilliefors Test Statistic	0.264					
Lilliefors Critical (0.05) Value	0.222					
Data not Normal at (0.05) Significance Level						
Gamma GOF Test Results						
Correlation Coefficient R	0.888					
A-D Test Statistic	1.415					
A-D Critical (0.05) Value	0.74					
K-S Test Statistic	0.235					
K-S Critical(0.05) Value	0.216					
Data not Gamma Distributed at (0.05) Significance Level						
Lognormal GOF Test Results						
Correlation Coefficient R	0.91					
Shapiro Wilk Test Statistic	0.833					
Shapiro Wilk Critical (0.05) Value	0.887					
Approximate Shapiro Wilk P Value	0.00667					
Lilliefors Test Statistic	0.217					
Lilliefors Critical (0.05) Value	0.222					
Data appear Approximate_Lognormal at (0.05) Significance Level						

Wynn Resort Casino
Everett, Massachusetts

Silver: Water-Side Site	
Raw Statistics	
Number of Valid Observations	51
Number of Missing Observations	7
Number of Distinct Observations	47
Minimum	0.32
Maximum	5.11
Mean of Raw Data	1.417
Standard Deviation of Raw Data	0.97
Khat	2.716
Theta hat	0.522
Kstar	2.569
Theta star	0.552
Mean of Log Transformed Data	0.154
Standard Deviation of Log Transformed Data	0.625
Normal GOF Test Results	
Correlation Coefficient R	0.904
Approximate Shapiro Wilk Test Statistic	0.825
Approximate Shapiro Wilk P Value	7.9667E-8
Lilliefors Test Statistic	0.145
Lilliefors Critical (0.05) Value	0.124
Data not Normal at (0.05) Significance Level	
Gamma GOF Test Results	
Correlation Coefficient R	0.973
A-D Test Statistic	0.908
A-D Critical (0.05) Value	0.759
K-S Test Statistic	0.133
K-S Critical(0.05) Value	0.125
Data not Gamma Distributed at (0.05) Significance Level	
Lognormal GOF Test Results	
Correlation Coefficient R	0.984
Approximate Shapiro Wilk Test Statistic	0.96
Approximate Shapiro Wilk P Value	0.15
Lilliefors Test Statistic	0.126
Lilliefors Critical (0.05) Value	0.124
Data appear Approximate_Lognormal at (0.05) Significance Level	

Silver: Off-Site West						
Raw Statistics						
Number of Valid Observations	21					
Number of Missing Observations	3					
Number of Distinct Observations	18					
Minimum	0.39					
Maximum	2.83					
Mean of Raw Data	1.07					
Standard Deviation of Raw Data	0.628					
Khat	3.645					
Theta hat	0.294					
Kstar	3.156					
Theta star	0.339					
Mean of Log Transformed Data	-0.0753					
Standard Deviation of Log Transformed Data	0.542					
Normal GOF Test Results						
Correlation Coefficient R	0.928					
Shapiro Wilk Test Statistic	0.863					
Shapiro Wilk Critical (0.05) Value	0.908					
Approximate Shapiro Wilk P Value	0.00581					
Lilliefors Test Statistic	0.189					
Lilliefors Critical (0.05) Value	0.193					
Data appear Approximate Normal at (0.05) Significance Level						
Gamma GOF Test Results						
Correlation Coefficient R	0.985					
A-D Test Statistic	0.358					
A-D Critical (0.05) Value	0.748					
K-S Test Statistic	0.13					
K-S Critical(0.05) Value	0.191					
Data appear Gamma Distributed at (0.05) Significance Level						
Lognormal GOF Test Results						
Correlation Coefficient R	0.988					
Shapiro Wilk Test Statistic	0.969					
Shapiro Wilk Critical (0.05) Value	0.908					
Approximate Shapiro Wilk P Value	0.701					
Lilliefors Test Statistic	0.113					
Lilliefors Critical (0.05) Value	0.193					
Data appear Lognormal at (0.05) Significance Level						

Vanadium: Off-Site East	
Raw Statistics	
Number of Valid Observations	14
Number of Distinct Observations	14
Minimum	15.4
Maximum	105
Mean of Raw Data	53.05
Standard Deviation of Raw Data	32.53
Khat	2.422
Theta hat	21.9
Kstar	1.951
Theta star	27.2
Mean of Log Transformed Data	3.751
Standard Deviation of Log Transformed Data	0.729
Normal GOF Test Results	
Correlation Coefficient R	0.952
Shapiro Wilk Test Statistic	0.883
Shapiro Wilk Critical (0.05) Value	0.874
Approximate Shapiro Wilk P Value	0.0922
Lilliefors Test Statistic	0.206
Lilliefors Critical (0.05) Value	0.237
Data appear Normal at (0.05) Significance Level	
Gamma GOF Test Results	
Correlation Coefficient R	0.939
A-D Test Statistic	0.814
A-D Critical (0.05) Value	0.744
K-S Test Statistic	0.21
K-S Critical(0.05) Value	0.231
Data follow Appr. Gamma Distribution at (0.05) Significance Level	
Lognormal GOF Test Results	
Correlation Coefficient R	0.94
Shapiro Wilk Test Statistic	0.859
Shapiro Wilk Critical (0.05) Value	0.874
Approximate Shapiro Wilk P Value	0.0442
Lilliefors Test Statistic	0.236
Lilliefors Critical (0.05) Value	0.237
Data appear Approximate_Lognormal at (0.05) Significance Level	

Vanadium: Local Conditions						
Raw Statistics						
Number of Valid Observations	17					
Number of Distinct Observations	17					
Minimum	40.4					
Maximum	484					
Mean of Raw Data	102.1					
Standard Deviation of Raw Data	103.9					
Khat	2.462					
Theta hat	41.45					
Kstar	2.067					
Theta star	49.38					
Mean of Log Transformed Data	4.409					
Standard Deviation of Log Transformed Data	0.559					
Normal GOF Test Results						
Correlation Coefficient R	0.663					
Shapiro Wilk Test Statistic	0.47					
Shapiro Wilk Critical (0.05) Value	0.892					
Approximate Shapiro Wilk P Value	7.7062E-8					
Lilliefors Test Statistic	0.416					
Lilliefors Critical (0.05) Value	0.215					
Data not Normal at (0.05) Significance Level						
Gamma GOF Test Results						
Correlation Coefficient R	0.805					
A-D Test Statistic	2.644					
A-D Critical (0.05) Value	0.748					
K-S Test Statistic	0.352					
K-S Critical(0.05) Value	0.211					
Data not Gamma Distributed at (0.05) Significance Level						
Lognormal GOF Test Results						
Correlation Coefficient R	0.831					
Shapiro Wilk Test Statistic	0.719					
Shapiro Wilk Critical (0.05) Value	0.892					
Approximate Shapiro Wilk P Value	7.7898E-5					
Lilliefors Test Statistic	0.293					
Lilliefors Critical (0.05) Value	0.215					
Data not Lognormal at (0.05) Significance Level						

Vanadium: Water-Side Site	
Raw Statistics	
Number of Valid Observations	58
Number of Distinct Observations	56
Minimum	14.6
Maximum	354
Mean of Raw Data	62.31
Standard Deviation of Raw Data	44.59
Khat	3.827
Theta hat	16.28
Kstar	3.64
Theta star	17.12
Mean of Log Transformed Data	3.996
Standard Deviation of Log Transformed Data	0.498
Normal GOF Test Results	
Correlation Coefficient R	0.731
Approximate Shapiro Wilk Test Statistic	0.585
Approximate Shapiro Wilk P Value	0
Lilliefors Test Statistic	0.211
Lilliefors Critical (0.05) Value	0.116
Data not Normal at (0.05) Significance Level	
Gamma GOF Test Results	
Correlation Coefficient R	0.807
A-D Test Statistic	1.024
A-D Critical (0.05) Value	0.754
K-S Test Statistic	0.12
K-S Critical(0.05) Value	0.117
Data not Gamma Distributed at (0.05) Significance Level	
Lognormal GOF Test Results	
Correlation Coefficient R	0.965
Approximate Shapiro Wilk Test Statistic	0.956
Approximate Shapiro Wilk P Value	0.072
Lilliefors Test Statistic	0.101
Lilliefors Critical (0.05) Value	0.116
Data appear Lognormal at (0.05) Significance Level	

Wynn Resort Casino
Everett, Massachusetts

Vanadium: Off-Site West	
Raw Statistics	
Number of Valid Observations	24
Number of Distinct Observations	24
Minimum	15.4
Maximum	131
Mean of Raw Data	35.52
Standard Deviation of Raw Data	26.79
Khat	2.917
Theta hat	12.18
Kstar	2.58
Theta star	13.77
Mean of Log Transformed Data	3.389
Standard Deviation of Log Transformed Data	0.565
Normal GOF Test Results	
Correlation Coefficient R	0.833
Shapiro Wilk Test Statistic	0.708
Shapiro Wilk Critical (0.05) Value	0.916
Approximate Shapiro Wilk P Value	4.2003E-6
Lilliefors Test Statistic	0.237
Lilliefors Critical (0.05) Value	0.181
Data not Normal at (0.05) Significance Level	
Gamma GOF Test Results	
Correlation Coefficient R	0.939
A-D Test Statistic	1.23
A-D Critical (0.05) Value	0.751
K-S Test Statistic	0.183
K-S Critical(0.05) Value	0.179
Data not Gamma Distributed at (0.05) Significance Level	
Lognormal GOF Test Results	
Correlation Coefficient R	0.95
Shapiro Wilk Test Statistic	0.9
Shapiro Wilk Critical (0.05) Value	0.916
Approximate Shapiro Wilk P Value	0.0203
Lilliefors Test Statistic	0.151
Lilliefors Critical (0.05) Value	0.181
Data appear Approximate_Lognormal at (0.05) Significance Level	

Wynn Resort Casino
Everett, Massachusetts

Zinc: Off-Site East	
Raw Statistics	
Number of Valid Observations	14
Number of Distinct Observations	14
Minimum	35.3
Maximum	674
Mean of Raw Data	254.8
Standard Deviation of Raw Data	165.5
Khat	2.069
Theta hat	123.2
Kstar	1.673
Theta star	152.3
Mean of Log Transformed Data	5.28
Standard Deviation of Log Transformed Data	0.845
Normal GOF Test Results	
Correlation Coefficient R	0.942
Shapiro Wilk Test Statistic	0.899
Shapiro Wilk Critical (0.05) Value	0.874
Approximate Shapiro Wilk P Value	0.0939
Lilliefors Test Statistic	0.199
Lilliefors Critical (0.05) Value	0.237
Data appear Normal at (0.05) Significance Level	
Gamma GOF Test Results	
Correlation Coefficient R	0.956
A-D Test Statistic	0.599
A-D Critical (0.05) Value	0.746
K-S Test Statistic	0.21
K-S Critical(0.05) Value	0.232
Data appear Gamma Distributed at (0.05) Significance Level	
Lognormal GOF Test Results	
Correlation Coefficient R	0.94
Shapiro Wilk Test Statistic	0.884
Shapiro Wilk Critical (0.05) Value	0.874
Approximate Shapiro Wilk P Value	0.0656
Lilliefors Test Statistic	0.237
Lilliefors Critical (0.05) Value	0.237
Data appear Lognormal at (0.05) Significance Level	

Wynn Resort Casino
Everett, Massachusetts

Zinc: Local Conditions	
Raw Statistics	
Number of Valid Observations	17
Number of Distinct Observations	17
Minimum	235
Maximum	618
Mean of Raw Data	359.8
Standard Deviation of Raw Data	106.8
Khat	13.94
Theta hat	25.82
Kstar	11.52
Theta star	31.24
Mean of Log Transformed Data	5.849
Standard Deviation of Log Transformed Data	0.27
Normal GOF Test Results	
Correlation Coefficient R	0.931
Shapiro Wilk Test Statistic	0.866
Shapiro Wilk Critical (0.05) Value	0.892
Approximate Shapiro Wilk P Value	0.0185
Lilliefors Test Statistic	0.199
Lilliefors Critical (0.05) Value	0.215
Data appear Approximate Normal at (0.05) Significance Level	
Gamma GOF Test Results	
Correlation Coefficient R	0.962
A-D Test Statistic	0.588
A-D Critical (0.05) Value	0.738
K-S Test Statistic	0.169
K-S Critical(0.05) Value	0.209
Data appear Gamma Distributed at (0.05) Significance Level	
Lognormal GOF Test Results	
Correlation Coefficient R	0.969
Shapiro Wilk Test Statistic	0.935
Shapiro Wilk Critical (0.05) Value	0.892
Approximate Shapiro Wilk P Value	0.279
Lilliefors Test Statistic	0.151
Lilliefors Critical (0.05) Value	0.215
Data appear Lognormal at (0.05) Significance Level	

Wynn Resort Casino
Everett, Massachusetts

Zinc: Water-Side Site	
Raw Statistics	
Number of Valid Observations	58
Number of Distinct Observations	52
Minimum	67.5
Maximum	1230
Mean of Raw Data	341.1
Standard Deviation of Raw Data	223.9
Khat	2.974
Theta hat	114.7
Kstar	2.831
Theta star	120.5
Mean of Log Transformed Data	5.655
Standard Deviation of Log Transformed Data	0.611
Normal GOF Test Results	
Correlation Coefficient R	0.887
Approximate Shapiro Wilk Test Statistic	0.798
Approximate Shapiro Wilk P Value	1.999E-10
Lilliefors Test Statistic	0.202
Lilliefors Critical (0.05) Value	0.116
Data not Normal at (0.05) Significance Level	
Gamma GOF Test Results	
Correlation Coefficient R	0.956
A-D Test Statistic	0.832
A-D Critical (0.05) Value	0.758
K-S Test Statistic	0.127
K-S Critical(0.05) Value	0.118
Data not Gamma Distributed at (0.05) Significance Level	
Lognormal GOF Test Results	
Correlation Coefficient R	0.979
Approximate Shapiro Wilk Test Statistic	0.954
Approximate Shapiro Wilk P Value	0.0596
Lilliefors Test Statistic	0.105
Lilliefors Critical (0.05) Value	0.116
Data appear Lognormal at (0.05) Significance Level	

Wynn Resort Casino
Everett, Massachusetts

Zinc: Off-Site West	
Raw Statistics	
Number of Valid Observations	24
Number of Distinct Observations	24
Minimum	29.8
Maximum	1310
Mean of Raw Data	194.2
Standard Deviation of Raw Data	253.2
Khat	1.499
Theta hat	129.5
Kstar	1.339
Theta star	145
Mean of Log Transformed Data	4.899
Standard Deviation of Log Transformed Data	0.787
Normal GOF Test Results	
Correlation Coefficient R	0.694
Shapiro Wilk Test Statistic	0.512
Shapiro Wilk Critical (0.05) Value	0.916
Approximate Shapiro Wilk P Value	6.1286E-9
Lilliefors Test Statistic	0.288
Lilliefors Critical (0.05) Value	0.181
Data not Normal at (0.05) Significance Level	
Gamma GOF Test Results	
Correlation Coefficient R	0.85
A-D Test Statistic	0.995
A-D Critical (0.05) Value	0.762
K-S Test Statistic	0.161
K-S Critical(0.05) Value	0.181
Data follow Appr. Gamma Distribution at (0.05) Significance Level	
Lognormal GOF Test Results	
Correlation Coefficient R	0.972
Shapiro Wilk Test Statistic	0.959
Shapiro Wilk Critical (0.05) Value	0.916
Approximate Shapiro Wilk P Value	0.437
Lilliefors Test Statistic	0.1
Lilliefors Critical (0.05) Value	0.181
Data appear Lognormal at (0.05) Significance Level	

Wilcoxon-Mann-Whitney Sample 1 vs Sample 2 Comparison Test for Uncensor Full Data Sets without NDs

User Selected Options	
Date/Time of Computation	9/17/2015 11:59:08 AM
From File	Round 11 RAW INPUT.xls
Full Precision	OFF
Confidence Coefficient	95%
Substantial Difference	0.000
Selected Null Hypothesis	Sample 1 Mean/Median <= Sample 2 Mean/Median (Form 1)
Alternative Hypothesis	Sample 1 Mean/Median > Sample 2 Mean/Median

Sample 1 Data: As(on)

Sample 2 Data: As(lc)

Raw Statistics

	Sample 1	Sample 2
Number of Valid Observations	58	17
Number of Distinct Observations	54	17
Minimum	8.17	13.5
Maximum	249	35.5
Mean	72.74	21.54
Median	45.8	21
SD	58.39	6.597
SE of Mean	7.667	1.6

Wilcoxon-Mann-Whitney (WMW) Test

H0: Mean/Median of Sample 1 <= Mean/Median of Sample 2

Sample 1 Rank Sum W-Stat	2644
Standardized WMW U-Stat	5.556
Mean (U)	493
SD(U) - Adj ties	79.02
Approximate U-Stat Critical Value (0.05)	1.645
P-Value (Adjusted for Ties)	1.3832E-8

Conclusion with Alpha = 0.05

Reject H0, Conclude Sample 1 > Sample 2

P-Value < alpha (0.05)

t-Test Sample 1 vs Sample 2 Comparison for Uncensored Full Data Sets without NDs

User Selected Options	
Date/Time of Computation	9/17/2015 11:57:54 AM
From File	Round 11 RAW INPUT.xls
Full Precision	OFF
Confidence Coefficient	95%
Substantial Difference (S)	0.000
Selected Null Hypothesis	Sample 1 Mean <= Sample 2 Mean (Form 1)
Alternative Hypothesis	Sample 1 Mean > the Sample 2 Mean

Sample 1 Data: As(east-shallow)

Sample 2 Data: As(lc-shallow)

Raw Statistics

	Sample 1	Sample 2
Number of Valid Observations	14	17
Number of Distinct Observations	14	17
Minimum	6.04	13.5
Maximum	36.5	35.5
Mean	21.2	21.54
Median	21.55	21
SD	9.843	6.597
SE of Mean	2.631	1.6

Sample 1 vs Sample 2 Two-Sample t-Test

H0: Mean of Sample 1 - Mean of Sample 2 <= 0

		t-Test	Critical	
Method	DF	Value	t (0.05)	P-Value
Pooled (Equal Variance)	29	-0.115	1.699	0.545
Welch-Satterthwaite (Unequal Variance	22.0	-0.111	1.717	0.544

Pooled SD 8.212

Conclusion with Alpha = 0.050

Student t (Pooled) Test: Do Not Reject H0, Conclude Sample 1 <= Sample 2

Welch-Satterthwaite Test: Do Not Reject H0, Conclude Sample 1 <= Sample 2

Test of Equality of Variances

Variance of Sample 1	96.88
Variance of Sample 2	43.53

Numerator DF	Denominator DF	F-Test Value	P-Value
13	16	2.226	0.131

Conclusion with Alpha = 0.05

Two variances appear to be equal

t-Test Sample 1 vs Sample 2 Comparison for Uncensored Full Data Sets without NDs

User Selected Options	
Date/Time of Computation	9/17/2015 11:56:55 AM
From File	Round 11 RAW INPUT.xls
Full Precision	OFF
Confidence Coefficient	95%
Substantial Difference (S)	0.000
Selected Null Hypothesis	Sample 1 Mean <= Sample 2 Mean (Form 1)
Alternative Hypothesis	Sample 1 Mean > the Sample 2 Mean

Sample 1 Data: As(west-shallow)

Sample 2 Data: As(lc-shallow)

Raw Statistics

	Sample 1	Sample 2
Number of Valid Observations	24	17
Number of Distinct Observations	23	17
Minimum	4.2	13.5
Maximum	68.3	35.5
Mean	23.68	21.54
Median	20.85	21
SD	15.78	6.597
SE of Mean	3.22	1.6

Sample 1 vs Sample 2 Two-Sample t-Test

H0: Mean of Sample 1 - Mean of Sample 2 <= 0

		t-Test	Critical	
Method	DF	Value	t (0.05)	P-Value
Pooled (Equal Variance)	39	0.525	1.685	0.301
Welch-Satterthwaite (Unequal Variance	32.9	0.593	1.692	0.278

Pooled SD 12.831

Conclusion with Alpha = 0.050

Student t (Pooled) Test: Do Not Reject H0, Conclude Sample 1 <= Sample 2

Welch-Satterthwaite Test: Do Not Reject H0, Conclude Sample 1 <= Sample 2

Test of Equality of Variances

Variance of Sample 1	248.9
Variance of Sample 2	43.53

Numerator DF	Denominator DF	F-Test Value	P-Value
23	16	5.718	0.001

Conclusion with Alpha = 0.05

Two variances are not equal

Wilcoxon-Mann-Whitney Sample 1 vs Sample 2 Comparison Test for Uncensor Full Data Sets without NDs

User Selected Options	
Date/Time of Computation	9/17/2015 12:06:40 PM
From File	Round 11 RAW INPUT.xls
Full Precision	OFF
Confidence Coefficient	95%
Substantial Difference	0.000
Selected Null Hypothesis	Sample 1 Mean/Median <= Sample 2 Mean/Median (Form 1)
Alternative Hypothesis	Sample 1 Mean/Median > Sample 2 Mean/Median

Sample 1 Data: Ba(on-shallow)

Sample 2 Data: Ba(lc-shallow)

Raw Statistics

	Sample 1	Sample 2
Number of Valid Observations	58	17
Number of Distinct Observations	57	17
Minimum	14.1	47.8
Maximum	190	201
Mean	52.48	75.45
Median	49.3	64.8
SD	25.93	34.86
SE of Mean	3.405	8.455

Wilcoxon-Mann-Whitney (WMW) Test

H0: Mean/Median of Sample 1 <= Mean/Median of Sample 2

Sample 1 Rank Sum W-Stat	1946
Standardized WMW U-Stat	-3.278
Mean (U)	493
SD(U) - Adj ties	79.02
Approximate U-Stat Critical Value (0.05)	1.645
P-Value (Adjusted for Ties)	0.999

Conclusion with Alpha = 0.05

Do Not Reject H0, Conclude Sample 1 <= Sample 2

P-Value >= alpha (0.05)

Wilcoxon-Mann-Whitney Sample 1 vs Sample 2 Comparison Test for Uncensor Full Data Sets without NDs

User Selected Options	
Date/Time of Computation	9/17/2015 12:06:14 PM
From File	Round 11 RAW INPUT.xls
Full Precision	OFF
Confidence Coefficient	95%
Substantial Difference	0.000
Selected Null Hypothesis	Sample 1 Mean/Median <= Sample 2 Mean/Median (Form 1)
Alternative Hypothesis	Sample 1 Mean/Median > Sample 2 Mean/Median

Sample 1 Data: Ba(east-shallow)

Sample 2 Data: Ba(lc-shallow)

Raw Statistics

	Sample 1	Sample 2
Number of Valid Observations	14	17
Number of Distinct Observations	14	17
Minimum	12.5	47.8
Maximum	69.4	201
Mean	40.14	75.45
Median	47	64.8
SD	21.19	34.86
SE of Mean	5.662	8.455

Wilcoxon-Mann-Whitney (WMW) Test

H0: Mean/Median of Sample 1 <= Mean/Median of Sample 2

Sample 1 Rank Sum W-Stat	134
WMW U-Stat	29
Mean (U)	119
SD(U) - Adj ties	25.19
WMW U-Stat Critical Value (0.05)	160
Standardized WMW U-Stat	-3.592
Approximate P-Value	1

Conclusion with Alpha = 0.05

Do Not Reject H0, Conclude Sample 1 <= Sample 2

Wilcoxon-Mann-Whitney Sample 1 vs Sample 2 Comparison Test for Uncensor Full Data Sets without NDs

User Selected Options	
Date/Time of Computation	9/17/2015 12:05:39 PM
From File	Round 11 RAW INPUT.xls
Full Precision	OFF
Confidence Coefficient	95%
Substantial Difference	0.000
Selected Null Hypothesis	Sample 1 Mean/Median <= Sample 2 Mean/Median (Form 1)
Alternative Hypothesis	Sample 1 Mean/Median > Sample 2 Mean/Median

Sample 1 Data: Ba(west-shallow)

Sample 2 Data: Ba(lc-shallow)

Raw Statistics

	Sample 1	Sample 2
Number of Valid Observations	24	17
Number of Distinct Observations	24	17
Minimum	13.3	47.8
Maximum	64.9	201
Mean	32.85	75.45
Median	30.4	64.8
SD	15.08	34.86
SE of Mean	3.078	8.455

Wilcoxon-Mann-Whitney (WMW) Test

H0: Mean/Median of Sample 1 <= Mean/Median of Sample 2

Sample 1 Rank Sum W-Stat	315
Standardized WMW U-Stat	-5.015
Mean (U)	204
SD(U) - Adj ties	37.79
Approximate U-Stat Critical Value (0.05)	1.645
P-Value (Adjusted for Ties)	1

Conclusion with Alpha = 0.05

Do Not Reject H0, Conclude Sample 1 <= Sample 2

P-Value >= alpha (0.05)

t-Test Sample 1 vs Sample 2 Comparison for Uncensored Full Data Sets without NDs

User Selected Options	
Date/Time of Computation	9/17/2015 12:08:29 PM
From File	Round 11 RAW INPUT.xls
Full Precision	OFF
Confidence Coefficient	95%
Substantial Difference (S)	0.000
Selected Null Hypothesis	Sample 1 Mean <= Sample 2 Mean (Form 1)
Alternative Hypothesis	Sample 1 Mean > the Sample 2 Mean

Sample 1 Data: Be(on-shallow)

Sample 2 Data: Be(lc-shallow)

Raw Statistics

	Sample 1	Sample 2
Number of Valid Observations	56	17
Number of Missing Observations	2	0
Number of Distinct Observations	37	15
Minimum	0.13	0.41
Maximum	1.5	0.87
Mean	0.505	0.581
Median	0.485	0.57
SD	0.225	0.105
SE of Mean	0.0301	0.0254

Sample 1 vs Sample 2 Two-Sample t-Test

H0: Mean of Sample 1 - Mean of Sample 2 <= 0

		t-Test	Critical	
Method	DF	Value	t (0.05)	P-Value
Pooled (Equal Variance)	71	-1.354	1.667	0.910
Welch-Satterthwaite (Unequal Variance	58.7	-1.945	1.671	0.972

Pooled SD 0.204

Conclusion with Alpha = 0.050

Student t (Pooled) Test: Do Not Reject H0, Conclude Sample 1 <= Sample 2

Welch-Satterthwaite Test: Do Not Reject H0, Conclude Sample 1 <= Sample 2

Test of Equality of Variances

Variance of Sample 1	0.0506
Variance of Sample 2	0.011

Numerator DF	Denominator DF	F-Test Value	P-Value
55	16	4.614	0.002

Conclusion with Alpha = 0.05

Two variances are not equal

t-Test Sample 1 vs Sample 2 Comparison for Uncensored Full Data Sets without NDs

User Selected Options	
Date/Time of Computation	9/17/2015 12:07:49 PM
From File	Round 11 RAW INPUT.xls
Full Precision	OFF
Confidence Coefficient	95%
Substantial Difference (S)	0.000
Selected Null Hypothesis	Sample 1 Mean <= Sample 2 Mean (Form 1)
Alternative Hypothesis	Sample 1 Mean > the Sample 2 Mean

Sample 1 Data: Be(east-shallow)

Sample 2 Data: Be(lc-shallow)

Raw Statistics

	Sample 1	Sample 2
Number of Valid Observations	14	17
Number of Distinct Observations	12	15
Minimum	0.17	0.41
Maximum	0.71	0.87
Mean	0.444	0.581
Median	0.505	0.57
SD	0.196	0.105
SE of Mean	0.0524	0.0254

Sample 1 vs Sample 2 Two-Sample t-Test

H0: Mean of Sample 1 - Mean of Sample 2 <= 0

		t-Test	Critical	
Method	DF	Value	t (0.05)	P-Value
Pooled (Equal Variance)	29	-2.498	1.699	0.991
Welch-Satterthwaite (Unequal Variance	19.0	-2.362	1.729	0.986

Pooled SD 0.153

Conclusion with Alpha = 0.050

Student t (Pooled) Test: Do Not Reject H0, Conclude Sample 1 <= Sample 2

Welch-Satterthwaite Test: Do Not Reject H0, Conclude Sample 1 <= Sample 2

Test of Equality of Variances

Variance of Sample 1	0.0385
Variance of Sample 2	0.011

Numerator DF	Denominator DF	F-Test Value	P-Value
13	16	3.510	0.020

Conclusion with Alpha = 0.05

Two variances are not equal

t-Test Sample 1 vs Sample 2 Comparison for Uncensored Full Data Sets without NDs

User Selected Options	
Date/Time of Computation	9/17/2015 12:07:21 PM
From File	Round 11 RAW INPUT.xls
Full Precision	OFF
Confidence Coefficient	95%
Substantial Difference (S)	0.000
Selected Null Hypothesis	Sample 1 Mean <= Sample 2 Mean (Form 1)
Alternative Hypothesis	Sample 1 Mean > the Sample 2 Mean

Sample 1 Data: Be(west-shallow)

Sample 2 Data: Be(lc-shallow)

Raw Statistics

	Sample 1	Sample 2
Number of Valid Observations	24	17
Number of Distinct Observations	19	15
Minimum	0.15	0.41
Maximum	0.73	0.87
Mean	0.309	0.581
Median	0.265	0.57
SD	0.148	0.105
SE of Mean	0.0303	0.0254

Sample 1 vs Sample 2 Two-Sample t-Test

H0: Mean of Sample 1 - Mean of Sample 2 <= 0

		t-Test	Critical	
Method	DF	Value	t (0.05)	P-Value
Pooled (Equal Variance)	39	-6.504	1.685	1.000
Welch-Satterthwaite (Unequal Variance	39.0	-6.896	1.685	1.000

Pooled SD 0.132

Conclusion with Alpha = 0.050

Student t (Pooled) Test: Do Not Reject H0, Conclude Sample 1 <= Sample 2

Welch-Satterthwaite Test: Do Not Reject H0, Conclude Sample 1 <= Sample 2

Test of Equality of Variances

Variance of Sample 1	0.022
Variance of Sample 2	0.011

Numerator DF	Denominator DF	F-Test Value	P-Value
23	16	2.005	0.155

Conclusion with Alpha = 0.05

Two variances appear to be equal

Wilcoxon-Mann-Whitney Sample 1 vs Sample 2 Comparison Test for Uncensor Full Data Sets without NDs

User Selected Options	
Date/Time of Computation	9/17/2015 12:10:30 PM
From File	Round 11 RAW INPUT.xls
Full Precision	OFF
Confidence Coefficient	95%
Substantial Difference	0.000
Selected Null Hypothesis	Sample 1 Mean/Median <= Sample 2 Mean/Median (Form 1)
Alternative Hypothesis	Sample 1 Mean/Median > Sample 2 Mean/Median

Sample 1 Data: Cd(on-shallow)

Sample 2 Data: Cd(lc-shallow)

Raw Statistics

	Sample 1	Sample 2
Number of Valid Observations	48	17
Number of Missing Observations	10	0
Number of Distinct Observations	46	16
Minimum	0.41	0.85
Maximum	8.98	8.51
Mean	1.529	2.105
Median	1.24	1.26
SD	1.324	1.958
SE of Mean	0.191	0.475

Wilcoxon-Mann-Whitney (WMW) Test

H0: Mean/Median of Sample 1 <= Mean/Median of Sample 2

Sample 1 Rank Sum W-Stat	1491
Standardized WMW U-Stat	-1.396
Mean (U)	408
SD(U) - Adj ties	66.99
Approximate U-Stat Critical Value (0.05)	1.645
P-Value (Adjusted for Ties)	0.919

Conclusion with Alpha = 0.05

Do Not Reject H0, Conclude Sample 1 <= Sample 2

P-Value >= alpha (0.05)

Wilcoxon-Mann-Whitney Sample 1 vs Sample 2 Comparison Test for Uncensor Full Data Sets without NDs

User Selected Options	
Date/Time of Computation	9/17/2015 12:10:06 PM
From File	Round 11 RAW INPUT.xls
Full Precision	OFF
Confidence Coefficient	95%
Substantial Difference	0.000
Selected Null Hypothesis	Sample 1 Mean/Median <= Sample 2 Mean/Median (Form 1)
Alternative Hypothesis	Sample 1 Mean/Median > Sample 2 Mean/Median

Sample 1 Data: Cd(east-shallow)

Sample 2 Data: Cd(lc-shallow)

Raw Statistics

	Sample 1	Sample 2
Number of Valid Observations	9	17
Number of Missing Observations	5	0
Number of Distinct Observations	8	16
Minimum	0.64	0.85
Maximum	1.54	8.51
Mean	1.009	2.105
Median	1.06	1.26
SD	0.274	1.958
SE of Mean	0.0912	0.475

Wilcoxon-Mann-Whitney (WMW) Test

H0: Mean/Median of Sample 1 <= Mean/Median of Sample 2

Sample 1 Rank Sum W-Stat	74.5
WMW U-Stat	29.5
Mean (U)	76.5
SD(U) - Adj ties	18.55
WMW U-Stat Critical Value (0.05)	107
Standardized WMW U-Stat	-2.561
Approximate P-Value	0.995

Conclusion with Alpha = 0.05

Do Not Reject H0, Conclude Sample 1 <= Sample 2

Wilcoxon-Mann-Whitney Sample 1 vs Sample 2 Comparison Test for Uncensor Full Data Sets without NDs

User Selected Options	
Date/Time of Computation	9/17/2015 12:09:38 PM
From File	Round 11 RAW INPUT.xls
Full Precision	OFF
Confidence Coefficient	95%
Substantial Difference	0.000
Selected Null Hypothesis	Sample 1 Mean/Median <= Sample 2 Mean/Median (Form 1)
Alternative Hypothesis	Sample 1 Mean/Median > Sample 2 Mean/Median

Sample 1 Data: Cd(west-shallow)

Sample 2 Data: Cd(lc-shallow)

Raw Statistics

	Sample 1	Sample 2
Number of Valid Observations	16	17
Number of Missing Observations	8	0
Number of Distinct Observations	16	16
Minimum	0.3	0.85
Maximum	3.38	8.51
Mean	1.062	2.105
Median	0.87	1.26
SD	0.826	1.958
SE of Mean	0.207	0.475

Wilcoxon-Mann-Whitney (WMW) Test

H0: Mean/Median of Sample 1 <= Mean/Median of Sample 2

Sample 1 Rank Sum W-Stat	193.5
WMW U-Stat	57.5
Mean (U)	136
SD(U) - Adj ties	27.75
WMW U-Stat Critical Value (0.05)	182
Standardized WMW U-Stat	-2.847
Approximate P-Value	0.998

Conclusion with Alpha = 0.05

Do Not Reject H0, Conclude Sample 1 <= Sample 2

Wilcoxon-Mann-Whitney Sample 1 vs Sample 2 Comparison Test for Uncensor Full Data Sets without NDs

User Selected Options	
Date/Time of Computation	9/17/2015 12:12:13 PM
From File	Round 11 RAW INPUT.xls
Full Precision	OFF
Confidence Coefficient	95%
Substantial Difference	0.000
Selected Null Hypothesis	Sample 1 Mean/Median <= Sample 2 Mean/Median (Form 1)
Alternative Hypothesis	Sample 1 Mean/Median > Sample 2 Mean/Median

Sample 1 Data: Cr(on-shallow)

Sample 2 Data: Cr(lc-shallow)

Raw Statistics

	Sample 1	Sample 2
Number of Valid Observations	58	17
Number of Distinct Observations	58	16
Minimum	14.7	55.8
Maximum	169	170
Mean	57.42	85.15
Median	52.7	76.3
SD	28.69	26.5
SE of Mean	3.767	6.428

Wilcoxon-Mann-Whitney (WMW) Test

H0: Mean/Median of Sample 1 <= Mean/Median of Sample 2

Sample 1 Rank Sum W-Stat	1953
Standardized WMW U-Stat	-3.183
Mean (U)	493
SD(U) - Adj ties	79.02
Approximate U-Stat Critical Value (0.05)	1.645
P-Value (Adjusted for Ties)	0.999

Conclusion with Alpha = 0.05

Do Not Reject H0, Conclude Sample 1 <= Sample 2

P-Value >= alpha (0.05)

Wilcoxon-Mann-Whitney Sample 1 vs Sample 2 Comparison Test for Uncensor Full Data Sets without NDs

User Selected Options	
Date/Time of Computation	9/17/2015 12:11:54 PM
From File	Round 11 RAW INPUT.xls
Full Precision	OFF
Confidence Coefficient	95%
Substantial Difference	0.000
Selected Null Hypothesis	Sample 1 Mean/Median <= Sample 2 Mean/Median (Form 1)
Alternative Hypothesis	Sample 1 Mean/Median > Sample 2 Mean/Median

Sample 1 Data: Cr(east-shallow)

Sample 2 Data: Cr(lc-shallow)

Raw Statistics

	Sample 1	Sample 2
Number of Valid Observations	14	17
Number of Distinct Observations	13	16
Minimum	11.9	55.8
Maximum	88.6	170
Mean	48.66	85.15
Median	60.8	76.3
SD	30.58	26.5
SE of Mean	8.172	6.428

Wilcoxon-Mann-Whitney (WMW) Test

H0: Mean/Median of Sample 1 <= Mean/Median of Sample 2

Sample 1 Rank Sum W-Stat	152.5
WMW U-Stat	47.5
Mean (U)	119
SD(U) - Adj ties	25.19
WMW U-Stat Critical Value (0.05)	160
Standardized WMW U-Stat	-2.859
Approximate P-Value	0.998

Conclusion with Alpha = 0.05

Do Not Reject H0, Conclude Sample 1 <= Sample 2

Wilcoxon-Mann-Whitney Sample 1 vs Sample 2 Comparison Test for Uncensor Full Data Sets without NDs

User Selected Options	
Date/Time of Computation	9/17/2015 12:11:21 PM
From File	Round 11 RAW INPUT.xls
Full Precision	OFF
Confidence Coefficient	95%
Substantial Difference	0.000
Selected Null Hypothesis	Sample 1 Mean/Median <= Sample 2 Mean/Median (Form 1)
Alternative Hypothesis	Sample 1 Mean/Median > Sample 2 Mean/Median

Sample 1 Data: Cr(west-shallow)

Sample 2 Data: Cr(lc-shallow)

Raw Statistics

	Sample 1	Sample 2
Number of Valid Observations	24	17
Number of Distinct Observations	23	16
Minimum	12	55.8
Maximum	86.6	170
Mean	29.8	85.15
Median	19.95	76.3
SD	21.41	26.5
SE of Mean	4.371	6.428

Wilcoxon-Mann-Whitney (WMW) Test

H0: Mean/Median of Sample 1 <= Mean/Median of Sample 2

Sample 1 Rank Sum W-Stat	327
Standardized WMW U-Stat	-4.698
Mean (U)	204
SD(U) - Adj ties	37.79
Approximate U-Stat Critical Value (0.05)	1.645
P-Value (Adjusted for Ties)	1

Conclusion with Alpha = 0.05

Do Not Reject H0, Conclude Sample 1 <= Sample 2

P-Value >= alpha (0.05)

Wilcoxon-Mann-Whitney Sample 1 vs Sample 2 Comparison Test for Uncensor Full Data Sets without NDs

User Selected Options	
Date/Time of Computation	9/17/2015 12:37:10 PM
From File	Round 11 RAW INPUT.xls
Full Precision	OFF
Confidence Coefficient	95%
Substantial Difference	0.000
Selected Null Hypothesis	Sample 1 Mean/Median <= Sample 2 Mean/Median (Form 1)
Alternative Hypothesis	Sample 1 Mean/Median > Sample 2 Mean/Median

Sample 1 Data: DEHP(on-shallow)

Sample 2 Data: DEHP(lc-shallow)

Raw Statistics

	Sample 1	Sample 2
Number of Valid Observations	31	14
Number of Missing Observations	27	3
Number of Distinct Observations	31	14
Minimum	0.307	1.53
Maximum	1870	278
Mean	92.16	24.01
Median	2.27	2.485
SD	345.3	73.36
SE of Mean	62.01	19.61

Wilcoxon-Mann-Whitney (WMW) Test

H0: Mean/Median of Sample 1 <= Mean/Median of Sample 2

Sample 1 Rank Sum W-Stat	672
Standardized WMW U-Stat	-1.017
Mean (U)	217
SD(U) - Adj ties	40.79
Approximate U-Stat Critical Value (0.05)	1.645
P-Value (Adjusted for Ties)	0.846

Conclusion with Alpha = 0.05

Do Not Reject H0, Conclude Sample 1 <= Sample 2

P-Value >= alpha (0.05)

Wilcoxon-Mann-Whitney Sample 1 vs Sample 2 Comparison Test for Uncensor Full Data Sets without NDs

User Selected Options	
Date/Time of Computation	9/17/2015 12:36:48 PM
From File	Round 11 RAW INPUT.xls
Full Precision	OFF
Confidence Coefficient	95%
Substantial Difference	0.000
Selected Null Hypothesis	Sample 1 Mean/Median <= Sample 2 Mean/Median (Form 1)
Alternative Hypothesis	Sample 1 Mean/Median > Sample 2 Mean/Median

Sample 1 Data: DEHP(east-shallow)

Sample 2 Data: DEHP(lc-shallow)

Raw Statistics

	Sample 1	Sample 2
Number of Valid Observations	13	14
Number of Missing Observations	1	3
Number of Distinct Observations	13	14
Minimum	0.33	1.53
Maximum	1.51	278
Mean	0.762	24.01
Median	0.77	2.485
SD	0.305	73.36
SE of Mean	0.0845	19.61

Wilcoxon-Mann-Whitney (WMW) Test

H0: Mean/Median of Sample 1 <= Mean/Median of Sample 2

Sample 1 Rank Sum W-Stat	91
WMW U-Stat	0
Mean (U)	91
SD(U) - Adj ties	20.61
WMW U-Stat Critical Value (0.05)	125
Standardized WMW U-Stat	-4.44
Approximate P-Value	1

Conclusion with Alpha = 0.05

Do Not Reject H0, Conclude Sample 1 <= Sample 2

Wilcoxon-Mann-Whitney Sample 1 vs Sample 2 Comparison Test for Uncensor Full Data Sets without NDs

User Selected Options	
Date/Time of Computation	9/17/2015 12:36:24 PM
From File	Round 11 RAW INPUT.xls
Full Precision	OFF
Confidence Coefficient	95%
Substantial Difference	0.000
Selected Null Hypothesis	Sample 1 Mean/Median <= Sample 2 Mean/Median (Form 1)
Alternative Hypothesis	Sample 1 Mean/Median > Sample 2 Mean/Median

Sample 1 Data: DEHP(west-shallow)

Sample 2 Data: DEHP(lc-shallow)

Raw Statistics

	Sample 1	Sample 2
Number of Valid Observations	4	14
Number of Missing Observations	20	3
Number of Distinct Observations	4	14
Minimum	0.42	1.53
Maximum	6.37	278
Mean	3.853	24.01
Median	4.31	2.485
SD	2.793	73.36
SE of Mean	1.397	19.61

Wilcoxon-Mann-Whitney (WMW) Test

H0: Mean/Median of Sample 1 <= Mean/Median of Sample 2

Sample 1 Rank Sum W-Stat	42
WMW U-Stat	32
Mean (U)	28
SD(U) - Adj ties	9.416
WMW U-Stat Critical Value (0.05)	44
Standardized WMW U-Stat	0.372
Approximate P-Value	0.355

Conclusion with Alpha = 0.05

Do Not Reject H0, Conclude Sample 1 <= Sample 2

t-Test Sample 1 vs Sample 2 Comparison for Uncensored Full Data Sets without NDs

User Selected Options	
Date/Time of Computation	9/17/2015 12:39:14 PM
From File	Round 11 RAW INPUT.xls
Full Precision	OFF
Confidence Coefficient	95%
Substantial Difference (S)	0.000
Selected Null Hypothesis	Sample 1 Mean <= Sample 2 Mean (Form 1)
Alternative Hypothesis	Sample 1 Mean > the Sample 2 Mean

Sample 1 Data: Ln(tEPH)(on-shallow)

Sample 2 Data: Ln(tEPH)(lc-shallow)

Raw Statistics

	Sample 1	Sample 2
Number of Valid Observations	39	14
Number of Missing Observations	19	3
Number of Distinct Observations	39	14
Minimum	2.839	4.593
Maximum	8.369	6.739
Mean	5.412	5.425
Median	5.181	5.286
SD	1.234	0.558
SE of Mean	0.198	0.149

Sample 1 vs Sample 2 Two-Sample t-Test

H0: Mean of Sample 1 - Mean of Sample 2 <= 0

		t-Test	Critical	
Method	DF	Value	t (0.05)	P-Value
Pooled (Equal Variance)	51	-0.038	1.675	0.515
Welch-Satterthwaite (Unequal Variance	48.1	-0.053	1.677	0.521

Pooled SD 1.102

Conclusion with Alpha = 0.050

Student t (Pooled) Test: Do Not Reject H0, Conclude Sample 1 <= Sample 2

Welch-Satterthwaite Test: Do Not Reject H0, Conclude Sample 1 <= Sample 2

Test of Equality of Variances

Variance of Sample 1	1.522		
Variance of Sample 2	0.311		

Numerator DF	Denominator DF	F-Test Value	P-Value
38	13	4.897	0.004

Conclusion with Alpha = 0.05

Two variances are not equal

t-Test Sample 1 vs Sample 2 Comparison for Uncensored Full Data Sets without NDs

User Selected Options	
Date/Time of Computation	9/17/2015 12:38:35 PM
From File	Round 11 RAW INPUT.xls
Full Precision	OFF
Confidence Coefficient	95%
Substantial Difference (S)	0.000
Selected Null Hypothesis	Sample 1 Mean <= Sample 2 Mean (Form 1)
Alternative Hypothesis	Sample 1 Mean > the Sample 2 Mean

Sample 1 Data: Ln(tEPH)(east-shallow)

Sample 2 Data: Ln(tEPH)(lc-shallow)

Raw Statistics

	Sample 1	Sample 2
Number of Valid Observations	9	14
Number of Missing Observations	5	3
Number of Distinct Observations	9	14
Minimum	2.901	4.593
Maximum	7.051	6.739
Mean	5.313	5.425
Median	5.209	5.286
SD	1.273	0.558
SE of Mean	0.424	0.149

Sample 1 vs Sample 2 Two-Sample t-Test

H0: Mean of Sample 1 - Mean of Sample 2 <= 0

		t-Test	Critical	
Method	DF	Value	t (0.05)	P-Value
Pooled (Equal Variance)	21	-0.291	1.721	0.613
Welch-Satterthwaite (Unequal Variance	10.0	-0.249	1.812	0.596

Pooled SD 0.900

Conclusion with Alpha = 0.050

Student t (Pooled) Test: Do Not Reject H0, Conclude Sample 1 <= Sample 2

Welch-Satterthwaite Test: Do Not Reject H0, Conclude Sample 1 <= Sample 2

Test of Equality of Variances

Variance of Sample 1	1.619
Variance of Sample 2	0.311

Numerator DF	Denominator DF	F-Test Value	P-Value
8	13	5.210	0.009

Conclusion with Alpha = 0.05

Two variances are not equal

t-Test Sample 1 vs Sample 2 Comparison for Uncensored Full Data Sets without NDs

User Selected Options	
Date/Time of Computation	9/17/2015 12:37:59 PM
From File	Round 11 RAW INPUT.xls
Full Precision	OFF
Confidence Coefficient	95%
Substantial Difference (S)	0.000
Selected Null Hypothesis	Sample 1 Mean <= Sample 2 Mean (Form 1)
Alternative Hypothesis	Sample 1 Mean > the Sample 2 Mean

Sample 1 Data: tEPH(west-shallow)

Sample 2 Data: tEPH(lc-shallow)

Raw Statistics

	Sample 1	Sample 2
Number of Valid Observations	6	14
Number of Missing Observations	18	3
Number of Distinct Observations	6	14
Minimum	47.7	98.8
Maximum	678.1	845
Mean	334.1	267.7
Median	278.6	197.6
SD	263.1	190.7
SE of Mean	107.4	50.96

Sample 1 vs Sample 2 Two-Sample t-Test

H0: Mean of Sample 1 - Mean of Sample 2 <= 0

		t-Test	Critical	
Method	DF	Value	t (0.05)	P-Value
Pooled (Equal Variance)	18	0.638	1.734	0.266
Welch-Satterthwaite (Unequal Variance	7.4	0.559	1.895	0.296

Pooled SD 213.272

Conclusion with Alpha = 0.050

Student t (Pooled) Test: Do Not Reject H0, Conclude Sample 1 <= Sample 2

Welch-Satterthwaite Test: Do Not Reject H0, Conclude Sample 1 <= Sample 2

Test of Equality of Variances

Variance of Sample 1	69217
Variance of Sample 2	36357

Numerator DF	Denominator DF	F-Test Value	P-Value
5	13	1.904	0.324

Conclusion with Alpha = 0.05

Two variances appear to be equal

Wilcoxon-Mann-Whitney Sample 1 vs Sample 2 Comparison Test for Uncensor Full Data Sets without NDs

User Selected Options	
Date/Time of Computation	9/17/2015 12:01:30 PM
From File	Round 11 RAW INPUT.xls
Full Precision	OFF
Confidence Coefficient	95%
Substantial Difference	0.000
Selected Null Hypothesis	Sample 1 Mean/Median <= Sample 2 Mean/Median (Form 1)
Alternative Hypothesis	Sample 1 Mean/Median > Sample 2 Mean/Median

Sample 1 Data: Hg(on-shallow)

Sample 2 Data: Hg(lc-shallow)

Raw Statistics

	Sample 1	Sample 2
Number of Valid Observations	58	17
Number of Distinct Observations	54	17
Minimum	0.221	0.095
Maximum	11.9	1.08
Mean	1.652	0.408
Median	0.996	0.256
SD	2.227	0.31
SE of Mean	0.292	0.0752

Wilcoxon-Mann-Whitney (WMW) Test

H0: Mean/Median of Sample 1 <= Mean/Median of Sample 2

Sample 1 Rank Sum W-Stat	2568
Standardized WMW U-Stat	4.594
Mean (U)	493
SD(U) - Adj ties	79.02
Approximate U-Stat Critical Value (0.05)	1.645
P-Value (Adjusted for Ties)	2.1767E-6

Conclusion with Alpha = 0.05

Reject H0, Conclude Sample 1 > Sample 2

P-Value < alpha (0.05)

t-Test Sample 1 vs Sample 2 Comparison for Uncensored Full Data Sets without NDs

User Selected Options	
Date/Time of Computation	9/17/2015 12:00:45 PM
From File	Round 11 RAW INPUT.xls
Full Precision	OFF
Confidence Coefficient	95%
Substantial Difference (S)	0.000
Selected Null Hypothesis	Sample 1 Mean <= Sample 2 Mean (Form 1)
Alternative Hypothesis	Sample 1 Mean > the Sample 2 Mean

Sample 1 Data: Ln(Hg)(east-shallow)

Sample 2 Data: Ln(Hg)(lc-shallow)

Raw Statistics

	Sample 1	Sample 2
Number of Valid Observations	14	17
Number of Distinct Observations	14	17
Minimum	-2.273	-2.354
Maximum	-0.317	0.077
Mean	-1.257	-1.169
Median	-1.371	-1.363
SD	0.642	0.763
SE of Mean	0.172	0.185

Sample 1 vs Sample 2 Two-Sample t-Test

H0: Mean of Sample 1 - Mean of Sample 2 <= 0

		t-Test	Critical	
Method	DF	Value	t (0.05)	P-Value
Pooled (Equal Variance)	29	-0.341	1.699	0.632
Welch-Satterthwaite (Unequal Variance	29.0	-0.347	1.699	0.635

Pooled SD 0.711

Conclusion with Alpha = 0.050

Student t (Pooled) Test: Do Not Reject H0, Conclude Sample 1 <= Sample 2

Welch-Satterthwaite Test: Do Not Reject H0, Conclude Sample 1 <= Sample 2

Test of Equality of Variances

Variance of Sample 1	0.413
Variance of Sample 2	0.582

Numerator DF	Denominator DF	F-Test Value	P-Value
16	13	1.410	0.538

Conclusion with Alpha = 0.05

Two variances appear to be equal

t-Test Sample 1 vs Sample 2 Comparison for Uncensored Full Data Sets without NDs

User Selected Options	
Date/Time of Computation	9/17/2015 12:00:06 PM
From File	Round 11 RAW INPUT.xls
Full Precision	OFF
Confidence Coefficient	95%
Substantial Difference (S)	0.000
Selected Null Hypothesis	Sample 1 Mean <= Sample 2 Mean (Form 1)
Alternative Hypothesis	Sample 1 Mean > the Sample 2 Mean

Sample 1 Data: Ln(Hg)(west-shallow)

Sample 2 Data: Ln(Hg)(lc-shallow)

Raw Statistics

	Sample 1	Sample 2
Number of Valid Observations	22	17
Number of Missing Observations	2	0
Number of Distinct Observations	22	17
Minimum	-2.313	-2.354
Maximum	0.0953	0.077
Mean	-0.813	-1.169
Median	-0.725	-1.363
SD	0.683	0.763
SE of Mean	0.146	0.185

Sample 1 vs Sample 2 Two-Sample t-Test

H0: Mean of Sample 1 - Mean of Sample 2 <= 0

		t-Test	Critical	
Method	DF	Value	t (0.05)	P-Value
Pooled (Equal Variance)	37	1.533	1.687	0.067
Welch-Satterthwaite (Unequal Variance	32.5	1.511	1.694	0.070

Pooled SD 0.719

Conclusion with Alpha = 0.050

Student t (Pooled) Test: Do Not Reject H0, Conclude Sample 1 <= Sample 2

Welch-Satterthwaite Test: Do Not Reject H0, Conclude Sample 1 <= Sample 2

Test of Equality of Variances

Variance of Sample 1	0.467
Variance of Sample 2	0.582

Numerator DF	Denominator DF	F-Test Value	P-Value
16	21	1.246	0.628

Conclusion with Alpha = 0.05

Two variances appear to be equal

Wilcoxon-Mann-Whitney Sample 1 vs Sample 2 Comparison Test for Uncensor Full Data Sets without NDs

User Selected Options	
Date/Time of Computation	9/17/2015 12:14:12 PM
From File	Round 11 RAW INPUT.xls
Full Precision	OFF
Confidence Coefficient	95%
Substantial Difference	0.000
Selected Null Hypothesis	Sample 1 Mean/Median <= Sample 2 Mean/Median (Form 1)
Alternative Hypothesis	Sample 1 Mean/Median > Sample 2 Mean/Median

Sample 1 Data: Ni(on-shallow)

Sample 2 Data: Ni(lc-shallow)

Raw Statistics

	Sample 1	Sample 2
Number of Valid Observations	58	17
Number of Distinct Observations	49	15
Minimum	3.5	16
Maximum	84.4	67.4
Mean	19.15	28.72
Median	16.15	25.1
SD	12.48	11.72
SE of Mean	1.639	2.843

Wilcoxon-Mann-Whitney (WMW) Test

H0: Mean/Median of Sample 1 <= Mean/Median of Sample 2

Sample 1 Rank Sum W-Stat	1877
Standardized WMW U-Stat	-4.151
Mean (U)	493
SD(U) - Adj ties	79.02
Approximate U-Stat Critical Value (0.05)	1.645
P-Value (Adjusted for Ties)	1

Conclusion with Alpha = 0.05

Do Not Reject H0, Conclude Sample 1 <= Sample 2

P-Value >= alpha (0.05)

Wilcoxon-Mann-Whitney Sample 1 vs Sample 2 Comparison Test for Uncensor Full Data Sets without NDs

User Selected Options	
Date/Time of Computation	9/17/2015 12:13:50 PM
From File	Round 11 RAW INPUT.xls
Full Precision	OFF
Confidence Coefficient	95%
Substantial Difference	0.000
Selected Null Hypothesis	Sample 1 Mean/Median <= Sample 2 Mean/Median (Form 1)
Alternative Hypothesis	Sample 1 Mean/Median > Sample 2 Mean/Median

Sample 1 Data: Ni(east-shallow)

Sample 2 Data: Ni(lc-shallow)

Raw Statistics

	Sample 1	Sample 2
Number of Valid Observations	14	17
Number of Distinct Observations	14	15
Minimum	6.28	16
Maximum	30.4	67.4
Mean	16.36	28.72
Median	17.85	25.1
SD	8.383	11.72
SE of Mean	2.24	2.843

Wilcoxon-Mann-Whitney (WMW) Test

H0: Mean/Median of Sample 1 <= Mean/Median of Sample 2

Sample 1 Rank Sum W-Stat	145.5
WMW U-Stat	40.5
Mean (U)	119
SD(U) - Adj ties	25.19
WMW U-Stat Critical Value (0.05)	160
Standardized WMW U-Stat	-3.137
Approximate P-Value	0.999

Conclusion with Alpha = 0.05

Do Not Reject H0, Conclude Sample 1 <= Sample 2

Wilcoxon-Mann-Whitney Sample 1 vs Sample 2 Comparison Test for Uncensor Full Data Sets without NDs

User Selected Options	
Date/Time of Computation	9/17/2015 12:13:29 PM
From File	Round 11 RAW INPUT.xls
Full Precision	OFF
Confidence Coefficient	95%
Substantial Difference	0.000
Selected Null Hypothesis	Sample 1 Mean/Median <= Sample 2 Mean/Median (Form 1)
Alternative Hypothesis	Sample 1 Mean/Median > Sample 2 Mean/Median

Sample 1 Data: Ni(west-shallow)

Sample 2 Data: Ni(lc-shallow)

Raw Statistics

	Sample 1	Sample 2
Number of Valid Observations	24	17
Number of Distinct Observations	22	15
Minimum	5.5	16
Maximum	29.9	67.4
Mean	10.97	28.72
Median	9.35	25.1
SD	6.332	11.72
SE of Mean	1.292	2.843

Wilcoxon-Mann-Whitney (WMW) Test

H0: Mean/Median of Sample 1 <= Mean/Median of Sample 2

Sample 1 Rank Sum W-Stat	326
Standardized WMW U-Stat	-4.724
Mean (U)	204
SD(U) - Adj ties	37.78
Approximate U-Stat Critical Value (0.05)	1.645
P-Value (Adjusted for Ties)	1

Conclusion with Alpha = 0.05

Do Not Reject H0, Conclude Sample 1 <= Sample 2

P-Value >= alpha (0.05)

Wilcoxon-Mann-Whitney Sample 1 vs Sample 2 Comparison Test for Uncensor Full Data Sets without NDs

User Selected Options	
Date/Time of Computation	9/17/2015 12:03:19 PM
From File	Round 11 RAW INPUT.xls
Full Precision	OFF
Confidence Coefficient	95%
Substantial Difference	0.000
Selected Null Hypothesis	Sample 1 Mean/Median <= Sample 2 Mean/Median (Form 1)
Alternative Hypothesis	Sample 1 Mean/Median > Sample 2 Mean/Median

Sample 1 Data: Pb(on-shallow)

Sample 2 Data: Pb(lc-shallow)

Raw Statistics

	Sample 1	Sample 2
Number of Valid Observations	58	17
Number of Distinct Observations	56	16
Minimum	42.7	161
Maximum	1210	770
Mean	338	268.8
Median	250.5	211
SD	260.5	151.9
SE of Mean	34.21	36.84

Wilcoxon-Mann-Whitney (WMW) Test

H0: Mean/Median of Sample 1 <= Mean/Median of Sample 2

Sample 1 Rank Sum W-Stat	2314
Standardized WMW U-Stat	1.386
Mean (U)	493
SD(U) - Adj ties	79.02
Approximate U-Stat Critical Value (0.05)	1.645
P-Value (Adjusted for Ties)	0.0829

Conclusion with Alpha = 0.05

Do Not Reject H0, Conclude Sample 1 <= Sample 2

P-Value >= alpha (0.05)

Wilcoxon-Mann-Whitney Sample 1 vs Sample 2 Comparison Test for Uncensor Full Data Sets without NDs

User Selected Options	
Date/Time of Computation	9/17/2015 12:02:47 PM
From File	Round 11 RAW INPUT.xls
Full Precision	OFF
Confidence Coefficient	95%
Substantial Difference	0.000
Selected Null Hypothesis	Sample 1 Mean/Median <= Sample 2 Mean/Median (Form 1)
Alternative Hypothesis	Sample 1 Mean/Median > Sample 2 Mean/Median

Sample 1 Data: Pb(east-shallow)

Sample 2 Data: Pb(lc-shallow)

Raw Statistics

	Sample 1	Sample 2
Number of Valid Observations	14	17
Number of Distinct Observations	14	16
Minimum	33.1	161
Maximum	237	770
Mean	141.1	268.8
Median	153.5	211
SD	69.13	151.9
SE of Mean	18.48	36.84

Wilcoxon-Mann-Whitney (WMW) Test

H0: Mean/Median of Sample 1 <= Mean/Median of Sample 2

Sample 1 Rank Sum W-Stat	152.5
WMW U-Stat	47.5
Mean (U)	119
SD(U) - Adj ties	25.18
WMW U-Stat Critical Value (0.05)	160
Standardized WMW U-Stat	-2.859
Approximate P-Value	0.998

Conclusion with Alpha = 0.05

Do Not Reject H0, Conclude Sample 1 <= Sample 2

Wilcoxon-Mann-Whitney Sample 1 vs Sample 2 Comparison Test for Uncensor Full Data Sets without NDs

User Selected Options	
Date/Time of Computation	9/17/2015 12:02:23 PM
From File	Round 11 RAW INPUT.xls
Full Precision	OFF
Confidence Coefficient	95%
Substantial Difference	0.000
Selected Null Hypothesis	Sample 1 Mean/Median <= Sample 2 Mean/Median (Form 1)
Alternative Hypothesis	Sample 1 Mean/Median > Sample 2 Mean/Median

Sample 1 Data: Pb(west-shallow)

Sample 2 Data: Pb(lc-shallow)

Raw Statistics

	Sample 1	Sample 2
Number of Valid Observations	24	17
Number of Distinct Observations	23	16
Minimum	9.2	161
Maximum	298	770
Mean	124.3	268.8
Median	119	211
SD	69.29	151.9
SE of Mean	14.14	36.84

Wilcoxon-Mann-Whitney (WMW) Test

H0: Mean/Median of Sample 1 <= Mean/Median of Sample 2

Sample 1 Rank Sum W-Stat	346.5
Standardized WMW U-Stat	-4.182
Mean (U)	204
SD(U) - Adj ties	37.78
Approximate U-Stat Critical Value (0.05)	1.645
P-Value (Adjusted for Ties)	1

Conclusion with Alpha = 0.05

Do Not Reject H0, Conclude Sample 1 <= Sample 2

P-Value >= alpha (0.05)

Wilcoxon-Mann-Whitney Sample 1 vs Sample 2 Comparison Test for Uncensor Full Data Sets without NDs

User Selected Options	
Date/Time of Computation	9/17/2015 12:22:12 PM
From File	Round 11 RAW INPUT.xls
Full Precision	OFF
Confidence Coefficient	95%
Substantial Difference	0.000
Selected Null Hypothesis	Sample 1 Mean/Median <= Sample 2 Mean/Median (Form 1)
Alternative Hypothesis	Sample 1 Mean/Median > Sample 2 Mean/Median

Sample 1 Data: tPAHs(on-shallow)

Sample 2 Data: tPAHs(lc-shallow)

Raw Statistics

	Sample 1	Sample 2
Number of Valid Observations	33	17
Number of Missing Observations	25	0
Number of Distinct Observations	33	17
Minimum	1.447	6.638
Maximum	30.64	173.9
Mean	9.063	25.76
Median	5.664	16.09
SD	8.184	39.38
SE of Mean	1.425	9.551

Wilcoxon-Mann-Whitney (WMW) Test

H0: Mean/Median of Sample 1 <= Mean/Median of Sample 2

Sample 1 Rank Sum W-Stat	665
Standardized WMW U-Stat	-3.625
Mean (U)	280.5
SD(U) - Adj ties	48.83
Approximate U-Stat Critical Value (0.05)	1.645
P-Value (Adjusted for Ties)	1

Conclusion with Alpha = 0.05

Do Not Reject H0, Conclude Sample 1 <= Sample 2

P-Value >= alpha (0.05)

Wilcoxon-Mann-Whitney Sample 1 vs Sample 2 Comparison Test for Uncensor Full Data Sets without NDs

User Selected Options	
Date/Time of Computation	9/17/2015 12:21:48 PM
From File	Round 11 RAW INPUT.xls
Full Precision	OFF
Confidence Coefficient	95%
Substantial Difference	0.000
Selected Null Hypothesis	Sample 1 Mean/Median <= Sample 2 Mean/Median (Form 1)
Alternative Hypothesis	Sample 1 Mean/Median > Sample 2 Mean/Median

Sample 1 Data: tPAHs(east-shallow)

Sample 2 Data: tPAHs(lc-shallow)

Raw Statistics

	Sample 1	Sample 2
Number of Valid Observations	10	17
Number of Missing Observations	4	0
Number of Distinct Observations	10	17
Minimum	0.019	6.638
Maximum	7.99	173.9
Mean	3.572	25.76
Median	3.477	16.09
SD	2.362	39.38
SE of Mean	0.747	9.551

Wilcoxon-Mann-Whitney (WMW) Test

H0: Mean/Median of Sample 1 <= Mean/Median of Sample 2

Sample 1 Rank Sum W-Stat	56
WMW U-Stat	1
Mean (U)	85
SD(U) - Adj ties	19.92
WMW U-Stat Critical Value (0.05)	118
Standardized WMW U-Stat	-4.243
Approximate P-Value	1

Conclusion with Alpha = 0.05

Do Not Reject H0, Conclude Sample 1 <= Sample 2

Wilcoxon-Mann-Whitney Sample 1 vs Sample 2 Comparison Test for Uncensor Full Data Sets without NDs

User Selected Options	
Date/Time of Computation	9/17/2015 12:21:23 PM
From File	Round 11 RAW INPUT.xls
Full Precision	OFF
Confidence Coefficient	95%
Substantial Difference	0.000
Selected Null Hypothesis	Sample 1 Mean/Median <= Sample 2 Mean/Median (Form 1)
Alternative Hypothesis	Sample 1 Mean/Median > Sample 2 Mean/Median

Sample 1 Data: tPAHs(west-shallow)

Sample 2 Data: tPAHs(lc-shallow)

Raw Statistics

	Sample 1	Sample 2
Number of Valid Observations	7	17
Number of Missing Observations	17	0
Number of Distinct Observations	7	17
Minimum	0.224	6.638
Maximum	17.52	173.9
Mean	7.732	25.76
Median	7.197	16.09
SD	6.088	39.38
SE of Mean	2.301	9.551

Wilcoxon-Mann-Whitney (WMW) Test

H0: Mean/Median of Sample 1 <= Mean/Median of Sample 2

Sample 1 Rank Sum W-Stat	51
WMW U-Stat	23
Mean (U)	59.5
SD(U) - Adj ties	15.75
WMW U-Stat Critical Value (0.05)	85
Standardized WMW U-Stat	-2.35
Approximate P-Value	0.991

Conclusion with Alpha = 0.05

Do Not Reject H0, Conclude Sample 1 <= Sample 2

t-Test Sample 1 vs Sample 2 Comparison for Uncensored Full Data Sets without NDs

User Selected Options	
Date/Time of Computation	9/17/2015 12:16:15 PM
From File	Round 11 RAW INPUT.xls
Full Precision	OFF
Confidence Coefficient	95%
Substantial Difference (S)	0.000
Selected Null Hypothesis	Sample 1 Mean <= Sample 2 Mean (Form 1)
Alternative Hypothesis	Sample 1 Mean > the Sample 2 Mean

Sample 1 Data: Ln(Ag)(on-shallow)

Sample 2 Data: Ln(Ag)(lc-shallow)

Raw Statistics

	Sample 1	Sample 2
Number of Valid Observations	51	16
Number of Missing Observations	7	1
Number of Distinct Observations	47	14
Minimum	-1.139	-0.186
Maximum	1.631	1.128
Mean	0.154	0.292
Median	0.207	0.195
SD	0.625	0.366
SE of Mean	0.0875	0.0914

Sample 1 vs Sample 2 Two-Sample t-Test

H0: Mean of Sample 1 - Mean of Sample 2 <= 0

		t-Test	Critical	
Method	DF	Value	t (0.05)	P-Value
Pooled (Equal Variance)	65	-0.838	1.669	0.797
Welch-Satterthwaite (Unequal Variance	44.0	-1.091	1.680	0.859

Pooled SD 0.575

Conclusion with Alpha = 0.050

Student t (Pooled) Test: Do Not Reject H0, Conclude Sample 1 <= Sample 2

Welch-Satterthwaite Test: Do Not Reject H0, Conclude Sample 1 <= Sample 2

Test of Equality of Variances

Variance of Sample 1	0.39
Variance of Sample 2	0.134

Numerator DF	Denominator DF	F-Test Value	P-Value
50	15	2.918	0.026

Conclusion with Alpha = 0.05

Two variances are not equal

t-Test Sample 1 vs Sample 2 Comparison for Uncensored Full Data Sets without NDs

User Selected Options	
Date/Time of Computation	9/17/2015 12:15:30 PM
From File	Round 11 RAW INPUT.xls
Full Precision	OFF
Confidence Coefficient	95%
Substantial Difference (S)	0.000
Selected Null Hypothesis	Sample 1 Mean <= Sample 2 Mean (Form 1)
Alternative Hypothesis	Sample 1 Mean > the Sample 2 Mean

Sample 1 Data: Ln(Ag)(east-shallow)

Sample 2 Data: Ln(Ag)(lc-shallow)

Raw Statistics

	Sample 1	Sample 2
Number of Valid Observations	7	16
Number of Missing Observations	7	1
Number of Distinct Observations	6	14
Minimum	-0.0943	-0.186
Maximum	0.747	1.128
Mean	0.169	0.292
Median	0.0862	0.195
SD	0.297	0.366
SE of Mean	0.112	0.0914

Sample 1 vs Sample 2 Two-Sample t-Test

H0: Mean of Sample 1 - Mean of Sample 2 <= 0

		t-Test	Critical	
Method	DF	Value	t (0.05)	P-Value
Pooled (Equal Variance)	21	-0.779	1.721	0.778
Welch-Satterthwaite (Unequal Variance	14.1	-0.848	1.761	0.795

Pooled SD 0.347

Conclusion with Alpha = 0.050

Student t (Pooled) Test: Do Not Reject H0, Conclude Sample 1 <= Sample 2

Welch-Satterthwaite Test: Do Not Reject H0, Conclude Sample 1 <= Sample 2

Test of Equality of Variances

Variance of Sample 1	0.0879
Variance of Sample 2	0.134

Numerator DF	Denominator DF	F-Test Value	P-Value
15	6	1.520	0.631

Conclusion with Alpha = 0.05

Two variances appear to be equal

t-Test Sample 1 vs Sample 2 Comparison for Uncensored Full Data Sets without NDs

User Selected Options	
Date/Time of Computation	9/17/2015 12:14:47 PM
From File	Round 11 RAW INPUT.xls
Full Precision	OFF
Confidence Coefficient	95%
Substantial Difference (S)	0.000
Selected Null Hypothesis	Sample 1 Mean <= Sample 2 Mean (Form 1)
Alternative Hypothesis	Sample 1 Mean > the Sample 2 Mean

Sample 1 Data: Ln(Ag)(west-shallow)

Sample 2 Data: Ln(Ag)(lc-shallow)

Raw Statistics

	Sample 1	Sample 2
Number of Valid Observations	21	16
Number of Missing Observations	3	1
Number of Distinct Observations	18	14
Minimum	-0.942	-0.186
Maximum	1.04	1.128
Mean	-0.0753	0.292
Median	-0.105	0.195
SD	0.542	0.366
SE of Mean	0.118	0.0914

Sample 1 vs Sample 2 Two-Sample t-Test

H0: Mean of Sample 1 - Mean of Sample 2 <= 0

		t-Test	Critical	
Method	DF	Value	t (0.05)	P-Value
Pooled (Equal Variance)	35	-2.331	1.690	0.987
Welch-Satterthwaite (Unequal Variance	34.6	-2.456	1.690	0.990

Pooled SD 0.474

Conclusion with Alpha = 0.050

Student t (Pooled) Test: Do Not Reject H0, Conclude Sample 1 <= Sample 2

Welch-Satterthwaite Test: Do Not Reject H0, Conclude Sample 1 <= Sample 2

Test of Equality of Variances

Variance of Sample 1	0.294
Variance of Sample 2	0.134

Numerator DF	Denominator DF	F-Test Value	P-Value
20	15	2.196	0.125

Conclusion with Alpha = 0.05

Two variances appear to be equal

Wilcoxon-Mann-Whitney Sample 1 vs Sample 2 Comparison Test for Uncensor Full Data Sets without NDs

User Selected Options	
Date/Time of Computation	9/17/2015 12:35:08 PM
From File	Round 11 RAW INPUT.xls
Full Precision	OFF
Confidence Coefficient	95%
Substantial Difference	0.000
Selected Null Hypothesis	Sample 1 Mean/Median <= Sample 2 Mean/Median (Form 1)
Alternative Hypothesis	Sample 1 Mean/Median > Sample 2 Mean/Median

Sample 1 Data: tPCBs(on-shallow)

Sample 2 Data: tPCBs(lc-shallow)

Raw Statistics

	Sample 1	Sample 2
Number of Valid Observations	35	14
Number of Missing Observations	23	3
Number of Distinct Observations	35	14
Minimum	0.0092	0.606
Maximum	113	15.22
Mean	4.76	2.413
Median	0.779	1.281
SD	18.96	3.789
SE of Mean	3.204	1.013

Wilcoxon-Mann-Whitney (WMW) Test

H0: Mean/Median of Sample 1 <= Mean/Median of Sample 2

Sample 1 Rank Sum W-Stat	802
Standardized WMW U-Stat	-1.627
Mean (U)	245
SD(U) - Adj ties	45.18
Approximate U-Stat Critical Value (0.05)	1.645
P-Value (Adjusted for Ties)	0.948

Conclusion with Alpha = 0.05

Do Not Reject H0, Conclude Sample 1 <= Sample 2

P-Value >= alpha (0.05)

Wilcoxon-Mann-Whitney Sample 1 vs Sample 2 Comparison Test for Uncensor Full Data Sets without NDs

User Selected Options	
Date/Time of Computation	9/17/2015 12:34:44 PM
From File	Round 11 RAW INPUT.xls
Full Precision	OFF
Confidence Coefficient	95%
Substantial Difference	0.000
Selected Null Hypothesis	Sample 1 Mean/Median <= Sample 2 Mean/Median (Form 1)
Alternative Hypothesis	Sample 1 Mean/Median > Sample 2 Mean/Median

Sample 1 Data: tPCBs(east-shallow)

Sample 2 Data: tPCBs(lc-shallow)

Raw Statistics

	Sample 1	Sample 2
Number of Valid Observations	11	14
Number of Missing Observations	3	3
Number of Distinct Observations	11	14
Minimum	0.117	0.606
Maximum	21.5	15.22
Mean	3.637	2.413
Median	1.437	1.281
SD	6.38	3.789
SE of Mean	1.924	1.013

Wilcoxon-Mann-Whitney (WMW) Test

H0: Mean/Median of Sample 1 <= Mean/Median of Sample 2

Sample 1 Rank Sum W-Stat	147
WMW U-Stat	81
Mean (U)	77
SD(U) - Adj ties	18.27
WMW U-Stat Critical Value (0.05)	107
Standardized WMW U-Stat	0.192
Approximate P-Value	0.424

Conclusion with Alpha = 0.05

Do Not Reject H0, Conclude Sample 1 <= Sample 2

Wilcoxon-Mann-Whitney Sample 1 vs Sample 2 Comparison Test for Uncensor Full Data Sets without NDs

User Selected Options	
Date/Time of Computation	9/17/2015 12:34:18 PM
From File	Round 11 RAW INPUT.xls
Full Precision	OFF
Confidence Coefficient	95%
Substantial Difference	0.000
Selected Null Hypothesis	Sample 1 Mean/Median <= Sample 2 Mean/Median (Form 1)
Alternative Hypothesis	Sample 1 Mean/Median > Sample 2 Mean/Median

Sample 1 Data: tPCBs(west-shallow)

Sample 2 Data: tPCBs(lc-shallow)

Raw Statistics

	Sample 1	Sample 2
Number of Valid Observations	4	14
Number of Missing Observations	20	3
Number of Distinct Observations	4	14
Minimum	0.071	0.606
Maximum	1.491	15.22
Mean	0.789	2.413
Median	0.796	1.281
SD	0.783	3.789
SE of Mean	0.391	1.013

Wilcoxon-Mann-Whitney (WMW) Test

H0: Mean/Median of Sample 1 <= Mean/Median of Sample 2

Sample 1 Rank Sum W-Stat	28
WMW U-Stat	18
Mean (U)	28
SD(U) - Adj ties	9.416
WMW U-Stat Critical Value (0.05)	44
Standardized WMW U-Stat	-1.115
Approximate P-Value	0.868

Conclusion with Alpha = 0.05

Do Not Reject H0, Conclude Sample 1 <= Sample 2

Wilcoxon-Mann-Whitney Sample 1 vs Sample 2 Comparison Test for Uncensor Full Data Sets without NDs

User Selected Options	
Date/Time of Computation	9/17/2015 12:18:18 PM
From File	Round 11 RAW INPUT.xls
Full Precision	OFF
Confidence Coefficient	95%
Substantial Difference	0.000
Selected Null Hypothesis	Sample 1 Mean/Median <= Sample 2 Mean/Median (Form 1)
Alternative Hypothesis	Sample 1 Mean/Median > Sample 2 Mean/Median

Sample 1 Data: V(on-shallow)

Sample 2 Data: V(lc-shallow)

Raw Statistics

	Sample 1	Sample 2
Number of Valid Observations	58	17
Number of Distinct Observations	56	17
Minimum	14.6	40.4
Maximum	354	484
Mean	62.31	102.1
Median	57.15	69.1
SD	44.59	103.9
SE of Mean	5.855	25.21

Wilcoxon-Mann-Whitney (WMW) Test

H0: Mean/Median of Sample 1 <= Mean/Median of Sample 2

Sample 1 Rank Sum W-Stat	1983
Standardized WMW U-Stat	-2.803
Mean (U)	493
SD(U) - Adj ties	79.02
Approximate U-Stat Critical Value (0.05)	1.645
P-Value (Adjusted for Ties)	0.997

Conclusion with Alpha = 0.05

Do Not Reject H0, Conclude Sample 1 <= Sample 2

P-Value >= alpha (0.05)

Wilcoxon-Mann-Whitney Sample 1 vs Sample 2 Comparison Test for Uncensor Full Data Sets without NDs

User Selected Options	
Date/Time of Computation	9/17/2015 12:17:33 PM
From File	Round 11 RAW INPUT.xls
Full Precision	OFF
Confidence Coefficient	95%
Substantial Difference	0.000
Selected Null Hypothesis	Sample 1 Mean/Median <= Sample 2 Mean/Median (Form 1)
Alternative Hypothesis	Sample 1 Mean/Median > Sample 2 Mean/Median

Sample 1 Data: V(east-shallow)

Sample 2 Data: V(lc-shallow)

Raw Statistics

	Sample 1	Sample 2
Number of Valid Observations	14	17
Number of Distinct Observations	14	17
Minimum	15.4	40.4
Maximum	105	484
Mean	53.05	102.1
Median	61.35	69.1
SD	32.53	103.9
SE of Mean	8.694	25.21

Wilcoxon-Mann-Whitney (WMW) Test

H0: Mean/Median of Sample 1 <= Mean/Median of Sample 2

Sample 1 Rank Sum W-Stat	173
WMW U-Stat	68
Mean (U)	119
SD(U) - Adj ties	25.19
WMW U-Stat Critical Value (0.05)	160
Standardized WMW U-Stat	-2.044
Approximate P-Value	0.98

Conclusion with Alpha = 0.05

Do Not Reject H0, Conclude Sample 1 <= Sample 2

Wilcoxon-Mann-Whitney Sample 1 vs Sample 2 Comparison Test for Uncensor Full Data Sets without NDs

User Selected Options	
Date/Time of Computation	9/17/2015 12:17:07 PM
From File	Round 11 RAW INPUT.xls
Full Precision	OFF
Confidence Coefficient	95%
Substantial Difference	0.000
Selected Null Hypothesis	Sample 1 Mean/Median <= Sample 2 Mean/Median (Form 1)
Alternative Hypothesis	Sample 1 Mean/Median > Sample 2 Mean/Median

Sample 1 Data: V(west-shallow)

Sample 2 Data: V(lc-shallow)

Raw Statistics

	Sample 1	Sample 2
Number of Valid Observations	24	17
Number of Distinct Observations	24	17
Minimum	15.4	40.4
Maximum	131	484
Mean	35.52	102.1
Median	25.45	69.1
SD	26.79	103.9
SE of Mean	5.468	25.21

Wilcoxon-Mann-Whitney (WMW) Test

H0: Mean/Median of Sample 1 <= Mean/Median of Sample 2

Sample 1 Rank Sum W-Stat	343
Standardized WMW U-Stat	-4.274
Mean (U)	204
SD(U) - Adj ties	37.79
Approximate U-Stat Critical Value (0.05)	1.645
P-Value (Adjusted for Ties)	1

Conclusion with Alpha = 0.05

Do Not Reject H0, Conclude Sample 1 <= Sample 2

P-Value >= alpha (0.05)

t-Test Sample 1 vs Sample 2 Comparison for Uncensored Full Data Sets without NDs

User Selected Options	
Date/Time of Computation	9/17/2015 12:19:48 PM
From File	Round 11 RAW INPUT.xls
Full Precision	OFF
Confidence Coefficient	95%
Substantial Difference (S)	0.000
Selected Null Hypothesis	Sample 1 Mean <= Sample 2 Mean (Form 1)
Alternative Hypothesis	Sample 1 Mean > the Sample 2 Mean

Sample 1 Data: Ln(Zn)(on-shallow)

Sample 2 Data: Ln(Zn)(lc-shallow)

Raw Statistics

	Sample 1	Sample 2
Number of Valid Observations	58	17
Number of Distinct Observations	52	17
Minimum	4.212	5.46
Maximum	7.115	6.426
Mean	5.655	5.849
Median	5.749	5.811
SD	0.611	0.27
SE of Mean	0.0802	0.0654

Sample 1 vs Sample 2 Two-Sample t-Test

H0: Mean of Sample 1 - Mean of Sample 2 <= 0

		t-Test	Critical	
Method	DF	Value	t (0.05)	P-Value
Pooled (Equal Variance)	73	-1.272	1.666	0.896
Welch-Satterthwaite (Unequal Variance	61.4	-1.879	1.670	0.968

Pooled SD 0.555

Conclusion with Alpha = 0.050

Student t (Pooled) Test: Do Not Reject H0, Conclude Sample 1 <= Sample 2

Welch-Satterthwaite Test: Do Not Reject H0, Conclude Sample 1 <= Sample 2

Test of Equality of Variances

Variance of Sample 1	0.373
Variance of Sample 2	0.0727

Numerator DF	Denominator DF	F-Test Value	P-Value
57	16	5.138	0.001

Conclusion with Alpha = 0.05

Two variances are not equal

t-Test Sample 1 vs Sample 2 Comparison for Uncensored Full Data Sets without NDs

User Selected Options	
Date/Time of Computation	9/17/2015 12:19:18 PM
From File	Round 11 RAW INPUT.xls
Full Precision	OFF
Confidence Coefficient	95%
Substantial Difference (S)	0.000
Selected Null Hypothesis	Sample 1 Mean <= Sample 2 Mean (Form 1)
Alternative Hypothesis	Sample 1 Mean > the Sample 2 Mean

Sample 1 Data: Ln(Zn)(east-shallow)

Sample 2 Data: Ln(Zn)(lc-shallow)

Raw Statistics

	Sample 1	Sample 2
Number of Valid Observations	14	17
Number of Distinct Observations	14	17
Minimum	3.564	5.46
Maximum	6.513	6.426
Mean	5.28	5.849
Median	5.633	5.811
SD	0.845	0.27
SE of Mean	0.226	0.0654

Sample 1 vs Sample 2 Two-Sample t-Test

H0: Mean of Sample 1 - Mean of Sample 2 <= 0

		t-Test	Critical	
Method	DF	Value	t (0.05)	P-Value
Pooled (Equal Variance)	29	-2.629	1.699	0.993
Welch-Satterthwaite (Unequal Variance	15.2	-2.421	1.753	0.986

Pooled SD 0.600

Conclusion with Alpha = 0.050

Student t (Pooled) Test: Do Not Reject H0, Conclude Sample 1 <= Sample 2

Welch-Satterthwaite Test: Do Not Reject H0, Conclude Sample 1 <= Sample 2

Test of Equality of Variances

Variance of Sample 1	0.715
Variance of Sample 2	0.0727

Numerator DF	Denominator DF	F-Test Value	P-Value
13	16	9.836	0.000

Conclusion with Alpha = 0.05

Two variances are not equal

t-Test Sample 1 vs Sample 2 Comparison for Uncensored Full Data Sets without NDs

User Selected Options	
Date/Time of Computation	9/17/2015 12:18:47 PM
From File	Round 11 RAW INPUT.xls
Full Precision	OFF
Confidence Coefficient	95%
Substantial Difference (S)	0.000
Selected Null Hypothesis	Sample 1 Mean <= Sample 2 Mean (Form 1)
Alternative Hypothesis	Sample 1 Mean > the Sample 2 Mean

Sample 1 Data: Ln(Zn)(west-shallow)

Sample 2 Data: Ln(Zn)(lc-shallow)

Raw Statistics

	Sample 1	Sample 2
Number of Valid Observations	24	17
Number of Distinct Observations	24	17
Minimum	3.395	5.46
Maximum	7.178	6.426
Mean	4.899	5.849
Median	4.89	5.811
SD	0.787	0.27
SE of Mean	0.161	0.0654

Sample 1 vs Sample 2 Two-Sample t-Test

H0: Mean of Sample 1 - Mean of Sample 2 <= 0

		t-Test	Critical	
Method	DF	Value	t (0.05)	P-Value
Pooled (Equal Variance)	39	-4.769	1.685	1.000
Welch-Satterthwaite (Unequal Variance	30.1	-5.479	1.697	1.000

Pooled SD 0.628

Conclusion with Alpha = 0.050

Student t (Pooled) Test: Do Not Reject H0, Conclude Sample 1 <= Sample 2

Welch-Satterthwaite Test: Do Not Reject H0, Conclude Sample 1 <= Sample 2

Test of Equality of Variances

Variance of Sample 1	0.619
Variance of Sample 2	0.0727

Numerator DF	Denominator DF	F-Test Value	P-Value
23	16	8.516	0.000

Conclusion with Alpha = 0.05

Two variances are not equal

APPENDIX J

HUMAN HEALTH SCREENING

APPENDIX J

SCREENING-LEVEL EVALUATION OF RISKS ASSOCIATED WITH SEDIMENT EXPOSURE – CURRENT CONDITIONS

GZA GeoEnvironmental, Inc. (GZA) conducted a screening-level evaluation of risks to human health associated with sediment exposure for the Water-Side portion of the Former Everett Staging Yard Site. This disposal site ("Site") is identified by Massachusetts Department of Environmental Protection (MassDEP) Release Tracking Number (RTN) 3-13341. This screening-level risk evaluation concluded that oil and/or hazardous material (OHM) in sediment would not pose significant risks to potential receptors (trespassers). The risk evaluation was conducted in accordance with the requirements of the Massachusetts Contingency Plan (MCP) and Guidance for Disposal Site Risk Characterization (1995 and 2002). This appendix presents the risk characterization methodology and the results of risk calculations for sediment exposure under current Site conditions.

1.00 HAZARD IDENTIFICATION AND EXPOSURE POINT CONCENTRATION

Under current conditions, the potential for human exposure to Site sediments is very low. The Site shoreline and inter-tidal areas are very difficult to access. Water and sediment quality of the area are highly degraded, and the area has poor aesthetic qualities. Shellfishing is prohibited in the Lower Mystic River adjacent to the Site. If human exposure were to occur, it would likely be an accidental event as there is nothing about this Site that would attract multiple visits. Nonetheless, for this screening-level evaluation, GZA in an extreme conservative approach assumed that trespassers would be exposed to inter-tidal sediments for 31 events per year. GZA assumed that there would be no exposure to sub-tidal sediment.

The Water-Side portion of the Site was delineated as discussed in Section 4.1 of the Supplemental Phase II Comprehensive Site Assessment (CSA) main text, and as shown on Figure 7. Most of the inter-tidal portion of the Site is located in the eastern third of the head of the Former Everett Staging Yard bay. Sediment samples used to develop Exposure Point Concentrations (EPCs) for this human health risk evaluation were the shallow (0'-2')[1] samples. This inter-tidal area has among the highest concentrations of the main Site contaminants (arsenic, lead, and mercury).

The shallow sediment data that were used for this screening-level risk evaluation are presented in Table J-1 All analytes detected in one or more sediment samples were conservatively assumed to be constituents of concern (COCs) for human receptors, and included in this risk evaluation. As a conservative approach, the maximum detected concentrations were used as the sediment EPCs for this screening-level risk evaluation. Multiple analytes were analyzed via more than one analytical method and the highest detected concentrations among the various analytical methods were used as the EPCs. The EPCs are listed in Table J-2.

[1] Sediment samples with sampling depth including at least a part of the top 2 feet were included in this risk evaluation.

2.00 POTENTIAL HUMAN RECEPTORS AND EXPOSURE PATHWAYS

Children ages 7 to 15 year were assumed to be the most sensitive group exposed to sediment at the Site. Trespassers were assumed to encounter sediment via dermal contact and incidental ingestion. The exposure assumptions used for trespassers are presented in Table J-3. The exposure assumptions were based on the MassDEP default or recommended values.

3.00 TOXICITY VALUES

Toxicity values for this screening-level risk evaluation were obtained from: (1) MassDEP (2014), Office of Research and Standards (ORS) and Bureau of Waste Site Cleanup, Risk-Based Levels for Soil and Groundwater 2014 MCP Standards Development; (2) U.S. Environmental Protection Agency (USEPA; 2015a), Integrated Risk Information System (IRIS) (an on-line database); (3) USEPA, Health Effects Assessment Summary Tables (HEAST; USEPA, 2011); or (4) USEPA (2015b), Peer Reviewed Toxicity Values for Superfund (PPRTV). These values are presented in Tables J-4 and J-5 for non-carcinogenic and carcinogenic effects, respectively. Relative absorption factors (RAFs) are from the MassDEP (2014) Risk-Based Levels for Soil and Groundwater 2014 MCP Standards Development, and are summarized in Table J-6.

4.00 RISK CALCULATION

GZA calculated risk estimates for trespassers and compared these estimates to the MCP risk limits. To evaluate non-cancer risks, a Hazard Quotient (HQ) is calculated. The HQ, a ratio of the receptor's quantified exposure to the "acceptable" level of exposure, provides a general indication of whether exposures are likely to result in adverse health effects, but does not represent the severity of effects associated with an exposure. To evaluate the non-cancer effects for each COC, the estimated average daily dose (ADD) or average daily exposure (ADE) is divided by the appropriate reference dose (RfD) or reference concentration (RfC) to yield an HQ:

$$HQ_{oral} \text{ or } HQ_{dermal} = \text{ADD (mg/kg-day)/RfD (mg/kg-day)}$$

For multiple constituent exposures, HQs are summed for all COCs to yield a Hazard Index (HI) for an individual exposure pathway. A cumulative HI is derived by summing the HIs for each exposure pathway for each receptor. A cumulative HI equal to or less than 1, the Cumulative Non-cancer Risk Limit, indicates that a receptor's exposure is equal to or less than the "acceptable" exposure level and it is considered unlikely that adverse health effects would occur. However, a cumulative HI greater than 1 does not imply that health impacts would necessarily be expected. The appropriateness of the exposure assumptions and the basis of the toxicity values used in calculation of the HI must also be considered. This approach assumes that toxic effects by different constituents are additive.

Cancer risks were evaluated as probabilities. The Excess Lifetime Cancer Risk (ELCR) estimate is considered to be an upper bound probability of the likelihood of developing cancer over a lifetime as a result of exposure to individual constituents. To assess excess lifetime cancer risks, the lifetime average daily doses (LADDs) or lifetime average daily exposures (LADEs) are multiplied by their respective cancer slope factors (CSFs) or unit risks to yield a COC-specific lifetime cancer risk estimate:

$$ELCR_{oral} \text{ or } ELCR_{dermal} = LADD \text{ (mg/kg-day)} \times CSF \text{ (mg/kg-day)}^{-1}$$

For multiple constituent exposures, COC-specific cancer risk estimates for specific exposure pathways are summed to yield a pathway-specific cancer risk estimate. A cumulative receptor cancer risk is calculated by summing pathway-specific ELCRs. The summation assumes that individual intakes are small. It also assumes independence of action by the constituents involved (i.e., there are no synergistic or antagonistic interactions, and all constituents have the same toxicological mechanism and endpoint).

The calculated cumulative receptor cancer risk estimates are compared to the Cumulative Cancer Risk Limit of 1×10^{-5} specified in the MCP. This level represents an incremental probability of one in 100,000 that an individual may develop cancer over his or her lifetime due to exposures to COCs at the Site.

Pathway-specific risk calculations for residents are presented in Table J-7 and Table J-8 and summarized in Table J-9. The risk estimates for trespassers do not exceed the applicable MCP risk limits, indicating residual OHM in sediment does not pose significant risks to trespassers.

5.00 CONCLUSION

The risk estimates for sediment exposure are summarized in Table J-9. The non-cancer and cancer risk estimates for the trespasser receptor group (HI = 0.44 and ELCR = 9.9×10^{-6}) do not exceed the MCP risk limits (i.e., Hazard Index equal to 1 and the MCP cancer risk limit of ELCR equal to one in one hundred thousand (1×10^{-5})).

Even if the HI and ELCR calculated for trespassers via soil exposure (i.e., HI[2] = 0.1~0.2 and ELCR 1×10^{-6}, as presented in the Phase II Comprehensive Site Assessment by GEI[3] in 2012) and the HI and ELCR calculated for trespassers via sediment exposure (i.e., HI = 0.44 and ELCR 9.9×10^{-6}, as shown in this screening-level risk evaluation) were summed to represent potential cumulative risks to trespassers via both soil and sediment exposure, the results would not exceed the MCP risk limits.

In summary, residual OHM in sediment does not pose significant risks to trespassers based on the screening-level risk evaluation.

6.00 REFERENCES

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[2] Subchronic HI =0.2 and chronic HI = 0.1 for the current use scenario.
[3] GEI Consultants, Inc.

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TABLES

TABLE J-1
SEDIMENT ANALYTICAL RESULTS
Everett Staging Yard
Everett, Massachusetts

Cas Number	Analyte	Sample ID / Date Sampled / Depth (ft)	GZ-214 0ft-0_5ft 3/30/2015 0-0.5	GZ-215 0ft-0_5ft 3/30/2015 0-0.5	GZ-215 0ft-3ft 3/30/2015 0-3	GZ-216 0ft-0_5ft 03/24/2015 0-0.5	GZ-220 0_5ft-2ft 3/30/2015 0.5-2	GZ-220 0ft-0_5ft 3/30/2015 0-0.5	GZ-221 0ft-0_5ft 3/30/2015 0-0.5	GZ-221 0ft-3ft 3/30/2015 0-3	GZ-222 0_5ft-2ft 3/30/2015 0.5-2	GZ-222 0ft-0_5ft 3/30/2015 0-0.5	GZ-223 0ft-0_5ft 3/30/2015 0-0.5	GZ-223 0ft-3ft 3/30/2015 0-3
TOC	Total Organic Carbon		39900	29800	9910	31800	56200	42800	40800	117000	-	57100	43200	47200
8260B VOC- Low Level														
630206	1,1,1,2-Tetrachloroethane		-	-	<0.0017	-	-	-	-	<0.0047	-	-	-	<0.0066
71556	1,1,1-Trichloroethane		-	-	<0.0017	-	-	-	-	<0.0047	-	-	-	<0.0066
79345	1,1,2,2-Tetrachloroethane		-	-	<0.0007	-	-	-	-	<0.0019	-	-	-	<0.0026
79005	1,1,2-Trichloroethane		-	-	<0.0017	-	-	-	-	<0.0047	-	-	-	<0.0066
75343	1,1-Dichloroethane		-	-	<0.0017	-	-	-	-	<0.0047	-	-	-	<0.0066
75354	1,1-Dichloroethene		-	-	<0.0017	-	-	-	-	<0.0047	-	-	-	<0.0066
563586	1,1-Dichloropropene		-	-	<0.0017	-	-	-	-	<0.0047	-	-	-	<0.0066
87616	1,2,3-Trichlorobenzene		-	-	<0.0017	-	-	-	-	<0.0047	-	-	-	<0.0066
96184	1,2,3-Trichloropropane		-	-	<0.0017	-	-	-	-	<0.0047	-	-	-	<0.0066
120821	1,2,4-Trichlorobenzene		-	-	<0.0017	-	-	-	-	<0.0047	-	-	-	<0.0066
95636	1,2,4-Trimethylbenzene		-	-	<0.0017	-	-	-	-	<0.0047	-	-	-	<0.0066
96128	1,2-Dibromo-3-Chloropropane		-	-	<0.0017	-	-	-	-	<0.0047	-	-	-	<0.0066
106934	1,2-Dibromoethane		-	-	<0.0017	-	-	-	-	<0.0047	-	-	-	<0.0066
95501	1,2-Dichlorobenzene		-	-	<0.0017	-	-	-	-	<0.0047	-	-	-	<0.0066
107062	1,2-Dichloroethane		-	-	<0.0017	-	-	-	-	<0.0047	-	-	-	<0.0066
78875	1,2-Dichloropropane		-	-	<0.0017	-	-	-	-	<0.0047	-	-	-	<0.0066
108678	1,3,5-Trimethylbenzene		-	-	<0.0017	-	-	-	-	<0.0047	-	-	-	<0.0066
541731	1,3-Dichlorobenzene		-	-	<0.0017	-	-	-	-	<0.0047	-	-	-	<0.0066
142289	1,3-Dichloropropane		-	-	<0.0017	-	-	-	-	<0.0047	-	-	-	<0.0066
106467	1,4-Dichlorobenzene		-	-	<0.0017	-	-	-	-	<0.0047	-	-	-	<0.0066
123911	1,4-Dioxane		-	-	<0.0348	-	-	-	-	<0.0939	-	-	-	<0.132
594207	2,2-Dichloropropane		-	-	<0.0017	-	-	-	-	<0.0047	-	-	-	<0.0066
78933	2-Butanone		-	-	<0.0035	-	-	-	-	0.0095	-	-	-	<0.0132
95498	2-Chlorotoluene		-	-	<0.0017	-	-	-	-	<0.0047	-	-	-	<0.0066
591786	2-Hexanone		-	-	<0.0035	-	-	-	-	<0.0094	-	-	-	<0.0132
106434	4-Chlorotoluene		-	-	<0.0017	-	-	-	-	<0.0047	-	-	-	<0.0066
99876	4-Isopropyltoluene		-	-	<0.0017	-	-	-	-	<0.0047	-	-	-	<0.0066
108101	4-Methyl-2-Pentanone		-	-	<0.0035	-	-	-	-	<0.0094	-	-	-	<0.0132
67641	Acetone		-	-	0.0171	-	-	-	-	0.0742	-	-	-	0.0716
71432	Benzene		-	-	<0.0017	-	-	-	-	<0.0047	-	-	-	<0.0066
108861	Bromobenzene		-	-	<0.0017	-	-	-	-	<0.0047	-	-	-	<0.0066
74975	Bromochloromethane		-	-	<0.0017	-	-	-	-	<0.0047	-	-	-	<0.0066
75274	Bromodichloromethane		-	-	<0.0017	-	-	-	-	<0.0047	-	-	-	<0.0066
75252	Bromoform		-	-	<0.0017	-	-	-	-	<0.0047	-	-	-	<0.0066
74839	Bromomethane		-	-	<0.0035	-	-	-	-	<0.0094	-	-	-	<0.0132
75150	Carbon Disulfide		-	-	0.0066	-	-	-	-	0.0083	-	-	-	0.0066
56235	Carbon Tetrachloride		-	-	<0.0017	-	-	-	-	<0.0047	-	-	-	<0.0066
108907	Chlorobenzene		-	-	<0.0017	-	-	-	-	<0.0047	-	-	-	<0.0066
75003	Chloroethane		-	-	<0.0035	-	-	-	-	<0.0094	-	-	-	<0.0132
67663	Chloroform		-	-	<0.0017	-	-	-	-	<0.0047	-	-	-	<0.0066
74873	Chloromethane		-	-	<0.0035	-	-	-	-	<0.0094	-	-	-	<0.0132
156592	cis-1,2-Dichloroethene		-	-	<0.0017	-	-	-	-	<0.0047	-	-	-	<0.0066
10061015	cis-1,3-Dichloropropene		-	-	<0.0017	-	-	-	-	<0.0047	-	-	-	<0.0066
124481	Dibromochloromethane		-	-	<0.0007	-	-	-	-	<0.0019	-	-	-	<0.0026
74953	Dibromomethane		-	-	<0.0017	-	-	-	-	<0.0047	-	-	-	<0.0066
75718	Dichlorodifluoromethane		-	-	<0.0035	-	-	-	-	<0.0094	-	-	-	<0.0132
60297	Diethyl Ether		-	-	<0.0017	-	-	-	-	<0.0047	-	-	-	<0.0066
108203	Di-isopropyl ether		-	-	<0.0017	-	-	-	-	<0.0047	-	-	-	<0.0066
637923	Ethyl tertiary-butyl ether		-	-	<0.0017	-	-	-	-	<0.0047	-	-	-	<0.0066
100414	Ethylbenzene		-	-	<0.0017	-	-	-	-	<0.0047	-	-	-	<0.0066
87683	Hexachlorobutadiene		-	-	<0.0017	-	-	-	-	<0.0047	-	-	-	<0.0066
98828	Isopropylbenzene		-	-	<0.0017	-	-	-	-	<0.0047	-	-	-	<0.0066
1634044	Methyl tert-Butyl Ether		-	-	<0.0017	-	-	-	-	<0.0047	-	-	-	<0.0066
75092	Methylene Chloride		-	-	<0.0035	-	-	-	-	<0.0094	-	-	-	<0.0132
91203	Naphthalene		-	-	<0.0017	-	-	-	-	<0.0047	-	-	-	<0.0066
104518	n-Butylbenzene		-	-	<0.0017	-	-	-	-	<0.0047	-	-	-	<0.0066
103651	n-Propylbenzene		-	-	<0.0017	-	-	-	-	<0.0047	-	-	-	<0.0066
135988	sec-Butylbenzene		-	-	<0.0017	-	-	-	-	<0.0047	-	-	-	<0.0066
100425	Styrene		-	-	<0.0017	-	-	-	-	<0.0047	-	-	-	<0.0066
98066	tert-Butylbenzene		-	-	<0.0017	-	-	-	-	<0.0047	-	-	-	<0.0066
994058	Tertiary-amyl methyl ether		-	-	<0.0017	-	-	-	-	<0.0047	-	-	-	<0.0066
127184	Tetrachloroethene		-	-	<0.0017	-	-	-	-	<0.0047	-	-	-	<0.0066
109999	Tetrahydrofuran		-	-	<0.0017	-	-	-	-	<0.0047	-	-	-	<0.0066
108883	Toluene		-	-	<0.0017	-	-	-	-	<0.0047	-	-	-	<0.0066
156605	trans-1,2-Dichloroethene		-	-	<0.0017	-	-	-	-	<0.0047	-	-	-	<0.0066
10061026	trans-1,3-Dichloropropene		-	-	<0.0017	-	-	-	-	<0.0047	-	-	-	<0.0066
79016	Trichloroethene		-	-	<0.0017	-	-	-	-	<0.0047	-	-	-	<0.0066
75694	Trichlorofluoromethane		-	-	<0.0017	-	-	-	-	<0.0047	-	-	-	<0.0066
75014	Vinyl Chloride		-	-	<0.0035	-	-	-	-	<0.0094	-	-	-	<0.0132
95476	Xylene O		-	-	<0.0017	-	-	-	-	<0.0047	-	-	-	<0.0066
179601231	Xylene P,M		-	-	<0.0035	-	-	-	-	<0.0094	-	-	-	<0.0132
1330207	Xylenes (Total)		-	-	<0.0035	-	-	-	-	<0.0094	-	-	-	<0.0132
8082A Polychlorinated Biphenyls (PCBs)			-	-	-									
12674112	Aroclor 1016		<0.0074	<0.0081	<0.0083	<0.0079	<0.0076	<0.0082	<0.0076	<0.0081	-	<0.0073	<0.0079	<0.0080
11104282	Aroclor 1221		<0.0074	<0.0081	<0.0083	<0.0079	<0.0076	<0.0082	<0.0076	<0.0081	-	<0.0073	<0.0079	<0.0080
11141165	Aroclor 1232		<0.0074	<0.0081	<0.0083	<0.0079	<0.0076	<0.0082	<0.0076	<0.0081	-	<0.0073	<0.0079	<0.0080
53469219	Aroclor 1242		<0.0074	<0.0081	<0.0083	<0.0079	<0.0076	<0.0082	<0.0076	<0.0081	-	<0.0073	<0.0079	<0.0080
12672296	Aroclor 1248		0.0924	0.122	<0.0083	0.256	<0.0076	0.115	0.608	0.0245	-	0.147	0.12	<0.0080
11097691	Aroclor 1254		0.247	0.435	<0.0083	0.343	<0.0076	0.348	0.823	0.0488	-	0.485	0.314	<0.0080
11096825	Aroclor 1260		0.0962	0.167	<0.0083	0.18	<0.0076	0.145	0.271	0.0196	-	0.144	0.1	<0.0080
37324235	Aroclor 1262		<0.0074	<0.0081	<0.0083	<0.0079	0.0092	<0.0082	<0.0076	<0.0081	-	<0.0073	<0.0079	<0.0080
11100144	Aroclor 1268		<0.0074	<0.0081	<0.0083	<0.0079	<0.0076	<0.0082	<0.0076	<0.0081	-	<0.0073	<0.0079	<0.0080
1336363	Total PCBs		0.4356	0.724	-	0.779	0.0092	0.608	1.702	0.0929	-	0.776	0.534	-
8270D SVOC														
120821	1,2,4-Trichlorobenzene		<0.329	<0.291	<0.215	<0.599	<0.718	<0.331	<0.345	<0.267	-	<0.302	<0.322	<0.330
95501	1,2-Dichlorobenzene		<0.329	<0.291	<0.215	<0.599	<0.718	<0.331	<0.345	<0.267	-	<0.302	<0.322	<0.330
541731	1,3-Dichlorobenzene		<0.329	<0.291	<0.215	<0.599	<0.718	<0.331	<0.345	<0.267	-	<0.302	<0.322	<0.330
106467	1,4-Dichlorobenzene		<0.329	<0.291	<0.215	<0.599	<0.718	<0.331	<0.345	<0.267	-	<0.302	<0.322	<0.330
95954	2,4,5-Trichlorophenol		<0.329	<0.291	<0.215	<0.599	<0.718	<0.331	<0.345	<0.267	-	<0.302	<0.322	<0.330
88062	2,4,6-Trichlorophenol		<0.329	<0.291	<0.215	<0.599	<0.718	<0.331	<0.345	<0.267	-	<0.302	<0.322	<0.330
120832	2,4-Dichlorophenol		<0.329	<0.291	<0.215	<0.599	<0.718	<0.331	<0.345	<0.267	-	<0.302	<0.322	<0.330
105679	2,4-Dimethylphenol		<0.329	<0.291	<0.215	<0.599	<0.718	<0.331	<0.345	<0.267	-	<0.302	<0.322	<0.330
51285	2,4-Dinitrophenol		<1.65	<1.46	<1.08	<3.00	<3.60	<1.66	<1.73	<1.34	-	<1.52	<1.61	<1.66
121142	2,4-Dinitrotoluene		<0.329	<0.291	<0.215	<0.599	<0.718	<0.331	<0.345	<0.267	-	<0.302	<0.322	<0.330
606202	2,6-Dinitrotoluene		<0.329	<0.291	<0.215	<0.599	<0.718	<0.331	<0.345	<0.267	-	<0.302	<0.322	<0.330
91587	2-Chloronaphthalene		<0.329	<0.291	<0.215	<0.599	<0.718	<0.331	<0.345	<0.267	-	<0.302	<0.322	<0.330
95578	2-Chlorophenol		<0.329	<0.291	<0.215	<0.599	<0.718	<0.331	<0.345	<0.267	-	<0.302	<0.322	<0.330
95487	2-Methylphenol		<0.329	<0.291	<0.215	<0.599	<0.718	<0.331	<0.345	<0.267	-	<0.302	<0.322	<0.330
88755	2-Nitrophenol		<0.329	<0.291	<0.215	<0.599	<0.718	<0.331	<0.345	<0.267	-	<0.302	<0.322	<0.330
91941	3,3´-Dichlorobenzidine		<0.659	<0.583	<0.431	<1.20	<1.44	<0.663	<0.692	<0.535	-	<0.606	<0.645	<0.661
106445	3+4-Methylphenol		<0.659	<0.583	<0.431	<1.20	<1.44	<0.663	<0.692	<0.535	-	<0.606	<0.645	<0.661
101553	4-Bromophenyl-phenylether		<0.329	<0.291	<0.215	<0.599	<0.718	<0.331	<0.345	<0.267	-	<0.302	<0.322	<0.330
106478	4-Chloroaniline		<0.659	<0.583	<0.431	<1.20	<1.44	<0.663	<0.692	<0.535	-	<0.606	<0.645	<0.661
100027	4-Nitrophenol		<1.65	<1.46	<1.08	<3.00	<3.60	<1.66	<1.73	<1.34	-	<1.52	<1.61	<1.66
98862	Acetophenone		<0.659	<0.583	<0.431	<1.20	<1.44	<0.663	<0.692	<0.535	-	<0.606	<0.645	<0.661
62533	Aniline		<1.65	<1.46	<1.08	<3.00	<3.60	<1.66	<1.73	<1.34	-	<1.52	<1.61	<1.66
103333	Azobenzene		<0.329	<0.291	<0.215	<0.599	<0.718	<0.331	<0.345	<0.267	-	<0.302	<0.322	<0.330
111911	bis(2-Chloroethoxy)methane		<0.329	<0.291	<0.215	<0.599	<0.718	<0.331	<0.345	<0.267	-	<0.302	<0.322	<0.330
111444	bis(2-Chloroethyl)ether		<0.329	<0.291	<0.215	<0.599	<0.718	<0.331	<0.345	<0.267	-	<0.302	<0.322	<0.330
39638329	bis(2-chloroisopropyl)Ether		<0.329	<0.291	<0.215	<0.599	<0.718	<0.331	<0.345	<0.267	-	<0.302	<0.322	<0.330
117817	bis(2-Ethylhexyl)phthalate		0.874	1.1	<0.215	7.28	<0.718	1.5	2.11	<0.267	-	1.33	1.34	<0.330
85687	Butylbenzylphthalate		<0.329	<0.291	<0.215	<0.599	<0.718	<0.331	<0.345	<0.267	-	<0.302	<0.322	<0.330
132649	Dibenzofuran		<0.329	<0.291	<0.215	<0.599	<0.718	<0.331	<0.345	<0.267	-	<0.302	<0.322	<0.330
84662	Diethylphthalate		<0.329	<0.291	<0.215	<0.599	<0.718	<0.331	<0.345	<0.267	-	<0.302	<0.322	<0.330
131113	Dimethylphthalate		<0.329	<0.291	<0.215	<0.599	<0.718	<0.331	<0.345	<0.267	-	<0.302	<0.322	<0.330
84742	Di-n-butylphthalate		<0.329	<0.291	<0.215	<0.599	<0.718	<0.331	<0.345	<0.267	-	<0.302	<0.322	<0.330
117840	Di-n-octylphthalate		<0.329	<0.291	<0.215	<0.599	<0.718	<0.331	<0.345	<0.267	-	<0.302	<0.322	<0.330
87683	Hexachlorobutadiene		<0.329	<0.291	<0.215	<0.599	<0.718	<0.331	<0.345	<0.267	-	<0.302	<0.322	<0.330
67721	Hexachloroethane		<0.329	<0.291	<0.215	<0.599	<0.718	<0.331	<0.345	<0.267	-	<0.302	<0.322	<0.330
78591	Isophorone		<0.329	<0.291	<0.215	<0.599	<0.718	<0.331	<0.345	<0.267	-	<0.302	<0.322	<0.330
98953	Nitrobenzene		<0.329	<0.291	<0.215	<0.599	<0.718	<0.331	<0.345	<0.267	-	<0.302	<0.322	<0.330
62759	N-Nitrosodimethylamine		<0.329	<0.291	<0.215	<0.599	<0.718	<0.331	<0.345	<0.267	-	<0.302	<0.322	<0.330
87865	Pentachlorophenol		<1.65	<1.46	<1.08	<3.00	<3.60	<1.66	<1.73	<1.34	-	<1.52	<1.61	<1.66
108952	Phenol		<0.329	<0.291	<0.215	<0.599	<0.718	<0.331	<0.345	<0.267	-	<0.302	<0.322	<0.330

TABLE J-1
SEDIMENT ANALYTICAL RESULTS
Everett Staging Yard
Everett, Massachusetts

Cas Number	Analyte / Sample ID / Date Sampled / Depth (ft)	GZ-214 0ft-0_5ft 3/30/2015 0-0.5	GZ-215 0ft-0_5ft 3/30/2015 0-0.5	GZ-215 0ft-3ft 3/30/2015 0-3	GZ-216 0ft-0_5ft 03/24/2015 0-0.5	GZ-220 0_5ft-2ft 3/30/2015 0.5-2	GZ-220 0ft-0_5ft 3/30/2015 0-0.5	GZ-221 0ft-0_5ft 3/30/2015 0-0.5	GZ-221 0ft-3ft 3/30/2015 0-3	GZ-222 0_5ft-2ft 3/30/2015 0.5-2	GZ-222 0ft-0_5ft 3/30/2015 0-0.5	GZ-223 0ft-0_5ft 3/30/2015 0-0.5	GZ-223 0ft-3ft 3/30/2015 0-3
8270D (SIM) Polycyclic Aromatic Hydrocarbons (PAH)													
91576	2-Methylnaphthalene	0.049	0.03	-	0.049	0.423	<0.025	<0.026	-	0.029	0.025	0.09	-
83329	Acenaphthene	0.194	0.039	-	0.039	0.271	0.039	0.027	-	0.021	0.026	0.241	-
208968	Acenaphthylene	0.14	0.081	-	0.149	0.925	0.077	0.083	-	0.198	0.104	0.183	-
120127	Anthracene	0.346	0.161	-	0.24	1.74	0.138	0.107	-	0.25	0.142	0.557	-
56553	Benzo(a)anthracene	0.677	0.327	-	0.442	2.15	0.268	0.269	-	0.425	0.347	1.09	-
50328	Benzo(a)pyrene	0.804	0.382	-	0.497	2.18	0.339	0.359	-	0.452	0.45	1.25	-
205992	Benzo(b)fluoranthene	1.02	0.512	-	0.594	3.36	0.471	0.507	-	0.527	0.673	1.84	-
191242	Benzo(g,h,i)perylene	0.402	0.217	-	0.419	0.902	0.162	0.298	-	0.164	0.216	0.853	-
207089	Benzo(k)fluoranthene	0.322	0.145	-	0.205	0.693	0.121	0.137	-	0.171	0.174	0.52	-
218019	Chrysene	0.722	0.371	-	0.587	2.33	0.34	0.345	-	0.518	0.439	1.17	-
53703	Dibenzo(a,h)Anthracene	0.131	0.06	-	0.104	0.385	0.052	0.071	-	0.067	0.063	0.239	-
206440	Fluoranthene	1.33	0.695	-	0.59	5.89	0.602	0.578	-	0.914	0.652	2.21	-
86737	Fluorene	0.143	0.053	-	0.104	0.378	0.049	0.037	-	0.049	0.045	0.316	-
118741	Hexachlorobenzene	<0.024	<0.021	-	<0.018	<0.027	<0.025	<0.026	-	<0.019	<0.022	<0.024	-
193395	Indeno(1,2,3-cd)Pyrene	0.517	0.265	-	0.435	1.24	0.209	0.32	-	0.216	0.27	1.03	-
91203	Naphthalene	0.2	0.13	-	0.184	1.41	0.105	0.083	-	0.086	0.082	0.26	-
85018	Phenanthrene	0.812	0.445	-	0.248	1.19	0.362	0.279	-	0.161	0.299	1.94	-
129000	Pyrene	1.21	0.654	-	1.07	5.17	0.58	0.564	-	0.81	0.609	2.26	-
EPH													
C11C22Arom	C11-C22 Aromatics	101	37.6	17.1	199	179	100	133	130	-	65.5	56.7	77.6
C19C36Aliph	C19-C36 Aliphatics	117	64.9	<16.2	124	58.4	130	110	84.3	-	77.9	68.3	38.4
C9C18Aliph	C9-C18 Aliphatics	26.1	<21.6	<16.2	29.4	<26.6	25.9	<25.9	23.8	-	<22.2	<24.0	<24.9
Metals													
7440360	Antimony	<3.97	<4.13	<4.08	<1.09	<3.94	<4.20	<4.08	<4.18	<3.65	<3.70	<4.03	<3.70
7440382	Arsenic	43.7	45.8	8.17	52.2	210	45.8	37.9	135	48.4	28	35.6	137
7440393	Barium	42.7	30.9	21.3	43.7	59.3	48.4	36	77.6	37.5	32.7	38.5	91.5
7440417	Beryllium	0.35	0.34	0.23	0.4	0.52	0.4	0.37	0.54	0.54	0.29	0.32	0.67
7440439	Cadmium	0.42	0.53	0.92	0.66	2.76	0.52	0.43	1.96	0.41	<0.37	<0.40	1.58
7440473	Chromium	38	37.1	14.7	55.5	44.4	49.5	46.6	91.4	31.5	38.6	43.2	62.7
7439921	Lead	263	234	42.7	268	582	317	197	703	175	192	250	1120
7439976	Mercury	0.847	0.982	0.221	0.467	3.46	1.05	0.892	4.41	1.31	0.779	0.974	11.9
7440020	Nickel	19.2	15.3	7.87	18	11.8	15.7	14.9	13.4	14.9	12.1	12.9	16.5
7782492	Selenium	<7.94	<8.26	<8.16	5.19	65.4	<8.40	<8.16	30.7	27.7	<7.41	<8.06	63.6
7440224	Silver	0.65	0.54	<0.41	0.89	1.17	0.83	0.63	0.66	<0.36	0.47	0.49	0.53
7440280	Thallium	<0.32	<0.33	<0.33	<0.35	<0.31	<0.34	<0.33	<0.33	<0.29	<0.30	<0.32	<0.30
7440622	Vanadium	56.8	53.2	22.6	65.8	45.2	59.3	63.4	38.7	34.9	48.8	49.7	45.5
7440666	Zinc	205	227	406	265	547	266	214	624	169	180	227	462

Notes:
1. Concentrations are presented in units of milligrams per kilogram (mg/kg) or parts per million (ppm).
2. <= less than listed laboratory reporting limits (RLs).
3. "-" = Not analyzed for the compound/parameter.

VOC = Volatile Organic Compound; SVOC = Semi-volatile Organic Compound
EPH = Extractable Petroleum Hydrocarbon; SIM=Selective Ion Monitoring

TABLE J-2
SUMMARY OF EXPOSURE POINT CONCENTRATIONS
Everett Staging Yard
Everett, Massachusetts

COC	EPC1 Maximum Detected Concentration in Sediment[a] (mg/kg)
2-Butanone	0.012
Acetone	0.43
Carbon Disulfide	0.014
2-Methylnaphthalene	0.42
Acenaphthene	0.27
Acenaphthylene	1.3
Anthracene	1.7
Benzo(a)Anthracene	2.9
Benzo(a)Pyrene	2.3
Benzo(b)Fluoranthene	3.4
Benzo(g,h,i)Perylene	1.0
Benzo(k)Fluoranthene	0.69
Bis(2-Ethylhexyl)phthalate	7.3
Chrysene	3.5
Dibenzo(a,h)anthracene	0.40
Fluoranthene	5.9
Fluorene	0.38
Indeno(1,2,3-cd)Pyrene	1.2
Naphthalene	1.4
Phenanthrene	1.9
Pyrene	5.4
C11-C22 Aromatic Fraction	217
C19-C36 Aliphatic Fraction	188
C9-C18 Aliphatic Fraction	59
Aroclor - 1248	0.61
Aroclor - 1254	0.82
Aroclor - 1260	0.31
Aroclor - 1262	0.0092
Antimony	2.3
Arsenic	210
Barium	92
Beryllium	0.67
Cadmium	3.4
Chromium (total)	91
Lead	1210
Mercury	12
Nickel	84
Selenium	67
Silver	4.1
Vanadium	66
Zinc	1150

Note:
a. The sediment exposure point concentration (EPC) is based on the maximum detected concentration from all sediment samples listed in Table J-1.

Abbreviations:
COC = constituent of concern.

TABLE J-3
TRESPASSER EXPOSURE PROFILE
Everett Staging Yard
Everett, Massachusetts

Equations Used to Calculate Average Daily Dose (ADD) and Lifetime Average Daily Dose (LADD)

EXPOSURE PATHWAY: Dermal Contact with Sediment

$$ADD_{dermal} = \frac{EPC_{sediment} * DCR * EF * ED * EP * RAF_{dermal\text{-}nc} * C1}{BW * AP_{nc}} \quad \text{Equation 5}$$

$$LADD_{dermal} = \frac{EPC_{sediment} * DCR * EF * ED * EP * RAF_{dermal\text{-}c} * C1}{BW * AP_{c}} \quad \text{Equation 6}$$

Parameter	Definition	Units	Youth (ages 7-15)	Rationale/Reference
ADD_{dermal}	Average Daily Dose	mg/kg-day	calculated	Equation 5
$LADD_{dermal}$	Lifetime Average Daily Dose	mg/kg-day	calculated	Equation 6
$EPC_{sediment}$	Exposure Point Concentration in Sediment	mg/kg	TABLE J-2	See Text
DCR	Dermal Contact Rate	mg/day	2928	DCR is the body part specific skin surface area (SA) multiplied by the adherence factor (AF). Body parts assumed to be exposed are hands (SA = 791 cm^2), forearms (1,002 cm^2), and feet (SA = 1,135 cm^2), obtained from the Trespasser scenario presented in MassDEP, April 2002, Technical Update. The AF for sediment was conservatively assumed to be 1mg/cm^2.
EF	Exposure Frequency	events/year	31	1 day per week during the non-winter months of April through October
ED	Exposure Duration	days/event	1	MassDEP, 1995
EP	Exposure Period	years	8	interval for age group
RAF_{dermal}	Relative Absorption Factor	unitless	chemical-specific	TABLE J-6
C1	conversion factor for units	kg/mg	1E-06	Constant
BW	Body Weight of Receptor	kg	38	Mean body weight for females in the identified age group
AP_{nc}	Averaging Period, non-cancer	days	2,920	Equals EP * 365 days/year
AP_c	Averaging Period, cancer	days	25,550	Equals average lifetime, 70 years * 365 days/year

Abbreviation:
MassDEP = Massachusetts Department of Environmental Protection.

TABLE J-3
TRESPASSER EXPOSURE PROFILE
Everett Staging Yard
Everett, Massachusetts

Equations Used to Calculate Average Daily Dose (ADD) and Lifetime Average Daily Dose (LADD)

EXPOSURE PATHWAY: Ingestion of Sediment

$$ADD_{oral} = \frac{EPC_{sediment} * IR_{sediment} * EF * ED * EP * RAF_{oral\text{-}nc} * C1}{BW * AP_{nc}} \quad \text{Equation 7}$$

$$LADD_{oral} = \frac{EPC_{sediment} * IR_{sediment} * EF * ED * EP * RAF_{oral\text{-}c} * C1}{BW * AP_{c}} \quad \text{Equation 8}$$

Parameter	Definition	Units	Youth (ages 7-15)	Rationale/Reference
ADD_{oral}	Average Daily Dose	mg/kg-day	calculated	Equation 7
$LADD_{oral}$	Lifetime Average Daily Dose	mg/kg-day	calculated	Equation 8
$EPC_{sediment}$	Exposure Point Concentration in Sediment	mg/kg	TABLE J-2	See Text
$IR_{sediment}$	Sediment Ingestion Rate	mg/day	50	MassDEP, 1995
EF	Exposure Frequency	events/year	31	1 day per week during the non-winter months of April through October
ED	Exposure Duration	days/event	1	MassDEP, 1995
EP	Exposure Period	years	8	interval for age group
RAF_{oral}	Relative Absorption Factor	unitless	chemical-specific	TABLE J-6
C1	conversion factor for units	kg/mg	1E-06	Constant
BW	Body Weight of Receptor	kg	38	Mean body weight for females in the identified age group
AP_{nc}	Averaging Period, non-cancer	days	2,920	Equals EP * 365 days/year
AP_{c}	Averaging Period, cancer	days	25,550	Equals average lifetime, 70 years * 365 days/year

Abbreviation:
MassDEP = Massachusetts Department of Environmental Protection.

TABLE J-4
SUMMARY OF DOSE-RESPONSE INFORMATION - NONCARCINOGENIC EFFECTS - ORAL
Everett Staging Yard
Everett, Massachusetts

COC	Oral Subchronic Reference Dose (mg/kg-day)		Oral Chronic Reference Dose (mg/kg-day)		Chronic Oral RfD UF X MF	Target Organ/System	Critical Effect	Study Animal	Study Method
2-Butanone	0.6	d	0.6	a	1000 x 1	fetus	decreased fetal birth weight	rat	oral-drinking water
Acetone	2.7	c	0.9	a	1000 x 1	liver, kidney	increased liver and kidney weights and nephrotoxicity	rat	oral-gavage
Carbon Disulfide	0.1	b	0.1	a	100 x 1	fetus	fetal toxicity/malformations	rabbit	inhalation
2-Methylnaphthalene	0.004	d	0.004	a	1000x1	lung	Pulmonary alveolar proteinosis	mouse	oral-diet
Acenaphthene	0.2	g	0.06	a	3000 x 1	liver	hepatoxicity	mouse	oral-gavage
Acenaphthylene	0.3	f	0.03	f					
Anthracene	1	g	0.3	a	3000 x 1	NA	no observed effects	mouse	oral-gavage
Benzo(a)Anthracene	0.3	f	0.03	f					
Benzo(a)Pyrene	0.3	f	0.03	f					
Benzo(b)Fluoranthene	0.3	f	0.03	f					
Benzo(g,h,i)Perylene	0.3	f	0.03	f					
Benzo(k)Fluoranthene	0.3	f	0.03	f					
Bis(2-Ethylhexyl)phthalate	0.02	d	0.02	a	1000 x 1	liver	increased relative liver weight	guinea pig	oral-diet
Chrysene	0.3	f	0.03	f					
Dibenzo(a,h)anthracene	0.3	f	0.03	f					
Fluoranthene	0.4	b	0.04	a	3000 x 1	kidney, liver	nephropathy, increased liver weights, hematological alterations	mouse	oral-gavage
Fluorene	0.4	b	0.04	a	3000 x 1	blood	decreased red blood cell and hemoglobin	mouse	oral-gavage
Indeno(1,2,3-cd)Pyrene	0.3	f	0.03	f					
Naphthalene	0.2	c	0.02	a	3000 x 1	whole body	decreased body weight	rat	oral-gavage
Phenanthrene	0.3	f	0.03	f					
Pyrene	0.3	b,g	0.03	a	3000 x 1	kidney	tubular pathology, decreased organ weight	mouse	oral-gavage
C11-C22 Aromatic Fraction	0.3	f	0.03	f					
C19-C36 Aliphatic Fraction	6	f	2	f					
C9-C18 Aliphatic Fraction	1	f	0.1	f					
Aroclor - 1248	0.00005	m	0.00002	m	300 x 1	eye, nails, immune system	ocular exudate, inflamed Meibomian glands, distorted nail growth	monkey	oral-capsule
Aroclor - 1254	0.00005	b	0.00002	a	300 x 1	eye, nails, immune system	ocular exudate, inflamed Meibomian glands, distorted nail growth	monkey	oral-capsule
Aroclor - 1260	0.00005	m	0.00002	m	300 x 1	eye, nails, immune system	ocular exudate, inflamed Meibomian glands, distorted nail growth	monkey	oral-capsule
Aroclor - 1262	0.00005	m	0.00002	m	300 x 1	eye, nails, immune system	ocular exudate, inflamed Meibomian glands, distorted nail growth	monkey	oral-capsule
Antimony	0.0004	b	0.0004	a	1000 x 1	blood	longevity, blood glucose, and cholesterol	rat	oral
Arsenic	0.0003	d	0.0003	a	3 x 1	skin	hyperpigmentation and keratosis	human	oral-diet
Barium	0.07	b	0.2	a	3 x 1	NA	no adverse effects	human	oral-water
Beryllium	0.005	b	0.002	a	300 x 1	small intestine	small intestinal lesions	dog	oral-diet
Cadmium	0.001	d,ab	0.001	a,ab	10 x 1	kidney	significant proteinuria	human	oral-diet
Chromium (total)	0.02	b,ak	0.003	a,ak	300 x 3	NA	no effects observed	rat	oral-diet
Lead	0.00075	c,e	0.00075	c,e		developmental, kidney, blood pressure	Delays in physical or mental development for infants and children, kidney problem and high blood pressure for adults		
Mercury	0.0003	d	0.0003	c					
Nickel	0.02	b	0.02	a,y	300 x 1	whole body	decreased body weights and organ weights	rat	oral-diet
Selenium	0.005	b	0.005	a	3 x 1	skin, blood, CNS	selenosis	human	oral
Silver	0.005	b	0.005	a	3 x 1	skin	argyria	human	intravenous
Vanadium	0.009	a,aa	0.009	a,aa	100 x 1	hair cystine	Decrease hair cystine	rat	oral
Zinc	0.3	b	0.3	a	3 x 1	metabolism	copper balance affected	human	oral-diet

Hierarchy of Sources:
a. US EPA Integrated Risk Information System (IRIS), http://www.epa.gov/IRIS, November, 2015.
b. US EPA, Health Effects Assessment Summary Tables (HEAST), Office of Solid Waste and Emergency Response/Office of Emergency and Remedial Response, current as of December 2011.
c. MassDEP 2014 ShortForm (v0414.xlsx).
d. Chronic oral RfD has been used here as subchronic oral RfD equivalent.
e. Derived from the USEPA Action Level for lead for Treatment Technique (0.015 milligrams per liter, mg/L). The derivation is presented in the MassDEP (1992) Risk Assessment ShortForm - Residential Scenario.
f. MassDEP, Characterizing Risks Posed by Petroleum Contaminated Sites: Implementation of the MassDEP VPH/EPH Approach, Final Policy (#WSC-02-411). Table 4-13. December 2002.
g. US EPA Provisional Peer Reviewed Toxicity Values for Superfund (PPRTV); current as of November, 2015.
m. Value from IRIS for Aroclor 1254 was used for all other Aroclors.
y. Values for Nickel as soluble salts.
aa. Value for vanadium pentoxide.
ab. Oral toxicity values for Cadmium (Diet) (1 x10-3 mg/kg-day) was used for sediment exposures.
ak. Values for hexavalent chromium (CrVI).

Abbreviations:

CNS=Central nervous system; NA=Not Available; COC = Constituent of Concern; MF= Modifying Factor; NA= Not Applicable; RfD = Reference Dose; UF= Uncertainty Factor.

TABLE J-5
SUMMARY OF DOSE-RESPONSE INFORMATION - CARCINOGENIC EFFECTS
Everett Staging Yard
Everett, Massachusetts

COC	Weight of Evidence Class		Oral Cancer Slope Factor $(mg/kg/day)^{-1}$		Target Organ/System (oral)	Study Animal	Study Method
2-Butanone	D	a					
Acetone	D	a					
Carbon Disulfide							
2-Methylnaphthalene							
Acenaphthene							
Acenaphthylene	D	a					
Anthracene	D	a					
Benzo(a)Anthracene	B2	a	7.3E-01	g			
Benzo(a)Pyrene	B2	a	7.3E+00	a	forestomach	mouse	oral-diet
Benzo(b)Fluoranthene	B2	a	7.3E-01	g			
Benzo(g,h,i)Perylene	D	a					
Benzo(k)Fluoranthene	B2	a	7.3E-02	g			
Bis(2-Ethylhexyl)phthalate	B2	a	1.4E-02	a	liver	mouse	oral-diet
Chrysene	B2	a	7.3E-02	g			
Dibenzo(a,h)anthracene	B2	a	7.3E+00	g			
Fluoranthene	D	a					
Fluorene	D	a					
Indeno(1,2,3-cd)Pyrene	B2	a	7.3E-01	g			
Naphthalene	C	a					
Phenanthrene	D	a					
Pyrene	D	a					
C11-C22 Aromatic Fraction							
C19-C36 Aliphatic Fraction							
C9-C18 Aliphatic Fraction							
Aroclor - 1248	B2	a	2.0E+00	a	liver	rat	oral-diet
Aroclor - 1254	B2	a	2.0E+00	a	liver	rat	oral-diet
Aroclor - 1260	B2	a	2.0E+00	a	liver	rat	oral-diet
Aroclor - 1262	B2	a	2.0E+00	a	liver	rat	oral-diet
Antimony							
Arsenic	A	a	1.5E+00	a	skin	human	oral water
Barium	D	a					
Beryllium	B1	a, j					
Cadmium	B1	a, j					
Chromium (total)	D	a					
Lead	B2	a					
Mercury	D	a					
Nickel	A (Nickel Refinery Dust and Nickel Subsulfide)	a					
Selenium	D	a					
Silver	D	a					
Vanadium							
Zinc	D	a					

Hierarchy of Sources:
a. US EPA Integrated Risk Information System (IRIS), http://www.epa.gov/IRIS, November, 2015.
g. MassDEP 2014 ShortForm (v0414.xlsx). This Cancer Slope Factor or Unit Risk for benzo(a)pyrene (from IRIS) has been applied to the seven PAH compc
j. Beryllium and cadmium are B1 carcinogens by the inhalation route only. CSFs are not applicable.

Notes:

1. Weight of evidence classification:
   - A: Human carcinogen
   - B: Probable human carcinogen
     - B1: Limited evidence of carcinogenicity in humans from epidemiological studies
     - B2: Sufficient evidence of carcinogenicity in animals, inadequate evidence in humans
   - C: Possible human carcinogen
   - D: Not classified
   - E: No evidence of carcinogenicity

2. Blank space indicates no data available.

Abbreviations:
COC = constituent of concern; CSF = cancer slope factor; PAH = polycyclic aromatic hydrocarbons.

TABLE J-6
RELATIVE ABSORPTION FACTORS
Everett Staging Yard
Everett, Massachusetts

COC	Exposure Pathways			
	Oral Soil		Dermal Soil	
	Carcinogen	Non-Carcinogen	Carcinogen	Non-Carcinogen
2-Butanone		1 a		0.03 a
Acetone		1 a		0.03 a
Carbon Disulfide		1 b		0.12 b
2-Methylnaphthalene		0.3 a		0.1 a
Acenaphthene		0.3 a		0.1 a
Acenaphthylene		0.3 a		0.1 a
Anthracene		0.3 a		0.1 a
Benzo(a)Anthracene	0.3 a	0.3 a	0.02 a	0.02 a
Benzo(a)Pyrene	0.3 a	0.3 a	0.02 a	0.02 a
Benzo(b)Fluoranthene	0.3 a	0.3 a	0.02 a	0.02 a
Benzo(g,h,i)Perylene		0.3 a		0.1 a
Benzo(k)Fluoranthene	0.3 a	0.3 a	0.02 a	0.02 a
Bis(2-Ethylhexyl)phthalate	1 a	1 a	0.1 a	0.1 a
Chrysene	0.3 a	0.3 a	0.02 a	0.02 a
Dibenzo(a,h)anthracene	0.3 a	0.3 a	0.02 a	0.02 a
Fluoranthene		0.3 a		0.1 a
Fluorene		0.3 a		0.1 a
Indeno(1,2,3-cd)Pyrene	0.3 a	0.3 a	0.02 a	0.02 a
Naphthalene		0.3 a		0.1 a
Phenanthrene		0.3 a		0.1 a
Pyrene		0.3 a		0.1 a
C11-C22 Aromatic Fraction		0.3 a		0.1 a
C19-C36 Aliphatic Fraction		1 a		0.2 a
C9-C18 Aliphatic Fraction		1 a		0.2 a
Aroclor - 1248	1 a	1 a	0.1 a	0.1 a
Aroclor - 1254	1 a	1 a	0.1 a	0.1 a
Aroclor - 1260	1 a	1 a	0.1 a	0.1 a
Aroclor - 1262	1 a	1 a	0.1 a	0.1 a
Antimony		1 a		0.1 a
Arsenic	0.5 a	0.5 a	0.03 a	0.03 a
Barium		1 a		0.1 a
Beryllium		1 a		0.1 a
Cadmium		1 a		0.01 a
Chromium (total)		1 a		0.1 a
Lead		0.3 c		0.006 a
Mercury		0.5 a		0.1 a
Nickel		1 a		0.2 a
Selenium		1 a		0.01 a
Silver		1 a		0.3 a
Vanadium		1 a		0.1 a
Zinc		1 a		0.1 a

Notes:
a. MassDEP 2014 ShortForm (v0414.xlsx).
b. GZA-derived value based on the default absorption efficiencies listed in Table B-11 of the MassDEP (1995) guidance.
c. USEPA 2007. User's Guide for the Integrated Exposure Uptake Biokinetic Model for Lead in Children (IEUBK) Windows.

Notes:
1. A blank space indicates no data found.
2. Where data are lacking, a default value of 1 is used in subsequent risk calculations.

Abbreviations:
COC = Constituent of Concern; RAF = Relative Absorption Factors.

TABLE J-7
CALCULATION OF AVERAGE DAILY DOSES AND RISK ESTIMATES
FOR DERMAL CONTACT WITH SEDIMENT
Everett Staging Yard
Everett, Massachusetts

RECEPTOR: Trespasser (Child, age 7<15)
CHRONIC NON-CANCER EFFECTS

Dermal Contact with Sediment

$$ADD_{sed\text{-}dermal} = \frac{EPC_{sed} * DCR_{sed} * EF * ED * EP * RAF_{dermal\text{-}nc} * C1}{BW * AP_{nc}}$$

See TABLE J-2 for Exposure Point Concentration Derivation

$$HQ_{sed\text{-}dermal} = \frac{ADD_{sed\text{-}dermal}}{RfD}$$

$$HI_{sed\text{-}dermal} = \Sigma\ HQ_{sed\text{-}dermal}$$

COC	EPC_{sed} EPC1 (mg/kg)	$RAF_{dermal\text{-}nc}$ (unitless)	$ADD_{sed\text{-}dermal}$ (mg/kg-day)	RfD Chronic (mg/kg-day)	$HQ_{sed\text{-}dermal}$ (unitless)
2-Butanone	0.012	0.03	2.3E-09	6.0E-01	3.9E-09
Acetone	0.43	0.03	8.5E-08	9.0E-01	9.5E-08
Carbon Disulfide	0.014	0.12	1.1E-08	1.0E-01	1.1E-07
2-Methylnaphthalene	0.42	0.1	2.8E-07	4.0E-03	6.9E-05
Acenaphthene	0.27	0.1	1.8E-07	6.0E-02	3.0E-06
Acenaphthylene	1.3	0.1	8.5E-07	3.0E-02	2.8E-05
Anthracene	1.7	0.1	1.1E-06	3.0E-01	3.8E-06
Benzo(a)Anthracene	2.9	0.02	3.7E-07	3.0E-02	1.2E-05
Benzo(a)Pyrene	2.3	0.02	3.1E-07	3.0E-02	1.0E-05
Benzo(b)Fluoranthene	3.4	0.02	4.4E-07	3.0E-02	1.5E-05
Benzo(g,h,i)Perylene	1.0	0.1	6.7E-07	3.0E-02	2.2E-05
Benzo(k)Fluoranthene	0.69	0.02	9.1E-08	3.0E-02	3.0E-06
Bis(2-Ethylhexyl)phthalate	7.3	0.1	4.8E-06	2.0E-02	2.4E-04
Chrysene	3.5	0.02	4.6E-07	3.0E-02	1.5E-05
Dibenzo(a,h)anthracene	0.40	0.02	5.2E-08	3.0E-02	1.7E-06
Fluoranthene	5.9	0.1	3.9E-06	4.0E-02	9.7E-05
Fluorene	0.38	0.1	2.5E-07	4.0E-02	6.2E-06
Indeno(1,2,3-cd)Pyrene	1.2	0.02	1.6E-07	3.0E-02	5.4E-06
Naphthalene	1.4	0.1	9.3E-07	2.0E-02	4.6E-05
Phenanthrene	1.9	0.1	1.3E-06	3.0E-02	4.2E-05
Pyrene	5.4	0.1	3.5E-06	3.0E-02	1.2E-04
C11-C22 Aromatic Fraction	217	0.1	1.4E-04	3.0E-02	4.7E-03
C19-C36 Aliphatic Fraction	188	0.2	2.5E-04	2.0E+00	1.2E-04
C9-C18 Aliphatic Fraction	59	0.2	7.7E-05	1.0E-01	7.7E-04
Aroclor - 1248	0.61	0.1	4.0E-07	2.0E-05	2.0E-02
Aroclor - 1254	0.82	0.1	5.4E-07	2.0E-05	2.7E-02
Aroclor - 1260	0.31	0.1	2.0E-07	2.0E-05	1.0E-02
Aroclor - 1262	0.0092	0.1	6.0E-09	2.0E-05	3.0E-04
Antimony	2.3	0.1	1.5E-06	4.0E-04	3.8E-03
Arsenic	210	0.03	4.1E-05	3.0E-04	1.4E-01
Barium	92	0.1	6.0E-05	2.0E-01	3.0E-04
Beryllium	0.67	0.1	4.4E-07	2.0E-03	2.2E-04
Cadmium	3.4	0.01	2.2E-07	1.0E-03	2.2E-04
Chromium (total)	91	0.1	6.0E-05	3.0E-03	2.0E-02
Lead	1210	0.006	4.8E-05	7.5E-04	6.4E-02
Mercury	12	0.1	7.8E-06	3.0E-04	2.6E-02
Nickel	84	0.2	1.1E-04	2.0E-02	5.5E-03
Selenium	67	0.01	4.4E-06	5.0E-03	8.7E-04
Silver	4.1	0.3	8.0E-06	5.0E-03	1.6E-03
Vanadium	66	0.1	4.3E-05	9.0E-03	4.8E-03
				$HI_{sed\text{-}dermal}$ =	**3.3E-01**

Notes:
1. Only COCs that are detected at this exposure point are displayed.
2. COC = Constituent of Concern.

TABLE J-7 (Continued)
CALCULATION OF AVERAGE DAILY DOSES AND RISK ESTIMATES
FOR DERMAL CONTACT WITH SEDIMENT
Everett Staging Yard
Everett, Massachusetts

RECEPTOR: Trespasser (Child, age 7<15)
CANCER EFFECTS

Dermal Contact with Sediment

$$LADD_{sed\text{-}dermal} = \frac{EPC_{sed} * DCR_{sed} * EF * ED * EP * RAF_{dermal\text{-}c} * C1}{BW * AP_c}$$

See TABLE J-2 for Exposure Point Concentration Derivation

$ELCR_{sed\text{-}dermal} = LADD_{sed\text{-}dermal} * CSF$

Total $ELCR_{sed\text{-}dermal} = \Sigma ELCR_{sed\text{-}dermal}$

COC	EPC_{sed} EPC1 (mg/kg)	$RAF_{dermal\text{-}c}$ (unitless)	$LADD_{sed\text{-}dermal}$ (mg/kg-day)	CSF $(mg/kg\text{-}day)^{-1}$	$ELCR_{sed\text{-}dermal}$ (unitless)
2-Butanone	0.012	1	8.92E-09	NA	NC
Acetone	0.43	1	3.25E-07	NA	NC
Carbon Disulfide	0.014	1	1.06E-08	NA	NC
2-Methylnaphthalene	0.42	1	3.17E-07	NA	NC
Acenaphthene	0.27	1	2.03E-07	NA	NC
Acenaphthylene	1.3	1	9.67E-07	NA	NC
Anthracene	1.7	1	1.30E-06	NA	NC
Benzo(a)Anthracene	2.9	0.02	4.27E-08	7.3E-01	3.1E-08
Benzo(a)Pyrene	2.3	0.02	3.49E-08	7.3E+00	2.6E-07
Benzo(b)Fluoranthene	3.4	0.02	5.04E-08	7.3E-01	3.7E-08
Benzo(g,h,i)Perylene	1.0	1	7.65E-07	NA	NC
Benzo(k)Fluoranthene	0.69	0.02	1.04E-08	7.3E-02	7.6E-10
Bis(2-Ethylhexyl)phthalate	7.3	0.1	5.46E-07	1.4E-02	7.6E-09
Chrysene	3.5	0.02	5.26E-08	7.3E-02	3.8E-09
Dibenzo(a,h)anthracene	0.40	0.02	5.92E-09	7.3E+00	4.3E-08
Fluoranthene	5.9	1	4.42E-06	NA	NC
Fluorene	0.38	1	2.83E-07	NA	NC
Indeno(1,2,3-cd)Pyrene	1.2	0.02	1.86E-08	7.3E-01	1.4E-08
Naphthalene	1.4	1	1.06E-06	NA	NC
Phenanthrene	1.9	1	1.45E-06	NA	NC
Pyrene	5.4	1	4.03E-06	NA	NC
C11-C22 Aromatic Fraction	217	1	1.63E-04	NA	NC
C19-C36 Aliphatic Fraction	188	1	1.41E-04	NA	NC
C9-C18 Aliphatic Fraction	59	1	4.42E-05	NA	NC
Aroclor - 1248	0.61	0.1	4.56E-08	2.0E+00	9.1E-08
Aroclor - 1254	0.82	0.1	6.17E-08	2.0E+00	1.2E-07
Aroclor - 1260	0.31	0.1	2.34E-08	2.0E+00	4.7E-08
Aroclor - 1262	0.0092	0.1	6.90E-10	2.0E+00	1.4E-09
Antimony	2.3	1	1.72E-06	NA	NC
Arsenic	210	0.03	4.72E-06	1.5E+00	7.1E-06
Barium	92	1	6.86E-05	NA	NC
Beryllium	0.67	1	5.02E-07	NA	NC
Cadmium	3.4	1	2.55E-06	NA	NC
Chromium (total)	91	1	6.85E-05	NA	NC
Lead	1210	1	9.07E-04	NA	NC
Mercury	12	1	8.92E-06	NA	NC
Nickel	84	1	6.33E-05	NA	NC
Selenium	67	1	4.99E-05	NA	NC
Silver	4.1	1	3.06E-06	NA	NC
Vanadium	66	1	4.93E-05	NA	NC
				Total $ELCR_{sed\text{-}dermal}$:	**7.7E-06**

Notes:
1. Only COCs that are detected at this exposure point are displayed.
2. COC = Constituent of Concern; NA = Not Applicable/Not Available; NC = Not Calculated.
3. A default value of 1 is used when a RAF is otherwise unavailable.

TABLE J-8
CALCULATION OF AVERAGE DAILY DOSES AND RISK ESTIMATES
FOR INCIDENTAL INGESTION OF SEDIMENT
Everett Staging Yard
Everett, Massachusetts

RECEPTOR: Trespasser (Child, age 7<15)
CHRONIC NON-CANCER EFFECTS

Incidental Ingestion of Sediment

$$ADD_{sed\text{-}oral} = \frac{EPC_{sed} * IR_{sed} * EF * ED * EP * RAF_{oral\text{-}nc} * C1}{BW * AP_{nc}}$$

See TABLE J-2 for Exposure Point Concentration Derivation

$$HQ_{sed\text{-}oral} = \frac{ADD_{sed\text{-}oral}}{RfD}$$

$$HI_{sed\text{-}oral} = \Sigma HQ_{sed\text{-}oral}$$

COC	EPC_{sed} EPC1 (mg/kg)	$RAF_{oral\text{-}nc}$ (unitless)	$ADD_{sed\text{-}oral}$ (mg/kg-day)	RfD Chronic (mg/kg-day)	$HQ_{sed\text{-}oral}$ (unitless)
2-Butanone	0.012	1	1.3E-09	6.0E-01	2.2E-09
Acetone	0.43	1	4.9E-08	9.0E-01	5.4E-08
Carbon Disulfide	0.014	1	1.6E-09	1.0E-01	1.6E-08
2-Methylnaphthalene	0.42	0.3	1.4E-08	4.0E-03	3.6E-06
Acenaphthene	0.27	0.3	9.1E-09	6.0E-02	1.5E-07
Acenaphthylene	1.3	0.3	4.3E-08	3.0E-02	1.4E-06
Anthracene	1.7	0.3	5.8E-08	3.0E-01	1.9E-07
Benzo(a)Anthracene	2.9	0.3	9.6E-08	3.0E-02	3.2E-06
Benzo(a)Pyrene	2.3	0.3	7.8E-08	3.0E-02	2.6E-06
Benzo(b)Fluoranthene	3.4	0.3	1.1E-07	3.0E-02	3.8E-06
Benzo(g,h,i)Perylene	1.0	0.3	3.4E-08	3.0E-02	1.1E-06
Benzo(k)Fluoranthene	0.69	0.3	2.3E-08	3.0E-02	7.8E-07
Bis(2-Ethylhexyl)phthalate	7.3	1	8.2E-07	2.0E-02	4.1E-05
Chrysene	3.5	0.3	1.2E-07	3.0E-02	3.9E-06
Dibenzo(a,h)anthracene	0.40	0.3	1.3E-08	3.0E-02	4.4E-07
Fluoranthene	5.9	0.3	2.0E-07	4.0E-02	4.9E-06
Fluorene	0.38	0.3	1.3E-08	4.0E-02	3.2E-07
Indeno(1,2,3-cd)Pyrene	1.2	0.3	4.2E-08	3.0E-02	1.4E-06
Naphthalene	1.4	0.3	4.7E-08	2.0E-02	2.4E-06
Phenanthrene	1.9	0.3	6.5E-08	3.0E-02	2.2E-06
Pyrene	5.4	0.3	1.8E-07	3.0E-02	6.0E-06
C11-C22 Aromatic Fraction	217	0.3	7.3E-06	3.0E-02	2.4E-04
C19-C36 Aliphatic Fraction	188	1	2.1E-05	2.0E+00	1.1E-05
C9-C18 Aliphatic Fraction	59	1	6.6E-06	1.0E-01	6.6E-05
Aroclor - 1248	0.61	1	6.8E-08	2.0E-05	3.4E-03
Aroclor - 1254	0.82	1	9.2E-08	2.0E-05	4.6E-03
Aroclor - 1260	0.31	1	3.5E-08	2.0E-05	1.7E-03
Aroclor - 1262	0.0092	1	1.0E-09	2.0E-05	5.2E-05
Antimony	2.3	1	2.6E-07	4.0E-04	6.4E-04
Arsenic	210	0.5	1.2E-05	3.0E-04	3.9E-02
Barium	92	1	1.0E-05	2.0E-01	5.1E-05
Beryllium	0.67	1	7.5E-08	2.0E-03	3.8E-05
Cadmium	3.4	1	3.8E-07	1.0E-03	3.8E-04
Chromium (total)	91	1	1.0E-05	3.0E-03	3.4E-03
Lead	1210	0.3	4.1E-05	7.5E-04	5.4E-02
Mercury	12	0.5	6.7E-07	3.0E-04	2.2E-03
Nickel	84	1	9.5E-06	2.0E-02	4.7E-04
Selenium	67	1	7.5E-06	5.0E-03	1.5E-03
Silver	4.1	1	4.6E-07	5.0E-03	9.1E-05
Vanadium	66	1	7.4E-06	9.0E-03	8.2E-04
				$HI_{sed\text{-}oral}$ =	**1.1E-01**

Notes:
1. Only COCs that are detected at this exposure point are displayed.
2. COC = Constituent of Concern.
3. A default value of 1 is used when a RAF is otherwise unavailable.

TABLE J-8 (Continued)
CALCULATION OF AVERAGE DAILY DOSES AND RISK ESTIMATES
FOR INCIDENTAL INGESTION OF SEDIMENT
Everett Staging Yard
Everett, Massachusetts

RECEPTOR: Trespasser (Child, age 7<15)
CANCER EFFECTS

Incidental Ingestion of Sediment

$$LADD_{sed\text{-}oral} = \frac{EPC_{sed} * IR_{sed} * EF * ED * EP * RAF_{oral\text{-}c} * C1}{BW * AP_c}$$

See TABLE J-2 for Exposure Point Concentration Derivation

$ELCR_{sed\text{-}oral} = LADD_{sed\text{-}oral} * CSF$

Total $ELCR_{sed\text{-}oral} = \sum ELCR_{sed\text{-}oral}$

COC	EPC_{sed} EPC1 (mg/kg)	$RAF_{oral\text{-}c}$ (unitless)	$LADD_{sed\text{-}oral}$ (mg/kg-day)	CSF $(mg/kg\text{-}day)^{-1}$	$ELCR_{sed\text{-}oral}$ (unitless)
2-Butanone	0.012	1	1.52E-10	NA	NC
Acetone	0.43	1	5.56E-09	NA	NC
Carbon Disulfide	0.014	1	1.82E-10	NA	NC
2-Methylnaphthalene	0.42	1	5.42E-09	NA	NC
Acenaphthene	0.27	1	3.47E-09	NA	NC
Acenaphthylene	1.3	1	1.65E-08	NA	NC
Anthracene	1.7	1	2.23E-08	NA	NC
Benzo(a)Anthracene	2.9	0.3	1.09E-08	7.3E-01	8.0E-09
Benzo(a)Pyrene	2.3	0.3	8.95E-09	7.3E+00	6.5E-08
Benzo(b)Fluoranthene	3.4	0.3	1.29E-08	7.3E-01	9.4E-09
Benzo(g,h,i)Perylene	1.0	1	1.31E-08	NA	NC
Benzo(k)Fluoranthene	0.69	0.3	2.66E-09	7.3E-02	1.9E-10
Bis(2-Ethylhexyl)phthalate	7.3	1	9.32E-08	1.4E-02	1.3E-09
Chrysene	3.5	0.3	1.35E-08	7.3E-02	9.8E-10
Dibenzo(a,h)anthracene	0.40	0.3	1.52E-09	7.3E+00	1.1E-08
Fluoranthene	5.9	1	7.54E-08	NA	NC
Fluorene	0.38	1	4.84E-09	NA	NC
Indeno(1,2,3-cd)Pyrene	1.2	0.3	4.76E-09	7.3E-01	3.5E-09
Naphthalene	1.4	1	1.81E-08	NA	NC
Phenanthrene	1.9	1	2.48E-08	NA	NC
Pyrene	5.4	1	6.88E-08	NA	NC
C11-C22 Aromatic Fraction	217	1	2.78E-06	NA	NC
C19-C36 Aliphatic Fraction	188	1	2.41E-06	NA	NC
C9-C18 Aliphatic Fraction	59	1	7.56E-07	NA	NC
Aroclor - 1248	0.61	1	7.79E-09	2.0E+00	1.6E-08
Aroclor - 1254	0.82	1	1.05E-08	2.0E+00	2.1E-08
Aroclor - 1260	0.31	1	4.00E-09	2.0E+00	8.0E-09
Aroclor - 1262	0.0092	1	1.18E-10	2.0E+00	2.4E-10
Antimony	2.3	1	2.95E-08	NA	NC
Arsenic	210	0.5	1.34E-06	1.5E+00	2.0E-06
Barium	92	1	1.17E-06	NA	NC
Beryllium	0.67	1	8.58E-09	NA	NC
Cadmium	3.4	1	4.35E-08	NA	NC
Chromium (total)	91	1	1.17E-06	NA	NC
Lead	1210	1	1.55E-05	NA	NC
Mercury	12	1	1.52E-07	NA	NC
Nickel	84	1	1.08E-06	NA	NC
Selenium	67	1	8.52E-07	NA	NC
Silver	4.1	1	5.22E-08	NA	NC
Vanadium	66	1	8.43E-07	NA	NC
				Total $ELCR_{sed\text{-}oral}$:	**2.2E-06**

Notes:
1. Only COCs that are detected at this exposure point are displayed.
2. COC = Constituent of Concern; NA = Not Applicable/Not Available; NC = Not Calculated.
3. A default value of 1 is used when a RAF is otherwise unavailable.

TABLE J-9
SUMMARY OF TOTAL HAZARD INDICES AND RISK ESTIMATES
Everett Staging Yard
Everett, Massachusetts

Receptor	Exposure Media/Route		Non-Cancer Hazard Index		Excess Lifetime Cancer Risk	
			Chronic HI	Driver	Estimate	Driver
RECEPTOR: Trespassers	Dermal Contact with Sediment	Subtotal:	0.33	Arsenic	7.7E-06	Arsenic
	Incidental Ingestion of Sediment	Subtotal:	0.11	Lead	2.2E-06	Arsenic
	Total for RECEPTOR: Trespassers:		**0.44**		**9.9E-06**	
	MCP Risk Limits:		**1**		**1E-05**	
	Exceed MCP Risk Limits?		**NO**		**NO**	

Abbreviations:
MCP = Massachusetts Contingency Plan.

APPENDIX K

TRANSMITTAL FORM BWSC108

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC 108

Release Tracking Number
3 - 13341

COMPREHENSIVE RESPONSE ACTION TRANSMITTAL FORM & PHASE I COMPLETION STATEMENT

Pursuant to 310 CMR 40.0484 (Subpart D) and 40.0800 (Subpart H)

A. SITE LOCATION:

1. Site Name: EVERETT STAGING YARD

2. Street Address: 1 HORIZON WAY

3. City/Town: EVERETT 4. ZIP Code: 021490000

þ 5. Check here if the disposal site that is the source of the release is Tier Classified. Check the current Tier Classification Category:

€ a. Tier I € b. Tier ID þ c. Tier II

B. THIS FORM IS BEING USED TO: (check all that apply)

€ 1. Submit a **Phase I Completion Statement,** pursuant to 310 CMR 40.0484.

€ 2. Submit a **Revised Phase I Completion Statement,** pursuant to 310 CMR 40.0484.

€ 3. Submit a **Phase II Scope of Work,** pursuant to 310 CMR 40.0834.

€ 4. Submit an **interim Phase II Report.** This report does not satisfy the response action deadline requirements in 310 CMR 40.0500.

þ 5. Submit a **final Phase II Report and Completion Statement,** pursuant to 310 CMR 40.0836.

€ 6. Submit a **Revised Phase II Report and Completion Statement,** pursuant to 310 CMR 40.0836.

€ 7. Submit a **Phase III Remedial Action Plan and Completion Statement,** pursuant to 310 CMR 40.0862.

€ 8. Submit a **Revised Phase III Remedial Action Plan and Completion Statement,** pursuant to 310 CMR 40.0862.

€ 9. Submit a **Phase IV Remedy Implementation Plan,** pursuant to 310 CMR 40.0874.

€ 10. Submit a **Modified Phase IV Remedy Implementation Plan,** pursuant to 310 CMR 40.0874.

€ 11. Submit an **As-Built Construction Report,** pursuant to 310 CMR 40.0875.

€ 12. Submit a **Phase IV Status Report,** pursuant to 310 CMR 40.0877.

€ 13. Submit a **Phase IV Completion Statement,** pursuant to 310 CMR 40.0878 and 40.0879.

Specify the outcome of Phase IV activities: (check one)

€ a. Phase V Operation, Maintenance or Monitoring of the Comprehensive Remedial Action is necessary to achieve a Permanent or Temporary Solution.

€ b. The requirements of a Permanent Solution have been met. A completed Permanent Solution Statement and Report (BWSC104) will be submitted to DEP.

€ c. The requirements of a Temporary Solution have been met. A completed Temporary Solution Statement and Report (BWSC104) will be submitted to DEP.

B. THIS FORM IS BEING USED TO (cont.): (check all that apply)

€ 14. Submit a **Revised Phase IV Completion Statement,** pursuant to 310 CMR 40.0878 and 40.0879.

€ 15. Submit a **Phase V Status Report,** pursuant to 310 CMR 40.0892.

€ 16. Submit a **Remedial Monitoring Report.** (This report can only be submitted through eDEP.)

a. Type of Report: (check one) € i. Initial Report € ii. Interim Report € iii. Final Report

b. Frequency of Submittal: (check all that apply)

€ i. A Remedial Monitoring Report(s) submitted monthly to address an Imminent Hazard.

€ ii. A Remedial Monitoring Report(s) submitted monthly to address a Condition of Substantial Release Migration.

€ iii. A Remedial Monitoring Report(s) submitted every six months, concurrent with a Status Report.

€ iv. A Remedial Monitoring Report(s) submitted annually, concurrent with a Status Report.

c. Status of Site: (check one) € i. Phase IV € ii. Phase V € iii. Remedy Operation Status € iv. Temporary Solution

d. Number of Remedial Systems and/or Monitoring Programs: _____

A separate BWSC108A, CRA Remedial Monitoring Report, must be filled out for each Remedial System and/or Monitoring Program addressed by this transmittal form.

€ 17. Submit a **Remedy Operation Status,** pursuant to 310 CMR 40.0893.

€ 18. Submit a **Status Report to maintain a Remedy Operation Status,** pursuant to 310 CMR 40.0893(2).

€ 19. Submit a **Transfer and/or a Modification of Persons Maintaining a Remedy Operation Status (ROS),** pursuant to 310 CMR 40.0893(5) (check one, or both, if applicable).

€ a. Submit a Transfer of Persons Maintaining an ROS (the transferee should be the person listed in Section D, "Person Undertaking Response Actions").

€ b. Submit a Modification of Persons Maintaining an ROS (the primary representative should be the person listed in Section D, "Person Undertaking Response Actions").

c. Number of Persons Maintaining an ROS not including the primary representative: _____

€ 20. Submit a **Termination of a Remedy Operation Status,** pursuant to 310 CMR 40.0893(6).(check one)

€ a. Submit a notice indicating ROS performance standards have not been met. A plan and timetable pursuant to 310 CMR 40.0893(6)(b) for resuming the ROS are attached.

€ b. Submit a notice of Termination of ROS.

€ 21. Submit a **Phase V Completion Statement,** pursuant to 310 CMR 40.0894.

Specify the outcome of Phase V activities: (check one)

€ a. The requirements of a Permanent Solution have been met. A completed Permanent Solution Statement and Report (BWSC104) will be submitted to DEP.

€ b. The requirements for a Temporary Solution have been met. A completed Temporary Solution Statement and Report (BWSC104) will be submitted to DEP.

€ 22. Submit a **Revised Phase V Completion Statement,** pursuant to 310 CMR 40.0894.

€ 23. Submit a **Temporary Solution Status Report,** pursuant to 310 CMR 40.0898.

€ 24. Submit a **Plan for the Application of Remedial Additives** near a sensitive receptor, pursuant to 310 CMR 40.0046(3).

a. Status of Site: (check one)

€ i. Phase IV € ii. Phase V € iii. Remedy Operation Status € iv. Temporary Solution

C. LSP SIGNATURE AND STAMP:

I attest under the pains and penalties of perjury that I have personally examined and am familiar with this transmittal form, including any and all documents accompanying this submittal. In my professional opinion and judgment based upon application of (i) the standard of care in 309 CMR 4.02(1), (ii) the applicable provisions of 309 CMR 4.02(2) and (3), and 309 CMR 4.03(2), and (iii) the provisions of 309 CMR 4.03(3), to the best of my knowledge, information and belief,

> *if Section B indicates that a* ***Phase I, Phase II, Phase III, Phase IV or Phase V Completion Statement*** *and/or a* ***Termination of a Remedy Operation Status*** *is being submitted,* the response action(s) that is (are) the subject of this submittal (i) has (have) been developed and implemented in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is (are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, and (iii) comply(ies) with the identified provisions of all orders, permits, and approvals identified in this submittal;

> *if Section B indicates that a* ***Phase II Scope of Work*** *or a* ***Phase IV Remedy Implementation Plan*** *is being submitted,* the response action (s) that is (are) the subject of this submittal (i) has (have) been developed in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is (are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, and (iii) comply(ies) with the identified provisions of all orders, permits, and approvals identified in this submittal;

> *if Section B indicates that an* ***As-Built Construction Report,*** *a* ***Remedy Operation Status,*** *a* ***Phase IV, Phase V or Temporary Solution Status Report,*** *a* ***Status Report to Maintain a Remedy Operation Status,*** *a* ***Transfer or Modification of Persons Maintaining a Remedy Operation Status*** *and/or a* ***Remedial Monitoring Report*** *is being submitted,* the response action(s) that is (are) the subject of this submittal (i) is (are) being implemented in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is (are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, and (iii) comply(ies) with the identified provisions of all orders, permits, and approvals identified in this submittal.

I am aware that significant penalties may result, including, but not limited to, possible fines and imprisonment, if I submit information which I know to be false, inaccurate or materially incomplete.

1. LSP#: 8107

2. First Name: LAWRENCE 3. Last Name: FELDMAN

4. Telephone: 781-278-3700 5. Ext.: 6. Email:

7. Signature: LAWRENCE FELDMAN

8. Date: 12/31/2015 (mm/dd/yyyy)

9. LSP Stamp:



COMPREHENSIVE RESPONSE ACTION TRANSMITTAL FORM & PHASE I COMPLETION STATEMENT

Pursuant to 310 CMR 40.0484 (Subpart D) and 40.0800 (Subpart H)

D. PERSON UNDERTAKING RESPONSE ACTIONS:

1. Check all that apply: ☐ a. change in contact name ☒ b. change of address ☐ c. change in the person undertaking response actions

2. Name of Organization: WYNN MA LLC

3. Contact First Name: ROBERT 4. Last Name: DESALVIO

5. Street: 101 STATION LANDING, 2ND FLOOR 6. Title: PRESIDENT

7. City/Town: MEDFORD 8. State: MA 9. ZIP Code: 021550000

10. Telephone: 857-770-7801 11. Ext: 12. Email:

E. RELATIONSHIP TO SITE OF PERSON UNDERTAKING RESPONSE ACTIONS: ☐ Check here to change relationship

☒ 1. RP or PRP ☐ a. Owner ☐ b. Operator ☐ c. Generator ☐ d. Transporter

☒ e. Other RP or PRP Specify: ELIGIBLE OWNER/OPERATOR

☐ 2. Fiduciary, Secured Lender or Municipality with Exempt Status (as defined by M.G.L. c. 21E, s. 2)

☐ 3. Agency or Public Utility on a Right of Way (as defined by M.G.L. c. 21E, s. 5(j))

☐ 4. Any Other Person Undertaking Response Actions Specify Relationship:

F. REQUIRED ATTACHMENT AND SUBMITTALS:

☒ 1. Check here if the Response Action(s) on which this opinion is based, if any, are (were) subject to any order(s), permit(s) and/or approval(s) issued by DEP or EPA. If the box is checked, you MUST attach a statement identifying the applicable provisions thereof.

☒ 2. Check here to certify that the Chief Municipal Officer and the Local Board of Health have been notified of the submittal of any Phase Reports to DEP.

☐ 3. Check here to certify that the Chief Municipal Officer and the Local Board of Health have been notified of the availability of a Phase III Remedial Action Plan.

☐ 4. Check here to certify that the Chief Municipal Officer and the Local Board of Health have been notified of the availability of a Phase IV Remedy Implementation Plan.

☐ 5. Check here to certify that the Chief Municipal Officer and the Local Board of Health have been notified of any field work involving the implementation of a Phase IV Remedial Action.

☐ 6. If submitting a Transfer of a Remedy Operation Status (as per 310 CMR 40.0893(5)), check here to certify that a statement detailing the compliance history for the person making this submittal (transferee) is attached.

☐ 7. If submitting a Modification of a Remedy Operation Status (as per 310 CMR 40.0893(5)), check here to certify that a statement detailing the compliance history for each new person making this submittal is attached.

☐ 8. Check here if any non-updatable information provided on this form is incorrect, e.g. Release Address/Location Aid. Send corrections to: BWSC.eDEP@state.ma.us.

☒ 9. Check here to certify that the LSP Opinion containing the material facts, data, and other information is attached.

COMPREHENSIVE RESPONSE ACTION TRANSMITTAL FORM & PHASE I COMPLETION STATEMENT
Pursuant to 310 CMR 40.0484 (Subpart D) and 40.0800 (Subpart H)

G. CERTIFICATION OF PERSON UNDERTAKING RESPONSE ACTIONS:

1. I, ROBERT DESALVIO, attest under the pains and penalties of perjury (i) that I have personally examined and am familiar with the information contained in this submittal, including any and all documents accompanying this transmittal form, (ii) that, based on my inquiry of those individuals immediately responsible for obtaining the information, the material information contained in this submittal is, to the best of my knowledge and belief, true, accurate and complete, and (iii) that I am fully authorized to make this attestation on behalf of the entity legally responsible for this submittal. I/the person or entity on whose behalf this submittal is made am/is aware that there are significant penalties, including, but not limited to, possible fines and imprisonment, for willfully submitting false, inaccurate, or incomplete information.

>*if Section B indicates that this is a* **Modification of a Remedy Operation Status (ROS),** I attest under the pains and penalties of perjury that I am fully authorized to act on behalf of all persons performing response actions under the ROS as stated in 310 CMR 40.0893(5)(d) to receive oral and written correspondence from MassDEP with respect to performance of response actions under the ROS, and to receive a statement of fee amount as per 4.03(3).

I understand that any material received by the Primary Representative from MassDEP shall be deemed received by all the persons performing response actions under the ROS, and I am aware that there are significant penalties, including, but not limited to, possible fines and imprisonment, for willfully submitting false, inaccurate or incomplete information.

2. By: ROBERT DESALVIO (Signature) 3. Title: PRESIDENT

4. For: WYNN MA LLC (Name of person or entity recorded in Section D) 5. Date: 12/31/2015 (mm/dd/yyyy)

€ 6. Check here if the address of the person providing certification is different from address recorded in Section D.

7. Street:

8. City/Town: 9. State: 10. ZIP Code:

11. Telephone: 12. Ext.: 13. Email:

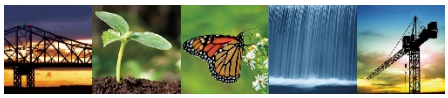
YOU ARE SUBJECT TO AN ANNUAL COMPLIANCE ASSURANCE FEE OF UP TO $10,000 PER BILLABLE YEAR FOR THIS DISPOSAL SITE. YOU MUST LEGIBLY COMPLETE ALL RELEVANT SECTIONS OF THIS FORM OR DEP MAY RETURN THE DOCUMENT AS INCOMPLETE. IF YOU SUBMIT AN INCOMPLETE FORM, YOU MAY BE PENALIZED FOR MISSING A REQUIRED DEADLINE.

Date Stamp (DEP USE ONLY:)

Received by DEP on 12/31/2015 11:44:40 AM

APPENDIX L

PUBLIC NOTICES



Proactive by Design

GEOTECHNICAL
ENVIRONMENTAL
ECOLOGICAL
WATER
CONSTRUCTION MANAGEMENT

249 Vanderbilt Avenue
Norwood, MA 02062
781.278.3700
www.gza.com

December 31, 2015
File No. 01.0171521.16

Mayor Carlo DeMaria Jr.
Mayor's Office
484 Broadway
Everett, MA 02149

Ms. Elaine Silva, Public Health
Interim Director
Everett City Hall Room 20
484 Broadway
Everett, MA 02149

Mayor Martin J. Walsh
Mayor's Office
1 City Hall Plaza
Boston, MA 02201

Executive Director
Boston Public Health Commission
1010 Massachusetts Avenue
Boston, MA 02118

Mayor Joseph A. Curtatone
Mayor's Office
93 Highland Avenue
Somerville, MA 02143

Health Department Director
City Hall Annex
50 Evergreen Avenue
Somerville, MA 02145

Mr. Stephen Crosby, Chair
Massachusetts Gaming Commission
101 Federal Street, 23rd Floor
Boston, MA 02110

Re: Notification Pursuant to the Massachusetts Contingency Plan
Availability of Supplemental Phase II – Comprehensive Site Assessment
(Former) Everett Staging Yard
1 Horizon Way
Everett, Massachusetts
Release Tracking Number 3-13341

To Whom It May Concern:

On behalf of Wynn MA, LLC, and in accordance with section 40.1403(3)(e) of the Massachusetts Contingency Plan (MCP), GZA GeoEnvironmental, Inc. (GZA) is notifying you of the availability of a Supplemental Phase II – Comprehensive Site Assessment (Phase II) for the water-side portion of the above-referenced Disposal Site (the Site). A summary of the report is as follows:

- Historic releases of Oil and Hazardous Materials (OHM) at the Former Everett Staging Yard resulted in the contamination of sediments in an embayment of the Mystic River. A previous Stage II Ecological Risk Characterization concluded that contaminants in sediment present a significant risk of harm to the benthic (bottom dwelling) community. The main goals of this Supplemental Phase II were to delineate the limits of the MCP disposal site within the river, and to develop clean-up goals to define what portion of the disposal site within the river would need to be remediated in order to achieve a condition of No Significant Risk as defined by the MCP. The embayment and adjacent portions of the Mystic River that may have been impacted by those releases is referred to in this report as the "water-side" portion of the disposal site.

- GZA performed an extensive sediment sampling and analysis program for the water-side, and collected sediment samples from locations in the Mystic River that are remote from the Former Everett Staging Yard Site; these remote samples were collected to represent what is referred to in the MCP as Local Conditions (essentially background conditions, as influenced by past human activities) within the river. Based on patterns in contaminant concentrations within the water-side sediments, and on statistical comparisons between water-side data and the Local Conditions samples, GZA identified arsenic, lead

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and mercury as the main Contaminants of Potential Ecological Concern in sediment associated with the Former Everett Staging Yard Site, and delineated an area of approximately 8.44 acres as the water-side portion of the disposal site.

- Selected surficial sediment samples were run for chemical analyses and for 28-day, whole sediment toxicity tests using the marine species *Leptocheirus plumulosus*. The toxicity test results and chemical data were used to develop clean-up goals for arsenic, lead and mercury. Those clean-up goals were then used to delineate the approximately 6.82-acre area of the water-side portion of the disposal site that would need to be remediated to achieve a condition of No Significant Risk.

- Although the Phase III study used to select a remedial alternative under the provisions of the MCP has not yet been completed, at the present time it appears that the remediation of the water-side portion of the disposal site will involve dredging and removing surficial sediment, and replacing the dredged sediment with clean sand. Because of the degraded condition of the Mystic River benthic habitat, and the shallow burrowing depths of the benthic species in this stretch of the river, a relatively thin layer of sand would effectively prevent the exposure of these organisms in the sub-tidal portions of the water-side. However, a dredge depth on the order of 2 feet may be the practical minimum depth of dredging and clean backfill.

- GZA also performed a surface water and groundwater seep sampling program. Based on the results of that program, it is GZA's opinion that the discharge of contaminated groundwater has not significantly impacted surface water quality in the Mystic River. Ongoing Release Abatement Measure (RAM) activities being conducted on the upland portion of the disposal site will further reduce the potential for disposal site contaminants to be transported into the Mystic River and associated sediments.

If you have any questions about the report, please do not hesitate to contact the undersigned at the telephone number above, or Bob DeSalvio at 857-770-7801.

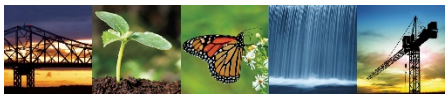
Very truly yours,

GZA GEOENVIRONMENTAL, INC.

David E. Leone, LSP
Senior Project Manager

Lawrence Feldman, LSP
Senior Principal

J:\170,000-179,999\171521\171521-02.DEL\Supplemental Phase II\PIP\171521-16 Public Notice - Phase II Availability.docx



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GEOTECHNICAL
ENVIRONMENTAL
ECOLOGICAL
WATER
CONSTRUCTION MANAGEMENT

249 Vanderbilt Avenue
Norwood, MA 02062
781.278.3700
www.gza.com

December 31, 2015
File No. 01.0171521.16

Mr. Henry F. Vitale
Executive Director
Boston Water and Sewer Commission
980 Harrison Avenue
Boston, MA 02119

Re: Notice to Owners of Property within the Boundaries of a Disposal Site
(Former) Everett Staging Yard
1 Horizon Way
Everett, Massachusetts
Release Tracking Number 3-13341

Dear Executive Director Vitale:

On behalf of Wynn MA, LLC, and in accordance with section 40.1406(1) of the Massachusetts Contingency Plan (MCP), GZA GeoEnvironmental, Inc. (GZA) is notifying you that the Mystic River sediments within a portion of the property owned by the Boston Water and Sewer Commission (BWSC) are within the disposal site identified as the (Former) Everett Staging Yard in Everett, Release Tracking Number (RTN) 3-13341. This determination was made as part of a recently completed Supplemental Phase II – Comprehensive Site Assessment (Phase II) completed in accordance with the MCP for the water-side portion of the (Former) Everett Staging Yard property. Two figures from the Phase II are attached: Figure 1 depicts the location of the disposal site, and Figure 7 indicates the disposal site boundaries, including the portion of the BWSC property. A summary of the Phase II is as follows:

- Historic releases of Oil and Hazardous Materials (OHM) at the Former Everett Staging Yard resulted in the contamination of sediments in an embayment of the Mystic River. A previous Stage II Ecological Risk Characterization concluded that contaminants in sediment present a significant risk of harm to the benthic (bottom dwelling) community. The main goals of this Supplemental Phase II were to delineate the limits of the MCP disposal site within the river, and to develop clean-up goals to define what portion of the disposal site within the river would need to be remediated in order to achieve a condition of No Significant Risk as defined by the MCP. The embayment and adjacent portions of the Mystic River that may have been impacted by those releases is referred to in this report as the "water-side" portion of the disposal site.

- GZA performed an extensive sediment sampling and analysis program for the water-side, and collected sediment samples from locations in the Mystic River that are remote from the Former Everett Staging Yard Site; these remote samples were collected to represent what is referred to in the MCP as Local Conditions (essentially background conditions, as influenced by past human activities) within the river. Based on patterns in contaminant concentrations within the water-side sediments, and on statistical comparisons between water-side data and the Local Conditions samples, GZA identified arsenic, lead and mercury as the main Contaminants of Potential Ecological Concern in sediment associated with the Former Everett Staging Yard Site, and delineated an area of approximately 8.44 acres as the water-side portion of the disposal site.

- Selected surficial sediment samples were run for chemical analyses and for 28-day, whole sediment toxicity tests using the marine species *Leptocheirus plumulosus*. The toxicity test results and chemical data were used to develop clean-up goals for arsenic, lead and mercury. Those clean-

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up goals were then used to delineate the approximately 6.82-acre area of the water-side portion of the disposal site that would need to be remediated to achieve a condition of No Significant Risk.

- Although the Phase III study used to select a remedial alternative under the provisions of the MCP has not yet been completed, at the present time it appears that the remediation of the water-side portion of the disposal site will involve dredging and removing surficial sediment, and replacing the dredged sediment with clean sand. Because of the degraded condition of the Mystic River benthic habitat, and the shallow burrowing depths of the benthic species in this stretch of the river, a relatively thin layer of sand would effectively prevent the exposure of these organisms in the sub-tidal portions of the water-side. However, a dredge depth on the order of two feet may be the practical minimum depth of dredging and clean backfill.

- GZA also performed a surface water and groundwater seep sampling program. Based on the results of that program, it is GZA's opinion that the discharge of contaminated groundwater has not significantly impacted surface water quality in the Mystic River. Ongoing Release Abatement Measure (RAM) activities being conducted on the upland portion of the disposal site will further reduce the potential for disposal site contaminants to be transported into the Mystic River and associated sediments.

For additional information, please contact Robert DeSalvio, Wynn MA, LLC, 101 Station Landing, 2nd Floor, Everett, Massachusetts 02155, (857) 770-7801.

Very truly yours,

GZA GEOENVIRONMENTAL, INC.

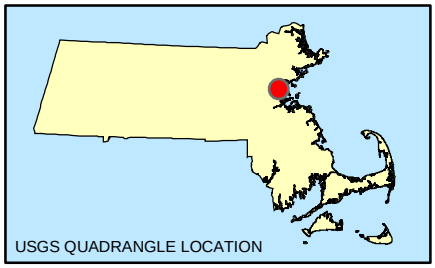
David E. Leone, LSP
Senior Project Manager

Lawrence Feldman, LSP
Senior Principal

Attachments: Figure 1 – Site Locus
Figure 7 – Proposed Extent of Sediment Dredging
Form BWSC-122

J:\170,000-179,999\171521\171521-02.DEL\Supplemental Phase II\PIP\171521-16 Boston Water and Sewer Notice.docx





SOURCE : THIS MAP CONTAINS THE ESRI ARCGIS ONLINE USA TOPOGRAPHIC MAP SERVICE, PUBLISHED DECEMBER 12, 2009 BY ESRI ARCIMS SERVICES AND UPDATED AS NEEDED. THIS SERVICE USES UNIFORM NATIONALLY RECOGNIZED DATUM AND CARTOGRAPHY STANDARDS AND A VARIETY OF AVAILABLE SOURCES FROM SEVERAL DATA PROVIDERS.

Data Supplied by : esri

0 1,000 2,000 4,000 6,000

SCALE IN FEET

N W E S

PROJ. MGR.: DEL
DESIGNED BY: DEL
REVIEWED BY: DEL
OPERATOR: SMW

DATE: 12-30-2015

LOCUS PLAN

JOB NO. 01.0171521.10

FORMER EVERETT STAGING YARD
EVERETT, MASSACHUSETTS

FIGURE NO. 1

© 2015 - GZA GeoEnvironmental, Inc., J:\170,000-179,999\171521\171521-00.DEL\FIGURES\GIS\MXDs\171521_SITE_LOCUS-FIG1.mxd, 12/30/2015, 3:22:12 PM, anthony.pungitore

© 2015 - GZA GeoEnvironmental, Inc. J:\170,000-179,999\171521\171521-00.DEL\FIGURES\GIS\MXDs\171521_Sediment-Contamination-DredgeV3.mxd, 12/1/2015, 4:00:34 PM, stephen.washburn

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GZ-224
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GZ-222
GZ-221
GZ-220

SOUTH WEST SHOAL / OFF-SITE WEST

OFF-SITE EAST

AREA TO BE DREDGED AND STABILIZED WITH RIP-RAP AS PART OF THE NAVIGATIONAL IMPROVEMENTS

AREA TO BE EXCAVATED AND CONVERTED TO LAND UNDER THE OCEAN AS PART OF NAVIGATIONAL IMPROVEMENTS. WILL BE OVER-DREDGED AND CAPPED FOR MCP REMEDIATION EFFORT

AREA TO BE FILLED BEHIND BULKHEAD TO BE CONSTRUCTED AS PART OF NAVIGATIONAL IMPROVEMENTS

PORTION OF DISPOSAL SITE ON BWSC PROPERTY

0 25 50 100 150
SCALE IN FEET

LEGEND

GZ-101 SEDIMENT CORING LOCATION

APPROXIMATE PARCEL BOUNDARY

WATER-SIDE DISPOSAL SITE BOUNDARY

SURFICIAL CONTOUR

BATHYMETRIC CONTOUR

APPROXIMATE LIMITS OF DREDGE AREA

SALT MARSH

CONTAMINATION KEY

INDICATES SURFICIAL ARSENIC EXCEEDANCE > 38.6 (mg/kg)

INDICATES SURFICIAL LEAD EXCEEDANCE > 250 (mg/kg)

INDICATES SURFICIAL MERCURY EXCEEDANCE > 1.03 (mg/kg)

UNLESS SPECIFICALLY STATED BY WRITTEN AGREEMENT, THIS DRAWING IS THE SOLE PROPERTY OF GZA GEOENVIRONMENTAL, INC. (GZA). THE INFORMATION SHOWN ON THE DRAWING IS SOLELY FOR THE USE BY GZA'S CLIENT OR THE CLIENT'S DESIGNATED REPRESENTATIVE FOR THE SPECIFIC PROJECT AND LOCATION IDENTIFIED ON THE DRAWING. THE DRAWING SHALL NOT BE TRANSFERRED, REUSED, COPIED, OR ALTERED IN ANY MANNER FOR USE AT ANY OTHER LOCATION OR FOR ANY OTHER PURPOSE WITHOUT THE PRIOR WRITTEN CONSENT OF GZA. ANY TRANSFER, REUSE, OR MODIFICATION TO THE DRAWING BY THE CLIENT OR OTHERS, WITHOUT THE PRIOR WRITTEN EXPRESS CONSENT OF GZA, WILL BE AT THE USER'S SOLE RISK AND WITHOUT ANY RISK OR LIABILITY TO GZA.

FORMER EVERETT STAGING YARD
EVERETT, MA

PROPOSED EXTENT OF SEDIMENT DREDGING

SOURCE

1) THE BASE MAP WAS DEVELOPED FROM PLANS OR ELECTRONIC FILES PROVIDED BY "FELDMAN LAND SURVEYORS" ENTITLED "EXISTING CONDITIONS PLAN" DATED: 02-20-2015, ORIGINAL SCALE: 1"=20', DRAWING NO. 14517, CAD FILE: 14517-EX-DRAFT-03-20-15.DWG.

2) THE LOCATION AND ELEVATIONS OF THE CORINGS, SAMPLING LOCATIONS, SELECTED SITE FEATURES AND EXPLORATIONS WERE APPROXIMATELY DETERMINED BY GPS. THIS DATA SHOULD BE CONSIDERED ACCURATE ONLY TO THE DEGREE IMPLIED BY THE METHOD USED.

PREPARED BY:
GZA GeoEnvironmental, Inc.
Engineers and Scientists
www.gza.com

PROJ MGR: DEL	REVIEWED BY: DEL	CHECKED BY: DEL	FIGURE 7
DESIGNED BY: TLB	DRAWN BY: SMW	SCALE: 1 INCH = 50 FT	
DATE: 12-01-2015	PROJECT NO. 01.0171521.13	REVISION NO.	

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC122

This notice is related to:
Release Tracking Number

3 - 13341

INFORMATIONAL NOTICE TO PROPERTY OWNERS

As Required by 310 CMR 40.1406 of the Massachusetts Contingency Plan (MCP)

A. DISPOSAL SITE ADDRESS: (associated with Release Tracking Number provided above)

1. Street Address: 1 HORIZON WAY

2. City/Town: EVERETT 3. ZIP Code: 02149-0000

4. Assessor's Parcel ID: H0-06-000191

B. THIS NOTICE IS BEING PROVIDED TO THE FOLLOWING PROPERTY OWNER:

1. Name of Property Owner: BOSTON WATER AND SEWER COMMISSION

2. Address of Property For Which This Notice is Being Provided: (property owned by person named in B1)

a. Street Address: ALFORD STREET

b. City/Town: BOSTON c. ZIP Code: 02129-0000

3. Assessor's Parcel ID: 0201834050

C. THIS NOTICE IS BEING GIVEN : (check one)

- [x] 1. Upon Completion of a Phase II Comprehensive Site Assessment.
- [ ] 2. Upon Submittal of a Permanent or Temporary Solution Statement (i.e., Site Closure Report).
- [ ] 3. Upon Completion of Additional Investigation showing that Oil or Hazardous Material is not Present at the Property.

D. DESCRIPTION OF OIL AND/OR HAZARDOUS MATERIAL PRESENT OR LIKELY TO BE PRESENT AT THE PROPERTY : (check all that apply)

AFFECTED ENVIRONMENTAL MEDIA	PRINCIPAL CHEMICAL(S) PRESENT
[ ] 1. Soil	
[ ] 2. Groundwater	
[ ] 3. Surface Water	
[x] 4. Sediment	ARSENIC, LEAD, MERCURY
[ ] 5. Indoor Air	
[ ] 6. Soil Gas	
[ ] 7. Other: (specify)	

E. ATTACHMENTS PROVIDED WITH THIS NOTICE, AS REQUIRED BY 310 CMR 40.1406:

- [x] 1. A Copy of the Map Showing or a Description Describing the Area where the Oil and/or Hazardous Material is or is likely to be Present.
- [x] 2. A Copy of the Phase II Comprehensive Site Assessment or Permanent or Temporary Solution Statement Conclusions.
- [ ] 3. Specify the category of Solution that applies to the Disposal Site.
  - [ ] 1. Permanent Solution with No Conditions.
  - [ ] 2. Permanent Solution with Conditions.
    - [ ] i. An Activity and Use Limitation has been implemented.
    - [ ] ii. An Activity and Use Limitation has not been implemented.
  - [ ] 3. Temporary Solution.

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC122

This notice is related to:
Release Tracking Number

3 - 13341

INFORMATIONAL NOTICE TO PROPERTY OWNERS

As Required by 310 CMR 40.1406 of the Massachusetts Contingency Plan (MCP)

F. CONTACT INFORMATION RELATING TO THE PARTY PROVIDING THIS NOTICE:

1. Name of Organization: WYNN MA, LLC
2. Contact First Name: ROBERT
3. Last Name: DESALVIO
4. Street: 101 STATION LANDING, 2ND FLOOR
5. Title: PRESIDENT
6. City/Town: MEDFORD
7. State: MA
8. ZIP Code: 02155-0000
9. Telephone: (857) 770-7801
10. Email:

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1406. The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party(ies) who is/are addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form.

PURPOSE OF THIS NOTICE

Parties who are taking actions to respond to releases of oil or hazardous material to the environment are required by state regulations (referred to above) to notify the owners of property where the oil or hazardous material is or is likely to be present. These same parties are also required to notify property owners upon completion of actions to address the oil or hazardous material, or if additional investigations show that the oil or hazardous material is not present at a property. **Section C** on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time.

INFORMATION RELATED TO YOUR PROPERTY

Section D on the reverse side of this form indicates the type(s) of oil or hazardous material that is or is likely to be present at your property, and the environmental medium (e.g., soil or groundwater) where it is or is likely to be present. **Please note** that when an investigation indicates that the oil or hazardous material is or is likely to be present at your property, this does not mean that the oil or hazardous material is posing a health risk to you. Parties who are taking actions to address oil and hazardous material releases are required by state regulations to adequately investigate these releases and take necessary actions to ensure that affected properties meet standards that are protective of human health and the environment.

ATTACHED MAP OR DESCRIPTION AND REPORT CONCLUSIONS

The party providing this notice to you is required to attach a map or description that indicates the boundaries of the area where the oil or hazardous material is or is likely to be present, and the conclusions of the site investigation or closure report **(Section E).** These attachments should give you additional information about the nature and location of the oil or hazardous material with respect to your property.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at http://www.mass.gov/eea/agencies/massdep/cleanup.

For more information regarding this notice, you may contact the party listed in **Section F** of this form. Information about the disposal site identified in **Section A** is also available in files at the Massachusetts Department of Environmental Protection.

See http://public.dep.state.ma.us/SearchableSites2/Search.aspx to view site-specific files on-line or http://mass.gov/eea/agencies/massdep/about/contacts/conduct-a-file-review.html if you would like to make an appointment to see these files in person. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.